

IBM VisualAge TeamConnection Enterprise Server



Commands Reference

Version 3.0

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Commands Reference

Version 3.0

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About this book

This book is part of the documentation library supporting the IBM TeamConnection licensed program. It describes all of the TeamConnection commands you can use from the command line interface. You should read the *TeamConnection User's Guide*, SC34-4499, before you use the TeamConnection product. It introduces the fundamentals of the *configuration management*, *version control*, *change control*, and *problem tracking* features in the TeamConnection licensed programs. It also defines the concepts that are the foundation of TeamConnection *actions* and establishes their interrelationships. You should be familiar with your operating system because you access the TeamConnection licensed programs through that environment.

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IBM VisualAge TeamConnection Enterprise Server uses DB2 Universal Database, Enterprise Edition, version 5. Refer to the bibliography at the back of this book for a list of publications you can use to install and administer your DB2 database system.

Note: It is not recommended that you make changes to your database by issuing INSERT, UPDATE, or DELETE statements or by changing or deleting database tables or the columns defined in TeamConnection database tables. Changing your database in these ways, through the DB2 administrator tools, the DB2 command line processor, the TeamConnection migration tools, or the tcupdb tool can corrupt your TeamConnection database. Any such changes are made at your own risk. Please contact your IBM representative for information on the terms of IBM customer support.

How this book is organized

Read "Chapter 1. General command information" on page 1 for an overview of the TeamConnection commands and an explanation of the command syntax. The remaining chapters, which are in alphabetical order according to command name, describe the commands in detail. Each chapter describes one command and includes:

- Description of the command and an overview of its purpose
- Syntax statements of the command, one statement per action flag
- Action flags you can use with the command
- Attribute flags that apply to the command
- Examples of the command
- Related information

The appendix describes the fields for various TeamConnection views and tables, including the order that is output by the `-raw` option of the report command.

Information on customer service, a glossary, and a bibliography are included at the back of this book.

Conventions

This book uses the following highlighting conventions:

- *Italics* are used to indicate the first occurrence of a word or phrase that is defined in the glossary. They are also used for information that you must replace.
- **Bold** is used to indicate items on the GUI.
- Monospace font is used to indicate exactly how you type the information.
- File names follow Intel conventions: **mydir\myfile.txt**. AIX, HP-UX, and Solaris users should render this file name **mydir/myfile.txt**.

Tips or platform specific information is marked in this book as follows:



Shortcut techniques and other tips



IBM VisualAge TeamConnection Enterprise Server for OS/2



IBM VisualAge TeamConnection Enterprise Server for Windows/NT



IBM VisualAge TeamConnection Enterprise Server for Windows 95



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Chapter 1. General command information

This chapter introduces the TeamConnection commands that you can issue from the command line. This chapter also does the following:

- Outlines the *authority* required to issue commands
- Explains how to use action and attribute flags with the commands
- Explains how to use TeamConnection environment variables
- Explains how to read the command syntax found in this book

TeamConnection commands

When you type TeamConnection commands, start with `teamc`, followed by the command, the action flag and argument, and the attribute flag and argument.

The purpose of each TeamConnection command is shown in the following table:

Table 1. TeamConnection commands

Command	Purpose
Access	Updates the <i>access lists</i> for a <i>component</i> , identifying the <i>user IDs</i> that have <i>explicit authority</i> to perform actions on it.
Approval	Marks <i>approval records</i> with <i>approvers'</i> opinions about proposed changes in a <i>release</i> .
Approver	Updates the list of approvers for a release.
Builder	Creates and maintains <i>builders</i> , which are used in the <i>build</i> function.
Collision	Enables you to accept, reject, or reconcile <i>collision records</i> during <i>concurrent development</i> .
Component	Creates and maintains components in a <i>family</i> . Defines a component hierarchy.
Coreq	Identifies <i>work areas</i> as <i>corequisites</i> , that is, work areas that must be included in the same <i>driver</i> or integrated into the release at the same time.
Defect	Monitors the reporting, evaluation, and resolution of problems.
Driver	Defines and works with a collection of work area changes within a release.
DriverMember	Adds work areas to or deletes work areas from a driver.
Environment	Updates the <i>environment list</i> for a release, identifying the test <i>environments</i> and the names of <i>testers</i> .
Feature	Monitors the suggestion, evaluation, and implementation of design changes and enhancements.
Fix	Marks the <i>fix records</i> for a component identifying user IDs that receive notification of actions on the component.
Host	Identifies <i>client</i> access on the <i>host list</i> associated with a user ID.
Notify	Identifies notification interest for user IDs using component notification lists.
Parser	Creates and maintains <i>parsers</i> . Use this for the build function.
Part	<ul style="list-style-type: none">• Places <i>parts</i> in the TeamConnection environment and lets users work with them.• Starts or stops the build function.• Manages the <i>build tree</i>.
Prereq	Create and delete prerequisite relationships between two or more work areas that are in the fix or integrate state.
Release	Creates and maintains releases to group project-related parts.
Report	Searches database tables for information on TeamConnection objects.

Introduction

Table 1. TeamConnection commands (continued)

Command	Purpose
Shadow	Define, setup, manipulate, and view TeamConnection shadows. A shadow is a collection of files in a filesystem that reflect the contents of a workarea, driver, or release.
Size	Updates the <i>sizing records</i> for <i>defects</i> and <i>features</i> .
Target	Maintains target and status information for part versions.
Tclogin	Logs users in and off of TeamConnection families that use password security.
Test	Updates environment <i>test records</i> , identifying testers' opinions about test results.
User	Creates user IDs and maintains information about the owners.
Verify	Updates <i>verification records</i> , indicating the outcome of defects and features.
Workarea	Creates, maintains, <i>freezes</i> , and <i>refreshes</i> work areas.

For information about commands used for the family and build servers, such as teamcd, notifyd, teamcpak, and teamcbld, , refer to the *User's Guide* and the *Administrator's Guide*

In addition to the TeamConnection commands, an Automerge tool used for automatically merging files or directories of files is included. See "Chapter 30. AutoMerge" on page 267 for additional information.

Flags

Two types of flags are associated with commands: action flags and attribute flags. You can type the names of flags in any order on the command line.

A flag is a negative (-) or a positive (+) symbol followed by a word, often in lowercase, on the command line. The positive or negative symbols associated with each flag cannot be interchanged. If a flag has a positive symbol, it can only have a positive symbol associated with it.

You can abbreviate both action and attribute flags; however, the number of letters required to make a flag unique within a command depends on the names of all of the other flags, both action and attribute flags, associated with that command.

For example, you can abbreviate the verbose flag by typing verb. However, you could not abbreviate it with ver because that would not differentiate it from the version flag, whose minimum abbreviation is vers.

Action flags

Every command has action flags associated with it. These action flags represent the actions that you can perform for a command. When you use the command line to perform a TeamConnection action, you must specify one command and only one action flag. You do not have to type the action flag directly after the command.

For example, you can perform six actions using the user command. Each of these tasks requires one of the following action flags:

teamc user -configInfo	Displays configurable field properties for users
teamc user -create	Creates a new user ID

<code>teamc user -delete</code>	Deletes an existing user ID
<code>teamc user -recreate</code>	Re-creates a previously deleted user ID
<code>teamc user -modify</code>	Changes information related to a user ID
<code>teamc user -view</code>	Displays current information for a user ID

Attribute flags

Some action flags have required attribute flags associated with them; others have optional attribute flags.

For example, the `-login` and `-address` attribute flags are required when you use the `-create` action flag for the user command. The other attribute flags are optional.

```
teamc user -create -login billyb -address williamb@vroom1.raleigh.ibm.com
-name "William Bronson" -area Dept450 +super
```

You get the same results if you rearrange the order of the flags and abbreviate some of them.

```
teamc user -login billyb -name "William Bronson" -ad
williamb@vroom1.raleigh.ibm.com -create -ar Dept450 +super
```

Syntax indicates the attribute flags that are required.

Flag arguments

In most cases, you must type additional information for an action or attribute flag. This additional information is an argument. The seven types of arguments, their format and their restrictions, are listed in the following table:

Table 2. Flag arguments

Argument	Format	Example	Restrictions
Date	yyyy/mm/dd	1995/04/29	Only numbers separated by slashes are permitted.
Name	Alphanumeric string	42tool	You cannot use blanks, vertical bars (), or ASCII control characters.*
Name ...	One or more alphanumeric strings	prod1 prod2 prod3	You cannot use vertical bars () or ASCII control characters.* Blanks are permitted to separate unique strings.
Number	Numeric string ²	823	You must use numbers. Blanks are not permitted.
Number . . .	One or more numeric strings ³	411 1124 1 362	You must use numbers. Blanks are permitted to separate unique strings.
Octal_Number	Numeric string	750	You must use numbers from 0 to 7. Blanks are not permitted.
Text	Alphanumeric strings enclosed in quotation marks	"Not able to verify."	You cannot use vertical bars () or ASCII control characters.*

Note:

* For information on the ASCII control characters you use, refer to your operating system documentation.

Introduction

² When used with a -defect or -feature flag, an alphanumeric string is acceptable and, consequently, the restrictions for *Name* apply.

³ When used with a -defect or -feature flag, one or more alphanumeric strings are acceptable and, consequently, the restrictions for *Name* . . . apply.

If the positive (+) or negative (-) symbol is the first character of the argument then the symbol must be entered twice. For example: to display numeric string **+1234** as an argument, it must be entered as ++1234.

If you specify a list of arguments for more than one flag, the action is performed for every possible combination of arguments. For example:

```
teamc fix -create -workarea 1 2 -release one two
```

creates four fix records, as shown in the following table.

Work area	Release
1	one
1	two
2	one
2	two

Null keyword

You can use the keyword `null` on some of the TeamConnection -modify flags to reset attribute contents to zero characters. For example, you can reset the reference field for a defect as follows:

```
teamc defect -modify 247 -reference null
```

Using `null` in the preceding example changes the contents to zero characters; thus, the reference field is effectively blank.

The following table lists the commands and attributes that accept the `null` keyword.

Table 3. TeamConnection attributes that accept null

Command	Attribute Flag(s)
Builder	-parameters
Component	-description
Defect	-driver -environment -reference -release
Feature	-reference
Parser	-include
Part	-builder -parameter -parser
User	-area -name
Workarea	-target

Octal numbers for directory and file permissions

The driver -extract Name . . ., part -extract Name . . ., and release -extract Name . . . actions use -dmask and -fmask attributes to enable you to set directory and file access permissions for parts that you extract from TeamConnection. These attributes take as their argument an octal number that sets three categories of permissions:

- User
- Group
- Others

For each category, there are three types of permission:

- Read
- Write
- Execute

Permissions are expressed in octal notation as shown in the following table:

Table 4. Values for file and directory permissions

Value	Read	Write	Execute
0	no	no	no
1	no	no	yes
2	no	yes	no
3	no	yes	yes
4	yes	no	no
5	yes	no	yes
6	yes	yes	no
7	yes	yes	yes

Permissions for all three categories are expressed using a 3-digit number in octal notation:

- The left number represents user access.
- The middle number represents group access.
- The right number represents access for others.

For example, parts that are created using TeamConnection have permissions 644. This octal number represents read/write permission for user, read permission for others in the user's group, and read permission for all other users. Permission 764 represents read/write/execute permission for user, read/write permission for others in the user's group, and read permission for all other users.



For parts that are extracted to an OS/2 system, only the file permissions specified for the user category are relevant. The execute file permission is ignored, as are all part permissions for the group and others categories.

Using standard input for arguments

To specify an argument using standard input, use a negative symbol (-) as the argument type. You can specify only one flag per command in this way. The following example of standard input from a keyboard illustrates the remarks flag argument:

```
teamc defect -open -component debugr -sev 3 -remarks -
```

Press Enter to create additional lines on which to type the text. When you are finished entering the text, press Enter to create a new line and then press Ctrl Z to end standard input.

In the following example of standard input from a part, the -remarks argument is equivalent to the contents of the part you specified:

```
teamc defect -open -component debugr -sev 3 -remarks - < \tmp\defect.des
```

Environment variables

You can set environment variables to describe the TeamConnection environment in which you are working. You are not required to set your TC_FAMILY environment variable for the TeamConnection client command line interface. However, if the TC_FAMILY environment variable is not set, the `-family` must be specified for every client command. See “Setting environment variables” on page 11 for more information about setting environment variables.

The names of the TeamConnection environment variables, the purpose they serve, the equivalent TeamConnection flag, the equivalent Settings notebook field, and the TeamConnection component that uses the environment variable are listed in the following table.

You can override the value you set for an environment variable by using the corresponding flag in a TeamConnection command. When an environment variable has a Settings notebook equivalent, TeamConnection uses the two as follows:

- The environment variable controls the command line interface.
- The Settings notebook controls the graphical user interface.

If there is no Settings notebook equivalent for the environment variable, then the environment variable takes effect regardless of the interface you are using.

To see some of your client settings, you can issue the following command from a command prompt:

```
teamc report -testServer
```

This command returns information like the following:

```
Connect to Family Name:      ptest
Server TCP/IP Name:         amachine.company.com
Server IP Address:          9.1.23.45
Server TCP/IP Port Number:  9999
```

```
Server Specific Information -----
Product Version:            3.0.0
Operating System:           AIX
Message catalog language:   English
Server Mode:                 non-maintenance
Authentication Level:        HOST_ONLY
```

Table 5. TeamConnection environment variables

Environment variable	Purpose	Flag	Setting	Used by
LANG	Specifies the language-specific message catalog.			Client, family server
NLSPATH	Specifies the search path for locating message files.		NLS path	Client, family server
PATH	Specifies where tcadmin is to search for the family create utilities.			Client, build server, family server

Table 5. TeamConnection environment variables (continued)

Environment variable	Purpose	Flag	Setting	Used by
TC_BACKUP	Controls whether or not the following commands create backup files. If this environment variable is set to off or OFF, the commands do not create backup files. <ul style="list-style-type: none"> • builder -extract • part -checkout • part -extract • part -merge • part -reconcile 			Family server
TC_BECOME	Identifies the user ID you want to issue TeamConnection commands from, if the user ID differs from your login. You assume the access authority of the user ID you specify.	-become	Become user	Client, build server (except mvs)
TC_BUILDENVIRONMENT	Specifies the build environment name, such as OS/2 or MVS. The value you specify here can be anything you like, but it must exactly match the environment specified for a builder in order for the builder to use this build agent. This value is case-sensitive.	-e		Build server
TC_BUILDMINWAIT	Minimum amount of time to wait (in seconds) between queries for new jobs. Default setting is 5, minimum setting is 3.			Build server
TC_BUILDMAXWAIT	Maximum amount of time to wait (in seconds) between queries for new jobs. Default setting is 15, maximum setting is 300.			Build server

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Table 5. TeamConnection environment variables (continued)

Environment variable	Purpose	Flag	Setting	Used by
TC_BUILDOPTS	<p>Specifies build options for sending build log file messages to the screen, and setting the logging level. If you do not specify any of these options, then the build server writes build messages to the build log file (teamcbld.log), and writes a minimum level of messages to the log file. Some possible values are:</p> <ul style="list-style-type: none">• TOSCREEN (-s) sends the teamcbld.log file to the screen in addition to sending it to a file.• USEENVFILE (-n)<ul style="list-style-type: none">– writes the changed environment variables to a file called tcbldev.lst instead of setting them in program's environment. The format of the file is <code>variable=value</code>.– writes the list of input files to a file called tcbldev.lst. One file per line, format is <code>pathName</code> type.– writes the list of output files to a file called tcbldev.lst. One file per line, format is <code>pathName</code> type.	-s, -n		Build server
TC_BUILDPOOL	Specifies the build pool name.	-p	Pool	Build server
TC_BUILD_RSSBUILDS_FILE	Specifies the name of startup files to be used to provide information about build servers to the build process.			Build server
TC_CASESENSE	Changes the case of the arguments in commands, not in queries.		Case	Client

Table 5. TeamConnection environment variables (continued)

Environment variable	Purpose	Flag	Setting	Used by
TC_CATALOG	Specifies a specific file for the TeamConnection message catalog. Sometimes, depending upon the operating system environment, the catalog open command will only look in a particular directory for the catalog. If the host is running multiple versions of TeamConnection, this variable may be used. To set this environment variable, specify the file path name of the message catalog as in the following example: TC_CATALOG= "/family/msgcat/teamc.cat"			Family server, oe build server
TC_COMPONENT	Specifies the default component.	-component	Component	Client, make import tool
TC_DBPATH	Specifies the database directory path. Family specific database files reside here.			Family server
TC_FAMILY	Identifies the TeamConnection family you work with.	-family	Family	Build server, client, family server, make import tool
TC_MAKEIMPORTRULES	Specifies the name of the rules file that TeamConnection uses when importing the makefile data into TeamConnection. If you set this environment variable, then you do not have to use the /u option with the fhomigmk command. Specify the full path name of the rules file. If neither this environment variable nor the /u option is used, TeamConnection uses default rules.			Make import tool
TC_MAKEIMPORTTOP	Strips off the leading part of the directory name when importing parts into TeamConnection. For example, you have parts with the following directory structure: g:\octo\src\inc\. To create these parts without the g:\octo structure, you can set TC_MAKEIMPORTTOP=g:\octo before you invoke the make import tool. The parts created in TeamConnection have the directory structure of src\inc\.			Make import tool

Introduction

Table 5. TeamConnection environment variables (continued)

Environment variable	Purpose	Flag	Setting	Used by
TC_MAKEIMPORTVERBOSE	Causes the -verbose flag to be added to part commands created by fhomigmk.			Make import tool
TC_MIGRATERULES	Specifies the name of a file containing the rules to be applied for migration of makefiles if the name is not supplied on the fhomigmk command line as a parameter.			Client
TC_MODPERM	Controls whether or not the read-only attribute is set after a part is created, checked in or unlocked in TeamConnection. To cause the read-only attribute to be set, specify TC_MODPERM=ON. To prevent the read-only attribute from being set, specify TC_MODPERM=OFF. The default is TC_MODPERM=ON.			Client
TC_NOTIFY_DAEMON	An alternate way of starting notifyd with the teamcd command. If you set this environment variable, then you do not have to use the -n option with the teamcd command. Specify the full path name of the mail exit to use with notifyd.			Family server
TC_RELEASE	Specifies a release.	-release	Release	Client, make import tool
TC_TOP	Specifies the source directory.	-top	Top	Client
TC_TRACE	Specifies the variable that lets the user designate which parts should be traced. You should modify this only when directed to do so by an IBM service person. Otherwise it is set to null. To trace all parts, specify TC_TRACE=*.			Client, family server, build server
TC_TRACEFILE	Specifies the output (part path and name) of the trace that the user designates using TC_TRACE. The default trace file name is tctrace. For the MVS build server, the default trace file is stdout.			Client, family server, build server
TC_TRACESIZE	Specifies the maximum size of the trace file in bytes. If the maximum is reached, wrapping occurs. The default is one million bytes.			Client, family server, build server

Table 5. TeamConnection environment variables (continued)

Environment variable	Purpose	Flag	Setting	Used by
TC_USER	Specifies the user login ID for single-user environments OS/2 and Windows 95 (if not using the login facility). This environment variable is not used in multiuser environments AIX, HP-UX, Solaris, MVS, MVS/OE, and Windows NT. If a user is using the Windows 95 login facility, this environment variable is not used.		User ID	Client, build server
TC_WORKAREA	Specifies the default work area name.	-workarea	Work area	Client, make import tool
TC_WWWPATH	Specifies the path for the HTML helps and image files for Web client.			Client, family server
TC_WWWDISABLED	Disables the Web client.			Family server

The following environment variables are dynamically set by the teamcbld command processing before the build script is invoked:

Table 6. TeamConnection dynamically set build environment variables

Environment variable	Purpose	Flag	Setting	Used by
TC_BUILD_USER	Login of user who initiated the part -build command.			Build server
TC_INPUT	List of input files (separated by spaces).			Build server
TC_INPUTTYPE	List of input file types (such as TcPart).			Build server
TC_OUTPUT	List of output files.			Build server
TC_OUTPUTTYPE	List of output file types.			Build server
TC_LOCATION	Directory where build script is invoked.			Build server (except MVS build server)

Setting environment variables

For methods of setting your environment variables, refer to your operating system documentation. For example, you can use the following command to set the TC_FAMILY environment variable:

- OS/2 - SET TC_FAMILY=familyName@hostname@portnumber
- UNIX - export TC_FAMILY=familyName@hostName@portNumber

Authority requirements

Different authority requirements are attached to each of the actions in the TeamConnection product. Five types of authority control the actions you can or cannot perform.

Introduction

Base authority

If you have a valid TeamConnection user ID, you can perform these unrestricted *base authority* actions:

- Open defects and features
- Modify the information associated with your user ID
- View information associated with any user ID
- Add notes to existing defects or features
- Generate reports

Superuser privilege

If you have been granted TeamConnection *superuser privilege* by a *family administrator* or someone else with superuser privilege, you can perform all possible actions in your TeamConnection family. Only a superuser can do the following:

- Create a user ID
- Create the first host list entry for a user ID
- Delete a user ID
- Re-create a user ID
- Grant superuser privilege to a user ID

Implicit authority

You have implicit authority to perform actions on the basis of ownership. For example, if you open a defect, you are the *originator* of the defect and have the implicit ability to perform certain actions, such as canceling the defect or verifying its outcome. Similarly, if you own a component, a release, or a feature, you have implicit authority related specifically to those roles. You have implicit authority until you relinquish ownership of the object in question.

Explicit authority

Explicit authority is specified for a user for a component. Granting explicit authority is a method for limiting who can perform certain actions for the component.

Your family administrator can group sets of actions according to access authority groups. You are assigned to one or more of these groups by a component owner. The authority groups you belong to for any given component are inherited for all descendant components unless the components are restricted.

For specific actions used to create access authority groups, refer to the *TeamConnection User's Guide*. For a list of the preconfigured authority groups shipped with this product, which your family administrator might use, refer to the *TeamConnection User's Guide*.

Restricted authority

A user can be restricted from performing certain actions in a specific component by someone with AccessRestrict authority who wants to control which users inherit authority from the *parent components*. The authority can be restricted for specific

users in the authority group or for all users in the group. The TeamConnection product notifies you if your specific authority is restricted.

Note: *Restricted authority* is not inherited, and it does not affect implicit authority or superuser privilege.

For more information on authority requirements, refer to the *TeamConnection User's Guide*

How to read syntax statements

The style conventions listed in the following table apply to the command syntax:

Table 7. Style conventions for TeamConnection syntax statements

Style	Usage
First letter of an argument is capitalized.	You must supply these values. For example, Name or Text.
. . .	Parameter can be repeated on the command line. For example, -login <i>Name</i> . . . means that you can enter more than one argument for the -login flag.
[]	Optional parameters are enclosed in square brackets. For example, [-description <i>Text</i>].
{ }	There is more than one parameter choice, but one is required.
	Choose one parameter only. [a b] indicates that you can choose a or b, or neither a nor b. {a b} indicates that you must choose either a or b.
–	Standard input.

Note: The syntax statements in this document use a single asterisk (*) to denote the default and a double asterisk (**) to denote a restriction. Do not type the asterisk as part of the command.

Introduction

Chapter 2. Access

Command summary

Use the **access** command to create entries on the component access list, delete entries from this list, and restrict authority for entries (including those normally inherited from ancestor components) on the list. Each entry associates a user ID with an access authority group. The authority group specifies the set of actions a user ID has the authority to perform in relation to the component. A family administrator can modify existing authority groups and define new ones. For details of the access authority groups shipped with the TeamConnection product, refer to the *TeamConnection User's Guide*.

A user ID can have more than one entry on the access list for a given component. A user ID inherits explicit authority from all ascendant components for that component and has the accumulation or superset of all authority groups defined for those ascendant components, unless the authority is restricted.

You cannot grant another user any access authority that is not defined for your own user ID.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with **`—family testfam`**.

The syntax statements for the **access** command are:

```
teamc access -create -login Name ... -authority Name -component Name  
-family Name [-become Name] [-verbose]
```

```
teamc access -delete { -login Name ... | -inherited } -authority Name  
-component Name -family Name [-become Name] [-verbose]
```

```
teamc access -restrict { -login Name ... | -inherited } -authority Name  
-component Name -family Name [-become Name] [-verbose]
```

Command actions

access -create

Adds entries to a component access list.

Access

The **access -create** command has these associated attribute flags.

Attribute	Description
-authority Name	<p>A preconfigured access authority group for the user ID. For more details about the access authority groups shipped with TeamConnection, refer to the <i>TeamConnection User's Guide</i>.</p> <p>The default is 750 (read, write and execute access for directory owner, read and execute access for others in the owner's group, and no access for all other users).</p>
-become Name	<p>The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i>. You assume the access authority of the user ID you specify.</p> <p>(Environment variable: TC_BECOME)</p>
-component Name	<p>The component associated with the object. Different components can manage different versions of the same object.</p> <p>(Environment variable: TC_COMPONENT.)</p>
-family Name	<p>The family for which this command is being issued.</p> <p>(Environment variable: TC_FAMILY)</p>
-login Name . . .	<p>One or more TeamConnection user IDs. Specify only one of -inherited or -login.</p>
-verbose	<p>TeamConnection displays a confirmation message after you issue the command.</p>

Examples

The following command gives **developer** access authority to TeamConnection user ID **barbara**, for the **graphix** component and all its descendants. This command creates an entry on the access list associated with the **graphix** component giving user ID **barbara** the authority to perform all actions included in the **developer** access authority group.

```
teamc access -create -login barbara -authority developer -component graphix
```

The following command gives **writer** access authority to TeamConnection user IDs **barbara** and **john** for the **graphix** component and all its descendants. This command creates two entries on the access list associated with the **graphix** component.

```
teamc access -create -login barbara john -authority writer -component graphix
```

access -delete

Deletes entries from a component list or deletes the restriction on authority for entries on a component access list.

The **access -delete** command has these associated attribute flags.

Attribute	Description
-authority Name	<p>A preconfigured access authority group for the user ID. For more details about the access authority groups shipped with TeamConnection, refer to the <i>TeamConnection User's Guide</i>.</p> <p>The default is 750 (read, write and execute access for directory owner, read and execute access for others in the owner's group, and no access for all other users).</p>
-become Name	<p>The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i>. You assume the access authority of the user ID you specify.</p> <p>(Environment variable: TC_BECOME)</p>
-component Name	<p>The component associated with the object. Different components can manage different versions of the same object.</p> <p>(Environment variable: TC_COMPONENT.)</p>
-family Name	<p>The family for which this command is being issued.</p> <p>(Environment variable: TC_FAMILY)</p>
-inherited	<p>All users in the TeamConnection family who inherit the specified authority group from all parents of the specified component. Specify only one of -inherited or -login.</p>
-login Name . . .	<p>One or more TeamConnection user IDs. Specify only one of -inherited or -login.</p>
-verbose	<p>TeamConnection displays a confirmation message after you issue the command.</p>

Examples

The following command removes **writer** access from user ID **barbara** for the **graphix** component. This command deletes the entry from the access list.

```
teamc access -delete -login barbara -authority writer -component graphix
```

The following command removes the restricted authority group **releaselead** for all users inheriting this access authority group from all parents of the **confidential** component. This command deletes the entry from the access list and permits users with the **releaselead** authority in parent components of the **confidential** component to perform all actions in the **releaselead** access authority group at the **confidential** component.

```
teamc access -delete -inherited -authority releaselead
-component confidential
```

access -restrict

Restricts authority (including inherited authority) for entries on a component access list.

Access

The **access -restrict** command has these associated attribute flags.

Attribute	Description
-authority Name	<p>A preconfigured access authority group for the user ID. For more details about the access authority groups shipped with TeamConnection, refer to the <i>TeamConnection User's Guide</i>.</p> <p>The default is 750 (read, write and execute access for directory owner, read and execute access for others in the owner's group, and no access for all other users).</p>
-become Name	<p>The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i>. You assume the access authority of the user ID you specify.</p> <p>(Environment variable: TC_BECOME)</p>
-component Name	<p>The component associated with the object. Different components can manage different versions of the same object.</p> <p>(Environment variable: TC_COMPONENT.)</p>
-family Name	<p>The family for which this command is being issued.</p> <p>(Environment variable: TC_FAMILY)</p>
-inherited	<p>All users in the TeamConnection family who inherit the specified authority group from all parents of the specified component. Specify only one of -inherited or -login.</p>
-login Name . . .	<p>One or more TeamConnection user IDs. Specify only one of -inherited or -login.</p>
-verbose	<p>TeamConnection displays a confirmation message after you issue the command.</p>

Examples

The following command restricts the actions in the access authority group **developer+** for the TeamConnection user ID **richard** in the **graphix** component. This command creates an entry on the access list associated with the **graphix** component restricting the user ID **richard** from performing all actions included in the **developer+** access authority group.

```
teamc access -restrict -login richard -authority developer+  
-component graphix
```

The following command restricts the actions in the access authority group **releaselead** for all users inheriting the **releaselead** access authority group from all parents of the **confidential** component. This command creates an entry on the access list associated with the **confidential** component restricting all users who inherited the **releaselead** access authority group from performing actions in the **releaselead** access authority group.

```
teamc access -restrict -inherited -authority releaselead -component  
confidential
```

Related information

See the following related commands:

Component
Report

Use the **report** command to obtain more information on existing authority groups:

- `teamc report -view authority`
- `teamc report -view authority -where "name ='developer' "`
- `teamc report -view authority -where "action ='PartCheckIn' "`

For a list of the access authority groups shipped with TeamConnection, refer to the *TeamConnection User's Guide*.

See your family administrator, or refer to the *Administrator's Guide*, for information about configuring new access authority groups and modifying existing ones.

Chapter 3. Approval

Command summary

Use the **approval** command to record approvers' opinions on approval records about proposed changes to parts in a release. You can use this command only for a work area in the approve state. The **approval** command provides greater control over changes made to releases as final deadlines approach.

Approval records are created automatically every time a work area is created for a release that has an approver list. You can also create additional approval records for a work area, with the **approval** command, without changing the approver list associated with the release. For information on changing the approver list, see "Chapter 4. Approver" on page 27. You can also use the **approval** command to delete work area approval records or to assign them to other users.

Owners of an approval record must indicate on it whether they accept or reject the changes proposed by the work area. An abstain option is available.

The state of the approval record controls whether the associated work area can move to the fix state. If the release process includes the approval process, then when all approval records are in the accept or abstain state, the work area moves automatically to the fix state. If an approval record is in the reject state, the work area cannot move to the fix state. Refer to the *TeamConnection User's Guide* for descriptions of the various processes and states.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with `—family testfam`.

The syntax statements for the `approval` command are:

```
teamc approval -abstain -release Name ... -family Name [-become Name]
               -workarea Name ... [-approver Name] [-verbose]
```

```
teamc approval -accept -release Name ... -family Name [-become Name]
               -workarea Name ... [-approver Name] [-verbose]
```

```
teamc approval -assign -to Name -release Name ... -family Name
               [-verbose] -workarea Name ... [-approver Name] [-become Name]
```

```
teamc approval -create -approver Name -release Name ... -family Name
               -workarea Name ... [-become Name] [-verbose]
```

```
teamc approval -delete -approver Name -release Name ... -family Name
               -workarea Name ... [-become Name] [-verbose]
```

```
teamc approval -reject -release Name ... -family Name [-become Name]
               -workarea Name ... [-approver Name] [-verbose]
```

Command actions

approval -abstain

Lets users refrain from accepting or rejecting the proposed part changes for the specified work area.

The **approval -abstain** command has these associated attribute flags.

Attribute	Description
-approver Name	The user ID of the approver.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

approval -accept

Approves the proposed part changes for the specified work area.

The **approval -accept** command has these associated attribute flags.

Attribute	Description
-approver Name	The user ID of the approver.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)

Attribute	Description
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

You own an approval record that is in the ready state. It refers to the changes proposed for a work area named **179** to monitor changes for feature **179** in the release specified in your TC_RELEASE environment variable. The following command indicates that you approve of the proposed changes for work area **179**. The approval record moves to the accept state. You do not have to specify the **-release** flag because the TC_RELEASE environment variable was set.

```
teamc approval -accept -workarea 179
```

approval -assign

Assigns an existing approval record to another user ID. The owner of that user ID becomes the owner of the approval record.

The **approval -assign** command has these associated attribute flags.

Attribute	Description
-approver Name	The user ID of the approver.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-to Name	The user ID to which you want to reassign the object. The user ID you specify becomes the owner of the object.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

You own two approval records, one for the work required to resolve defect **9122** in release **10graphix** and the other for the work required to resolve the same defect in

Approval

release **20graphix**. The name of the work area is **9122** in both releases. The following command assigns both of these approval records to **pam**, type:

```
teamc approval -assign -release 10graphix 20graphix -workarea 9122  
-to pam
```

approval -create

Creates an approval record for a work area. This action does not change the approver list.

For a user to perform this action, the associated release's process must include the approval subprocess.

The **approval -create** command has these associated attribute flags.

Attribute	Description
-approver Name	The user ID of the approver.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

Work area **147** in release **20graphix** is in the approve state. The following command creates an approval record so that **jack** must approve the proposed changes for that work area. An approval record is created and its owner is **jack**. When you specify a value for the **-release** flag, any existing value set for the TC_RELEASE environment variable is ignored. This action can be done only for releases that have an approver list, even though the action does not modify the list. For releases without approver lists, work areas are created with an initial state of fix; only when a work area is in the approve state can approval records be created or acted upon in such a release.

```
teamc approval -create -release 20graphix -workarea 147 -approver jack
```

approval -delete

Deletes an existing approval record for a specified user ID and work area.

The **approval -delete** command has these associated attribute flags.

Attribute	Description
-approver Name	The user ID of the approver.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

You have superuser privilege. The following command deletes the approval record owned by **maria** for a work area **2431B** addressing feature **2431** in release **10graphix**, type: The work area must still be in the approve state for a superuser to be able to delete the approval record.

```
teamc approval -delete -release 10graphix -workarea 2431B
-approver maria
```

approval -reject

Lets users refuse to accept the proposed changes for the specified work area and keep the work area in the approve state. This prevents the work area from moving to the fix state. Work areas that are not approved can be canceled.

The **approval -reject** command has these associated attribute flags.

Attribute	Description
-approver Name	The user ID of the approver.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)

Approval

Attribute	Description
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Related information

See the following related commands:

- Approver
- Release
- Report
- Workarea

Refer to the *TeamConnection User's Guide* for descriptions of the various processes and states.

Chapter 4. Approver

Command summary

Use the **approver** command to create entries on, and delete entries from, a release approver list. Each entry associates a user ID with a release, making the owner of the user ID an approver for any proposed changes to address defects or features in the specified release. The release approver list provides greater control over changes made to releases as final deadlines approach.

Every time a work area is created for a release to address a defect or a feature, approval records are created for each of the user IDs on the approver list associated with that release (providing that the release's process includes the approval subprocess). Each approval record refers to one defect or feature in one release and is owned by one approver. Approvers must use the **approval** command to accept or reject the proposed changes. Modifying an approver list does not change existing approval records.

Approval records that are accepted allow the work area to move to the fix state. If one or more approvers reject an approval record, the work area cannot move to the fix state.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with **`—family testfam`**.

The syntax statements for the **approver** command are:

```
teamc approver -create -login Name ... -release Name -family Name
[-become Name] [-verbose]

teamc approver -delete -login Name ... -release Name -family Name
[-become Name] [-verbose]
```

Command actions

approver -create

Adds user IDs to a release approver list.

The **approver -create** command has these associated attribute flags.

Attribute	Description
<code>-become Name</code>	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)

Approver

Attribute	Description
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-login Name . . .	One or more TeamConnection user IDs. Specify only one of -inherited or -login.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command makes the owners of user IDs **jack** and **smitty** approvers for any changes that may be proposed for the **10debugr** release. Two entries are added to the approver list for the **10debugr** release. Approval records are created for **jack** and **smitty** when new work areas are created in reference to the **10debugr** release.

```
teamc approver -create -login jack smitty -release 10debugr
```

The following command adds user IDs **maria**, **john**, and **kevin** to the approver list associated with the release you have specified in your TC_RELEASE environment variable, type: Three entries are made to the approver list for the release set in your environment variable, one for each of the user IDs you specified.

```
teamc approver -create -login maria john kevin
```

approver -delete

Deletes user IDs from a release approver list.

You cannot delete the last entry in an approver list if it is associated with a release whose process includes the approval subprocess.

The **approver -delete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-login Name . . .	One or more TeamConnection user IDs. Specify only one of -inherited or -login.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)

Attribute	Description
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command deletes the approver list entry identifying the owner of user ID **maria** as an approver for the **tools** release.

```
teamc approver -delete -login maria -release tools
```

Related information

See the following related commands:

- Approval
- Defect
- Feature
- Release
- Report
- Workarea

Refer to the *TeamConnection User's Guide* for descriptions of the various processes and states.

Chapter 5. Builder

Command summary

Use the **builder** command to create, view, modify, extract, or delete builders.

A builder is an object that can transform one set of TeamConnection parts into another by invoking tools such as compilers and linkers. For example, one builder might transform a COBOL source file into an object file. Another might transform a set of object files into an executable file. Builders use build scripts to invoke the tools that actually transform TeamConnection parts.

For more information about the **builder** command and build scripts, and for sample builder commands, refer to the *TeamConnection User's Guide*.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with **`—family testfam`**.

The syntax statements for the **builder** command are:

```
teamc builder -create Name
               -release Name
               -family Name
               -from ScriptFilespec**
               -script Name
               -environment Name
               -value RCValue
               -condition RCExpression
               [-text* | -binary | -none]
               [-parameters Parameters]
               [-timeout Number]
               [-become UserName] [-verbose]
```

```
teamc builder -modify Name
               -release Name
               -family Name
               {-from ScriptFilespec**
               -script Name
               -environment Name
               -value RCValue
               -condition RCExpression
               [-text | -binary | -none]
               -parameters Parameters
               -timeout Number}
               [-become UserName] [-verbose]
```

```
teamc builder -delete Name -release Name -family Name
               [-become UserName] [-verbose]
```

```
teamc builder -view Name -release Name -family Name
```

Builder

[**-become** UserName] [**-verbose**]

```
teamc builder -extract Name
               -release Name -family Name
               -to ScriptFilespec
               [-become UserName] [-verbose]
```

Notes:

- * text is the default
- ** from is required for file type of text or binary
and is prohibited for file type none

Command actions

builder -create Name

The **builder -create Name** command creates a new builder.

When you create a builder, you must specify a build script. The build script actually invokes the transformation tool and passes it parameters defined in the **-parameter** attribute of the **builder** command.

Together with the contents of the build script and the tools you use (the compilers, linkers, and so on), a builder's attributes define how a transformation takes place.

- If the build script is simple enough to be expressed in one line, you can specify it in the **-script** attribute when you create the builder, and specify a file type of **-none**. At minimum, the script must specify the name of the transformation tool. For example, to invoke the VisualAge C++ compiler, you might specify these attributes:

```
-none -script icc
```

- If the build script is more complex, you must first create a separate file containing it. Refer to the *TeamConnection User's Guide* for more information about how to write a build script. Specify the fully qualified path name of your file as the source file, and specify the file type as **-text** or **-binary**. If you omit the **-text** or **-binary** attribute, TeamConnection can detect the file type and create the build script in the proper format.

When the builder is created, this source file is stored as part of the builder in the TeamConnection database; during a build, the build processor creates and runs a local version of this file. Specify the name you want for this local file using the **-script** attribute flag. For example, you might specify these attributes:

```
-text -script c_compile.cmd -source c:\src\c_compile.cmd
```

When this builder is created, the contents of c:\src\c_compile.cmd are stored in the builder. When this builder is invoked, TeamConnection creates a file named c_compile.cmd, writes the build script into this file, and then runs it.

The **builder -create** command has these associated attribute flags.

Attribute	Description
-become UserName	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-binary	Specifies that the object is a binary file. Specify only one of -binary, -none, or -text. If you specify none of these attributes, -text is the default.
-condition RCExpression	Together with the -value flag, makes up a Boolean expression that defines the criteria used to decide whether a specific build event was successfully accomplished, when evaluated against the value returned by the build script. The values allowed for this flag are as follows: <ul style="list-style-type: none"> • EQ or == - Equals • LT or < - Less than • LE or <= - Less than or equals • GT or > - Greater than • GE or >= - Greater than or equals • NE or != - Not equal to
-environment environment	Specifies the target environment this builder builds for. Note, the environment string should match the one specified on the build agent that you want to handle the build events performed by this builder.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-from ScriptFilespec	Specifies the location of the file contents.
-none	Specifies that the build script is not stored in the TeamConnection product. Specify only one of -binary, -none, or -text. If you specify none of these attributes, -text is the default.
-parameters	Specifies the parameters passed to the build script. For more information about parameters and build scripts, refer to the <i>TeamConnection User's Guide</i> . In UNIX environments, you need to include an escape character before the \$: <code>\\$(variable_name)</code> . The following is an example: <code>\\$(TC_INPUT)</code> .
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-script name	Specifies the name of the build script. It can also identify the translator when the -none flag is specified. To specify no build script, use -script " " or -script NULL and set the file type to none.

Builder

Attribute	Description
-text	Specifies that the object is a text file. If you specify neither -binary, -none, nor -text, -text is the default.
-timeout minutes	Specifies the amount of time that the build processor waits for a build script to complete before assuming a failure has occurred. The default is 1440 minutes (24 hours).
-value RCValue	Together with the -condition flag, makes up a Boolean expression that defines the criteria used to decide whether a specific build event was successfully accomplished, when evaluated against the value returned by the build script. The -value can be any positive integer. An example of a Boolean expression formed from these two attributes is <i>return_value LE 4</i> , meaning that the build event is considered a success if the build script returns a value less than or equal to four.
-verbose	TeamConnection displays a confirmation message after you issue the command.

builder -delete Name

Deletes the specified builder from the database.

The **builder -delete** command has these associated attribute flags.

Attribute	Description
-become UserName	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

builder -extract Name

Extracts the build script of an existing builder so that you can modify it. If the environment variable TC_BACKUP is set to either off or OFF this command will not create a backup file.

The **builder -extract** command has these associated attribute flags.

Attribute	Description
-become UserName	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-to filespec	Specifies the location (file name) to extract the contents to.
-verbose	TeamConnection displays a confirmation message after you issue the command.

builder -modify Name

Modifies an existing builder.

The **builder -modify** command has these associated attribute flags.

Attribute	Description
-become UserName	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-binary	Specifies that the object is a binary file. Specify only one of -binary, -none, or -text. If you specify none of these attributes, -text is the default.
-condition RCEXpression	Together with the -value flag, makes up a Boolean expression that defines the criteria used to decide whether a specific build event was successfully accomplished, when evaluated against the value returned by the build script. The values allowed for this flag are as follows: <ul style="list-style-type: none"> • EQ or == - Equals • LT or < - Less than • LE or <= - Less than or equals • GT or > - Greater than • GE or >= - Greater than or equals • NE or != - Not equal to
-environment environment	Specifies the target environment this builder builds for. Note, the environment string should match the one specified on the build agent that you want to handle the build events performed by this builder.

Builder

Attribute	Description
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-from ScriptFilespec	Specifies the location of the file contents.
-none	Specifies that the build script is not stored in the TeamConnection product. Specify only one of -binary, -none, or -text. If you specify none of these attributes, -text is the default.
-parameters	Specifies the parameters passed to the build script. For more information about parameters and build scripts, refer to the <i>TeamConnection User's Guide</i> . In UNIX environments, you need to include an escape character before the \$: <code>\\$(variable_name)</code> . The following is an example: <code>\\$(TC_INPUT)</code> .
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-script name	Specifies the name of the build script. It can also identify the translator when the -none flag is specified. To specify no build script, use -script " " or -script NULL and set the file type to none.
-text	Specifies that the object is a text file. If you specify neither -binary, -none, nor -text, -text is the default.
-timeout minutes	Specifies the amount of time that the build processor waits for a build script to complete before assuming a failure has occurred. The default is 1440 minutes (24 hours).
-value RCValue	Together with the -condition flag, makes up a Boolean expression that defines the criteria used to decide whether a specific build event was successfully accomplished, when evaluated against the value returned by the build script. The -value can be any positive integer. An example of a Boolean expression formed from these two attributes is <i>return_value LE 4</i> , meaning that the build event is considered a success if the build script returns a value less than or equal to four.
-verbose	TeamConnection displays a confirmation message after you issue the command.

builder -view Name

Gets the settings for an existing builder.

The **builder -view** command has these associated attribute flags.

Attribute	Description
-become UserName	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Related information

See the following related commands:

- Part
- Release

Builder

Chapter 6. Collision

Command summary

Use the **collision** command to determine what should be done with a version of a part that is not integrated when another user has already integrated a new version of the same part in a concurrent release.

The TeamConnection product enables you to work with parts in a release in concurrent development mode. This means that multiple users can work on the same part at the same time. This is in contrast to serial mode, in which only one user can work on a part at a time.

Concurrent development mode is turned on when a release is created. In concurrent mode, from your work area, you can modify and build parts without the parts being visible to other users of the release. You make the parts visible to other users of the release when you integrate your work area. Use the **release -modify** command to change the mode of the release.

If any other users in the release have integrated the same parts that you are working on and you try to integrate the parts in your work area, or you add a driverMember to a driver, the integration or add driver may fail due to those same parts having a conflict. When you refresh your workarea the TeamConnection product generates collision records from the failure. The collision records identify the parts that are in conflict. You must compare the two files and determine how the collisions should be reconciled. The TeamConnection product provides a tool, called Automerge, that enables you to selectively merge two files into one. However, the Automerge tool is only valid for merging parts with the type of TcPart.

For example, assume that you have modified a part **x.c** in your work area **wa2** and in release **rel3v2**. Another user, Jon, who is also working in this concurrent release, has also modified part **x.c**. Jon integrates his work area and part **x.c**. You attempt to integrate your work area **wa2**, but you receive a message that you need to refresh your work area because the TeamConnection product has detected a collision. When you refresh your work area, the TeamConnection product generates a collision record for part **x.c**.

The **collision -reject** command rejects the newly integrated version (found in rel3v2:3) and says that the version in work area **wa2** should supersede the version in release **rel3v2**. You and Jon decide that your work area should supersede his. To integrate your work area **wa2** to the release, and to supersede Jon's version, type:

```
teamc collision -reject -path x.c -altversion rel3v2:3 -workarea wa2  
-release rel3v2 -verbose
```

Now you can try to integrate your part again.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with `—family testfam`.

The syntax statements for the **collision** command are:

Collision

```
teamc collision -accept -path Name -altversion Name -release Name  
-workarea Name ... -family Name [-top Name] [-type Name]  
[-become Name] [-verbose]
```

```
teamc collision -reconcile -path Name -altversion Name -release Name  
-workArea Name ... -family Name [-top Name] [-type Name]  
[-become Name] [-verbose]
```

```
teamc collision -reject -path Name -altversion Name -release Name  
-workArea Name ... -family Name [-top Name] [-type Name]  
[-become Name] [-verbose]
```

Notes:

-type will default to TcPart if not specified.

Command actions

collision -accept

The integrated part stays in the release, while the uncommitted part never gets in.

The **collision -accept** command has these associated attribute flags.

Attribute	Description
-altversion Name	An ID of the view of the system containing the conflicting version of the part.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-path Name	The path name of the part. Part names, consisting of the base name and the path name, must be unique within a release.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)
-type Name	The type of the parts. The default is TcPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Attribute	Description
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

In these examples, assume that you have refreshed work area **w1** from the release **R1**. You have collision records for part **x1.c**, part **x2.c**, and part **x3.c**. Also assume that the altversion for the collisions is **R1:3**.

The following command replaces your version of part **x1.c** with the committed version of the part, type:

```
teamc collision -accept -path x1.c -altversion R1:3 -workarea w1
-release R1 -verbose
```

collision -reconcile

The latest part that is not integrated takes precedence over the committed part, only if a new version of the part has been checked in since the TeamConnection product detected the collision.

When you reconcile parts using the TeamConnection command line, you must go through the following steps:

- 1. Check out the part in the area that has the collision.
- 2. Extract the part specified at the alternate version with another name.
- 3. Run the merge program against the two parts.
- 4. Check in the resultant file.
- 5. Mark the collision record as reconciled.

However, on the graphical user interface (GUI), the reconcile command automatically does the preceding steps for you.

The **collision -reconcile** command has these associated attribute flags.

Attribute	Description
-altversion Name	An ID of the view of the system containing the conflicting version of the part.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-path Name	The path name of the part. Part names, consisting of the base name and the path name, must be unique within a release.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)

Collision

Attribute	Description
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)
-type Name	The type of the parts. The default is TCPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

In these examples, assume that you have refreshed work area **w1** from the release **R1**. You have collision records for part **x1.c**, part **x2.c**, and part **x3.c**. Also assume that the altversion for the collisions is **R1:3**.

To merge your current version of part **x3.c** in work area **w1** with the committed version of **x3.c**, follow these steps:

1. Check out part **x3.c** from work area **w1**, using the following command:

```
teamc part -checkout x3.c -workarea w1 -release R1 -verbose
```
2. Extract the committed version of part **x3.c** as part **x3.tmp**, using the following command:

```
teamc part -extract x3.c -version R1:3 -release R1 -fmask 777 -verbose  
rename x3.c x3.tmp
```
3. Merge part **x3.tmp** with part **x3.c**, using the TeamConnection Merge tool. (You can use another merge tool if you choose.) To merge the parts, type:

```
tcmerge x3.tmp x3.c
```
4. Check part **x3.c** into work area **w1**.
5. Mark the collision as reconciled, using the following command:

```
teamc collision -reconcile -path x3.c -altversion R1:3 -workarea w1  
-release R1 -verbose
```

This example assumes that you store the merged file as **x3.c**.

collision -reject

The part that is not integrated takes precedence over the integrated part.

The integrated version of the part will be overwritten by the version that is not integrated when the work area or driver is integrated into the release.

The **collision -reject** command has these associated attribute flags.

Attribute	Description
-altversion Name	An ID of the view of the system containing the conflicting version of the part.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-path Name	The path name of the part. Part names, consisting of the base name and the path name, must be unique within a release.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)
-type Name	The type of the parts. The default is TcPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

In these examples, assume that you have refreshed work area **w1** from the release **R1**. You have collision records for part **x1.c**, part **x2.c**, and part **x3.c**. Also assume that the altversion for the collisions is **R1:3**.

The following command keeps your current version of part **x2.c** in work area **w1**, type:

```
teamc collision -reject -path x2.c -altversion R1:3 -workarea w1
-release R1 -verbose
```

Related Information

See the following related commands:

- Part
- Release
- Workarea

Collision

Chapter 7. Component

Command summary

Use the **component** command to create and maintain a component structure for project control and management. The component structure or hierarchy consists of a top-level component called root. Every component below root is linked to one or more parent components and zero or more *child components*. Use **-link** and **-unlink** to redefine an existing component structure.

You can create, delete, and re-create components, modify their properties, or view information about them.

When you create a component, you become its owner and have implicit authority to define the access list and the notification list for that component. Although you have implicit authority to define the access list, you cannot add to that list until you have some level of authority defined on the access list. Therefore, when you first become the owner of a component, someone with enough authority must give you authority to create access for additional users. When you become the owner of a component, you might want to ask the component creator to give you access authority so that you can add other users to the access list. The access and notification list entries for a component apply to all descendant components via inheritance, unless access has been specifically restricted. As component owner, you also have implicit authority to manage that component and other objects relating to it.

When creating a component, you must specify a process for the component using the **-process** flag. A process groups different combinations of TeamConnection subprocesses. TeamConnection subprocesses determine the states that apply to the defects and features associated with a component. For component processes, the design, size, review (DSR) and verify subprocesses can be specified for defects, features, or both. Processes are configured by your family administrator, who can modify current processes or define new ones. For a list of the valid component processes and the TeamConnection subprocesses they include, use the **report -view cfgcomproc** command. You can change the process for an existing component using the **-modify** flag. For more information on how TeamConnection subprocesses relate to the states of TeamConnection objects, refer to the *TeamConnection User's Guide*.

You can delete a component only if there are no parts, child components, releases, active features, active defects, or active sizing records associated with it. The component's access and notification lists are deleted when it is deleted, and the component is detached from its parents. You cannot reuse the name of a deleted component to create another component; however, you can re-create a deleted component.

When you re-create a deleted component, you have to create new access and notification lists for it. The original access and notification lists are not re-created; however, the re-created component does inherit the access and notification information from all of the components above it in the hierarchy.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with **`-family testfam`**.

The syntax statements for the **component** command are:

```
teamc component -create Name ... -parent Name
               -process Name -family Name [-owner Name]
               [-description Text] [-become Name] [-verbose]
```

```
teamc component -delete Name ... -family Name
               [-become Name] [-verbose]
```

```
teamc component -link Name ... -parent Name
               -family Name [-become Name] [-verbose]
```

```
teamc component -modify Name ... -family Name
               { -process Name -owner Name -name Name
               -description Text } [-become Name] [-verbose]
```

```
teamc component -recreate Name ... -parent Name
               -family Name [-become Name] [-verbose]
```

```
teamc component -unlink Name ... -parent Name
               -family Name [-become Name] [-verbose]
```

```
teamc component -view Name ... -family Name
               [-processInfo | -long] [-become Name] [-verbose]
```

Command actions

component -create Name . . .

Creates components with the specified names. Component names must be unique within a family.

The **component -create** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-description Text	Specifies a description of the object.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-owner Name	Specifies the user ID of the owner of the object.

Attribute	Description
-parent Name	Specifies the parent of the object.
-process Name	Specifies a process setting and current subprocesses for the component. Your family administrator configures processes. For a list of the valid component processes and the TeamConnection subprocesses they include, use the report -view cfgcomproc command.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command creates a new child component called **docs** for the existing **graphix** component, and assigns the IBM shipped process **preship** to it. The **docs** component inherits the access and notification defined at the **graphix** component and at all components above it in the hierarchy provided access has not been restricted.

Note: The access and notification lists for the **docs** component do not show the inherited access and notification information. Additional access and notification can be defined by creating access and notification lists for the **docs** component.

```
teamc component -create docs -parent graphix -description "Technical Info"
-process preship
```

component -delete Name . . .

Deletes the specified components. You cannot delete the root component..

The **component -delete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command deletes a component called **archive01**. The component called **archive01** is deleted only if it has no child components, releases, associated parts, active defects, active features, or no active sizing records referencing it.

```
teamc component -delete archive01
```

Component

component -link Name . . .

Attaches components to an existing component. The components you list with this flag become child components of the component you specify with the **-parent** attribute flag.

The **component -link** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-parent Name	Specifies the parent of the object.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command links two existing components, **docs** and **etc**, so that **etc** is the parent component to the **docs** component. The component **docs** becomes a child component of the component **etc**. The **docs** component inherits access and notification information from the **etc** component. It does not lose existing access and notification information from its own access and notification lists.

```
teamc component -link docs -parent etc
```

component -modify Name . . .

Modifies properties of the specified components.

The **component -modify** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-description Text	Specifies a description of the object. Specify either -description or one of -name, -owner, or -process.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-name Name	Specifies a name for the object. Specify either -description or one of -name, -owner, or -process.

Attribute	Description
-owner Name	Specifies the user ID of the owner of the object. Specify either -description or one of -name, -owner, or -process.
-process Name	Specifies a process setting and current subprocesses for the component. Your family administrator configures processes. For a list of the valid component processes and the TeamConnection subprocesses they include, use the report -view cfgcomproc command. Specify either -description or one of -name, -owner, or -process.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command gives **pam** ownership of the **graphix** component.

```
teamc component -modify graphix -owner pam
```

The following command changes the name, description, and process of the existing component called **graphix**, type: The component **graphix** is renamed to **graphix00**. The description indicates that this component refers to version **00 graphix** files. The process for the component is changed to **prototype**.

```
teamc component -modify graphix -name graphix00 -description
"Version 00 of graphix files" -process prototype
```

component -recreate Name . . .

Re-creates components as child components of the parent component. Use the **-parent** flag to specify the parent.

The **component -recreate** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-parent Name	Specifies the parent of the object.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command re-creates the deleted **tools** component so that it exists as a child component of the **graphix00** component. It inherits the access and notification information from the **graphix00** component.

```
teamc component -recreate tools -parent graphix00
```

Component

component -unlink Name . . .

Detaches components from a parent component. The components being unlinked must still be linked to at least one parent component.

The **component -unlink** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-parent Name	Specifies the parent of the object.
-verbose	TeamConnection displays a confirmation message after you issue the command.

component -view Name . . .

Shows all current information for the specified components.

The **component -view** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-long	Displays detailed information for the specified objects. Specify only one of -long or -processInfo.
-processInfo	Displays the current process setting and associated TeamConnection subprocesses for the specified components when used with the -view action flag. Specify only one of -long or -processInfo.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command displays information about an existing component called **debugr**, type:

```
teamc component -view debugr
```

Related information

See the following related commands:

- Access
- Notify
- Part
- Report

Use the **report** command to obtain more information on existing components:

- `teamc report -view CompView`
- `teamc report -view CompView -where "name ='myComponent' "`

For a list of the valid component processes and the TeamConnection subprocesses they include, use the **report -view cfgcomproc** command.

See your family administrator, or refer to the *Administrator's Guide*, for information about creating new components and modifying existing ones.

Chapter 8. Coreq

Command summary

Use the **coreq** command to create and delete corequisite relationships between two or more work areas that are in the fix or integrate state. The work areas you identify as corequisites must all apply to the same release to be built together. Work areas defined as prerequisites by the TeamConnection product must also be built and committed together. For a discussion of *prerequisite work areas*, refer to the *TeamConnection User's Guide*.

Identify corequisite relationships between work areas to indicate that work being done in one or more work areas is dependent on changes to parts associated with changes in another work area. These work areas must therefore be built together (committed together) so that the resulting code works correctly. This action ensures that a driver that includes one or more groups of *corequisite work areas* cannot be committed unless all the work areas in the corequisite group are included in the driver.

After you identify two or more work areas as corequisites, you can add additional work areas to that corequisite group without identifying all of the work areas already in the group. You have to specify only one work area from the existing group and the new work area or work areas you want to add to the group. If you specify one work area from each of two or more groups of corequisites, the associated groups are merged into one corequisite group.

When you delete one work area from a corequisite group containing only two work areas, no corequisite group remains. You must have at least two work areas to create a corequisite group of work areas.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with **—family testfam**.

The syntax statements for the **coreq** command are:

```
teamc coreq -create -workarea Name ... -release Name  
-family Name [-become Name] [-verbose]
```

```
teamc coreq -delete -workarea Name ... -release Name  
-family Name [-become Name] [-verbose]
```

Command actions

coreq -create

Creates a corequisite relationship between the specified work areas.

Coreq

The **coreq -create** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

Work areas, with the same names as the features and defects, exist for feature **318**, defect **A329**, and defect **B312** in reference to the **graphix11** release. The following command establishes these three work areas as corequisites.

```
teamc coreq -create -workarea 318 A329 B312 -release graphix11
```

The following command adds work area **322** to the group of corequisite work areas created in the previous example. By naming one of the work areas from the existing corequisite group along with a new work area, you identify the new work area as a corequisite of each of the work areas in the existing group.

```
teamc coreq -create -workarea A329 322 -release graphix11
```

coreq -delete

Deletes the specified work areas from an existing group of corequisite work areas.

The **coreq -delete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)

Attribute	Description
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

The following command deletes the work area **318** in the release defined by the TC_RELEASE environment variable from its corequisite group.

```
teamc coreq -delete -workarea 318
```

Related information

See the following related commands:

- Prereq
- Report
- Workarea

For more information about corequisite and prerequisite relationships, refer to the *TeamConnection User's Guide*.

Chapter 9. Defect

Command summary

Use the **defect** command to report problems by opening defects. Also use this command to modify properties of defects, change the state of defects, and view information about defects.

When you open a defect, you become the originator of the reported defect. You must describe the problem you think needs to be resolved and the primary component affected by the problem. By default the component owner is the owner of the defect if it is not assigned. That person must respond to the defect by accepting it, returning it, or assigning it to a different component or user ID. If the design, size, and review (dsrDefect) subprocess is included in the managing component's process, then the defect owner must respond to it by designing it, returning it, or assigning it to a different component or user ID.

As the originator of the defect, you can cancel or reopen it if it is returned by the defect owner, and you can modify selected properties of a defect.

Originators of duplicate defects are also notified when the corresponding active defect or feature is closed or canceled. They can either cancel or reopen the duplicate defect, as appropriate.

The states a defect moves through depends on the TeamConnection subprocesses included in its associated component process. A component process can include the dsrDefect or verifyDefect subprocesses, or none at all. For more information on the defect states and their relationship to TeamConnection subprocesses, refer to the *TeamConnection User's Guide*.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with `—family testfam`.

The syntax statements for the **defect** command are:

```
teamc defect -accept Name ... -family Name
          [-answer Name]* [-remarks Text] [-become Name] [-verbose]
```

```
teamc defect -assign Name ... -family Name
          { -component Name -owner Name }
          [-remarks Text] [-become Name] [-verbose]
```

```
teamc defect -cancel Name ... -family Name [-remarks Text]
          [-become Name] [-verbose]
```

```
teamc defect -configInfo -family Name [-become Name] [-raw]
```

```
teamc defect -design Name ... -family Name [-remarks Text]
          [-become Name] [-verbose]
```

Defect

```
teamc defect -modify Name ... -family Name
{ -severity Name -answer Name
  -environment Name -reference Name -priority Name -symptom Name
  -release Name -originator Name -target Name -driver Name
  -abstract Text -phaseFound Name -phaseInject Name
  -prefix Name -name Name} [-remarks Text] [-become Name]
[-verbose] [-notesDB] [-notesID]

teamc defect -note Name ... -remarks Text -family Name [-become Name]
[-verbose]

teamc defect -open -remarks Text -component Name -family Name
[-name Name] [-prefix Name]* [-environment Name]
[-severity Name]* [-reference Name] [-symptom Name]*
[-phaseFound Name]* [-driver Name] [-abstract Text] [-release Name]
[-raw] [-become Name] [-verbose]
[-notesDB] [-notesID]

teamc defect -reopen Name ... -family Name [-remarks Text]
[-become Name] [-verbose]

teamc defect -return Name ... -family Name
[-answer Name | -duplicate Name]*
[-remarks Text] [-become Name] [-verbose]

teamc defect -review Name ... -family Name [-remarks Text]
[-become Name] [-verbose]

teamc defect -size Name ... -family Name [-remarks Text]
[-become Name] [-verbose]

teamc defect -verify Name ... -family Name [-remarks Text]
[-become Name] [-verbose]

teamc defect -view Name ... -family Name [-processInfo | -long]
[-become Name] [-verbose]
```

Notes:

* required when no default value is set for the TeamConnection family

Command actions

defect -accept Name . . .

Accepts defects, in the open or review state, depending on the subprocess configuration of the component so that problems can be resolved. You can specify fields to be user-configurable using the **-configField** attribute overriding field defaults.

Because your family administrator can modify or delete certain configurable fields and create new fields, the attributes for this action might be different from those in your family or might not appear at all. Those listed here represent the shipped default fields only. For a list of the field properties and flags in use in your family,

use the **-configInfo** command or see your family administrator. For more information on configurable fields, refer to the *Administrator's Guide*.

The **defect -accept** command has these associated attribute flags.

Attribute	Description
-answer Name	Specifies an answer code when accepting, modifying, or returning a defect or feature. If no default has been set for this attribute, then you must include it with the command. This attribute is configurable.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume that you own a component against which someone opened defect **4312**. The following command accepts defect **4312** and associates it with the answer code your family administrator has configured to represent an enhancement (**enh**). Defect **4312** moves to the working state with an answer code for enhancement. Defect answer codes are defined by the family administrator.

```
teamc defect -accept 4312 -answer enh
```

defect -assign Name . . .

Reassigns defects to another owner or another component. The owner of the user ID or component becomes the new defect owner.

Defect

The **defect -assign** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-component Name	The component associated with the object. Different components can manage different versions of the same object. (Environment variable: TC_COMPONENT.)
-component Name	The component associated with the object. Different components can manage different versions of the same object. Either -component or -owner is required.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-owner Name	Specifies the user ID of the owner of the object. Either -component or -owner is required.
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command assigns defect **4312** to the **graphix** component. The owner of the **graphix** component becomes the owner of defect **4312**.

```
teamc defect -assign 4312 -component graphix
```

defect -cancel Name . . .

Cancels defects that are in the open or returned state.

The **defect -cancel** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume that you are the originator of defect **4298** and this defect is currently in the returned state. The following command cancels this defect. As the originator, you could have also canceled this defect if it was in the open state.

```
teamc defect -cancel 4298 -remarks "This was a user error."
```

defect -configInfo

The defect -configInfo action shows configurable field properties for defects in the specified family. The information is returned in a fixed ASCII table format.

The **defect -configInfo** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-raw	Displays configurable field information in raw format.

Defect

Examples

- The following command displays the configurable fields defined for the defects in family **rdev**.

```
teamc defect -configInfo -family rdev
```

The following is an example of the output provided for this command.

Attribute Name	DB Column Name	Create/Required	Type	Own/Orig Modify	Accept/Required	Driver
symptom	symptom	yes/yes	symptom	yes/yes	yes/no	
phaseFound	phaseFound	yes/yes	phase	yes/yes	yes/no	
phaseInject	phaseInject	no/no	phase	yes/yes	yes/no	
priority	priority	no/no	priority	no/no	yes/no	
target	target	no/no		yes/no	yes/no	

- The following command displays the configurable fields defined for users in family **rdev** in raw format.

```
teamc defect -configInfo -family rdev -raw
```

The following is an example of the output provided for this command.

```
Prefix:|Prefix|prefix|prefix|yes|yes|defectPrefix|yes|yes|yes|no|0|
Severity:|Severity|severity|severity|yes|yes|severity|no|yes|yes|no|0|
Symptom|symptom|symptom|yes|yes|symptom|yes|yes|yes|no|0|
Phase found||phaseFound|phaseFound|yes|yes|phase|yes|yes|yes|no|0|
Phase injected||phaseInject|phaseInject|no|no|phase|yes|yes|yes|no|0|
Priority|Priority|priority|priority|no|no|priority|no|no|yes|no|0|
Target|Target|target|target|no|no|yes|no|yes|no|0|
```

defect -design Name . . .

Moves defects to the design state or specifies design text. Defects can move to the design state from the open, returned, size, or review state.

The **defect -design** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.

Attribute	Description
-verbose	TeamConnection displays a confirmation message after you issue the command.

defect -modify Name . . .

The defect -modify Name . . . action modifies the following defect properties. At least one of these attributes is required with the defect -modify Name . . . action.

- abstract
- answer
- driver
- environment
- name
- originator
- phaseFound*
- phaseInject*
- prefix
- priority*
- reference
- release
- severity
- symptom*
- target*

You cannot modify existing remarks in a defect.

*Because your family administrator can modify or delete certain configurable fields and create new fields, the attributes for the **-modify** action might be different from those in your family or might not appear at all. Those listed here represent the shipped default fields only. For a list of the field properties and flags in use in your family, use the **teamc defect -configInfo** command or see your family administrator. For more information on configurable fields, refer to the *Administrator's Guide*.

The **defect -modify** command has these associated attribute flags.

Attribute	Description
-abstract Text	Lets users enter concise text to summarize a defect or feature. Up to 63 characters are allowed. This text appears in reports and notification messages. If this flag is not specified when you are opening a defect or feature, the first 63 characters or the text up to the first new-line character of the -remarks flag serves as the abstract.
-answer Name	Specifies an answer code when accepting, modifying, or returning a defect or feature. If no default has been set for this attribute, then you must include it with the command. This attribute is configurable.

Defect

Attribute	Description
-become Name	<p>The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i>. You assume the access authority of the user ID you specify.</p> <p>(Environment variable: TC_BECOME)</p>
-driver Name	<p>Specifies the driver for which the command is issued.</p> <ul style="list-style-type: none">• For defects this is the driver in which the defect was discovered.• For driver members and work areas this is the driver in which the member is created or modified.
-environment environment	<p>Specifies the environment where a defect was discovered, for example, the OS/2 environment.</p>
-family Name	<p>The family for which this command is being issued.</p> <p>(Environment variable: TC_FAMILY)</p>
-name Name	<p>Specifies the defect or feature identifier. Up to 15 alphanumeric characters are allowed for user-generated IDs. The TeamConnection product checks the uniqueness of the ID. If the ID already exists in the TeamConnection product, the action fails and you receive a message indicating that the identifier is not unique. You must then enter a new identifier or let the TeamConnection product generate one.</p>
-notesDB	<p>Used by the Lotus Notes integration and should not be used by end users.</p>
-notesID	<p>Used by the Lotus Notes integration and should not be used by end users.</p>
-originator Name	<p>Specifies the user ID of the new originator when you modify a defect or feature. The previous originator's verification record is automatically reassigned to the new originator.</p>
-phaseFound Name	<p>When opening or modifying a defect, specifies the development phase in progress when the defect was discovered. If no default has been set for this attribute, then you must include it with the command. This attribute is configurable.</p>
-phaseInject Name	<p>When modifying a defect, specifies the development phase in progress when the defect was injected in the code. This attribute is configurable.</p>
-prefix Name	<p>Identifies a prefix that categorizes the defect or feature by type. This value precedes the identifier in report output. If no default has been set for this attribute, then you must include it with the command. This attribute is configurable.</p>
-priority Name	<p>When modifying a defect, specifies the timing or scheduling requirements for resolving a defect. This attribute is configurable.</p>

Attribute	Description
-reference Name	Assigns a value, name, or keyword to a defect or feature.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.
-severity Name	Specifies the severity of the problem that the defect was opened to resolve. When creating a defect, if no default has been set for this attribute, you must include it with the command. This attribute is configurable.
-symptom Name	Specifies the symptom associated with the defect. If no default has been set for this attribute, then you must include it with the command. This attribute is configurable.
-target Name	Specifies a target (such as, a driver or a date) for defect resolution or availability.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command changes the severity rating for defect **4312** and to change the existing value in the reference field, type: The severity of the defect **4312** is changed to **3**, and the reference is changed to **BADMSG**.

```
teamc defect -modify 4312 -sev 3 -reference BADMSG
```

defect -note Name . . .

Adds remarks to defects. These notes cannot be modified or deleted once they are in the system.

The **defect -note** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)

Defect

Attribute	Description
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.
-verbose	TeamConnection displays a confirmation message after you issue the command.

defect -open

Opens a defect. A unique identifier is generated by the TeamConnection product to identify the new defect, unless you specify an identifier using the optional **-name** flag.

Because your family administrator can modify or delete certain configurable fields and create new fields, the attributes for this action might be different from those in your family or might not appear at all. Those listed here represent the shipped default fields only. For a list of the field properties and flags in use in your family, use the **-configInfo** command or see your family administrator. For more information on configurable fields, refer to the *Administrator's Guide*.

The **defect -open** command has these associated attribute flags.

Attribute	Description
-abstract Text	Lets users enter concise text to summarize a defect or feature. Up to 63 characters are allowed. This text appears in reports and notification messages. If this flag is not specified when you are opening a defect or feature, the first 63 characters or the text up to the first new-line character of the -remarks flag serves as the abstract.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-component Name	The component associated with the object. Different components can manage different versions of the same object. (Environment variable: TC_COMPONENT.)

Attribute	Description
-driver Name	Specifies the driver for which the command is issued. <ul style="list-style-type: none"> For defects this is the driver in which the defect was discovered. For driver members and work areas this is the driver in which the member is created or modified.
-environment environment	Specifies the environment where a defect was discovered, for example, the OS/2 environment.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-name Name	Specifies the defect or feature identifier. Up to 15 alphanumeric characters are allowed for user-generated IDs. The TeamConnection product checks the uniqueness of the ID. If the ID already exists in the TeamConnection product, the action fails and you receive a message indicating that the identifier is not unique. You must then enter a new identifier or let the TeamConnection product generate one.
-notesDB	Used by the Lotus Notes integration and should not be used by end users.
-notesID	Used by the Lotus Notes integration and should not be used by end users.
-phaseFound Name	When opening or modifying a defect, specifies the development phase in progress when the defect was discovered. If no default has been set for this attribute, then you must include it with the command. This attribute is configurable.
-prefix Name	Identifies a prefix that categorizes the defect or feature by type. This value precedes the identifier in report output. If no default has been set for this attribute, then you must include it with the command. This attribute is configurable.
-raw	Displays configurable field information in raw format.
-reference Name	Assigns a value, name, or keyword to a defect or feature.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)

Defect

Attribute	Description
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.
-severity Name	Specifies the severity of the problem that the defect was opened to resolve. When creating a defect, if no default has been set for this attribute, you must include it with the command. This attribute is configurable.
-symptom Name	Specifies the symptom associated with the defect. If no default has been set for this attribute, then you must include it with the command. This attribute is configurable.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume default values are set for phaseFound, symptom, and prefix. The following command opens a defect with a severity rating of **3** against the **debugr** component, using the text from an existing file to describe the defect, type: The negative symbol (-) after the **-remarks** flag indicates the location of the redirected input. The redirection symbol (<) indicates that the file `\tmp\defect.descr` contains the remarks, that is, the description of the problem. The first 63 characters are used as the abstract.

The defect identifier is displayed on the screen when the command is completed successfully.

The person issuing the command is the originator of this defect, and the component owner is the owner of the defect.

```
teamc defect -open -component debugr -sev 3  
-remarks - < \tmp\defect.descr
```

defect -reopen Name . . .

Reopens defects that are in the returned or the canceled state.

The **defect -reopen** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)

Attribute	Description
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume that you are the originator of defect **1424**. It is returned to you by the defect owner. The following command reopens defect **1424**. Defect **1424** moves to the open state.

```
teamc defect -reopen 1424
-remarks "Disagree with restriction classification."
```

defect -return Name . . .

Returns defects that are in the open, design, size, review, or working states. A working defect can be returned only if it does not have work areas associated with it.

The **defect -return** command has these associated attribute flags.

Attribute	Description
-answer Name	Specifies an answer code when accepting, modifying, or returning a defect. Specify either -answer or -duplicate. If no default has been set, then one of these attributes is required. This attribute is configurable.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-duplicate Name	Specifies that another defect (that is not canceled, returned, or closed) already exists to address the defect being returned. Specify either -answer or -duplicate. If no default has been set, then one of these attributes is required.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)

Defect

Attribute	Description
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume that you are a defect owner. The following command returns a defect someone opened against your component because it is a duplicate of a defect that is currently in the working state. Defect **4245** is associated with defect **4197** as a duplicate. Defect **4245** is moved to the returned state, and its answer code becomes **duplicate**. A verification record is created for the originator of defect **4245** and it exists in reference to defect **4197**. Originators of all duplicate defects and features must complete verification records when the active defect is in the verify state.

```
teamc defect -return 4245 -duplicate 4197
```

defect -review Name . . .

Moves defects from the size state to the review state so that the proposed design implementation and sizing information can be reviewed.

The **defect -review** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)

Attribute	Description
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.
-verbose	TeamConnection displays a confirmation message after you issue the command.

defect -size Name . . .

Moves defects from the design state to the size state for sizing. Design text must first be entered using **defect -design -remarks**.

The **defect -size** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.
-verbose	TeamConnection displays a confirmation message after you issue the command.

defect -verify Name . . .

Moves defects from the working state to the verify state. If the verify subprocess is not on, this moves the defect to the closed state.

Defect

The **defect -verify** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.
-verbose	TeamConnection displays a confirmation message after you issue the command.

defect -view Name . . .

Shows all current information for the specified defects.

The **defect -view** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-long	Displays detailed information for the specified objects. Specify only one of -long or -processInfo.
-processInfo	Displays the current process setting and associated TeamConnection subprocesses for the specified components when used with the -view action flag. Specify only one of -long or -processInfo.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command displays information about defect **4244**, including its history, notes, work areas, verification records, process name, and associated subprocess settings.

```
teamc defect -view 4244 -long
```

Related information

See the following related commands:

Feature
Fix
Report
Size
Verify
Workarea

Use the **report** command to get more information on existing configuration table values:

- **teamc report -view config**
- **teamc report -view config -where "name = 'symptom' "**

To see the defect state diagrams, refer to the *TeamConnection User's Guide*.

Chapter 10. Driver

Command summary

Use the **driver** command to:

- Create and delete drivers
- Commit the part changes related to drivers
- Extract the part tree represented by drivers
- Obtain information about existing drivers
- Merge parts of the driver with parts of another driver

A driver is a set of part changes for a release. To create a driver, you assign a name to it and relate it to a release. You then define a set of work areas as *driver members*. For information on how to define work areas as driver members, see “Chapter 11. DriverMember” on page 89. These work areas contain the parts that you want in a driver. If you create a driver, you become the driver owner by default; however, you can reassign ownership of the driver to another user.

A driver can be extracted to the client at any time after work areas are added as driver members. A *delta part tree*, which contains only the parts that have been changed for the driver, is extracted by default. You can also extract a *full part tree* that contains all of the parts for the driver after the driver has been committed.

If a driver is committed, you can extract a full part tree that includes all the parts in the associated release at the version that was current when the driver was committed. You can also process and distribute a committed driver for testing. After a driver has been committed, however, you can change only its type; you cannot otherwise modify the driver or the part changes associated with that driver.

Combining the delta part tree for a current driver with a full part tree for the last committed driver results in a complete directory structure of all parts in a release. This directory structure incorporates the new part changes. The process of making part changes, extracting a delta part tree and a full part tree, combining the two into a new directory structure, and compiling the directory structure can be repeated as needed.

Parts of a driver can be merged with parts of another driver in the same or another release, as well as, merging individual parts at a driver level. The driver -merge Name command will merge all parts of the specified driver with parts of another driver in the same or another release. Optionally, upon successful execution, the workarea where action is performed can be integrated and even added to the driver.

To make permanent all part changes associated with the driver, you move the driver to the commit state. Before you can do this:

- All driver members must be in the integrate or commit state.
- All prerequisite and corequisite work areas must be included in the driver, unless the **-ignore** attribute is specified. The requisites will still be checked if the **-ignore** attribute flag is specified, however, the driver can still be committed if there are missing requisites.
- You must have explicit access authority or be a superuser.

Driver

If you have explicit access authority, you can indicate when a driver is ready for formal testing by specifying that the driver is complete. This action changes the state of the associated work areas to the test state if an environment list exists for the release associated with the work areas. Otherwise, the work areas move to the complete state.

If an environment list exists for the release associated with the work areas, the automatic transition to the test state can be disabled by including the **-workareacommithold** attribute in the release process. If **workareacommithold** is part of the release process, a **workarea -test** command must be issued to move the workarea into the test state.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with `-family testfam`.

The syntax statements for the **driver** command are:

```
teamc driver -assign Name ... -to Name -release Name
               -family Name [-become Name] [-verbose]

teamc driver -check Name ... [-long] -release Name [-noduplicates]
               -family Name [-driver Name] [-become Name] [-verbose]

teamc driver -commit Name ... -release Name
               -family Name [-force] [-ignore] [-become Name]
               [-verbose]

teamc driver -complete Name ... -release Name -family Name
               [-become Name] [-verbose]

teamc driver -create Name ... -release Name -family Name
               [-type Name]* [-become Name] [-verbose]

teamc driver -delete Name ... -release Name -family Name
               [-become Name] [-verbose]

teamc driver -export Name ... -release Name -family Name
               [-become Name] [-file Name] [-verbose]

teamc driver -extract Name ... -release Name -root Name
               -family Name [-full] [-nokeys] [-fmask Octal_number]
               [-dmask Octal_number] [-crlf]
               [-become Name] [-verbose]

teamc driver -freeze Name ... -release Name -family Name
               [-become Name] [-verbose]

teamc driver -merge Name -workarea Name -release Name
               -family Name -fromdriver Name [-fromrelease Name]
               [-genlist | [-integrate] [ -addtodriver]]
               [-become Name] [-verbose]
```



```
teamc driver -modify Name ... -release Name -family Name
{ -name Name -type Name } [-become Name] [-verbose]
```

```
teamc driver -refresh Name ... -release Name -family Name
[-become Name] [-verbose]
```

```
teamc driver -restrict Name ... -release Name -family Name
[-become Name] [-verbose]
```

```
teamc driver -view Name ... [-long] -release Name -family Name
[-become Name] [-verbose]
```

Notes: * required when no default value is set for the
TeamConnection family

Command actions

driver -assign Name . . .

Assigns ownership of drivers to another user ID.

The **driver -assign** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-to Name	The user ID to which you want to reassign the object. The user ID you specify becomes the owner of the object.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume that you own driver **b1992** and that your TC_RELEASE environment variable is set to the release associated with that driver. The following command assigns the driver to user ID **sara**. The person with the TeamConnection user ID **sara** becomes the new owner of the driver **b1992** for the release defined by the TC_RELEASE environment variable. If the environment variable were set differently, you would have had to use the **-release** attribute flag to specify the appropriate release for the driver.

```
teamc driver -assign b1992 -to sara
```

Driver

driver -check Name . . .

Lists the outstanding prerequisite and corequisite work areas for the specified drivers.

The **driver -check** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-driver Name	When used with the -check action, this flag identifies a base committed driver against which requisites are determined. Requisites are determined as if the base driver were the last committed driver. Workareas that have been committed after the base driver will be listed as requisites.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-long	Displays detailed information for the specified objects.
-noduplicates	When this flag is used, a requisite workarea will only be listed once. The first reason encountered for its being a requisite will be returned.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume driver **9032** is in the integrate state. The following command checks whether any outstanding prerequisites or corequisites exist in driver **9032** for release **21debugr**. Any existing unsatisfied prerequisite and corequisite work areas required for driver **9032** for the **21debugr** release are listed.

```
teamc driver -check 9032 -release 21debugr
```

driver -commit Name . . .

The **driver -commit Name . . .** action moves the specified drivers to the commit state. After a driver is committed only its type can be modified. All part changes associated with driver members become permanent.

Before you can commit a driver to which you have added work areas in fix state, you must integrate the work areas and then add them to the driver again.

To perform this action, the associated release's process must include the driver subprocess.

The **driver -commit** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-force	Continues with the operation even if build outputs are out-of-date.
-ignore	Allows a driver to be committed even if there are missing requisites.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

driver -complete Name . . .

Moves the specified drivers to the complete state where they are ready to be tested. All driver members change to the test or complete state.

The **driver -complete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

driver -create Name . . .

Creates drivers with the specified names. The user who creates a driver is the driver owner by default.

Driver

To perform this action, the associated release's process must include the driver subprocess.

The **driver -create** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-type Name	Specifies the type of driver when creating a driver. If no default has been set for this attribute, then you must include it with the command. You can use the report command to find out what the types of drivers are. This attribute is configurable.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume that driver type has a default value. The following command creates a driver called **9032** for the **21debugr** release. The person who issues this command is the driver owner and it is in the working state. Use the **DriverMember** command to add work areas to the driver.

```
teamc driver -create 9032 -release 21debugr
```

driver -delete Name . . .

Deletes the specified drivers before they are committed. This command also deletes all driver members associated with the driver.

The **driver -delete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)

Attribute	Description
-verbose	TeamConnection displays a confirmation message after you issue the command.

driver -export Name . . .

The `driver -export Name . . .` command exports the parts in the driver (or drivers) specified by the *Name* argument to the file name specified in the `-file` attribute.

This function is useful for exporting information from one family into another. You can export the information from one family into a CDF file and then import the CDF file into another family.

Note: You cannot use the import and export functions to migrate information from CMVC to TeamConnection or from one release of TeamConnection to another. Refer to the *Administrator's Guide* for information on the TeamConnection migration tool.

The **driver -export** command has these associated attribute flags.

Attribute	Description
-file filename	Specifies the name of the file to which the part or parts are to be exported. The information is exported to the file in CDF format.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

driver -extract Name . . .

Creates a part tree by extracting the parts defined by the member work areas of specified drivers. The default is to extract only changed parts.

When extracting multiple drivers, you must specify the driver names in the chronological order in which they were committed or created.

The **driver -extract** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)

Driver

Attribute

-crlf

Description

Provides transparent file conversion between UNIX- and Intel-based operating systems. This attribute enables parts shared between UNIX and Intel platforms to have the proper format for the platform to which they are extracted. When parts are extracted to an Intel platform, the -crlf attribute will add carriage-returns, expand tabs, and add end-of-file characters (if the parts do not already have EOF characters). When parts are extracted to a UNIX platform, the -crlf attribute will remove carriage-returns, replace spaces with tabs, and remove end-of-file characters.

If you omit this attribute, no file format conversion is performed.

-dmask Octal_number

Specifies the read, write, and execute directory permissions for extracted parts in octal notation.

The default is 750 (read, write and execute access for directory owner, read and execute access for others in the owner's group, and no access for all other users).



While the OS/2 client accepts **-dmask**, it has no effect.

-family Name

The family for which this command is being issued.

(Environment variable: TC_FAMILY)

-fmask Octal_number

Specifies the read, write, and execute file permissions for extracted parts in octal notation. The default is the file's mode less the write permission for the part owner, others in the owner's group and all others.

-full

Includes all of the parts in a release in the extracted part tree. Use to extract a full part tree.

-nokeys

Indicates that you do not want to substitute assigned values in place of keywords embedded in the extracted parts.

-release Name

The release for which this command is being issued.

(Environment variable: TC_RELEASE)

-root Name

Specifies a directory on the client where the extracted part tree is to be placed.

Note: You can mount a directory from another machine to the client machine, so that the client machine will treat that directory as a local directory.

-verbose

TeamConnection displays a confirmation message after you issue the command.

Examples

Assume that you want to extract all of the parts for the committed driver **9032** to a specific directory and host. Also assume that the directory **ltmp** has been exported

on a host with write permission given to the TeamConnection client and that the directory is mounted on the client using NFS, Netware, IBM LAN Server, or another LAN product. The following command places the full part tree in the **\tmp** directory. A full part tree produces a snapshot of all the parts in a release at the time the driver was committed.

```
teamc driver -extract 9032 -release 21debugr -full -root \tmp
```

driver -freeze Name . . .

Saves the state of a driver.

The **driver -freeze** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

driver -merge Name

Merges parts of the specified driver with parts of another driver in the same release or another release.

Note: It is recommended to run **driver -merge** with the **-genlist** option first. This checks all parts involved without performing an actual merge. A list of parts which may cause a failure of the merge to complete will be generated. After any reported potential problems have been resolved should the complete **driver -merge** command be invoked.

For binary parts, an error is written and the part is not changed. If a part exists in the source driver but has been deleted in the target driver or if a part exists in the target driver but has been deleted in the source driver, no action is taken for that part and a warning is written to the user.

The specified work area must be in the fix state. The merged part is checked into the work area using the **-force** flag to force a break between common parts.

Each part of the specified driver will be locked in the specified workarea. If the part has been locked in another workarea and the release is in serial development mode, it will be unlocked in that workarea, and then linked to the specified workarea before being locked.

Driver

The parts involved are extracted to the client machine and placed in directories generated by TeamConnection. Then automerge is invoked to merge the parts. If the merge is successful, the resulting merged part will be checked in. If the merge fails, the part will be unlocked and a warning is written to the user. In either case, the extracted parts are removed from the TeamConnection generated directories.

The **driver -merge** command has these associated attribute flags.

Attribute	Description
-addtodriver	If all parts of the driver are merged and checked in successfully and the workarea is integrated successfully, the workarea will be created as a member of the specified driver.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-fromdriver Name	The name of driver of which the source parts reside.
-fromrelease Name	Specifies the release from which content is to be merged.
-genlist	Generates lists of parts (deleted, renamed, linked, locked etc.) which need to be resolved before the merge action is taken, no actual merge will be done.
-integrate	If all parts of the driver are merged and checked in successfully, the workarea will be integrated.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name	The work area name. (Environment variable: TC_WORKAREA)

driver -modify Name . . .

Changes the name or type of the specified drivers. Type is configured by family. Use the **report** command to find out the driver types for your family.

After a driver has been committed, only its type can be changed.

The **driver -modify** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-name Name	Specifies a name for the object. Either -name or -type is required.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-type Name	Specifies the type of driver when creating or modifying a driver. If no default has been set for this attribute and the -name attribute is not specified, then you must include it with the command. You can use the report command to find out what the types of drivers are. Either -name or -type is required. This attribute is configurable.
-verbose	TeamConnection displays a confirmation message after you issue the command.

driver -refresh Name . . .

Refreshes a driver from the release. This is sometimes necessary where the driver was created earlier and now needs to pick up changes committed to the release.

The **driver -refresh** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Driver

driver -restrict Name . . .

The `driver -restrict Name . . .` command moves a driver from the integrate state to the restrict state. When a driver is in restrict state, users must have `MemberCreateR` or `MemberDeleteR` access to the driver to add or delete members from the driver. You can, however, check, commit, extract, freeze, refresh, or view drivers in restrict state.

The **driver -restrict** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The `driver -restrict Name . . .` command is especially useful if your installation performs highly automated builds. You can issue the `driver -restrict Name . . .` command prior to building to prevent any changes to the content of the driver. If the build succeeds, the driver is committed; if it fails, the build administrator (provided he or she has `MemberCreateR` or `MemberDeleteR` access to the driver) can remove the work areas that caused the build to fail. The following command moves driver **b1992** release **debugr** from the integrate state to the restrict state.

```
teamc driver -restrict b1992 -release debugr -verbose
```

driver -view Name . . .

Shows all current information for the specified drivers.

The **driver -view** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)

Attribute	Description
-long	Includes in the reported requisites those workareas that ARE in the driver. Without -long only requisite workareas NOT in the driver are reported.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command displays information about driver **b1992** for release **debugr**, including all of its driver members.

```
teamc driver -view b1992 -release debugr -long
```

Related information

See the following related commands:

- Defect
- DriverMember
- Feature
- Part
- Report
- Workarea

For a list of supported keywords, refer to the *TeamConnection User's Guide*.



Parts that are deleted or renamed in the current driver must be deleted from an extracted part tree. TeamConnection creates a part named **.gone** that specifies the full path name of each part deleted or renamed that has not already been committed. This part is extracted with the files in a delta tree extraction. Extracting the delta part tree of an uncommitted driver extracts all parts listed in the **.gone** part.

After merging a delta tree with a *base part tree*, or when extracting uncommitted drivers, run the following command from the top of the extracted part tree to remove deleted and renamed parts from the tree:

```
xargs rm < .gone
```

In this command, **.gone** is a part created as part of the extraction that contains the names of all of the deleted and renamed parts.

When you extract a committed driver, any parts that were contained in that driver when it was committed are accessed.

Chapter 11. DriverMember

Command summary

Use the **driverMember** command to specify the work areas you want to include in a given driver. Driver members are used only if the release has the driver process turned on. The work areas can be in the integrate, fix, or committed state. A single work area can be a member of more than one driver. After a work area is committed in a driver, the other drivers in which it is a member ignore the committed work area.

By making a work area part of a driver, you associate the parts changed in relation to that work area with the specified driver. These parts must be members of the release associated with the driver. The work areas must also be members of the release associated with the driver.

You cannot create driver members for, or delete driver members from, a driver after it is committed.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with **—family testfam**.

The syntax statements for the **driverMember** command are:

```
teamc driverMember -create -driver Name -release Name -family Name
                        -workarea Name ... [-force] [-become Name] [-verbose]
teamc driverMember -delete -driver Name -release Name -family Name
                        -workarea Name ... [-version Name ...]
                        [-become Name] [-verbose]
```

Command actions

driverMember -create

Creates work areas as members of a specific driver. If the work area is in integrate state, the latest version of the work area is added to the driver. If the driver is in the restrict state, then you must have MemberCreateR access to the driver to issue this command. Superusers and driver owners have implicit MemberCreateR authority.

You can add a work area in fix state to a driver. When a work area in fix state is added to a driver, the latest frozen version of the work area is added. If there is no frozen version of the work area, TeamConnection returns an error. If you update the work area after freezing it and adding it to a driver, you can issue another `driverMember -create` command to refresh the driver with the updated work area. If a driver has multiple driver members for the same work area, you can use the `-version` attribute to identify a specific version of the work area in the driver. Before you can commit a driver to which you have added work areas in fix state, you must integrate the work areas and then add them to the driver again.

DriverMember

Note: If you have recently migrated from CMVC to TeamConnection, please be aware of differences between adding work areas in fix state to drivers and adding tracks in fix state to levels. In CMVC, when a track in fix state is added to a level, all current and future changes to the track are considered part of the level. In TeamConnection, when you add a work area in fix state to a driver, only the current frozen version of the work area is considered part of the driver. To include any further changes to the work area, you need to freeze the work area again and issue another driverMember -create command to add the further changes to the work area.

If adding a driver member to a driver would result in collision records, the driverMember -create action will fail. The collision records need to be resolved before adding the workarea as a driver member.

To perform a driverMember -create action, the associated release's process must include the driver subprocess.

The **driverMember -create** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-driver Name	Specifies the driver for which the command is issued. <ul style="list-style-type: none">For defects this is the driver in which the defect was discovered.For driver members and work areas this is the driver in which the member is created or modified.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-force	Continues with the operation even if build outputs are out-of-date.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

Assume that driver **9012** already exists and that you own it. The following command creates driver members using the work areas **8761** and **8690** in release **21graphix**. All parts changed in reference to the work areas **8761** and **8690** in the release **21graphix** are included in driver **9012**. Driver **9012** must be associated with release **21graphix**.

```
teamc driverMember -create -workarea 8761 8690 -release 21graphix
-driver 9012
```

driverMember -delete

The driverMember -delete action deletes work areas as members of a specific driver.

If the driver is in the restrict state, then you must have MemberDeleteR access to the driver to issue this command. Superusers and driver owners have implicit MemberDeleteR authority.

If you added a work area to a driver when the work area was in fix state, then to delete it you must use the -version attribute to specify the work area to be deleted rather than the -workarea attribute.

The **driverMember -delete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-driver Name	Specifies the driver for which the command is issued. <ul style="list-style-type: none"> For defects this is the driver in which the defect was discovered. For driver members and work areas this is the driver in which the member is created or modified.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-version Name	Specifies the version of the object. Specify either -version or -workarea or both.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

Assume that you own driver **9010**. The following command deletes driver members, specifically work areas **8744** and **8759** in the release defined in the TC_RELEASE environment variable. Driver **9010** must be associated with the release defined in the TC_RELEASE environment variable.

```
teamc driverMember -delete -workarea 8744 8759 -driver 9010
```

Related information

See the following related commands:

- Driver
- Part
- Report
- Workarea

Chapter 12. Environment

Command summary

Use the **environment** command to create and modify entries on, and delete entries from a release environment list. Each environment list entry consists of an environment name and the user ID of a designated tester for that environment. You can specify the environments in which a resolved defect or an implemented feature must be tested. One user can be responsible for testing more than one environment, so a user ID can have more than one entry on the environment list.

Test records are created according to the environment list of the release for each work area that is created for that release. See the **test** command for information on entering environment test results. If an environment list does not exist for a release, then the testing process using test records is bypassed for all work areas associated with that release.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with **—family testfam**.

The syntax statements for the **environment** command are:

```
teamc environment -create Name ... -tester Name -release Name  
-family Name [-become Name] [-verbose]
```

```
teamc environment -delete Name ... -release Name -family Name  
[-become Name] [-verbose]
```

```
teamc environment -modify Name ... -tester Name -release Name  
-family Name [-become Name] [-verbose]
```

Command actions

environment -create Name . . .

Creates one or more environment list entries for a release by specifying an environment and a user who is responsible for testing in that environment.

The **environment -create** command has these associated attribute flags.

Attribute	Description
<code>-become Name</code>	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)

Environment

Attribute	Description
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-tester Name	The user responsible for testing in a given environment.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume you own the **debugr** release. Work being done in reference to that release needs to be tested in the **PCVersion1** environment as well as in the **PCVersion2** environment. The following command specifies **jon** as the tester on the environment list associated with the **debugr** release.

```
teamc environment -create PCVersion1 PCVersion2 -tester jon -release debugr
```

Two new environment list entries are created for the **debugr** release: one for the **PCVersion1** environment and one for the **PCVersion2** environment. The owner of the user ID **jon** is responsible for testing both environments. Therefore, **jon** owns 2 test records for every work area that is created for the **debugr** release.

environment -delete Name . . .

Deletes one or more environment list entries for a release.

The **environment -delete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command deletes all entries for environment **ModelA** from the environment list associated with the release set in the TC_RELEASE environment variable.

```
teamc environment -delete ModelA
```

environment -modify Name . . .

Modifies one or more environment list entries for a release.

The **environment -modify** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-tester Name	The user responsible for testing in a given environment.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command assigns a new tester for **PCVersion2** in the **graphix** release. The owner of the user ID **lisa** replaces the previous person responsible for testing the **PCVersion2** environment for the **graphix** release.

```
teamc environment -modify PCVersion2 -tester lisa -release graphix
```

Related information

See the following related commands:

- Release
- Report
- Test
- Workarea

Environment

Chapter 13. Feature

Command summary

Use the **feature** command to open requests for design changes or ideas for future functions. Also use this command to delete, modify properties of, change the state of, and view information about features.

The states a feature moves through depend on the TeamConnection subprocesses included in its associated component process. A component process can include the feature design, size, and review (dsrFeature) or verifyFeature subprocesses, or none at all. For more information on the feature states and their associated subprocesses, refer to the *TeamConnection User's Guide*.

When you open a feature, you become the originator of the feature. You must describe the proposed design change and name the primary component affected by the feature. The owner of the component you assign the feature to becomes the feature owner. If the dsrFeature subprocess is included in the component's process, the feature owner responds to the feature by moving it to the design state, returning it, or assigning it to a different component or user ID. If the dsrFeature subprocess is not included in the component's process, the feature owner either accepts the feature, returns it, or assigns it to a different component or user ID.

As the originator of the feature, you can cancel or reopen it if it is returned by the feature owner. You can also modify selected properties of a feature. Originators of duplicate features are notified when the corresponding active defect or feature is closed or canceled. Thus, they can either cancel or reopen the duplicate feature, as appropriate.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with `—family testfam`.

The syntax statements for the **feature** command are:

```
teamc feature -accept Name ... -family Name [-answer Name]*  
               [-remarks Text] [-become Name] [-verbose]  
  
teamc feature -assign Name ... -family Name [-remarks Text]  
               [-verbose] { -component Name -owner Name } [-become Name]  
  
teamc feature -cancel Name ... -family Name [-remarks Text]  
               [-become Name] [-verbose]  
  
teamc feature -configInfo -family Name [-become Name] [-raw]  
  
teamc feature -design Name ... -family Name [-remarks Text]  
               [-become Name] [-verbose]  
  
teamc feature -modify Name ... -family Name { -prefix Name  
               -target Name -reference Name -originator Name -abstract Text
```

Feature

```
-priority Name -name Name -answer Name -release Name }  
[-remarks Text] [-become Name] [-verbose]  
[-notesDB] [-notesID]
```

```
teamc feature -note Name ... -remarks Text -family Name  
[-become Name] [-verbose]
```

```
teamc feature -open -remarks Text -component Name -family Name  
[-name Name] [-verbose] [-prefix Name]* [-reference Name]  
[-abstract Text] [-release Name] [-raw] [-become Name]  
[-notesDB] [-notesID]
```

```
teamc feature -reopen Name ... -family Name [-remarks Text]  
[-become Name] [-verbose]
```

```
teamc feature -return Name ... -family Name  
[-answer Name | -duplicate Name]*  
[-remarks Text] [-become Name] [-verbose]
```

```
teamc feature -review Name ... -family Name [-remarks Text]  
[-become Name] [-verbose]
```

```
teamc feature -size Name ... -family Name [-remarks Text]  
[-become Name] [-verbose]
```

```
teamc feature -verify Name ... -family Name [-remarks Text]  
[-become Name] [-verbose]
```

```
teamc feature -view Name ... -family Name [-processInfo | -long]  
[-become Name] [-verbose]
```

Notes:

* required when no default value is set for the TeamConnection family

Command actions

feature -accept Name . . .

Accepts features, in the open or review state, depending on the subprocess configuration of the component so that problems can be resolved. You can specify fields to be user-configurable using the **-configField** attribute overriding field defaults.

Because your family administrator can modify or delete certain configurable fields and create new fields, the attributes for this action might be different from those in your family or might not appear at all. Those listed here represent the shipped default fields only. For a list of the field properties and flags in use in your family, use the **-configInfo** command or see your family administrator. For more information on configurable fields, refer to the *Administrator's Guide*.

The **feature -accept** command has these associated attribute flags.

Attribute	Description
-answer Name	Specifies an answer code when accepting, modifying, or returning a defect or feature. If no default has been set for this attribute, then you must include it with the command. This attribute is configurable.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-configField Name	Specify a field to be user-configurable, overriding the field default. NULL is a valid value.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume that you own feature **4312** and that it is currently in the review state. After you have reviewed the feature information, you decide to accept the feature for implementation. The following command accepts the feature and moves it to the working state. Work areas and fix records are created according to the sizing records for this feature.

```
teamc feature -accept 4312
```

feature -assign Name . . .

Assigns features to another owner or another component.

The **feature -assign** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)

Feature

Attribute	Description
-component Name	The component associated with the object. Different components can manage different versions of the same object. (Environment variable: TC_COMPONENT.)
-component Name	The component associated with the object. Different components can manage different versions of the same object. Either -component or -owner is required.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-owner Name	Specifies the user ID of the owner of the object. Either -component or -owner is required.
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume that you are the owner of feature **4312**. The following command assigns feature 4312 to the **graphix** component; the owner of **graphix** becomes the new owner of this feature.

```
teamc feature -assign 4312 -component graphix
```

feature -cancel Name . . .

Cancels features that are in the open or the returned state.

The **feature -cancel** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)

Attribute

-remarks Text

Description

Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the **-modify** action to change the remarks).

Note: To move a defect or feature to the size state, you must have entered some design text using the **-remarks** flag with the **-design** action.

-verbose

TeamConnection displays a confirmation message after you issue the command.

Examples

Assume that you are the originator of feature **4298** and that it is currently in the returned state. The following command cancels this feature.

```
teamc feature -cancel 4298
```

feature -configInfo

The feature **-configInfo** action shows configurable field properties for features in the specified family.

The **feature -configInfo** command has these associated attribute flags.

Attribute

-become Name

Description

The user ID you want to issue TeamConnection commands from, if the user ID differs from your *login*. You assume the access authority of the user ID you specify.

(Environment variable: TC_BECOME)

-family Name

The family for which this command is being issued.

(Environment variable: TC_FAMILY)

-raw

Displays configurable field information in raw format.

Examples

- The following command displays the configurable fields defined for the features in family **rdev**.

```
teamc feature -configInfo -family rdev
```

The following is an example of the output provided for this command.

Attribute Name	DB Column Name	Create/ Required	Type	Own/Orig Modify	Accept/ Required	Driver
-----	-----	-----	-----	-----	-----	-----
symptom	symptom	yes/yes	symptom	yes/yes	yes/no	
phaseFound	phaseFound	yes/yes	phase	yes/yes	yes/no	
phaseInject	phaseInject	no/no	phase	yes/yes	yes/no	
priority	priority	no/no	priority	no/no	yes/no	
target	target	no/no		yes/no	yes/no	

Feature

- The following command displays the configurable fields defined for users in family **rdev** in raw format.

```
teamc feature -configInfo -family rdev -raw
```

The following is an example of the output provided for this command.

```
Prefix:|Prefix|prefix|prefix|yes|yes|defectPrefix|yes|yes|yes|no|0|
Severity:|Severity|severity|severity|yes|yes|severity|no|yes|yes|no|0|
Symptom|symptom|symptom|yes|yes|symptom|yes|yes|yes|no|0|
Phase found|phaseFound|phaseFound|yes|yes|phase|yes|yes|yes|no|0|
Phase injected|phaseInject|phaseInject|no|no|phase|yes|yes|yes|no|0|
Priority|Priority|priority|priority|no|no|priority|no|no|yes|no|0|
Target|Target|target|target|no|no|yes|no|yes|no|0|
```

feature -design Name . . .

Moves features to the design state or specifies design text. Features can move to the design state from the open, returned, design, size, or review state.

The **feature -design** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume that you are a component owner and that feature **4312** was opened against your component. The following command moves the feature to the design state. You can issue the **teamc feature -design** command with the **-remarks** flag when you are ready to enter actual design information. You can issue the **teamc feature -design** command more than once.

```
teamc feature -design 4312
```

feature -modify Name . . .

The feature -modify Name . . . action modifies selected properties of features. At least one of these attributes is required with the feature -modify Name . . . action.

- abstract
- name
- originator
- prefix
- priority*
- reference
- target*

You cannot modify existing remarks in a feature.

*Because your family administrator can modify or delete certain configurable fields and create new fields, the attributes for the **-modify** action might differ from those in your family or might not appear at all. Those listed here represent the shipped default fields only. For a list of the field properties and flags in use in your family, use the **teamc feature -configInfo** command or see your family administrator. For more information on configurable fields, refer to the *Administrator's Guide*.

The **feature -modify** command has these associated attribute flags.

Attribute	Description
-abstract Text	Lets users enter concise text to summarize a defect or feature. Up to 63 characters are allowed. This text appears in reports and notification messages. If this flag is not specified when you are opening a defect or feature, the first 63 characters or the text up to the first new-line character of the -remarks flag serves as the abstract.
-answer Name	Specifies an answer code when accepting, modifying, or returning a defect or feature. If no default has been set for this attribute, then you must include it with the command. This attribute is configurable.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-name Name	Specifies the defect or feature identifier. Up to 15 alphanumeric characters are allowed for user-generated IDs. The TeamConnection product checks the uniqueness of the ID. If the ID already exists in the TeamConnection product, the action fails and you receive a message indicating that the identifier is not unique. You must then enter a new identifier or let the TeamConnection product generate one.

Feature

Attribute	Description
-notesDB	Used by the Lotus Notes integration and should not be used by end users.
-notesID	Used by the Lotus Notes integration and should not be used by end users.
-originator Name	Specifies the user ID of the new originator when you modify a defect or feature. The previous originator's verification record is automatically reassigned to the new originator.
-prefix Name	Identifies a prefix that categorizes the defect or feature by type. This value precedes the identifier in report output. If no default has been set for this attribute, then you must include it with the command. This attribute is configurable.
-priority Name	When modifying a defect, specifies the timing or scheduling requirements for resolving a defect. This attribute is configurable.
-reference Name	Assigns a value, name, or keyword to a defect or feature.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.
-target Name	Specifies a target (such as, a driver or a date) for defect resolution or availability.
-verbose	TeamConnection displays a confirmation message after you issue the command.

feature -note Name . . .

Adds remarks to features. These notes cannot be modified or deleted after they are in the system.

The **feature -note** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.
-verbose	TeamConnection displays a confirmation message after you issue the command.

feature -open

Opens a feature. A unique identifier is generated by the TeamConnection product to identify the new feature unless you specify an identifier using the optional **-name** flag.

Because your family administrator can modify or delete certain configurable fields and create new fields, the attributes for this action might be different from those in your family or might not appear at all. Those listed here represent the shipped default fields only. For a list of the field properties and flags in use in your family, use the **-configInfo** command or see your family administrator. For more information on configurable fields, refer to the *Administrator's Guide*.

The **feature -open** command has these associated attribute flags.

Attribute	Description
-abstract Text	Lets users enter concise text to summarize a defect or feature. Up to 63 characters are allowed. This text appears in reports and notification messages. If this flag is not specified when you are opening a defect or feature, the first 63 characters or the text up to the first new-line character of the -remarks flag serves as the abstract.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)

Feature

Attribute	Description
-component Name	<p>The component associated with the object. Different components can manage different versions of the same object.</p> <p>(Environment variable: TC_COMPONENT.)</p>
-family Name	<p>The family for which this command is being issued.</p> <p>(Environment variable: TC_FAMILY)</p>
-name Name	<p>Specifies the defect or feature identifier. Up to 15 alphanumeric characters are allowed for user-generated IDs. The TeamConnection product checks the uniqueness of the ID. If the ID already exists in the TeamConnection product, the action fails and you receive a message indicating that the identifier is not unique. You must then enter a new identifier or let the TeamConnection product generate one.</p>
-notesDB	<p>Used by the Lotus Notes integration and should not be used by end users.</p>
-notesID	<p>Used by the Lotus Notes integration and should not be used by end users.</p>
-prefix Name	<p>Identifies a prefix that categorizes the defect or feature by type. This value precedes the identifier in report output. If no default has been set for this attribute, then you must include it with the command. This attribute is configurable.</p>
-raw	<p>Displays configurable field information in raw format.</p>
-reference Name	<p>Assigns a value, name, or keyword to a defect or feature.</p>
-release Name	<p>The release for which this command is being issued.</p> <p>(Environment variable: TC_RELEASE)</p>
-remarks Text	<p>Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks).</p> <p>Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.</p>
-verbose	<p>TeamConnection displays a confirmation message after you issue the command.</p>

Examples

The following command opens a feature against the **debugr** component, assuming a default prefix value is set. This command creates a feature change request

against the **debugr** component. The feature identifier appears on the screen when the command is completed. The person issuing this command is the originator of the feature. The owner of component **debugr** is the owner of the feature.

```
teamc feature -open -remarks "Change format of parameter values display"
-component debugr
```

feature -reopen Name . . .

Reopens features that are in the returned or canceled state.

The **feature -reopen** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume that you are the originator of feature **4245** and that it is currently in the canceled state. The following command reopens the feature against the component that owned it when the feature was canceled.

```
teamc feature -reopen 4245 -remarks "Disagree with restriction
classification"
```

feature -return Name . . .

Returns features from any state except the verify, closed, or canceled states. A feature in the working state can be returned only if it does not have work areas associated with it.

Feature

The **feature -return** command has these associated attribute flags.

Attribute	Description
-answer Name	Specifies an answer code when accepting, modifying, or returning a defect or feature. If no default has been set for this attribute, then you must include it with the command. This attribute is configurable.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-duplicate Name	Specifies that another feature (that is not canceled, returned, or closed) already exists to address the feature being returned.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.
-verbose	TeamConnection displays a confirmation message after you issue the command.

feature -review Name . . .

Moves features from the size state to the review state so that the proposed design implementation and sizing information can be reviewed.

The **feature -review** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)

Attribute

-remarks Text

Description

Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the **-modify** action to change the remarks).

Note: To move a defect or feature to the size state, you must have entered some design text using the **-remarks** flag with the **-design** action.

-verbose

TeamConnection displays a confirmation message after you issue the command.

feature -size Name . . .

Moves features from the design state to the size state for sizing. Design text must first be entered using **feature -design -remarks**.

The **feature -size** command has these associated attribute flags.

Attribute

-become Name

Description

The user ID you want to issue TeamConnection commands from, if the user ID differs from your *login*. You assume the access authority of the user ID you specify.

(Environment variable: TC_BECOME)

-family Name

The family for which this command is being issued.

(Environment variable: TC_FAMILY)

-remarks Text

Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the **-modify** action to change the remarks).

Note: To move a defect or feature to the size state, you must have entered some design text using the **-remarks** flag with the **-design** action.

-verbose

TeamConnection displays a confirmation message after you issue the command.

Examples

Assume that you are the owner of feature **3129**. This feature is in the design state and text has been entered using **feature -design -remarks**. The following command moves the feature to the size state. After the feature is in the size state, you can create sizing records using the **size** command. (One sizing record is required for each component and release combination affected by the feature change.)

Feature

teamc feature -size 3129

feature -verify Name . . .

Moves features from the working state to the verify state.

The **feature -verify** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-remarks Text	Describes the change being requested, the actual design for the defect or feature, or the reason for modifying or changing the state of the defect or feature. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files. After you issue a command that adds remarks, you cannot change the remarks (that is, you cannot use the -modify action to change the remarks). Note: To move a defect or feature to the size state, you must have entered some design text using the -remarks flag with the -design action.
-verbose	TeamConnection displays a confirmation message after you issue the command.

feature -view Name . . .

Shows information about features.

The **feature -view** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-long	Displays detailed information for the specified objects. Specify only one of -long or -processInfo.
-processInfo	Displays the current process setting and associated TeamConnection subprocesses for the specified components when used with the -view action flag. Specify only one of -long or -processInfo.

Attribute	Description
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command displays information about feature **1244**, including its purpose, originator, owner, and current state.

```
teamc feature -view 1244
```

Related information

See the following related commands:

- Defect
- Fix
- Report
- Size
- Verify
- Workarea

To see the feature state diagrams, refer to the poster *Staying on Track with TeamConnection Processes*.

Chapter 14. Fix

Command summary

Fix records are associated with work areas. A fix record reflects the status of all the part changes made to resolve a defect or implement a feature for a work area and release in reference to one component. A work area has one or more fix records associated with it, depending on the number of components in which parts are changed. The component manages the parts to be changed in relation to the work area.

Use the **fix** command to create, delete, and reassign fix records and to change the state of fix records.

Each fix record is uniquely identified by a work area, a release, and a component. The owner of a fix record is, by default, the owner of the related component; however, this ownership can be reassigned using the **-assign** action flag.

Each fix record refers to the part changes required within one component. The state of the fix record indicates the state of part changes for that component.

When the defect or feature is accepted, and the design, size, and review process is enabled for the component the defect or feature is assigned to, one work area is created for each release referenced by a sizing record, if the release has the track process enabled. Fix records are created for all sizing records in this scenario. Fix records are created in the notReady state if the associated work area is in the approve state; otherwise, they are created in the ready state. Additional fix records are created if parts are changed and checked in to the TeamConnection product for a work area associated with a defect or a feature in a component for which there is no existing fix record. In this case, the fix record is in the active state. Active state means that part changes have been checked in to a work area associated with a defect or feature in the component. You can create fix records using the **-create** action flag if a work area is in the approve state or the fix state.

Use the **-complete** action flag to indicate that the part changes for the work area associated with a defect or feature within that component are completed. This moves the fix record to the complete state.

When all fix records for the work area are completed, the work area automatically moves from the fix state to the integrate state. This automatic transition to the integrate state can be disabled by including the **-workareafixhold** attribute in the release process. When **workareafixhold** is part of the release process, a **workarea -integrate** command must be issued to move the work area into the integrate state after all the fix records are complete. Use the **-activate** action flag to reactivate a fix record that is in the complete state if additional part changes are needed. You must change the work area state from integrate to fix before activating the fix records. You can make changes in the work area only when it is in the fix state.

If you decide that no part changes are required for a component that has a fix record, you can use the **-delete** action flag to delete the fix record from the associated work area.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with `—family testfam`.

The syntax statements for the **fix** command are:

```
teamc fix -activate -workarea Name ... -family Name
        -release Name ... -component Name [-become Name] [-verbose]

teamc fix -assign -to Name -workarea Name ... -release Name ...
        -component Name -family Name [-become Name] [-verbose]

teamc fix -complete -workarea Name ... -family Name
        -release Name ... -component Name [-become Name] [-verbose]

teamc fix -create -workarea Name ... -release Name ...
        -component Name -family Name [-developer Name] [-become Name]
        [-verbose]

teamc fix -delete -workarea Name ... -release Name ...
        -component Name -family Name [-become Name] [-verbose]
```

Command actions

fix -activate

Moves a fix record from the complete state to the active state so that additional part changes can be made. You can change the fix record state only when the corresponding work area is in the fix state.

To perform this action, the associated release's process must include the fix subprocess.

The **fix -activate** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-component Name	The component associated with the object. Different components can manage different versions of the same object. (Environment variable: TC_COMPONENT.)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)

Attribute	Description
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

Assume additional part changes are required to parts managed by component **graphix** for work area **412** and release **font38**. Also, assume that the TC_COMPONENT and the TC_RELEASE environment variables are set to **graphix** and **font38**, respectively, and the work area is in the fix state. The following command reactivates the fix record. The fix record for work area **412** in the component and release specified in the environment variables is moved to the active state, and additional part changes can now be checked in.

```
teamc fix -activate -workarea 412
```

fix -assign

Assigns ownership of a fix record to another user ID. You cannot reassign the component.

To perform this action, the associated release's process must include the fix subprocess.

The **fix -assign** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-component Name	The component associated with the object. Different components can manage different versions of the same object. (Environment variable: TC_COMPONENT.)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-to Name	The user ID to which you want to reassign the object. The user ID you specify becomes the owner of the object.

Fix

Attribute	Description
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

Assume that you own a fix record that monitors changes made to parts in the **debugr** component for work area **955** in release **21gos**. The following command reassigns the fix record to **joel**, assuming the TC_RELEASE environment variable is set to **21gos**. If your TC_RELEASE environment variable were not set to the proper release, you would have to use the **-release** attribute flag.

```
teamc fix -assign -workarea 955 -component debugr -to joel
```

fix -complete

Moves a fix record to the complete state to indicate that all part changes required in the associated component are completed. If no other fix records exist or all other records are completed, this causes the work area to change from the fix state to the next valid state, which is governed by the release's process.

To perform this action, the associated release's process must include the fix subprocess.

The **fix -complete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-component Name	The component associated with the object. Different components can manage different versions of the same object. (Environment variable: TC_COMPONENT.)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

fix -create

Creates a fix record for a work area in relation to a component. You can create a fix record only if the work area is in the approve state or in the fix state.

To perform this action, the associated release's process must include the fix subprocess.

The **fix -create** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-component Name	The component associated with the object. Different components can manage different versions of the same object. (Environment variable: TC_COMPONENT.)
-developer Name	When creating a fix record, specifies the user ID of the owner of the fix record.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

Assume that part changes are required to resolve defect **909** in release **21gos**. The component **graphix** manages the parts to be changed. The TeamConnection product creates work area **909** for the changes. The following command creates a fix record to monitor changes made to parts in the **graphix** component to resolve defect **909** for the release **21gos**. The owner of the new fix record is the owner of the **graphix** component.

```
teamc fix -create -workarea 909 -component graphix -release 21gos
```

fix -delete

Deletes the fix record for the specified work area and component. You cannot delete a fix record that is in the active state or in the complete state because it has part changes associated with it.

Fix

The **fix -delete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-component Name	The component associated with the object. Different components can manage different versions of the same object. (Environment variable: TC_COMPONENT.)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Related information

See the following related commands:

- Component
- Part
- Release
- Workarea

Chapter 15. Host

Command summary

Use the **host** command to create and delete entries on a TeamConnection user's host list. Host list entries are only required if the family is using host-based security.

Each entry identifies client access for a user ID on one host and consists of a user ID and a host in the format **login@hostName**. The **host** command is used in conjunction with the **user** command when you initially create a new user ID. A host list is attached to a user ID and must have at least one entry to establish client access for the user. Additional entries can be defined to let a user complete TeamConnection commands from multiple hosts (and user IDs).

A TeamConnection superuser, or member of the authority group **admin**, must create the first host list entry for a new user ID. The owner of the user ID can make subsequent entries to gain client access on the hosts where the user has logins. Each user ID can have multiple host list entries.

When you use the **-become** flag or the TC_BECOME environment variable, the host list must have an entry of the user ID specified by the **-become** flag. This entry gives you authority to act on behalf of that user ID.

Host list entries can be deleted; however, a user ID must always have one host list entry to be able to access the TeamConnection product. If all host list entries are deleted for a user ID, only a TeamConnection superuser, or member of the authority group **admin**, can create a host list entry to reestablish client access for that user ID.

There is a difference between the *graphical user interface (GUI)* host command and the TeamConnection command line that the GUI prepares. The following fields appear when you add a host entry to the list:

Logins	smith
Host names	carcps20
User IDs	jane

However, the GUI prepares the following TeamConnection command line:

```
teamc host -create smith@carcps20 -login jane
```

Note that **-create smith** is the login for the GUI and that **-login jane** is the user ID for the GUI. Thus, the GUI login field is not the same as the TeamConnection line command **-login**.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with **—family testfam**.

The syntax statements for the **host** command are:

```
teamc host -create Name ... -family Name [-login Name]
               [-become Name] [-verbose]
```

Host

```
teamc host -delete Name ... -family Name [-login Name]
[-become Name] [-verbose]
```

Command actions

host -create Name . . .

Creates one or more host list entries for an existing user ID, using the format *login@hostName*. The login is optional if it matches the user's current login.

The initial host list entry for each user must be created by someone with TeamConnection superuser privilege or member of the authority group **admin**. During the create operation, the host login is resolved. The login **myUser@myHostname**, for example, is resolved to **myUser@myHostname.myCompany.com**.

Should you attempt to create a user at an unreachable host, an error message will appear.

The **host -create** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-login Name	TeamConnection user ID.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume that your login on host **lab1** is **jane** and you have an identical TeamConnection user ID that has a host list entry for **lab1**; that is, the TeamConnection user ID **jane** has a host entry for **jane@lab1**. You also have the login **jane** on two other hosts, **lab2** and **lab3** (also on the network), and you want to use the TeamConnection product on those hosts as well. The following command gives user **jane** TeamConnection client access on these additional hosts. This command creates host list entries **jane@lab2** and **jane@lab3** for the TeamConnection user ID **jane**.

```
teamc host -create lab2 lab3 -login jane
```

Because your login on the current host is identical to the TeamConnection user ID for which you are making a host list entry, the command could also be:

```
teamc host -create lab2 lab3
```

Assume that **jane** and **pete** are logins on host **lab2**. The following command gives them access to the **admin** TeamConnection user ID at that host. Adding this entry host list entry for the user ID **admin** lets logins **jane** and **pete** perform TeamConnection commands using the TeamConnection user ID **admin** while logged on to the host **lab2**. They can use the **-become** attribute flag to move between the **admin** user ID and their own user IDs.

Note: You assume the access authority of the user ID you specify.

```
teamc host -create jane@lab2 pete@lab2 -login admin
```

host -delete Name . . .

Deletes one or more host list entries for an existing user ID, using the format *login@hostName*. The login is optional if it matches the user's current login. Each user must have at least one host list entry to have TeamConnection access.

During the delete operation, the host login is not resolved. You must use a fully qualified host name. To delete the host list entry for login **myUser@myHostname**, for example, you need to issue the command with the fully qualified login **myUser@myHostname.myCompany.com**.

The **host -delete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-login Name	TeamConnection user ID.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume that your user ID **joan** has a number of host list entries, including one for the host **johnson.kap.uwo.com**. The following command deletes the entry from the host list associated with your user ID. Your user ID, **joan**, can no longer perform TeamConnection commands from that host.

```
teamc host -delete joan@johnson.kap.uwo.com
```

Related information

See the following related commands:

User

Host

Chapter 16. Notify

Command summary

By default, you receive notification when an action is required on your part. To receive additional notification, you can add entries to notification lists for specific components.

Use the **notify** command to create or delete entries on a component notification list. Each entry associates a user ID with a notification interest group. An interest group represents a list of actions; whenever an action on this list is performed, the users who are associated with the interest group receive notification. For a list of the notification interest groups shipped with TeamConnection, refer to the *TeamConnection User's Guide*. Your family administrator can modify or create new interest groups.

When you create the user ID, the TeamConnection product sends notification messages to the address you specified for each user ID. You can modify the address using **user -modify**.

A user ID can have more than one entry on the notification list for a given component. Interest groups defined on notification lists are inherited down the component hierarchy, but the notification lists of child components do not show the notification list entries that are inherited from ancestor components.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with **—family testfam**.

The syntax statements for the **notify** command are:

```
teamc notify -create -login Name ... -interest Name -component Name  
-family Name [-become Name] [-verbose]
```

```
teamc notify -delete -login Name ... -interest Name -component Name  
-family Name [-become Name] [-verbose]
```

Command actions

notify -create

Creates one or more notification list entries for a specified component.

Notify

The **notify -create** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-component Name	The component associated with the object. Different components can manage different versions of the same object. (Environment variable: TC_COMPONENT.)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-interest Name	A preconfigured notification interest group for the specified user ID. For a list of interest groups, refer to the <i>TeamConnection User's Guide</i> or issue the following report command: teamc report -view interest -where "order by name"
-login Name . . .	One or more TeamConnection user IDs. Specify only one of -inherited or -login.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

You own the **graphix** component. The following command creates notification list entries for the owners of user IDs **pam**, **jack**, and **lisa** with **general** notification interest for that component. Three entries are added to the notification list associated with the **graphix** component, one for each of the user IDs you specified with the **-login** attribute flag. Each user is notified when an action configured in the **general** notification interest group is performed in reference to the **graphix** component or to any child components of that component. If this group includes the DefectOpen action, then these users are notified each time a defect is opened against the **graphix** component.

```
teamc notify -create -login pam jack lisa -interest general  
-component graphix
```

notify -delete

Deletes one or more notification list entries from the specified component. Owners of user IDs do not need special authority to delete their user IDs from a notification list.

The **notify -delete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-component Name	The component associated with the object. Different components can manage different versions of the same object. (Environment variable: TC_COMPONENT.)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-interest Name	A preconfigured notification interest group for the specified user ID. For a list of interest groups, refer to the <i>TeamConnection User's Guide</i> or issue the following report command: teamc report -view interest -where "order by name"
-login Name . . .	One or more TeamConnection user IDs. Specify only one of -inherited or -login.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

You do not own the **debugr** component, but you want to remove a notification list entry for that component for your own user ID, **pam**. The following command removes the notification list entry that gives you **developer** interest for that component. You are no longer notified when actions configured for the **developer** interest group are performed in reference to the **debugr** component or its child components.

```
teamc notify -delete -login pam -interest developer -component debugr
```

Related information

See the following related commands:

- Component
- Report

Use the **report** command to view the interest groups and the actions they include. For example:

```
teamc report -view interest -where "order by name"
```

For a list of the notification groups shipped with TeamConnection, refer to the *TeamConnection User's Guide*.

See your family administrator for information about configuring new notification interest groups and modifying existing ones.

Chapter 17. Parser

Command summary

Use the **parser** command to create, modify, view, or delete parsers.

To automate some of the work involved in defining and maintaining a build tree, you can use a parser object. The task of a parser is to inspect part contents to determine dependencies. For example, a parser can inspect `hello.c`, recognize that it has a dependency on `hello.h`, and create that dependency in the TeamConnection build tree.

Because parsers are language-dependent, you probably need a different parser for each language you use in a particular release. For example, you might have both a COBOL parser and a C parser in a release. Many parts in the release can use the same parser.

For more information about parsers, refer to the *TeamConnection User's Guide*.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with **—family testfam**.

The syntax statements for the **parser** command are:

```
teamc parser -create Name -command Name -release Name
              -family Name [-include Paths]
              [-become UserName] [-verbose]
```

```
teamc parser -delete Name -release Name -family Name
              [-become UserName] [-verbose]
```

```
teamc parser -modify Name -release Name -family Name
              [-command Name] [-include Paths]
              [-become UserName] [-verbose]
```

```
teamc parser -view Name -release Name -family Name
              [-become UserName] [-verbose]
```

Command actions

parser -create Name

Creates a new parser.

Parser

The **parser -create** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-command Name	Specifies the command file you want to associate with the parser. This can be an .exe, a .com, a .cmd, or a .bat file. The executable file needs to be in the execution path of the TeamConnection family server.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-include Paths	Specifies a concatenated set of paths that define where the parser looks for parts when processing the set of dependencies returned from the command file. These dependencies come in two types: <ul style="list-style-type: none">• A dependency in which the file is stored in the TeamConnection database. For example, hello.c includes hello.h, and both files are stored in the TeamConnection database. During a build, these dependencies must be extracted to a path accessible by the build processor.• A dependency on a file that is not stored in the TeamConnection database. An example of such a dependency is stdio.h, which is typically stored in a compiler's include path and not in the TeamConnection database. For more information about include paths, refer to the <i>TeamConnection User's Guide</i> .
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

parser -delete Name

Deletes the specified parser.

The **parser -delete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)

Attribute	Description
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

parser -modify Name

Modifies an existing parser.

The **parser -modify** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-command Name	Specifies the command file you want to associate with the parser. This can be an .exe, a .com, a .cmd, or a .bat file. The executable file needs to be in the execution path of the TeamConnection family server.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-include Paths	Specifies a concatenated set of paths that define where the parser looks for parts when processing the set of dependencies returned from the command file. These dependencies come in two types: <ul style="list-style-type: none"> • A dependency in which the file is stored in the TeamConnection database. For example, hello.c includes hello.h, and both files are stored in the TeamConnection database. During a build, these dependencies must be extracted to a path accessible by the build processor. • A dependency on a file that is not stored in the TeamConnection database. An example of such a dependency is stdio.h, which is typically stored in a compiler's include path and not in the TeamConnection database. <p>For more information about include paths, refer to the <i>TeamConnection User's Guide</i>.</p>
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Parser

Attribute	Description
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parser -view Name

Gets the specified parser definition.

The **parser -view** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Related information

See the following related commands:

- Builder
- Part
- Release

Chapter 18. Part

Command summary

Use the **part** command to put files or parts into the TeamConnection product and to work with individual files afterwards. For example, you can store VisualAge Generator parts in the TeamConnection product. You put a part into the TeamConnection product using **part -create**. When you create a part, you can do any of the following:

- Take an existing file that is on your workstation and place it in the TeamConnection product.
- Create a place-holder part that will not have any content until a successful build of its inputs, using the **-empty** flag. Place holders are used in building an application.
- Create a part that acts as a collector object so that you can synchronize the build of unrelated parts. For more information, refer to the *TeamConnection User's Guide*. These parts do not have bulk contents (such as ASCII or binary data).

When you create a part in the TeamConnection product, you associate it with a release (to relate the part to a development effort) and with a component (to control the ownership of and the access to a part). You have the option of specifying a file mode when creating a part using the **-fmode** flag. For example, you can use the **-fmode** flag to specify that a part is read-only. If file mode is not specified, the current file mode is used. After a part is successfully created on the server, the TeamConnection product modifies the file attributes of the working copy of the part left on the client to read-only. All subsequent **part** access commands must specify the part name, release name, and possibly a work area name to identify the correct part.

By default, parts are created with the part type of TcPart and the file type of text. You can specify a part type other than TcPart. For part types of TcPart, you can specify that the file contents are text, binary, or none.

You can have two parts with the same base name, as long as the **-type** is different for each part. Unless you specify a type on a part, all commands that reference parts default to TcPart. Once the type is specified, it cannot be changed. unless you delete the part and then re-create it.

Parts that have a unique base name or path name within a release can be specified by their base name or path name; other parts must be specified by their full path name when performing TeamConnection actions against the part.

A parts name may contain spaces provided it is enclosed in double quotation marks during processing. For example:

```
teamc part -create "This is a long file name.txt"
```

The name with spaces will be shown as-is by the GUI (without the double quotes). If the name has spaces and is not enclosed in double quotation marks, then you may get an error message repeated many times, one for each "token" separated by spaces in the long name.

Part

Note: The base name may contain a maximum of 63 characters, not including the double quotations. The path name, which includes the base name, may contain a maximum of 195 characters, not including the double quotations.

What you can do with parts

You can perform various actions against parts in the TeamConnection product, depending on the access authority you have for the components that manage parts.

- Parts can be extracted or checked out for editing and subsequently checked in to save the changes.
- Part properties can be modified, such as the path name, release, component, and file mode. For example, you can change the name of a part using the **-rename** action.
- Parts can be built. You can use the **-connect** and **-disconnect** actions to indicate how parts are related. You can also use the **-touch** action to ensure that the part participates in the next build. To cancel a build, you can use the **-cancel** attribute of the **part -build** action. For more information about building parts, refer to the *TeamConnection User's Guide*.
- Parts can be deleted, using the **-delete** action, and then re-created using the **-recreate** action.
- Actions performed on parts can be undone, although certain limitations apply. The **-undo** action negates all of the uncommitted changes to a part in a work area since the last work area **-freeze**.
- Parts from different releases can be merged together, using the **-merge** action, into a separate part and placed in a specified release.
- When a work area is refreshed, collisions detected can be resolved for a specified list of parts using the **-reconcile** action.
- Parts can be marked as ready or not ready for translation into other languages.

Working with parts

When working with parts in a release whose process includes the tracking and driver subprocesses, multiple sets of part changes can be checked in and included in one driver; however, other types of part changes can be specified only once in a driver. For example, a part cannot be created and renamed in the same driver. However, an existing unfrozen **-create** action can be undone so that you can create a part with the name you want.

If the release uses concurrent development mode, then multiple users can work on the same part at the same time. This is in contrast to serial mode, where only one user can work on a part at a time. For more information about concurrent development, refer to page 39.

Parts can be linked to identify them as common to more than one release or work area. A common part has identical content in all of the releases or work areas in which it is linked. For example, a part is common to two releases if the same version of the part is being used in those releases. Common parts follow a single path of development.

The TeamConnection product maintains commonality of parts unless you use the **-force** flag to break the link. When a link is broken, the parts still share the same name, but the information contained in the parts is different.

Specifying the full path name of a TeamConnection part

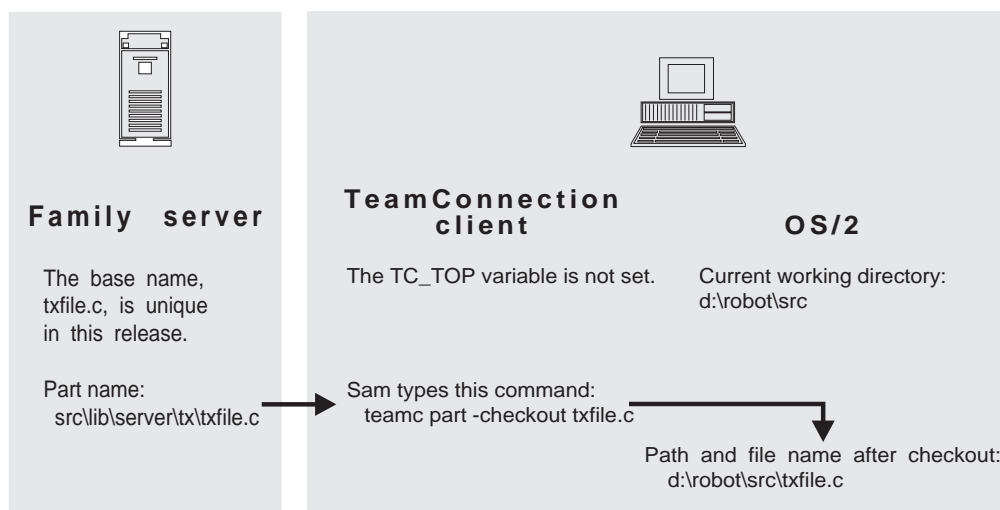
There are a number of ways to specify the full path of a TeamConnection part:

- Specify the part name (which includes TeamConnection path name and base name), and take the workstation path from your current working directory.
- Use the **-relative** flag to specify a path name that is outside your current working directory. In this case, the values for the **-relative** flag and the name are concatenated. This flag can be used only with the **-create**, **-checkout**, **-checkin**, **-extract**, and **-unlock** actions.
- If your workstation directory structure matches the way parts are named, you can set the TC_TOP variable to the leading portion of your current working directory, and specify only the base name in the actions of the **part** command. TeamConnection subtracts the contents of TC_TOP from the current working directory. This option might take some time to understand, but it can save you a great deal of typing.

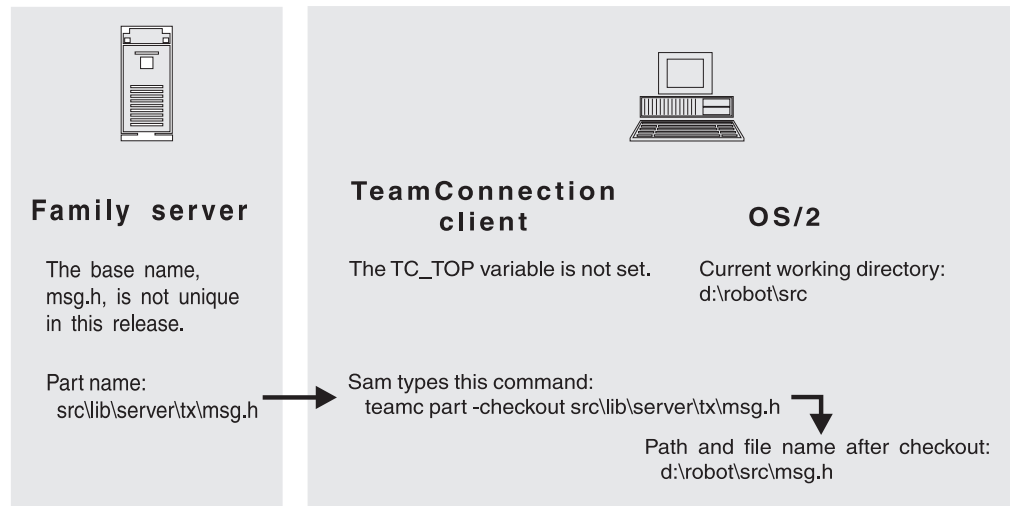
The example that follows starts with the simplest case and moves to the more complex. Throughout the example, assume that the environment variables for TC_FAMILY, TC_RELEASE, and TC_WORKAREA have been set.

Working from your current working directory

Sam is working with a part named txfile.c. The path name and base name for this part is src\lib\server\tx\txfile.c; the current working directory on Sam's client workstation is d:\robot\src. There is no other part in this release named txfile.c.



Next Sam needs to check out \src\lib\server\tx\msg.h. Because other files named msg.h exist in release **9501**, he must specify the entire path name.



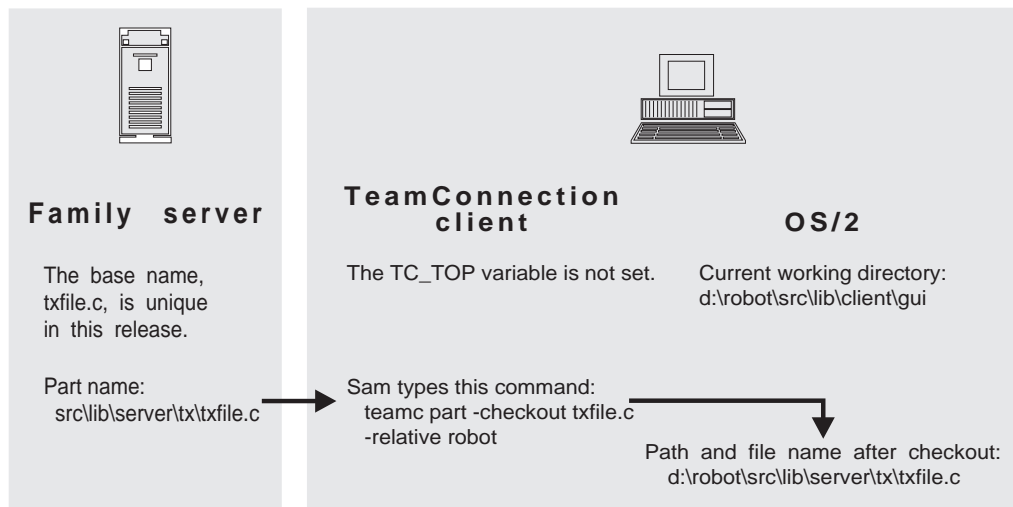
Note: If you create a part without specifying **-relative** or setting the TC_TOP variable, then a file with the same name must exist in the current working directory. For example, you use the following command:

```
teamc part -create src\lib\server\read.me
```

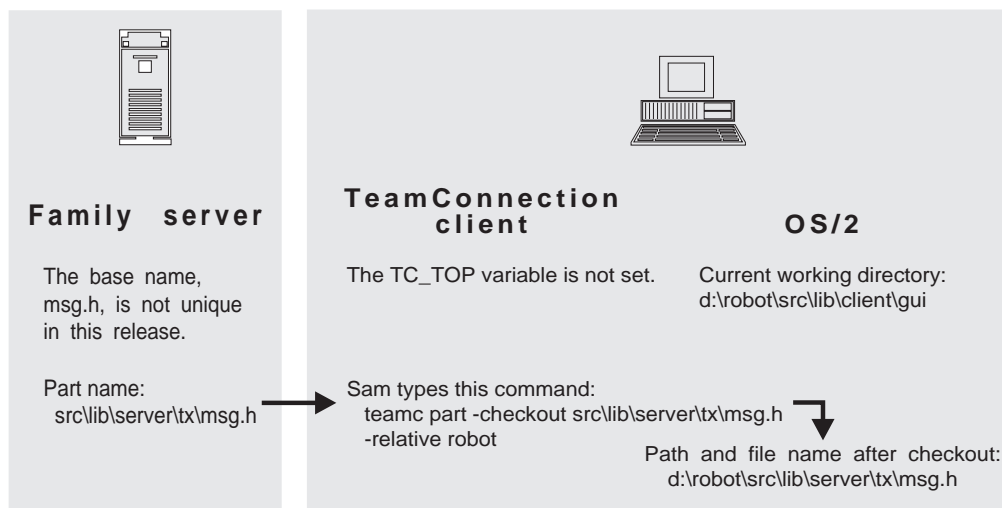
In this case, read.me must exist in your current directory; the TeamConnection product does not search for the part in x:\src\lib\server (x is your current drive).

Using the -relative flag

The next day, Sam's current working directory is d:\robot\src\lib\client\gui. But he wants to check out txfile.c to the same directory as before. He uses the **-relative** flag to do this:



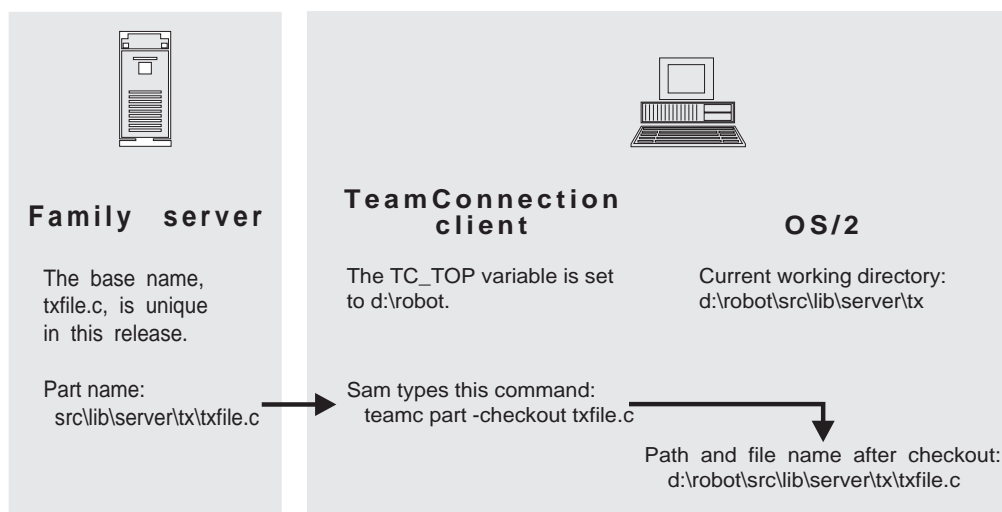
Because txfile.c is unique in the release, Sam did not need to specify the entire path name. But msg.h is not a unique base name:



Using the TC_TOP variable

A few days later, Sam has checked out many files from the release into subdirectories of d:\robot, using a directory structure that mimics the names of TeamConnection parts. For his own convenience, he sets the TC_TOP variable to d:\robot.

Now when he works with parts, he can specify just the base name of files in his current working directory, as in this example:



The additional information added to the leading portion of the path is formed by subtracting the value of TC_TOP from the current working directory. In other words, the TC_TOP variable tells the TeamConnection product which portion of the current working directory path belongs to the client workstation.

This command is completely equivalent to the following command if the TC_TOP variable is not set:

```
teamc part -checkout src\lib\server\tx\txfile.c -relative d:\robot
```

Part

However, using TC_TOP lets Sam save his fingers for typing code instead of long path names.

Common parts in releases

When a common part is checked out for editing, it is locked in all releases and work areas where it is common. You need to do only one check-in to have the change reflected in all releases and work areas in which the part is common. The TeamConnection product maintains commonality of parts unless you use the **-force** flag to break the common link. If you want to edit a locked part and cannot wait for the part to be checked in, you can break the common link (and thus the lock on the common version) by specifying the **-force** flag when you issue **part -checkout**. The force action applies only in that release and work area so that the part associated with that release is no longer common. You must explicitly link parts to make them common again after that time.

When a common part is checked in using the **part -checkin** command, all work areas must be specified for each release in which the part is common. The associated work areas must be in the fix state, and the associated fix records in the ready or active state.

If you want to check in a common part, and you do not want the changes to be reflected in the other work areas in which the part is common, use the **-force** flag to break the common link. If you want to check in a common part, but you want the changes to be reflected in some of the work areas to which the part is common but not in others, use the the following attributes:

- **-force**
- **-common**, including as arguments the names of releases you want to keep common and excluding the name of the release associated with the part you are checking in or modifying
- **-workarea**, including as arguments the names of the work areas for which you want to maintain part commonality

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with **—family testfam**.

The syntax statements for the **part** command are:

```
teamc part -build Name -pool Name -release Name -family Name
        [-workarea Name | -driver Name]
        {-force | -normal* | -unconditional | -report}
        [-detail FileSpec]
        [-parameters Parameters]
        [-type Name]
        [-top Name]
        [-become Name] [-verbose]
```

```
teamc part -build Name -cancel -release Name -family Name
        [-workarea Name | -driver Name]
        [-type Name]
```

```

[-top Name]
[-become Name] [-verbose]

teamc part -checkin Name ... -release Name -family Name
    -workarea Name ...
    [-common Name ...] [-force] [-retainLock] [-remarks Text]
    [-binary | -text | -none] [-stdin | -from fileSpec ]**
    [-relative Name | -top Name]
    [-become Name] [-verbose]

teamc part -checkout Name ...
    -workarea Name -release Name -family Name
    [-force] [-stdout] [-crlf]
    [-relative Name | -top Name]
    [-become Name] [-verbose]

teamc part -childInfoView Name ...
    -release Name -family Name [-long | -raw]
    [-workarea Name*** | -driver Name | -version Name]
    [-type Name]
    [-become Name] [-verbose]

teamc part -configInfo -family Name [-become Name] [-raw]

teamc part -connect Name ...-parent Name
    {-input* | -output | -dependent}
    -workarea Name -release Name -family Name
    [-type Name]
    [-parenttype Name]
    [-become Name] [-verbose]

teamc part -create Name ... -component Name
    -workarea Name -release Name -family Name
    [-builder Name] [-fmode Octal_number]
    [-relative Name | -top Name]
    [-binary | -text* | -none]
    [-parameters Parameters]
    [-parent Name {-input* | -output | -dependent}]
    [-parser Name]
    [-stdin | -from fileSpec | -empty ]**
    [-parenttype Name*]
    [-remarks Text]
    [-temporary* | +temporary]
    [-translation**** Name]
    [-become Name] [-verbose]

teamc part -delete Name ...
    -workarea Name ...
    -release Name -family Name
    [-common Name ...] [-force] [-type Name]
    [-top Name] [-become Name] [-verbose]

teamc part -disconnect Name ...
    -workarea Name -parent Name -release Name -family Name
    [-parenttype Name]
    [-type Name]

```

Part

`[-become Name] [-verbose]`

`teamc part -export Name ... -type Name [-viewType Name]
-file Name -family Name [-become Name]
{-workarea Name | -version Name}
[-verbose]`

`teamc part -extract Name ...
-release Name -family Name
[-workarea Name*** | -driver Name | -version Name]
[-nokeys] [-relative Name | -top Name] [-stdout] [-crlf]
[-dmask Octal_number] [-fmask Octal_number]
[-become Name] [-verbose]`

`teamc part -link Name ... -workarea Name -release Name -family Name
[-fromworkarea Name | -version Name] [-fromrelease Name]
[-type Name]
[-top Name] [-become Name] [-verbose]`

`teamc part -lock Name ...
-workarea Name
-release Name -family Name [-force]
[-type Name]
[-top Name] [-become Name] [-verbose]`

`teamc part -mark Name ... -transState {notReady | ready}
-release Name -family Name
[-workarea Name*** | -version Name | -driver Name]
[-type Name]
[-top Name] [-become Name] [-verbose]`

`teamc part -merge***** Name ... -family Name -release Name
-workarea Name -fromrelease Name
[-relative Name | -top Name] [-become Name]
[-verbose]`

`teamc part -merge***** Name ... -workarea Name -release Name
-family Name -driver Name -fromdriver Name [-fromrelease Name]
[-relative Name | -top Name] [-become Name] [-verbose]`

`teamc part -modify***** Name ...
-workarea Name -release Name -family Name
{-parameters Parameters
-parser Name -builder Name
[-temporary* | +temporary]}
[-type Name]
[-top Name] [-become Name] [-verbose]`

`teamc part -modify***** Name ...
-release Name -family Name
{ -fmode Octal_number -component Name -translation Name}
[-top Name] [-become Name] [-verbose]`

`teamc part -overrideRestrict Name... -workArea Name
-release Name -family Name [-login Name] [-type Name]
[-top Name] [-become Name] [-verbose]`

```
teamc part -overrideRestrict Name... -cancel
    -workArea Name -release Name -family Name
    [-login Name] [-type Name] [-top Name] [-become Name] [-verbose]
```

```
teamc part -reconcile Name ... -family Name -release Name
    -workarea Name [-relative Name | -top Name]
    [-become Name] [-verbose]
```

```
teamc part -recreate Name ...
    -workarea Name ...
    -release Name -family Name [-top Name]
    [-common Name ...] [-force]
    [-type Name]
    [-become Name] [-verbose]
```

```
teamc part -refresh Name ... -workarea Name -release Name
    -family Name [-fromworkarea Name | -version Name]
    [-type Name] [-top Name] [-become Name] [-verbose]
```

```
teamc part -rename Name -path Name
    -workarea Name ...
    -release Name -family Name
    [-top Name] [-common Name ...] [-force]
    [-type Name]
    [-become Name] [-verbose]
```

```
teamc part -resolve Name ... -release Name -family Name
    [-quiet] [-type Name]
    [-top Name] [-become Name] [-verbose]
```

```
teamc part -restrict Name... -release Name -family Name
    [-type Name] [-top Name] [-become Name] [-verbose]
```

```
teamc part -restrict Name... -cancel -release Name -family Name
    [-type Name] [-top Name] [-become Name] [-verbose]
```

```
teamc part -touch Name ...
    -workarea Name
    -release Name -family Name [-top Name]
    [-type Name]
    [-become Name] [-verbose]
```

```
teamc part -undo Name ...
    -workarea Name ...
    -release Name -family Name
    [-top Name] [-common Name ...]
    [-type Name]
    [-force] [-become Name] [-verbose]
```

```
teamc part -unlock Name ...
    -workarea Name
    -release Name -family Name
    [-relative Name | -top Name]
    [-type Name]
    [-become Name] [-verbose]
```

Part

```
teamc part -view Name ...
    -release Name -family Name [-long] [-top Name]
    [-workarea Name*** | -driver Name | -version Name]
    [-type Name]
    [-become Name] [-verbose]

teamc part -viewmsg Name ... -release Name -family Name
    [-top Name]
    [-workarea Name | -driver Name | -version Name]
    [-type Name]
    [-become Name] [-verbose]
```

Notes:

- * default if not specified
 - type and -parenttype will default to TcPart if not specified
 - temporary is the default, meaning NOT a temporary part
- ** Only valid with file type of text or binary.
- *** Required if part has not been committed.
- **** Required when no default value is set for the TeamConnection family.
- ***** Note the 2 variations of -modify action on Part command.
 - Workarea is required when modifying the indicated set of parameters. Workarea is not required when modifying -translation or -component.
- ***** Note the 2 variations of the -merge action on Part command.
 - The first command performs a part -merge at the release level.
 - The second command performs a part -merge at the driver level.

Command actions

part -build Name

Starting with the specified part as the root of the build tree, this command will build all parts in the tree that have a buildStatus not equal to "success."

The **part -build** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-detail FileSpec	Specifies a file in which all of the build messages are collected.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)

Attribute	Description
-force	Build all parts in the build tree, starting at the specified part, regardless of whether the parts are currently up to date. Processing stops after the first error is returned. By default, only parts with a build status not equal to "success" will be built. If you specify this attribute, do not also specify -normal, -unconditional, or -report. If you specify none of these attributes, -normal is the default.
-normal	Builds only the parts that are out-of-date. Processing stops after the first error is returned. If you specify this attribute, do not also specify -force, -unconditional, or -report. If you specify none of these attributes, -normal is the default.
-parameters	Specifies the parameters you use to build a part. These parameters replace the ones in the builder that is associated with this part. If you want to include the builder parameters, you can imbed the \$(BUILDERPARMS) variable in your part. You can imbed this variable wherever you want the variables substituted in your part. In UNIX environments, you need to include an escape character before the \$: \\$(variable_name) . The following is an example: \\$(TC_INPUT) .
-pool Name	Specifies the name of the build pool that contains the build servers that will perform the build. (Environment variable: TC_BUILDPOOL)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-report	Gives a preview of what would be built if you invoked a build. The report identifies what steps would occur without any translations taking place. If you specify this attribute, do not also specify -force, -normal, or -unconditional. If you specify none of these attributes, -normal is the default.
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)
-type Name	The type of the parts. The default is TcPart.

Part

Attribute	Description
-unconditional	Builds only parts that are out-of-date, but continues processing even if errors are returned. Outputs are not rebuild for inputs that have failed. If you specify this attribute, do not also specify -force, -normal, or -report. If you specify none of these attributes, -normal is the default.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

The following command builds **robot.exe** using pool **OS2_486**.

```
teamc part -build robot.exe -pool os2_486 -workarea 501 -release 11debgr
```

part -build Name -cancel

Will stop all queued and currently running jobs that were caused by the build of the part. You can only specify a part for which a **part -build** was issued.

The **part -build (cancel)** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)
-type Name	The type of the parts. The default is TcPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

part -checkin Name . . .

Submits the changes made to a specified part to the TeamConnection server and unlocks and breaks commonality of the part. Any associated work areas must be in the fix state and the associated fix records in the ready or active state.

When a part is checked-in successfully, the part mode is read-only. Setting the environment variable **tc_modperm** can change the mode.

- Set to off/OFF part mode is read-only
- Set to on/ON part mode is read-write

The **part -checkin** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-binary	Specifies that the object is a binary file. Specify only one of -binary, -none, or -text. If you specify none of these attributes, -text is the default.
-common Name . . .	Specifies the releases in which common parts are to be maintained or whether the specific part change is to apply to all releases in which the part is common. All releases must be specified unless the -force flag is specified as well.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-force	Forces a break between common parts.
-from fileSpec	Specifies the location of the file contents.
-none	Indicates that the part will never contain any data. For example, the part might be a collector object.
-relative Name	Places the specified part relative to the directory location specified according to the complete path name of the part. Directories are created if necessary when extracting or checking out in order to copy the part by its full path name. Specify either -relative or -top.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-remarks Text	Adds explanatory remarks for the action. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files.

Part

Attribute	Description
-retainLock	Submits the changes made to a specified part without unlocking the part.
-stdin	Loads the part from standard input.
-text	Specifies that the object is a text file. If you specify neither -binary, -none, nor -text, -text is the default.
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. Specify either -relative or -top. (Environment variable: TC_TOP)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

Assume that your TC_RELEASE environment variable is set to the release associated with the part **graphix\x.c** and that the tracking subprocess is included in the associated release process. Your current working directory is **\jane\test**, and your TC_TOP environment variable is not set. The following command checks in the part after editing. Changes made to the part **graphix\x.c** are submitted to the TeamConnection server creating a new version of the part. The changes relate to the work areas corresponding to defect **8117** in the release indicated by the TC_RELEASE environment variable. The edited part **graphix\x.c** must exist in your current working directory.

```
teamc part -checkin graphix\x.c -workarea 8117
```

The following command checks in changes to part **file1.c**, which is common to two work areas: 400 and 428.

```
teamc part -checkin file1.c -workarea 400 428 -release R1
```

part -checkout Name . . .

Retrieves a working copy of a specified part and locks it for editing purposes. Only the most recent version of a part can be checked out. If the environment variable TC_BACKUP is set to either off or OFF this command will not create a backup file.

The **part -checkout** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)

Attribute	Description
-crlf	Provides transparent file conversion between UNIX- and Intel-based operating systems. This attribute enables parts shared between UNIX and Intel platforms to have the proper format for the platform to which they are extracted. When parts are extracted to an Intel platform, the -crlf attribute will add carriage-returns, expand tabs, and add end-of-file characters (if the parts do not already have EOF characters). When parts are extracted to a UNIX platform, the -crlf attribute will remove carriage-returns, replace spaces with tabs, and remove end-of-file characters. If you omit this attribute, no file format conversion is performed.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-force	Forces a break between common parts.
-relative Name	Places the specified part relative to the directory location specified according to the complete path name of the part. Directories are created if necessary when extracting or checking out in order to copy the part by its full path name. Specify either -relative or -top.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-stdout	Redirects the specified part to standard output when extracting it from the TeamConnection server.
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. Specify either -relative or -top. (Environment variable: TC_TOP)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

Assume that your current working directory is **c:\jane\graphix** and that your TC_TOP environment variable is set to **c:\jane**. The following command checks out a working copy of a part **graphix\x.c** in work area **501** and locks it for editing. In this example, the value of the TC_TOP environment variable, **\jane**, is stripped from the head of your current working directory. The result indicates the name of the part, **graphix\x.c**, within the TeamConnection environment. The part is copied to **c:\jane\graphix** with the name **x.c**, and the current version of the part in work area **501** is locked.

```
teamc part -checkout graphix\x.c -release 10graphix -workarea 501
```

Part

The following command checks out part **file1.c** from work area **400**.

```
teamc part -checkout file1.c -workarea 400 -release R1
```

part -childInfoView Name . . .

Shows the immediate children (of the part) in the build tree.

The **-raw** output of this command shows the following:

```
baseName|releaseName|compName|committedVersion|addDate|dropDate|lastUpdate|
pathName|currentVersion|nuAddDate|nuDropDate|nuPathName|userLogin|fmode|
fileType|changeType|workAreaName|partType|temporary|builderName|
parserName|ancestorSourceId|buildStatus|parameters|
workAreaChange|translation|transState|restricted
```

The **part -childInfoView** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-driver Name	Specifies the driver for which the command is issued. Specify only one of -driver, -version, or -workarea.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-long	Displays detailed information for the specified objects. Specify only one of -long or -raw.
-raw	Displays report in raw format. Specify only one of -long or -raw.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-type Name	The type of the parts. The default is TCPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-version Name	Specifies the version of the object. Specify only one of -driver, -version, or -workarea.
-workarea Name . . .	The name of the work area for the part. Specify only one of -driver, -version, or -workarea.

part -configInfo

Shows configurable field properties for parts in the specified family.

The **part -configInfo** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-raw	Displays configurable field information in raw format.

Examples

- The following command displays the configurable fields defined for the parts in family **rdev**.

```
teamc part -configInfo -family rdev
```

The following is an example of the output provided for this command. This example assumes that the only configurable field defined is called **partTest**.

Attribute Name	DB Column Name	Create/Required	Type
-----	-----	-----	----
partTest	partTest	yes/no	test
- The following command displays the configurable fields defined for parts in family **rdev** in raw format.

```
teamc part -configInfo -family rdev -raw
```

The following is an example of the output provided for this command. This example assumes that the only configurable field defined is called **partTest**.

```
Part Test|Part Test|partTest|partTest|yes|no|test
```

part -connect Name . . .

Connects a part to a parent in the build tree.

The **part -connect** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-dependent	Specifies that the part is not an input to a build, but that it is needed for a build of its parent. A C language <code>#include</code> file is an example. Specify only one of the attributes -input, -output, or -dependent. If none of these is specified, the default is -input.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)

Part

Attribute	Description
-input	Specifies that the part is an input that is needed to build its parent. A C language source file is an example. Specify only one of the attributes -input, -output, or -dependent. If none of these is specified, the default is -input.
-output Name	Specifies that the part is built at the same time as its parent. A .map file is an example. Specify only one of the attributes -input, -output, or -dependent. If none of these is specified, the default is -input.
-parent Name	The target of the operation.
-parenttype Name	Specifies the type of the parent part.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-type Name	The type of the parts. The default is TCPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

The following command connects dependent file **mymsg.h** to its parent **hello.c**.

```
teamc part -connect mymsg.h -parent hello.c -dependent -workarea 501
```

part -create Name . . .

Creates parts with the specified names; this creates a TeamConnection record for the part and copies it to the server. A part must have a unique path name and type within a release.

You can specify fields to be user-configurable using the **-configField** attribute overriding field defaults. When you create a part, TeamConnection enables you to specify whether it is a text or binary file using the -text and -binary attributes. If you omit these attributes, TeamConnection can determine from the file itself what format to create it in.

When a part is created successfully, the part mode is read-only. Setting the environment variable **tc_modperm** can change the mode.

- Set to off/OFF part mode is read-only
- Set to on/ON part mode is read-write

Because your family administrator can modify or delete certain configurable fields and create new fields, the attributes for this action might be different from those in your family or might not appear at all. Those listed here represent the shipped default fields only. For a list of the field properties and flags in use in your family,

use the **-configInfo** command or see your family administrator. For more information on configurable fields, refer to the *Administrator's Guide*.

The **part -create** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-binary	Specifies that the object is a binary file. Specify only one of -binary, -none, or -text. If you specify none of these attributes, -text is the default.
-builder Name	Specifies the name of the builder you want to use.
-component Name	The component associated with the object. Different components can manage different versions of the same object. (Environment variable: TC_COMPONENT.)
-configField Name	Specify a field to be user-configurable, overriding the field default. NULL is a valid value.
-dependent	Specifies that the part is not an input to a build, but that it is needed for a build of its parent. A C language #include file is an example. Specify only one of the attributes -input, -output, or -dependent. If none of these is specified, the default is -input.
-empty	Indicates that the part being created is a place holder. The part does not contain data when you create it, but it will contain data later. Typically, you use this attribute for files that you plan to generate later using part -build . Specify only one of -empty, -from, or -stdin. You cannot use this attribute if you also use the -none attribute. You can use it only with the -binary and -text attributes.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-fmode Octal_number	Specifies the file mode in the TeamConnection product when creating or modifying. If no mode is specified, the current file mode is accepted.
-from fileSpec	Specifies the location of the file contents.
-input	Specifies that the part is an input that is needed to build its parent. A C language source file is an example. Specify only one of the attributes -input, -output, or -dependent. If none of these is specified, the default is -input.

Part

Attribute	Description
-none	Indicates that the part will never contain any data. For example, the part might be a collector object. Specify only one of -binary, -none, or -text. If you specify none of these attributes, -text is the default.
-output Name	Specifies that the part is built at the same time as its parent. A .map file is an example. Specify only one of the attributes -input, -output, or -dependent. If none of these is specified, the default is -input.
-parameters	<p>Specifies the parameters you use to build a part. These parameters replace the ones in the builder that is associated with this part. If you want to include the builder parameters, you can imbed the \$(BUILDERPARMS) variable in your part. You can imbed this variable wherever you want the variables substituted in your part.</p> <p>In UNIX environments, you need to include an escape character before the \$: <code>\\$(variable_name)</code>. The following is an example: <code>\\$(TC_INPUT)</code>.</p>
-parent Name	The target of the operation.
-parenttype Name	Specifies the type of the parent part.
-parser Name	Specifies the name of the parser you want to use.
-relative Name	Places the specified part relative to the directory location specified according to the complete path name of the part. Directories are created if necessary when extracting or checking out in order to copy the part by its full path name. Specify either -relative or -top.
-release Name	<p>The release for which this command is being issued.</p> <p>(Environment variable: TC_RELEASE)</p>
-remarks Text	Adds explanatory remarks for the action. Remarks are limited to 29,999 characters. If you need to include more than this limit, break your remarks into smaller files and load them from these files.
-stdin	Loads the part from standard input.
-temporary	Specifies that this part is not temporary. This is the default.
+temporary	Specifies that the part is temporary. A temporary part is one whose bulk contents will be deleted after a successful build.
-text	Specifies that the object is a text file. If you specify neither -binary, -none, nor -text, -text is the default.

Attribute	Description
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. Specify either -relative or -top. (Environment variable: TC_TOP)
-translation	Specifies how the part is related to the translation process. For example, a part might be translated into another language, used while translating other parts, or completely unrelated to translation. You must include this attribute when creating a part if no default has been set for this attribute. This attribute is configurable.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

Assume that your current working directory is **c:\jane**, and that your TC_TOP environment variable is set to **c:\jane**. You have a part with the path name **c:\jane\src\bar\option\tic.c** on your workstation. You also have a work area **341** to fix defect **341**.

The following command creates this part within the TeamConnection product as **src\bar\option\tic.c** and associates it with a release whose process includes the tracking subprocess. The part is managed by the **graphs** component and is created as part of the fix for defect **341**.

```
teamc part -create src\bar\option\tic.c -component graphs
-release 32charting -workarea 341
```

part -delete Name . . .

Deletes the specified parts.

The **part -delete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-common Name . . .	Specifies the releases in which common parts are to be maintained or whether the specific part change is to apply to all releases in which the part is common. All releases must be specified unless the -force flag is specified as well.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)

Part

Attribute	Description
-force	Forces a break between common parts.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)
-type Name	The type of the parts. The default is TCPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

part -disconnect Name . . .

Disconnects a part from its parent in the build tree.

The **part -disconnect** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-parent Name	The target of the operation.
-parenttype Name	Specifies the type of the parent part.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-type Name	The type of the parts. The default is TCPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

part -export Name . . .

The `part -export Name . . .` command exports the part or parts specified by the *Name* argument to the file name specified in the `-file` attribute. With this command you need to specify the class in which the part is defined using the `-type` attribute.

This function is useful for exporting information from one family into another. You can export the information from one family into a CDF file and then import the CDF file into another family.

Note: You cannot use the import and export functions to migrate information from CMVC to TeamConnection or from one release of TeamConnection to another. Refer to the *Administrator's Guide* for information on the TeamConnection migration tool.

The **part -export** command has these associated attribute flags.

Attribute	Description
<code>-file filename</code>	Specifies the name of the file to which the part or parts are to be exported. The information is exported to the file in CDF format.
<code>-release Name</code>	The release for which this command is being issued. (Environment variable: TC_RELEASE)
<code>-type Name</code>	Specifies the name of the class of the part being exported.
<code>-version Name</code>	Specifies the version of the object.
<code>-viewType viewTypeName</code>	Defines the name of the view for the part being exported. If you do not specify this attribute, it defaults to the part type.
<code>-workarea Name . . .</code>	The work area name. (Environment variable: TC_WORKAREA)


part -extract Name . . .

Retrieves a copy of a specified part. The current version is extracted by default. If the environment variable TC_BACKUP is set to either off or OFF this command will not create a backup file.

The **part -extract** command has these associated attribute flags.

Attribute	Description
<code>-become Name</code>	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)

Part

Attribute	Description
<code>-crlf</code>	<p>Provides transparent file conversion between UNIX- and Intel-based operating systems. This attribute enables parts shared between UNIX and Intel platforms to have the proper format for the platform to which they are extracted. When parts are extracted to an Intel platform, the <code>-crlf</code> attribute will add carriage-returns, expand tabs, and add end-of-file characters (if the parts do not already have EOF characters). When parts are extracted to a UNIX platform, the <code>-crlf</code> attribute will remove carriage-returns, replace spaces with tabs, and remove end-of-file characters.</p> <p>If you omit this attribute, no file format conversion is performed.</p>
<code>-dmask Octal_number</code>	<p>Specifies the read, write, and execute directory permissions for extracted parts in octal notation.</p> <p>The default is 750 (read, write and execute access for directory owner, read and execute access for others in the owner's group, and no access for all other users).</p>
	<p>While the OS/2 client accepts -dmask, it has no effect.</p>
<code>-driver Name</code>	<p>Specifies the driver for which the command is issued. Specify only one of <code>-driver</code>, <code>-version</code>, or <code>-workarea</code>.</p>
<code>-family Name</code>	<p>The family for which this command is being issued.</p> <p>(Environment variable: TC_FAMILY)</p>
<code>-fmask Octal_number</code>	<p>Specifies the read, write, and execute file permissions for extracted parts in octal notation. The default is the file's mode less the write permission for the part owner, others in the owner's group and all others.</p>
<code>-nokeys</code>	<p>Indicates that you do not want to substitute assigned values in place of keywords embedded in the extracted parts.</p>
<code>-relative Name</code>	<p>Places the specified part relative to the directory location specified according to the complete path name of the part. Directories are created if necessary when extracting or checking out in order to copy the part by its full path name. Specify either <code>-relative</code> or <code>-top</code>.</p>
<code>-release Name</code>	<p>The release for which this command is being issued.</p> <p>(Environment variable: TC_RELEASE)</p>
<code>-stdout</code>	<p>Redirects the specified part to standard output when extracting it from the TeamConnection server.</p>
<code>-top Name</code>	<p>Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. Specify either <code>-relative</code> or <code>-top</code>.</p> <p>(Environment variable: TC_TOP)</p>

Attribute	Description
-verbose	TeamConnection displays a confirmation message after you issue the command.
-version Name	Specifies the version of the object. Specify only one of -driver, -version, or -workarea.
-workarea Name . . .	The name of the work area for the part. Specify only one of -driver, -version, or -workarea.

Examples

Assume that your TC_RELEASE environment variable is set to the release associated with a part you want to extract. The following command extracts the latest copy of the part committed to the release. Part **graphix\x.c** in the release specified by the TC_RELEASE environment variable is copied to the file **View_x.c** in your current working directory. If the **-stdout** flag is not specified and your TC_TOP environment variable is not set, the part is copied to your current working directory using the base name.

```
teamc part -extract graphix\x.c -stdout > View_x.c
```

part -link Name . . .

Makes common parts in the specified release or work area.

The **part -link** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-fromrelease Name	Specifies the release from which you want to create a link for a common or shared part; use it when you link specified parts.
-fromworkarea Name	Specifies the work area from which you want to create a link for a common part; use it when you link specified parts. Specify only one of -fromworkarea or -version.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)

Part

Attribute	Description
-type Name	The type of the parts. The default is TCPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-version Name	Specifies the source version name for the link. Specify only one of -fromworkarea or -version.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

The following command creates a common part between two releases. The committed version of the part **debugr\x.c** in release **10debugr** is linked to the **20debugr** release. This creates a common part link between the releases **10debugr** and **20debugr** for the committed version of the part in release **10debugr**. Alternatively, you can specify that you want to link from the work area, using the **-fromworkarea** flag. Future changes to the part **debugr\x.c** must reference a work area for each release to maintain part commonality.

```
teamc part -link debugr\x.c -fromrelease 10debugr -release 20debugr  
-workarea 866
```

Assume that you are working in work area **400** and that you need the latest version of a part that is in work area **428**. The following command links the part in work area **428** to your work area, so that the part is common across the two work areas within the same release.

```
teamc part -link file1.c -from workarea 428 -workarea 400 -release R1
```

part -lock Name . . .

Locks a part in the TeamConnection server. This prevents other users from checking out the part. Only the current version of a part can be locked.

When a part is locked successfully, the part mode in TeamConnection is read-only.

The **part -lock** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-force	Forces a break between common parts.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)

Attribute	Description
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)
-type Name	The type of the parts. The default is TCPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

part -mark Name . . .

Marks the specified parts as ready or not ready for translation into other languages. New versions of a part have an initial translation state of notReady. The most recently committed part version is marked by default as notReady.

The transition of a part to the ready state is not automatic, it must be done manually. Use this command to mark the state of translatable parts in your native language. No translation states are currently defined for parts in other languages that are the result of translation.

The **part -mark** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-driver Name	Specifies the driver for which the command is issued. Specify only one of -driver, -version, or -workarea.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)
-transState {notReady ready}	Specifies the desired translation state for the parts being marked. The initial translation state for new part versions is notReady.

Part

Attribute	Description
-type Name	The type of the parts. The default is TcPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-version Name	Specifies the version of the object. Specify only one of -driver, -version, or -workarea.
-workarea Name . . .	The name of the work area for the part. Specify only one of -driver, -version, or -workarea.

Examples

The following command marks the latest version of **graphix\lx.c** in workarea **501** as ready for translation.

```
teamc part -mark graphix\lx.c -transState ready -workarea 501 -release R1
```

part -merge Name . . .

Merge the part of the specified driver or release with the part of another. Part merge can merge parts at both the release and driver levels. There are two forms of the part -merge command, one merges parts at the release level while the other merges parts at the driver level. To specify a part to be merged at the driver level, use the **-driver** and **-fromdriver** attribute flags. If the **-driver** and **-fromdriver** flags are not used, the latest committed version of the part from each release is merged.

If the part has been locked in another work area, deleted in only one of the drivers, or renamed, the action will be aborted.

If a part exists in the source driver but not in the destination driver, it is linked from the source driver to the work area in the destination release. For binary parts, an error is written and the part is not changed.

The specified work area must be in the fix state. The merged part is checked into the work area using the **-force** flag to force a break between common parts.

The part of the specified driver will be locked in the work area.

The parts involved are extracted to the client machine and placed in directories generated by TeamConnection. Then automerge is invoked to merge the parts. If the merge is successful, the resulting merged part will be checked in and the extracted parts are removed from the TeamConnection generated directories.

If the merge fails, the automerge edit session will be initiated for you to perform a manual merge. You must check in the file after all the file conflicts are resolved.

The **part -merge** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-driver Name	The name of the driver in which the parts are used for merge.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-fromdriver Name	The name of driver of which the source parts reside.
-fromrelease Name	Specifies the release from which content is to be merged.
-relative Name	Places the specified part relative to the directory location specified according to the complete path name of the part. Directories are created if necessary when extracting or checking out in order to copy the part by its full path name. Specify either -relative or -top.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. Specify either -relative or -top. (Environment variable: TC_TOP)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name	The work area name. (Environment variable: TC_WORKAREA)

Examples

The following command merges content from the committed version of **part1.c** in release R2 with content from the committed version of **part1.c** in release R1 and places the result in workarea 310 of release R1.

```
teamc part -merge part1.c -release R1 -workarea 310 -fromrelease R2
```

part -modify Name . . .

Reassigns the part to another component or changes the file permission. When you reassign the part to another component, the component you specify manages access to the part. Different components can manage different versions of the same part.

Part

The part `-modify Name . . .` action has two variations: The `-workarea` attribute is required when modifying the following attributes:

- `-builder`
- `-fmode`
- `-parameters`
- `-parser`
- `-temporary` or `+temporary`
- `-type`

The `-workarea` attribute is not required when modifying the following attributes:

- `-component`
- `-translation`

Because your family administrator can modify or delete certain configurable fields and create new fields, the attributes for this action might be different from those in your family or might not appear at all. Those listed here represent the shipped default fields only. For a list of the field properties and flags in use in your family, use the **-configInfo** command or see your family administrator. For more information on configurable fields, refer to the *Administrator's Guide*.

The **part -modify** command has these associated attribute flags.

Attribute	Description
<code>-become Name</code>	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
<code>-builder Name</code>	Specifies the name of the builder you want to use.
<code>-component Name</code>	The component associated with the object. Different components can manage different versions of the same object.
<code>-family Name</code>	The family for which this command is being issued. (Environment variable: TC_FAMILY)
<code>-fmode Octal_number</code>	Specifies the file mode in the TeamConnection product when creating or modifying. If no mode is specified, the current file mode is accepted.
<code>-parameters</code>	Specifies the parameters you use to build a part. These parameters replace the ones in the builder that is associated with this part. If you want to include the builder parameters, you can imbed the \$(BUILDERPARMS) variable in your part. You can imbed this variable wherever you want the variables substituted in your part. In UNIX environments, you need to include an escape character before the \$: <code>\\$(variable_name)</code> . The following is an example: <code>\\$(TC_INPUT)</code> .
<code>-parser Name</code>	Specifies the name of the parser you want to use.

Attribute	Description
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-temporary	Specifies that this part is not temporary. This is the default.
+temporary	Specifies that the part is temporary. A temporary part is one whose bulk contents will be deleted after a successful build.
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)
-translation	Specifies how the part is related to the translation process. For example, a part might be translated into another language, used while translating other parts, or completely unrelated to translation. You must include this attribute when creating a part if no default has been set for this attribute. This attribute is configurable.
-type Name	The type of the parts. The default is TcPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

Assume that your TC_RELEASE environment variable is set to the release associated with the part **src\bar\option\tic.c**. The following command reassigns that part to another component.

```
teamc part -modify src\bar\option\tic.c -component debugr
```

part -overrideRestrict Name . . .

Allows changes to a part that has been restricted. The override applies only to changes done within the specified work area. If the optional -login parameter is specified, then only that user will be able to modify the part. If the -login parameter is not specified, then any user (with authority to the part and work area) can modify the part within that work area.

This override will allow fix records that contain changes to the specified part to be completed and will allow work areas containing changes to the part to be integrated and committed as long as these actions are done within the specified work area.

A second version of this command is available using the **-cancel** flag. This second version cancels a **part -overrideRestrict** that was done for a part. If a -login parameter was specified for the part -overrideRestrict, then the -login parameter with the same Name value must be used here as well.

Part

The **part -overrideRestrict** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-cancel	Cancels a part -overrideRestrict that was done for a part. If a -login parameter was specified for the part -overrideRestrict, then the -login parameter with the same Name value must be used here as well.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-login Name	TeamConnection user ID who is allowed to make changes to the part within the specified work area.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)
-type Name	The type of the parts. The default is TcPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

part -reconcile Name . . .

Resolves collisions detected when a work area is refreshed for a specified list of parts. The specified work area must be in the fix state. The reconciled part is checked into the work area using the **-force** flag to force a break between common parts.

The specified parts with active collision records are checked out and an automatic merge program is run to merge changes in the local and alternate versions of the part relative to their common ancestor. As many changes as possible are merged by the automatic merge program. If there are any changes the automatic merge program cannot merge, a manual merge window is opened showing the remaining changes to the part. The user must merge these changes manually.

If the automatic merge program can merge all changes to the part, the resulting part is checked back in and the collision record is marked as reconciled. If the user must manually merge some changes, the user must also check the part in and mark the collision record as reconciled.

If a collision involves a binary, renamed, or deleted part, a warning message is written and no action is taken on the part or collision record.

The **part -reconcile** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-relative Name	Places the specified part relative to the directory location specified according to the complete path name of the part. Directories are created if necessary when extracting or checking out in order to copy the part by its full path name. Specify either -relative or -top.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. Specify either -relative or -top. (Environment variable: TC_TOP)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

The following command reconciles collisions in the part **file1.c** in work area 400 of release R1.

```
teamc part -reconcile file1.c -workarea 400 -release R1
```

part -recreate Name . . .

Re-creates previously deleted parts. If the environment variable TC_BACKUP is set to either off or OFF this command will not create a backup file.

Part

The **part -recreate** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-common Name . . .	Specifies the releases in which common parts are to be maintained or whether the specific part change is to apply to all releases in which the part is common. All releases must be specified unless the -force flag is specified as well.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-force	Forces a break between common parts.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)
-type Name	The type of the parts. The default is TCPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name	The work area name. (Environment variable: TC_WORKAREA)

part -refresh Name . . .

Use the **part -refresh Name . . .** action to refresh a part (the target part) with the contents of the same part from another release or another version of the part (the source part). The behavior of this command varies according to the relationship between the target and source parts:

- If the source part is a successor of the target part, then the target part is updated from the source part. The action performed is a **part -link Name . . .** and the two parts become shared or common parts.
- If the source part is a predecessor of the target part, no change is made to the target part.
- If the source and target parts are alternate versions, then TeamConnection generates collision records.

The **part -refresh** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-fromrelease Name	Specifies the release from which you want to create a link for a common or shared part; use it when you link specified parts.
-fromworkarea Name	Specifies the work area from which you want to create a link for a common part; use it when you link specified parts. Specify only one of -fromworkarea or -version.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)
-type Name	The type of the parts. The default is TCPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-version Name	Specifies the source version name for the link. Specify only one of -fromworkarea or -version.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

The following command refreshes a part called **debugr\x.c** in release **20debugr** with the same part in release **10debugr**. This creates a common part link between the releases **10debugr** and **20debugr** for the committed version of the part in release **10debugr**. Alternatively, you can specify that you want to refresh the part from the work area, using the **-fromworkarea** flag.

```
teamc part -refresh debugr\x.c -fromrelease 10debugr -release 20debugr
-workarea 866
```

part -rename Name

Specifies a new path name for a part. To select the part to be renamed, replace *Name* with the name of the part. Use the -path attribute to specify the new name. You can modify both the path name and the base name using the -path attribute.

Part

The **part -rename** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-common Name . . .	Specifies the releases in which common parts are to be maintained or whether the specific part change is to apply to all releases in which the part is common. All releases must be specified unless the -force flag is specified as well.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-force	Forces a break between common parts.
-path Name	The path name of the part. Part names, consisting of the base name and the path name, must be unique within a release.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)
-type Name	The type of the parts. The default is TCPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

The following command renames an existing part in a release whose process includes the tracking subprocess. The part **debugr\src\xyz.c** in release **20debugr** and work area **560** is renamed **debugr\v2\xyz2.c**.

```
teamc part -rename debugr\src\xyz.c -path debugr\v2\xyz2.c  
-release 20debugr -workarea 560
```

part -resolve Name . . .

Displays the full path name in a specific release for specified part base names. Only works on parts in an integrated work area or committed driver.

The **part -resolve** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-quiet	Suppresses explanatory remarks and new line characters in the output.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)
-type Name	The type of the parts. The default is TcPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.

part -restrict Name . . .

Prevents a user from making changes to the part within the specified release unless the user has superuser authority OR the user has been granted an override to the restriction.

Part -restrict will prevent completing a fix record that contains a change to a restricted part. It will also prevent any work area that contains a change to the specified part from being integrated or committed.

The only ways to circumvent this restriction are the following:

- If a part change occurs in a work area that has been granted an override to the restriction (see **part -overrideRestrict**).
- If an action is done by a user with superuser authority.
- If **part -restrict -cancel** is done on the part.

The **part -restrict** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)

Part

Attribute	Description
-cancel	Removes the restriction from the part.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)
-type Name	The type of the parts. The default is TcPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.

part -touch Name . . .

Marks the part out-of-date, to ensure it participates in the next build. This command does not affect the part's status with respect to the release, so the part does not have to be integrated into the release again.

The **part -touch** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)
-type Name	The type of the parts. The default is TcPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Attribute	Description
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

part -undo Name . . .

Undoes the most recent uncommitted action that changed specified parts. Reverts part back to the last frozen version within a specified work area. If the tracking subprocess is turned on, the work area must be in the fix state. If the latest version of the part is frozen, the command fails and TeamConnection returns an error message.

This action is not available for build outputs.

The **part -undo** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-common Name . . .	Specifies the releases in which common parts are to be maintained or whether the specific part change is to apply to all releases in which the part is common. All releases must be specified unless the -force flag is specified as well.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-force	Forces a break between common parts.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)
-type Name	The type of the parts. The default is TcPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Part

Examples

The following command reverts to a previous version of a part in a work area. The most recent change submitted for part **debugr\x.c** in the release indicated by the TC_RELEASE environment variable is reversed or undone.

```
teamc part -undo debugr\x.c -workarea 501
```

part -unlock Name . . .

Unlocks a part that is checked out so that it is no longer reserved for editing purposes. Or, unlocks a part that has been previously locked using **-lock**.

The **part -unlock** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-relative Name	Places the specified part relative to the directory location specified according to the complete path name of the part. Directories are created if necessary when extracting or checking out in order to copy the part by its full path name. Specify either -relative or -top.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. Specify either -relative or -top. (Environment variable: TC_TOP)
-type Name	The type of the parts. The default is TcPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

The following command unlocks a part that was checked out in work area **501**.

```
teamc part -unlock debugr\x.c -release 11debugr -workarea 501
```

part -view Name . . .

Shows all information for the specified parts.

The **part -view** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-driver Name	Specifies the driver for which the command is issued. Specify only one of -driver, -version, or -workarea.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-long	Displays detailed information for a part, including the part history, whether the file is checked out for editing, all associated common parts, and any change information. The part change information includes the existing active changes for the part, the defect or feature, and the part version associated with those changes. The part change information also shows all versions of the part requested in the command.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)
-type Name	The type of the parts. The default is TCPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-version Name	Specifies the version of the object. Specify only one of -driver, -version, or -workarea.
-workarea Name . . .	The name of the work area for the part. Specify only one of -driver, -version, or -workarea.

Examples

The following command displays information about a specified part.

```
teamc part -view graphix\x.c -release 10graphix -workarea 501
```

The following command displays additional information about a specified part, including the part history, whether the part is locked for editing, all common parts, and change information.

Part

```
teamc part -view graphix\x.c -release 10graphix -workarea 501 -long
```

part -viewmsg Name . . .

Shows the result of the latest build of the part.

The **part -viewmsg** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-driver Name	Specifies the driver for which the command is issued. Specify only one of -driver, -version, or -workarea.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-top Name	Specifies the leading portion of the path name that is a subset of the current working directory on the client machine. (Environment variable: TC_TOP)
-type Name	The type of the parts. The default is TcPart.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-version Name	Specifies the version of the object. Specify only one of -driver, -version, or -workarea.
-workarea Name . . .	The name of the work area for the part. Specify only one of -driver, -version, or -workarea.

Related information

See the following related commands:

- Builder
- Collision
- Component
- Driver
- Parser
- Part
- Release
- Report

Workarea

For a list of supported keywords, refer to the *TeamConnection User's Guide*.

For additional information on using the **automerge** tool, refer to “Chapter 30. AutoMerge” on page 267.

Chapter 19. Prereq

Command summary

Use the **prereq** command to create and delete prerequisite relationships between two or more work areas that are in the fix or integrate state. A work area that you identify as a prerequisite for another work area can be built and committed prior to or at the same time as the work area at hand. Work areas defined implicitly as prerequisites by the TeamConnection product must also be built and committed prior to or at the same time as the work area at hand.

Identify prerequisite relationships between work areas to indicate that work being done in one or more work areas is dependent on changes to parts associated with changes in another work area. This action ensures that a driver that includes the work area with the prerequisite cannot be committed unless its prerequisite work areas are included in the driver.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with **`—family testfam`**.

The syntax statements for the **prereq** command are:

```
teamc prereq -create Name ... -workarea Name ... -release Name ...  
              -family Name [-become Name] [-verbose]
```

```
teamc prereq -delete Name ... -workarea Name ... -release Name ...  
              -family Name [-become Name] [-verbose]
```

Command actions

prereq -create Name . . .

Creates a prerequisite relationship between the specified work areas. The work area that you specify as an argument to the `-create` action is the prerequisite. The work area that you specify as an argument to the `-workarea` attribute is the one for which you are creating the prerequisite.

The **prereq -create** command has these associated attribute flags.

Attribute	Description
<code>-become Name</code>	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
<code>-family Name</code>	The family for which this command is being issued. (Environment variable: TC_FAMILY)

Prereq

Attribute	Description
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The name of the work area for which you are creating or deleting a prerequisite.

prereq -delete Name . . .

Deletes the specified work areas from an existing group of prerequisite work areas. The work area that you specify as an argument to the **-delete** action is the prerequisite. The work area that you specify as an argument to the **-workarea** attribute is the one for which you are deleting the prerequisite.

The **prereq -delete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The name of the work area for which you are creating or deleting a prerequisite.

Related information

See the following related commands:

- Coreq
- Report
- Workarea

For more information about corequisite and prerequisite relationships, refer to the *TeamConnection User's Guide*.

Chapter 20. Release

Command summary

Use the **release** command to:

- Create, modify, delete, and re-create releases
- Extract the set of parts associated with a release
- Link parts within releases with those in other releases
- Merge the content of two releases into a specified work area.
- View information about existing releases

A release is a set of parts that must be built, tested, and distributed as a whole. A release must be created in relation to a component that manages access and notification for the release. If you create a release, you become its owner, and you have implicit authority to define an approval list and an environment list for that release. Release names must be unique within a family.

When you create a release, you must choose a process using the **-process** flag. A process contains different combinations of TeamConnection subprocesses. TeamConnection subprocesses determine the states of the work areas within a release. For release processes, you can specify the track, approval, fix, driver, and test subprocesses. Processes are configured by your family administrator, who can modify current processes and define new ones. For a list of the valid release processes and the TeamConnection subprocesses they include, use the **report -view cfgrelproc** command.

Also, when you create a release, you must choose between serial and concurrent development. Once the release is set to concurrent, it can not be changed back to serial. Choose concurrent development by using the **-concurrent** flag on the **release -create** command. Otherwise, the release defaults to serial development. (For more information about concurrent development, refer to page 39.

You can change the process for an existing release by using the **-modify** flag. For more information on how TeamConnection subprocesses relate to the states of TeamConnection objects, refer to the *TeamConnection User's Guide*.

To modify an environment or a tester for a release, use the **environment** command. See page "Chapter 12. Environment" on page 93. for more information.

To modify an approver for a release, use the **approver** command to add or delete an approver. See page "Chapter 4. Approver" on page 27. for more information.

You cannot delete releases that have parts, outstanding work areas, uncommitted drivers, or active sizing records associated with them. You cannot reuse the name of a deleted release, but you can re-create a deleted release and modify the name of a re-created release.

If autopruning is turned on for a release, you can prune committed branches (work areas or drivers) from that release. The TeamConnection server automatically prunes branches when you specify the **+autopruning** flag either on the **release -create** command or the **release -modify** command. You can also directly prune a committed branch by typing the **release -prune** command.

Release

Note: A pruned branch cannot be recovered.

You can limit the number of committed output versions that you want to keep using the **-outputVersions** attribute on the **release -create** or **release -modify** commands. (The default for **release -create** is to keep all output versions.) When you commit your work area, all output versions that exceed the specified limit will change to type empty. For an example, refer to page “Examples” on page 188.

To keep all output versions on the release, specify the **+outputVersions** attribute on the **release -modify** command.

When you link parts in one release to those in another, you can link the current or the committed version of each active part. The committed version is the default setting. If you want to specify the current version of each active part, you must also supply the name of the associated work area using the **-fromworkarea** parameter.

When you extract parts associated with a release, the current version of the associated parts is extracted by default. Alternatively, you can extract parts changed after a certain date. For a release whose process includes the track and driver subprocesses, you can extract the last committed version of the parts.

Using the **-merge** action, you can merge the content of the committed versions of two releases and place the resulting parts in a specified work area.

When creating or modifying a release, you can specify the type of coupling the release has to other releases. This coupling affects part commonality between releases.

default

TeamConnection part commonality functions normally. (This is the default value.)

loose This coupling, will allow the release to exist without requiring a **-force** or **-common** on part actions. Essentially, the part is logically decoupled from other releases. The user can decide to keep this release common by using **-common** on part actions.

- Parts identified by the **-common** flag will remain common and shared to other releases; parts not identified will only be shared. Commonality is broken with other releases without the mandatory use of the **-force** flag.

```
teamc part -checkin foo.c -release thisisloose -common bar -workarea 123
```

If release **thisisloose** was created or modified with coupling as **loose**, any part not specified with the **-common** flag will be shared. Commonality is broken with other releases common to **thisisloose**.

- Part commonality to be “silently” broken by actions from other common releases.

```
teamc part -checkin foo.c -release bar -common rel1 -workarea 123
```

Since release **thisisloose** was created or modified with coupling as **loose** and is not specified, the link is broken silently (no error is generated due to the lack of a **-force** option).

However, TeamConnection part commonality function is maintained for different workareas in the same release. The **-force** option must be used to break commonality of parts in other workareas of the same release.

looseRestr

Specifies that this release cannot be kept common with any other release by the `-common` mechanism. The **-common** flag can only be used for workareas in this release.

Note: Parts in a release with coupling identified as **looseRestr** can be relinked back to some other release using **part -link**.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with **—family testfam**.

The syntax statements for the **release** command are:

```
teamc release -configInfo -family Name [-become Name] [-raw]
```

```
teamc release -create Name ... -component Name -process Name
    -family Name
    [-environment Name -tester Name]* [-approver Name]*
    [-description Text] [-owner Name] [-become Name]
    [-concurrent] [-verbose] [-coupling Name]
    [+autopruning] [-outputVersions Number]
```

```
teamc release -delete Name ... -family Name [-become Name] [-verbose]
```

```
teamc release -export Name -family Name -file Name
    [-become Name] [-verbose]
```

```
teamc release -extract Name ... -root Name -family Name
    [-nokeys] [-fmask Octal_number] [-version Name]
    [-dmask Octal_number] [-crlf]
    [-component Name ...] [-become Name] [-verbose]
```

```
teamc release -link Name ... -fromrelease Name -family Name
    [-workarea Name] [-fromworkarea Name | -version Name]
    [-become Name] [-verbose]
```

```
teamc release -merge Name -fromrelease Name -family Name
    -workarea Name [-genlist] [-become Name] [-verbose]
```

```
teamc release -modify Name ... -family Name
    { -component Name -process Name [-environment Name -tester Name]*
    -name Name [-approver Name]* -description Text -owner Name
    [+autopruning | -autopruning] [-concurrent]
    [-outputVersions Number | +outputVersions]}
    [-coupling Name]
    [-become Name] [-verbose]
```

```
teamc release -prune Name -version Name -family Name
    [-become Name] [-verbose]
```

```
teamc release -recreate Name ... -family Name
```

Release

```
[-environment Name -tester Name]* [-approver Name]*  
[-become Name] [-verbose]
```

```
teamc release -view Name ... -family Name [-processInfo]  
[-become Name] [-verbose]
```

* Required only when their related subprocess has been specified for the release

Command actions

release -configInfo

The release -configInfo action shows configurable field properties for releases in the specified family. The information is returned in a fixed ASCII table format.

The **release -configInfo** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-raw	Displays configurable field information in raw format.

Examples

The following command displays configurable field information for the family testfam.

```
teamc release -configInfo -family testfam
```

The following is an example of the report generated by this command:

Attribute Name	DB Column Name	Create/ Required	Type	Own/Orig Modify	Accept/ Required	Driver
testField	testField	yes	testField	yes	no	

release -create Name . . .

The release -create Name . . . action creates releases with the specified names. Certain attributes of this action are used only when certain release subprocesses are in effect:

- **-approver** is used by the approval subprocess.
- **-environment** is used by the test subprocess.
- **-tester** is used by the test subprocess.

Because your family administrator can modify or delete certain configurable fields and create new fields, the attributes for this action might be different from those in your family or might not appear at all. Those listed here represent the shipped default fields only. For a list of the field properties and flags in use in your family, use the **-configInfo** command or see your family administrator. For more information on configurable fields, refer to the *Administrator's Guide*.

The **release -create** command has these associated attribute flags.

Attribute	Description
-approver Name	The user ID of the approver for the release. This attribute is used only when the approval subprocess is in effect.
+autopruning	Turns autopruning on for the release. Specify only one of +autopruning or -autopruning.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-component Name	The component associated with the object. Different components can manage different versions of the same object. (Environment variable: TC_COMPONENT.)
-concurrent	Turns on concurrent development mode for the release.
-coupling [default loose looseRestr]	Specifies the type of coupling for a release to other releases. <ul style="list-style-type: none"> • default - TeamConnection part commonality functions normally. (This is the default value.) • loose - Allows the release to exist without requiring a -force or -common on Part actions. • looseRestr - Specifies that this release cannot be kept common with any other release by the -common mechanism.
-description Text	Specifies a description of the object.
-environment environment	Specifies the environment in which the testing is done. Note: The tester/environment name combination becomes an entry on the environment list for the release.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-outputVersions	Saves a specified number of committed outputs. Specify only one of +outputVersions or -outputVersions.
-owner Name	Specifies the user ID of the owner of the object.

Release

Attribute	Description
-process Name	Specifies a process when creating or modifying a release. Processes for your environment are configured by your family administrator. For a list of the valid release processes and the TeamConnection subprocesses they include, use the report -view cfgrelproc command.
-tester Name	Specifies the user responsible for testing in the given environment if the test subprocess is included in the release process. The tester/environment name combination becomes an entry on the environment list for the release.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command creates a release named **10debugr** which is associated with component **comp1** and the process **preship** (which specifies the TeamConnection track, approval, fix, driver, and test subprocesses). Because the **preship** process includes the TeamConnection test subprocess, an environment, **PCVersion1**, and an initial tester, **jon**, are specified. And because the **preship** process includes the TeamConnection approval subprocess, an approver, **michael**, is specified. The release will use serial development.

```
teamc release -create 10debugr -component comp1 -process preship
-environment PCVersion1 -tester jon -approver michael
```

The following command creates a concurrent release named **20debugr** which is associated with component **comp1** and the process **no_track**.

```
teamc release -create 20debugr -process no_track -concurrent
-component comp1
```

release -delete Name . . .

Deletes the specified releases. Releases cannot have parts, outstanding work areas, uncommitted drivers, or active sizing records associated with them.

The **release -delete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-verbose	TeamConnection displays a confirmation message after you issue the command.

release -export Name . . .

The `release -export Name . . .` command exports the parts in the release (or releases) specified by the *Name* argument to the file name specified in the `-file` attribute.

This function is useful for exporting information from one family into another. You can export the information from one family into a CDF file and then import the CDF file into another family.

Note: You cannot use the import and export functions to migrate information from CMVC to TeamConnection or from one release of TeamConnection to another. Refer to the *Administrator's Guide* for information on the TeamConnection migration tool.

The **release -export** command has these associated attribute flags.

Attribute	Description
<code>-become Name</code>	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
<code>-family Name</code>	The family for which this command is being issued. (Environment variable: TC_FAMILY)
<code>-file filename</code>	Specifies the name of the file to which the part or parts are to be exported. The information is exported to the file in CDF format.
<code>-verbose</code>	TeamConnection displays a confirmation message after you issue the command.

release -extract Name . . .


Extracts the part tree for the specified releases. By default, the current versions of all parts in the releases are extracted.

You can issue this command with the `-component` attribute to limit the release extract to parts in one or more components.

The **release -extract** command has these associated attribute flags.

Attribute	Description
<code>-become Name</code>	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
<code>-component Name</code>	The components whose parts you want to extract. This attribute restricts the extract action to the components you include with the attribute.

Release

Attribute	Description
-crlf	<p>Provides transparent file conversion between UNIX- and Intel-based operating systems. This attribute enables parts shared between UNIX and Intel platforms to have the proper format for the platform to which they are extracted. When parts are extracted to an Intel platform, the -crlf attribute will add carriage-returns, expand tabs, and add end-of-file characters (if the parts do not already have EOF characters). When parts are extracted to a UNIX platform, the -crlf attribute will remove carriage-returns, replace spaces with tabs, and remove end-of-file characters.</p> <p>If you omit this attribute, no file format conversion is performed.</p>
-dmask Octal_number	<p>Specifies the read, write, and execute directory permissions for extracted parts in octal notation.</p> <p>The default is 750 (read, write and execute access for directory owner, read and execute access for others in the owner's group, and no access for all other users).</p>
	<p>While the OS/2 client accepts -dmask, it has no effect.</p>
-family Name	<p>The family for which this command is being issued.</p> <p>(Environment variable: TC_FAMILY)</p>
-fmask Octal_number	<p>Specifies the read, write, and execute file permissions for extracted parts in octal notation. The default is the file's mode less the write permission for the part owner, others in the owner's group and all others.</p>
-nokeys	<p>Indicates that you do not want to substitute assigned values in place of keywords embedded in the extracted parts.</p>
-root Name	<p>Specifies a directory on the client where the extracted part tree is to be placed.</p> <p>Note: You can mount a directory from another machine to the client machine, so that the client machine will treat that directory as a local directory.</p>
-verbose	<p>TeamConnection displays a confirmation message after you issue the command.</p>
-version Name	<p>Specifies the version of the object.</p>

Examples

You own the **21graphix** release. The following command extracts all of the parts associated with that release and writes them to the **\tmp\test\graphix** directory. A part tree is created relative to the location **\tmp\test\graphix**. This part tree represents all parts associated with the **21graphix** release that have changed.

```
teamc release -extract 21graphix -root \tmp\test\graphix
```

Assume that the directory `\tmp\9604` has been exported on a host with write permission given to the TeamConnection client and that the directory is mounted on the client using NFS, Netware, IBM LAN Server, or another LAN product. The following command extracts all of the parts associated with release **9604** and components **cmdref** and **using** and writes them to the `\tmp\9604` directory. A part tree is created relative to the location `\tmp\9604`. This part tree represents all parts associated with the **9604** release and the **cmdref** and **using** components that have changed.

```
teamc release -extract 9604 -component cmdref using -root \tmp\9604
```

release -link Name . . .

Links the active parts in a specified release to those in another specified release. The default version for the link is the committed version.

The **release -link** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-fromrelease Name	Specifies the release from which you want to create a link for a common or shared part; use it when you link specified parts.
-fromworkarea Name	Specifies the work area from which you want to create a link for a common part; use it when you link specified parts. Specify only one of -fromworkarea or -version.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-version Name	Specifies the source version name for the link. Specify only one of -fromworkarea or -version.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

The following command links the committed version of release **10debugr** to release **20debugr**.

```
teamc release -link 20debugr -fromrelease 10debugr -workarea 12
```

release -merge Name

Merges the content of the committed versions of two releases and places the resulting parts in the specified work area. The specified work area must be in the fix

Release

state. Merged parts are checked into the work area using the **-force** flag to force a break between common parts. The user must have appropriate authority in each release for successful command completion.

Parts with committed versions in both releases are merged, and their content is merged using an automatic merge program. If the automatic merge program cannot merge all changes in the two versions of a part relative to their common ancestor, a warning message is written and the part is not changed in the work area. The user can use the **part -merge** command to manually handle these parts.

Parts that exist in the source release but not in the destination release are created in the destination release. If a part exists in the source release but has been deleted in the destination release, or if a part exists in the destination release but has been deleted in the source release, no action is taken for that part and a warning is written to the user. Binary parts encountered are ignored.

The **release -merge** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-fromrelease Name	Specifies the release from which content is to be merged.
-genlist Name	Specifies that a list of the parts to be merged should be generated, but no merge should be performed.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name	The work area name. (Environment variable: TC_WORKAREA)

Examples

The following command merges the committed version of parts in release R2 with the committed version of the corresponding parts in release R1 and places the result in work area 235 of release R1.

```
teamc release -merge R1 -workarea 235 -fromrelease R2
```

release -modify Name . . .

Modifies the following properties of the specified releases. One or more of the following attributes is required.

- approver
- autopruning or +autopruning
- component

-description
 -environment
 -outputVersions or +outputVersions
 -owner
 -process
 -tester

Because your family administrator can modify or delete certain configurable fields and create new fields, the attributes for this action might be different from those in your family or might not appear at all. Those listed here represent the shipped default fields only. For a list of the field properties and flags in use in your family, use the **-configInfo** command or see your family administrator. For more information on configurable fields, refer to the *Administrator's Guide*.

The **release -modify** command has these associated attribute flags.

Attribute	Description
-approver Name	The user ID of the approver for the release. This attribute is used only when the approval subprocess is in effect.
+autopruning	Turns autopruning on for the release. Specify only one of +autopruning or -autopruning.
-autopruning	Turns autopruning off for the release. Specify only one of +autopruning or -autopruning.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-component Name	The component associated with the object. Different components can manage different versions of the same object.
-concurrent	Turns on concurrent development mode for the release.
-coupling [default loose looseRestr]	Specifies the type of coupling for a release to other releases. <ul style="list-style-type: none"> • default - TeamConnection part commonality functions normally. (This is the default value.) • loose - Allows the release to exist without requiring a -force or -common on Part actions. • looseRestr - Specifies that this release cannot be kept common with any other release by the -common mechanism.
-description Text	Specifies a description of the object.
-environment environment	Specifies the environment in which the testing is done. Note: The tester/environment name combination becomes an entry on the environment list for the release.

Release

Attribute	Description
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-name Name	Specifies a name for the object.
+outputVersions	Saves all committed outputs. Specify only one of +outputVersions or -outputVersions.
-outputVersions	Saves a specified number of committed outputs. Specify only one of +outputVersions or -outputVersions.
-owner Name	Specifies the user ID of the owner of the object.
-process Name	Specifies a process when creating or modifying a release. Processes for your environment are configured by your family administrator. For a list of the valid release processes and the TeamConnection subprocesses they include, use the report -view cfgrelproc command.
-tester Name	Specifies the user responsible for testing in the given environment if the test subprocess is included in the release process. The tester/environment name combination becomes an entry on the environment list for the release.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command turns on autopruning and limits the number of committed output versions to **10** for release **10debugr**.

```
teamc release -modify 10debugr +autopruning -outputVersions 10
```

You own release **10debugr**. The following command makes **pam** the new owner.

```
teamc release -modify 10debugr -owner pam
```

You own release **10debugr**. The following command changes the process associated with the release to **prototype**.

```
teamc release -modify 10debugr -process prototype
```

release -prune Name

Prunes the specified branch (work area or driver) for the release.

The **release -prune** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)

Attribute	Description
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-version Name	Specifies the name of the first version of the branch being pruned. Also the source version name for the release link.

release -recreate Name . . .

Re-creates previously deleted releases. Certain attributes of this action are used only when certain release subprocesses are in effect:

- **-approver** is used by the approval subprocess.
- **-environment** is used by the test subprocess.
- **-tester** is used by the test subprocess.

The **release -recreate** command has these associated attribute flags.

Attribute	Description
-approver Name	The user ID of the approver for the release. This attribute is used only when the approval subprocess is in effect.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-environment environment	Specifies the environment in which the testing is done. Note: The tester/environment name combination becomes an entry on the environment list for the release.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-tester Name	Specifies the user responsible for testing in the given environment if the test subprocess is included in the release process. The tester/environment name combination becomes an entry on the environment list for the release.
-verbose	TeamConnection displays a confirmation message after you issue the command.

release -view Name . . .

Shows all current information for the specified releases.

Release

The **release -view** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-processInfo	Displays the current process setting and associated TeamConnection subprocesses for the specified components when used with the -view action flag.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Related information

See the following related commands:

- Approver
- Builder
- Collision
- Component
- Environment
- Parser
- Part
- Workarea

For a list of supported keywords, refer to the *TeamConnection User's Guide*.

For a list of the valid release processes and the TeamConnection subprocesses they include, use the **report -view cfgrelproc** command.

For additional information on using the **automerge** tool, refer to “Chapter 30. AutoMerge” on page 267.

Chapter 21. Report

Command summary

Use the **report** command to query the tables and views associated with the TeamConnection product and generate output showing the results of that query. TeamConnection uses the information provided in a **report** command to build a SELECT statement. The **-view** flag specifies the database table or view to query, and the **-where** flag specifies the selection criteria for the query.

You can issue queries to generate reports of data from tables and views using the **-view** action flag. If you do not specify selection criteria, such as the fields and the search conditions you want to use, the report query selects all entries for the table or view indicated that the user has authority to access. This command does not show any objects in components that the user is not authorized to access.

Use the **-verbose** flag to have TeamConnection display message 0010-213 when all or some objects requested are not included in a report.

The **-help** flag displays a list of valid table and view names that you can use as arguments for the **-view** flag. All view and table names as well as their corresponding fields are listed in "Appendix. Querying the TeamConnection database" on page 273. the *TeamConnection Commands Reference*.

Views are also available to report all inherited notification list members for a specified component. These views are designated by the suffix UpView. UpViews are valid for **defect**, **feature**, **access**, and **notify**. You must specify a component in the selection criteria of the **report** command to query this view.

Views are available to report all objects of a certain type for all descendants of a specified component; these views are designated by the suffix DownView. DownViews are valid for **defect**, **feature**, **access**, and **notify**. You must specify a component in the selection criteria of the **report** command to query this view.

The *Text* argument of the **-where** attribute flag defines the search criteria and the conditions of the data you want to select, and it must follow the TeamConnection database syntax rules. It can include subselects and valid functions. For a discussion of syntax and its use, refer to "Appendix. Querying the TeamConnection database" on page 273 of the *Commands Reference*.

By default, report results are displayed in 132-column table format, but you can request the output to be displayed in 80-column stanza format or in long format, which is a combination of stanza and table formats. You can also request output in raw format if you want the results to be used in another program or utility.

You can tailor a report to fields you specify by using the **-general** flag. You are not restricted to any predefined sets of information.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with `—family testfam`.

The syntax statements for the **report** command are:

```
teamc report -general Tclause -family Name [-where Wclause]
          [-become Name] [-select Sclause] [-colspec Number(s)]
          [-verbose] [-q Level]
```

```
teamc report -help -family Name [-become Name]
          [-verbose] [-q Level]
```

```
teamc report -testClient -family Name [-become Name]
          [-verbose] [-q Level]
```

```
teamc report -testServer -family Name [-become Name]
          [-verbose]
```

```
teamc report -userExitInfo -family Name [-long]
          [-become Name] [-q Level]
```

```
teamc report -view Name -family Name [-where Text]
          [-become Name]
          [-stanza | -raw | -table* | -long] [-verbose]
          [-q Level]
```

```
teamc report -view partView -family Name [-where Text]
          [-become Name] {-workarea Name | -version Name}
          -release Name [-parent Name] [-parenttype Name**]
          [-stanza | -raw | -table* | -long] [-verbose] [-q Level]
```

```
teamc report -view TargetView [-stanza | -raw | -table*]
```

* Default

** Default parenttype if not specified is file.

Command actions

report -general Tclause

Displays a "roll your own" type of report. You can tailor your report to extract information not readily available using the standard views and reports. Use this command to specify the fields you wish to view.

This report is in raw format with each field separated by the "|" character.

Some TeamConnection tables, such as ConfigPartView, can be queried only by this command.

The **report -general** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-colspec Number(s)	Defines a tabular format for the report. The argument, Number(s), is a series of numbers separated by commas. Each number represents the minimum width of that column. A header line with the names of the columns, up to the specified width, is displayed. If the data in a column exceeds the specified width, the rest of the columns is shifted left. No data is truncated. If more colspec numbers are given than columns to be displayed, the excess colspec numbers are ignored. If less colspec numbers are given than columns to be displayed, the last number is propagated for the additional columns.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-q Level	Sets the optimization level for the query. The default optimization level is 5. Setting the optimization level to a lower value such as 3, 1 or 0 improves optimization.
-select Sclause	Specifies the select clause parameters for the report. If omitted, * (all) is used.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-where Wclause	Defines the selection criteria to query the specified table or view using valid syntax.

Examples

- The following command displays all views and tables available.
`teamc report -general sysibm.systables -select name`
- The following command shows all views available.
`teamc report -general sysibm.sysviews -select name`
- The following command displays the columns of a table or view (<view_name>) with a column width of 19.
`teamc report -general <view_name> -colspec 19 -where "0=1"`
- The general report can extract information not readily available using the standard views and reports. This example extracts information about what defects were opened by someone who is (currently) a superuser.
`teamc report -general "Defects D, Users U" -select "D.name, U.login" -where "D.originId=U.id and U.superuser='yes'" -colspec "6, 10"`

Note: Quotes are required around clauses which contain blanks (spaces).

Report

report -help

Displays a list of the valid view and table names you can use as arguments for the **-view** flag.

The **report -help** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-q Level	Sets the optimization level for the query. The default optimization level is 5. Setting the optimization level to a lower value such as 3, 1 or 0 improves optimization.
-verbose	TeamConnection displays a confirmation message after you issue the command.

report -testClient

Tests the availability of the TeamConnection message catalog on the client's host, and returns a message informing the user of its availability.

The **report -testClient** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-q Level	Sets the optimization level for the query. The default optimization level is 5. Setting the optimization level to a lower value such as 3, 1 or 0 improves optimization.
-verbose	TeamConnection displays a confirmation message after you issue the command.

report -testServer

Tests the availability of the TeamConnection message catalog on the TeamConnection server, and returns a message informing the user of its availability.

The report returned provides the names and values of certain environment variables that are set on the TeamConnection server. The report is a file that can be updated by the administrator and used by the TeamConnection server without restarting the server.

If the system administrator has defined a list of environment parameters in the \$HOME/config/env_report_list file, these environment parameter(s) and their value will be appended to the Report -testServer output with each parameter listed on a separate line and the parameter name and value separated by a "|" character. This is intended primarily to provide server environment information for the use of the GUI. The following is an example of this report.

```

Connect to Family Name:      ptest
Server TCP/IP Name:         atropos.austin.ibm.com
Server IP Address:          9.3.84.110
Server TCP/IP Port Number:  8795

Server Specific Information -----
Product Version:            3.0.0
Operating System:           AIX
Message catalog language:   English
Server Mode:                 non-maintenance
Authentication Level:        HOST_ONLY
TC_RELEASE|v300
TC_FAMILY|ptest@atropos.austin.ibm.com@8795

```

The **report -testServer** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-verbose	TeamConnection displays a confirmation message after you issue the command.

report -userExitInfo

The report -userExitInfo command displays user exit parameters for all TeamConnection commands that support user exits. The report produced by this command includes the following information:

- The parameters that can be passed to a user exit program at each user exit ID:

Exit ID 0	Before checking the command request
Exit ID 1	Before processing the command
Exit ID 2	After the action completes
Exit ID 3	If the action or the user exit program fails
- Any configurable fields that can be passed to the user exit program.

Report

The **report -userExitInfo** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-long	Displays detailed information for the specified objects.
-q Level	Sets the optimization level for the query. The default optimization level is 5. Setting the optimization level to a lower value such as 3, 1 or 0 improves optimization.

Examples

- The following command displays user exit information in the default format:

```
teamc report -userExitInfo
```

The following is an excerpt of the report produced by this command:

```
-----
User Exit Information
-----
Action Name: AccessCreate
User Exits 0 and 3:
  Parameter List:    TeamcUserID, component, authority, effectiveUserID,
                    TeamcUserID, verboseFlag
User Exit 1:
  Parameter List:    TeamcUserID, component, authority, effectiveUserID,
                    verboseFlag
User Exit 2:
  Parameter List:    TeamcUserID, component, authority, effectiveUserID,
                    verboseFlag
No configurable fields.

Action Name: AccessDelete
User Exits 0 and 3:
  Parameter List:    TeamcUserID, component, authority, effectiveUserID,
                    TeamcUserID, verboseFlag
User Exit 1:
  Parameter List:    TeamcUserID, component, authority, effectiveUserID,
                    verboseFlag
User Exit 2:
  Parameter List:    TeamcUserID, component, authority, effectiveUserID,
                    verboseFlag
No configurable fields.
```

- Issuing the report -userExitInfo command with the -long attribute displays information about your user exit programs as well as the user exit parameters. User exit information is shown at the end of the report. The following is an example of the report -userExitInfo command with the -long attribute:

```
teamc report -userExitInfo -long
```

The following is an example of the information added to the report by the -long attribute:

```
Configured User Exits:
Action Name: DefectModify
User Exit 0; Program: viewexit.cmd "mod defect 0"
```



```

Parameter List:      remarks
Configurable Fields: phaseFound
User Exit 2; Program: viewexit.cmd "DefMod2"
No parameter list fields.
No configurable fields.

```

```

Action Name: PartAdd
User Exit 0; Program: viewexit.cmd "PartAdd 0"
Parameter List:      release
No configurable fields.
User Exit 1; Program: viewexit.exe "PartAdd1"
No parameter list fields.
No configurable fields.

```

report -view Name

Specifies the database table or view you want to query. You can use a unique prefix abbreviation of the table and view names. You can view the following names:

AccessDownView	DefectView (long)	PartFullView
AccessView	DriverMemberView	PartsOutView
ApprovalView	DriverView (long)	PartView
ApproverView	EnvView	PrereqView
Authority	FeatureDownView (long)	ReleaseView
BuilderView	FeatureView (long)	ShadowTypes
Cfgcomproc	FixView	ShadowView
Cfgrelproc	HostView	ShadowPartView
ChangeView	Interest	SizeView
CollisionView	NoteView	TestView
CompView (long)	NotifyDownView	Users (long)
Config	NotifyUpView	VerifyView
CoreqView	NotifyView	VersionView (long)
DefectDownView (long)	ParserView	WorkAreaView (long)

The **report -view** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-long	Produces report output in stanza format, with additional important information shown in a table format: <ul style="list-style-type: none"> • Each database record is a stanza. • Each stanza line consists of a field and its corresponding values. Specify only one of -long, -raw, -stanza, or -table.
-q Level	Sets the optimization level for the query. The default optimization level is 5. Setting the optimization level to a lower value such as 3, 1 or 0 improves optimization.

Report

Attribute	Description
-raw	<p>Displays reports in raw format. Specify only one of -long, -raw, -stanza, or -table.</p> <p>See “Appendix. Querying the TeamConnection database” on page 273. Refer to the appendix in the <i>Commands Reference</i> for the format of raw output for each report view.</p>
-stanza	<p>Produces report output in stanza format:</p> <ul style="list-style-type: none">• Each database record is a stanza.• Each stanza line consists of a field and its corresponding values. <p>Specify only one of -long, -raw, -stanza, or -table.</p>
-table	<p>Produces report output in the following table format:</p> <ul style="list-style-type: none">• Each field is displayed as a column heading.• Field values appear under respective column headings.• Each row corresponds to one database record. <p>Specify only one of -long, -raw, -stanza, or -table. The table view is the default format of report output.</p>
-verbose	<p>TeamConnection displays a confirmation message after you issue the command.</p>
-where Text	<p>Defines the selection criteria to query the specified table or view using valid syntax.</p>

Examples

The following command displays all users who have **developer** authority for the **graphix** component.

```
teamc report -view accessView -where "compname = 'graphix' and  
authorityName='developer'"
```

The preceding command could be abbreviated as follows. This command shows access explicitly defined for the **graphix** component. Additional access can be inherited at the component driver.

```
teamc report -vi accessv -wh "compname = 'graphix'  
and authorityName='developer'"
```

The following command displays all the approval records for the **20graphix** release that were updated on or after December 1, 1995. Because date fields include the date of the action as well as the time of the action, the approval records selected using the above example are those that were updated after 12:00 p.m. on November 30, 1995. The date field must be enclosed in single quotation marks because it is a character field.

```
teamc report -view approvalview -where "releasename='20graphix' and  
lastupdate > '1995/12/01'"
```

The percent sign (%) is a wildcard character used with the **like** operator to match zero or more characters. For a more granular search, use the underscore (_) wildcard character to match a single character. If the string you are searching for contains an underscore or percent character, as in the file name prt_new.txt, for

example, you can use the escape or translate function to indicate that the underscore or percent character is to be taken literally.

- **Escape** - The following example identifies `\` as the escape character and selects all part names starting with **p_{rt}_**:

```
report -view PartView -release tcid20 -where "baseName like 'prt\_%' escape '\'"
```

- **Translate** - First you need to find a string that does not appear in the set of names that you try to find. Then use the translate function to identify that string as representing the underscore or percent character. The following example identifies `#` as representing the underscore character and selects all part names starting with **p_{rt}_**:

```
report -view PartView -release tcid20 -where "translate(baseName,'#','_') like 'prt#%'"
```

The following command displays all authority groups that include the **DriverCommit** action.

```
teamc report -view authority -where "action = 'DriverCommit'"
```

The following command displays all actions that are included in the definition of the **general** authority group.

```
teamc report -view authority -where "name = 'general'"
```

The following command displays all drivers for the **20debugr** release that have been updated on or after April 29, 1995. Because date fields include date and time, the drivers selected using the above example are those that were updated after 12:00 p.m. on April 28, 1995. The date field must be enclosed in single quotation marks because it is a character field.

```
teamc report -view driverView -where "releaseName='20debugr' and  
lastUpdate > '1995/04/29'"
```

The following command displays, in raw format, all drivers that were committed earlier than March 3, 1995. The drivers committed on or before 12:00 p.m. on March 3, 1995, are selected. The date field must be enclosed in single quotation marks because it is a character field.

```
teamc report -view driverView -where "commitDate < '1995/03/03'" -raw
```

The following command displays all returned defects originated by the user ID **michael**.

```
teamc report -view defectView -where "originLogin = 'michael' and state =  
'returned'"
```

The following command displays all defects for the **graphix** component that are in the working state.

```
teamc report -view defectView -where "state = 'working' and compName =  
'graphix'"
```

The following command displays all defects in the open or working state that are owned by users in the area **e50**. If some user areas are **E50**, they are not selected.

```
teamc report -view defectView -where "state in ('open','working') and  
ownerArea='e50'"
```

The following command displays all release environment list entries that designate the user **michael** as the tester of the **PCVersion1** environment.

```
teamc report -view envView -where "userlogin = 'michael'  
and name = 'PCVersion1'"
```

Report

The following command displays the release environment list members for the **21debugr** release.

```
teamc report -view envView -where "releaseName = '21debugr'"
```

The following command displays member parts of the **10debugr** release that were last updated on or after August 8, 1995. The date field must be in the yyyy/mm/dd format, and it must be enclosed in single quotation marks because it is a character field. Because the date field includes date and time, all parts updated after August 7, 1995, at 12:00 p.m. are selected.

```
teamc report -view partFullView -where "releaseName = '10debugr'
and lastUpdate > '1995/08/07'"
```

The following command displays member parts of the **20graphix** release that are currently checked out.

```
teamc report -view partsOutView -where "releaseName = '20graphix'"
```

The following command displays all actions that define the **developer** interest group.

```
teamc report -view interest -where "Name = 'developer'"
```

The following command displays all the notes for defect **7627** that were added before September 2, 1995. The date field must be in the yyyy/mm/dd format, and it must be enclosed in single quotation marks because it is a character field.

```
teamc report -view noteView -where "defectName = '7627' and addDate
< '1995/09/02'"
```

The following command displays all the notes for defect **4866** written by the owners of the user IDs **sam** and **sara**.

```
teamc report -view noteView -where "defectName = '4866' and
(userlogin = 'sam' or userlogin = 'sara')"
```

The following command displays all test records for the environment **PCVersion2** that have **reject** or **abstain** test results recorded.

```
teamc report -view testView -where "envName = 'PCVersion2' and (state
= 'reject' or state = 'abstain')"
```

The following command displays all test records for the defect **9821** that have an environment name beginning with **PCV**.

```
teamc report -view testView -where "envName like 'PCV%' and
defectName = '9821'"
```

The following command displays all existing work areas for defect **5490** that are in the fix state.

```
teamc report -view workAreaView -where "defectName = '5490' and
state = 'fix'"
```

The following command displays all existing work areas created on or after September 17, 1995, for the **21debugr** release.

```
teamc report -view workAreaView -where "releasename = '21debugr' and
addDate > '1995/09/16'"
```

The following command displays all users in areas that include **tools** as part of the area name.

```
teamc report -view users -where "area like '%tools%'"
```

The following command displays all users who have TeamConnection superuser privilege.

```
teamc report -view users -where "superuser = 'yes'"
```

The following command displays an order by clause with two column names. **Asc** orders the version SID column in ascending order and **desc** orders the path name column in descending order. This query reports changes to parts in ascending order, and the path names of the parts in descending order.

```
teamc report -view changeview -where "defectName = '1491' and  
releaseName = 'projectA_rell' order by versionSID asc, pathName desc"
```

The following command displays all work areas that are in the integrate state and that are not in a driver.

```
teamc report -view workAreaView -where "state = 'integrate' and  
releasename = 'projectA_r1' and id not in (select workareaid  
from drivemembers)"
```

The following command displays all part changes for **src\kernel\ibmesa\io\dkios.c** that were committed in a driver on or before October 21, 1995.

```
teamc report -view changeview -where "pathname =  
'src\kernel\ibmesa\io\dkios.c' and drivename in (select name from  
driverview where commitdate < '1995/10/21')"
```

The following command displays the component **comp1** and all its children.

```
teamc report -view compview -where "id in (select childid from compmemberview  
where parentCompName='comp1')"
```

The following command displays the children of component **comp1**.

```
teamc report -view compview -where "id in (select childid from compmemberview  
where parentCompName='comp1') and id not in (select parentid from  
compmemberview where parentCompName='comp1')"
```

The following command displays the component **comp1** and all parents.

```
teamc report -view compview -where "id in (select parentid from compmemberview  
where childCompName='comp1')"
```

The following command displays the parents of component **comp1**.

```
teamc report -view compview -where "id in (select parentid from compmemberview  
where childCompName='comp1') and id not in (select parentid from  
compmemberview where parentCompName='comp1')"
```

report -view partView

The report -view partView action enables you to query the PartView table in the TeamConnection database. This action is somewhat different from the report -view Name action. With this action you can specify the following additional attributes to focus your database query:

- -workarea Name or -version Name
- -release Name
- -parent Name
- -parenttype Name

Note: The part must be visible to the workarea and the workarea must exist as valid for a report to be generated. If either is not the case, zero (0) records will be returned.

Report

The **report -view (partView)** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-long	Produces report output in stanza format, with additional important information shown in a table format: <ul style="list-style-type: none">• Each database record is a stanza.• Each stanza line consists of a field and its corresponding values. Specify only one of -long, -raw, -stanza, or -table.
-parent Name	Specifies the parent of the object.
-parenttype Name	Specifies the type of the parent part.
-q Level	Sets the optimization level for the query. The default optimization level is 5. Setting the optimization level to a lower value such as 3, 1 or 0 improves optimization.
-raw	Displays reports in raw format. Specify only one of -long, -raw, -stanza, or -table. See “Appendix. Querying the TeamConnection database” on page 273. Refer to the appendix in the <i>Commands Reference</i> for the format of raw output for each report view.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-stanza	Produces report output in stanza format: <ul style="list-style-type: none">• Each database record is a stanza.• Each stanza line consists of a field and its corresponding values. Specify only one of -long, -raw, -stanza, or -table.
-table	Produces report output in the following table format: <ul style="list-style-type: none">• Each field is displayed as a column heading.• Field values appear under respective column headings.• Each row corresponds to one database record. Specify only one of -long, -raw, -stanza, or -table. The table view is the default format of report output.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Attribute	Description
-version Name	Specifies the version of the object. Specify either -version or -workarea or both.
-where Text	Defines the selection criteria to query the specified table or view using valid syntax.
-workarea Name . . .	The work area name. Specify either -version or -workarea. (Environment variable: TC_WORKAREA)

report -view TargetView

The report -view TargetView action enables you to query the TargetView table in the TeamConnection database. This action is somewhat different from the report -view Name action. Following is a list of attributes you can specify with this action.

The **report -view (TargetView)** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-raw	Displays reports in raw format. Specify only one of -raw, -stanza, or -table. See “Appendix. Querying the TeamConnection database” on page 273 Refer to the appendix in the <i>Commands Reference</i> for the format of raw output for each report view.
-stanza	Produces report output in stanza format: <ul style="list-style-type: none"> Each database record is a stanza. Each stanza line consists of a field and its corresponding values. Specify only one of -raw, -stanza, or -table.
-table	Produces report output in the following table format: <ul style="list-style-type: none"> Each field is displayed as a column heading. Field values appear under respective column headings. Each row corresponds to one database record. Specify only one of &-raw, -stanza, or -table. The table view is the default format of report output.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Report

	Attribute	Description
	-where Text	Defines the selection criteria to query the specified table or view using valid syntax.

Related information

For the order and description of field names that are output for various views when you issue the **report** command using the **-raw** flag, refer to “Appendix. Querying the TeamConnection database” on page 273. the *Comands Reference*.

For a list of the views and a description of their fields, or a list of the tables that can be specified as subselects in the **-where** clause and a description of their fields, refer to “Appendix. Querying the TeamConnection database” on page 273. the *Commands Reference*.

Chapter 22. Shadow

Command summary

Use the shadow command to define, setup, manipulate, and view TeamConnection shadows. Shadows are defined and implemented by family administrators. A shadow is a collection of parts in a filesystem that reflect the contents of a workarea, driver, or release. Shadowing is similar to extracting in that the purpose of each is to provide a set of files that reflect the version of a TeamConnection object.

TeamConnection does not do shadowing all by itself. It implements a framework that requires you to provide the "shadowing program" to perform the actual filesystem updates. When commands are issued that effect the contents of a part in a workarea, driver, or release, TeamConnection determines what needs to be updated in the shadows. TeamConnection then extracts the parts and calls the "shadowing program" to update the filesystem.

After a shadow type has been defined, individual shadows of that type can be created. Note that performing the shadow **-create** action may not be enough to cause shadowing to occur. You may have to acquire disk space for the files. Permissions to the file space may have to be set. You may even have to configure other computers as "shadowing servers". It all depends on the requirements for the particular shadowing type that has been created.

Parts in a shadow may not be current for many reasons. Perhaps disk space shortages, or network problems are causing shadow updates to fail. Synchronizing a shadow will update the shadow to reflect the current state of the parts in TeamConnection for the specified workarea, driver, or release.

Shadows can be disabled and enabled. Disabling a shadow prevents the shadow from being updated. For example, if the shadow is out of disk space or there are network problems, the shadow can be disabled until the problem can be corrected. After the problems are resolved, the shadowing can be enabled again. After enabling a shadow, you may need to synchronize the shadow to catch up on any shadowing that should have occurred while the shadow was disabled.

When a part is shadowed, Team Connection records the name, version, and timestamp of the file in the TeamConnection database. A shadow can be verified to see that the timestamp of the parts in the shadow match the timestamp that TeamConnection has recorded for the part. This would typically be used after something unexpected happened to the shadow, such as a disk crash. After the shadow has been restored from backup, the shadow could be verified to find parts that were shadowed after the backup was taken.

The properties associated with a shadow can be modified. When a text part is shadowed, TeamConnection converts the part's end of file character(s) to that specified by the **crlf** value for that shadow. Modifying the properties of a shadow will not affect the parts that are already in the shadow. For example, if you modify the shadow to enable keyword expansion, this will not affect the parts that have already been shadowed. Depending on what properties you modify for the shadow, you may have to use the **-synchronize** action with the **-force** option to update all of the files already in the shadow.

Additional information can be found in the Administrator's Guide.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with **`-family testfam`**.

The syntax statements for the **shadow** command are:

```
teamc shadow -create Name -type Name -release Name
             -family Name -location Text
             [ -contents {[drivers]* [workareas] [release] } ]
             [ -synchronous* | -manual ] [ -crlf* | -nocrlf ]
             [ -keys* | -nokeys ]
             [ -timestamp { preserve* | current } ]
             [ -priority Number ] [ -parameters Parameters ]
             -become Name -verbose
```

```
teamc shadow -define Name -family Name -description Text
             -program Name -become Name -verbose
```

```
teamc shadow -delete Name -release Name -family Name
             -become Name -verbose
```

```
teamc shadow -disable Name -release Name -family Name
             -become Name -verbose
```

```
teamc shadow -enable Name -release Name -family Name
             -become Name -verbose
```

```
teamc shadow -modify Name -release Name -family Name
             [ -name Name ] [ -synchronous | -manual ]
             [ -location Text ]
             [ -contents [drivers] [workareas] [release] ]
             [ -crlf | -nocrlf ] [ -keys | -nokeys ]
             [ -timestamp { preserve | current } ]
             [ -priority Number ] [ -parameters Parameters ]
             -become Name -verbose
```

```
teamc shadow -redefine Name -family Name [-name Name]
             [-description Text] [-program Name]
             -become Name -verbose
```

```
teamc shadow -synchronize Name -release Name -family Name
             [ -driver Name ] [ -workarea Name ]
             [ -force ] [ -report ] [ -path Name ]
             -become Name -verbose
```

```
teamc shadow -undefine Name -family Name
             -become Name -verbose
```

```
teamc shadow -verify Name -release Name -family Name
             [ -driver Name ] [ -workarea Name ] [ -report ]
```

```
[ -path Name ] -become Name -verbose
```

```
teamc shadow -view Name -release Name -family Name
-become Name -verbose
```

Notes: * default if not specified

Command actions

shadow -create Name

Creates a shadow with the specified name. The shadow name must be unique within the release. Multiple shadows can be created for the same release. A shadow is created in the disabled state. Use **shadow -enable** command to enable the shadow.

The **shadow -create** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-contents {[drivers]* [workareas] [release] }	Indicates which TeamConnection objects are shadowed. Specify one or more of drivers, workareas, and release. The default is to shadow drivers.
-crlf	Specifies that files of type text will be converted to have crlf characters to indicate the end of a line. Specify only one of -crlf or -nocrlf. The default is -crlf.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-keys	Specifies that keyword expansion will be performed on the parts that are extracted from TeamConnection. Specify only one of -keys or -nokeys. The default is -keys.
-location Text	The location of the shadow. The valid values for this parameter depends on the type of shadows implemented for your family. Several substitution variables are supported for this attribute. See the Administrator's Guide for details.
-manual	Specifies that the shadow's update mode is manual. Specify only one of the attributes -synchronous or -manual. The default is synchronous. Manual mode shadows are not updated until the shadows are explicitly synchronized with the shadow -synchronize action. The priority attribute is set to zero when a shadow is set to the manual mode.
-nokeys	Specifies that keyword expansion will not be performed on the parts that are extracted from TeamConnection. Specify only one of -keys or -nokeys. The default is -keys.

Shadow

Attribute	Description
-nocrlf	Specifies that files of type text will be converted to have a If character to indicate the end of a line. Only a linefeed character will be used. Specify only one of -crlf or -nocrlf. The default is -crlf.
-parameters Parameters	Specifies additional shadow parameters and characteristics. The valid values for this parameter depend on the type of shadows implemented for your family. Several substitution variables are supported for this attribute. See the <i>Administrator's Guide</i> for details.
-priority Number	Specifies the priority of the shadow relative to other shadows for the release. Shadows are updated from high priority to low priority. The number must be a positive integer. This parameter is only valid for synchronous mode shadows.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-synchronous	Specifies that the shadow's update mode is synchronous. Specify only one of the attributes -synchronous or -manual. The default is -synchronous. Synchronous mode shadows are updated as the contents in workareas, drivers, and/or releases change. You must specify a priority when creating a synchronous shadow.
-timestamp { preserve current }	Specifies how the timestamps on the parts that are shadowed should be maintained. Specify preserve to use the timestamp of the part when it was checked into TeamConnection. Specify current to use the time when the shadow is updated. The default is preserve .
-type Name	The type of the shadow. This must be a type that was previously defined with the shadow -define action.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume a shadowtype of PCShadow has been defined. The following command will create a shadow for workareas and releases.

```
teamc shadow -create PCshad1 -type PCShadow -release 21debugr  
-contents workareas release  
-location "hardrock.ibm.com /tcshadow/$R/$N/$P"  
-synchronous -timestamp preserve -priority 10 -crlf -keys
```

shadow -define Name

Defines a shadow type for the TeamConnection family.

The **shadow -define** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-description Text	Specifies the description of the shadow type.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-program Name	Specifies the name of the shadowing program that will be called to carry out the shadowing.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume you have created a program named `remoteShadow` to implement shadowing to a remote PC. The file will be stored on the family server at `c:\shadowprograms`.

```
teamc shadow -define PCShadow -description "Shadow to a Remote PC"
           -program c:\shadowprograms\remoteShadow
```

shadow -delete Name

Deletes the specified shadow. This action only deletes the shadowing information from the TeamConnection database. The actual parts in the shadow are not deleted.

The **shadow -delete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Shadow

shadow -disable Name

Disables shadowing for the specified shadow name. The contents of a disabled shadow can not be updated until it is enabled.

The **shadow -disable** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

shadow -enable Name

Enables shadowing for the specified shadow name.

The **shadow -enable** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

shadow -modify Name

Modifies the properties of the specified shadow.

The **shadow -modify** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-contents {[drivers]* [workareas] [release] }	Indicates which TeamConnection objects are shadowed. Specify one or more of drivers, workareas, and release. The default is to shadow drivers.
-crlf	Specifies that files of type text will be converted to have crlf characters to indicate the end of a line. Specify only one of -crlf or -nocrlf. The default is -crlf.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-keys	Specifies that keyword expansion will be performed on the parts that are extracted from TeamConnection. Specify only one of -keys or -nokeys. The default is -keys.
-location Text	The location of the shadow. The valid values for this parameter depends on the type of shadows implemented for your family. Several substitution variables are supported for this attribute. See the Administrator's Guide for details.
-manual	Specifies that the shadow's update mode is manual. Specify only one of the attributes -synchronous or -manual. The default is synchronous. Manual mode shadows are not updated until the shadows are explicitly synchronized with the shadow -synchronize action. The priority attribute is set to zero when a shadow is set to the manual mode.
-name Name	Specify a new name for the shadow.
-nokeys	Specifies that keyword expansion will not be performed on the parts that are extracted from TeamConnection. Specify only one of -keys or -nokeys. The default is -keys.
-nocrlf	Specifies that files of type text will be converted to have a If character to indicate the end of a line. Only a linefeed character will be used. Specify only one of -crlf or -nocrlf. The default is -crlf.
-parameters Parameters	Specifies additional shadow parameters and characteristics. The valid values for this parameter depend on the type of shadows implemented for your family. Several substitution variables are supported for this attribute. See the <i>Administrator's Guide</i> for details.
-priority Number	Specifies the priority of the shadow relative to other shadows for the release. Shadows are updated from high priority to low priority. The number must be a positive integer. This parameter is only valid for synchronous mode shadows.

Shadow

Attribute	Description
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-synchronous	Specifies that the shadow's update mode is synchronous. Specify only one of the attributes -synchronous or -manual. The default is -synchronous. Synchronous mode shadows are updated as the contents in workareas, drivers, and/or releases change. You must specify a priority when creating a synchronous shadow.
-timestamp { preserve current }	Specifies how the timestamps on the parts that are shadowed should be maintained. Specify preserve to use the timestamp of the part when it was checked into TeamConnection. Specify current to use the time when the shadow is updated. The default is preserve .
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command changes the shadow properties to manual and changes the parameters that are passed to the shadow:

```
teamc shadow -modify PCshadow -release 21debugr -manual -parameters "-component $C"
```

shadow -redefine Name

Redefines the properties of a shadow type. This command allows you to change the description or the program name for the shadow type.

The **shadow -redefine** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-description Text	Specifies the description of the shadow type.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-name Name	Specify a new name for the shadow.
-program Name	Specifies the name of the shadowing program that will be called to carry out the shadowing.
-verbose	TeamConnection displays a confirmation message after you issue the command.

shadow -synchronize Name

Synchronizes the specified shadow to the state of the objects in TeamConnection.

The **shadow -synchronize** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-driver Name	Specifies the name of the driver for which the command is issued. Specify only one of -driver or -workarea. If you do not specify either driver or workarea, the command is performed on the release version.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-force	Specifies that you want to force the shadow to be updated, whether it is out of sync or not. Specify only one of -force or -report.
-path Name	Subsets the command function to the path specified.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-report	Gives a preview of the parts that are not correct in the shadow. The shadow is not updated.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	Specifies the name of the workarea for which the command is issued. Specify only one of -driver or -workarea. If you do not specify either driver or workarea, the command is performed on the release version.

Examples

The following command synchronizes the PCshadow shadow for workarea 9312:

```
teamc shadow -synchronize PCshadow -release 21debugr -workarea 9312
```

shadow -undefine Name

Removes a shadow type from the family. A shadow type cannot be removed if there are shadows created for this type.

Shadow

The **shadow -undefine** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-verbose	TeamConnection displays a confirmation message after you issue the command.

shadow -verify

Synchronizes a shadow, and additionally verifies that the timestamps of the parts in the shadow match the timestamps that TeamConnection stored when the parts were placed in the shadow. The parts that do not match the contents of the TeamConnection database will be updated in the shadow.

The **shadow -verify** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-driver Name	Specifies the name of the driver for which the command is issued. Specify only one of -driver or -workarea. If you do not specify either driver or workarea, the command is performed on the release version.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-path Name	Subsets the command function to the path specified.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-report	Gives a preview of the parts that are not correct in the shadow. The shadow is not updated.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command verifies the PCshadow shadow for workarea 9312 and only reports the discrepancies.

```
teamc shadow -verify PCshadow -release 21debugr -workarea 9312 -report
```

shadow -view Name

Views the properties of the specified shadow.

The **shadow -view** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Related information

See the following related commands:

- Part
- Driver
- Workarea
- Report

For more information about implementing shadows in TeamConnection, refer to the *Administrator's Guide*.

Chapter 23. Size

Command summary

Use the **size** command to create, delete, and reassign sizing records for a defect or feature that is in the size state, or to indicate sizing information. A sizing record must be created explicitly by the defect or feature owner. A sizing record indicates the time and resources needed to resolve a defect or implement a feature in one component for a release. Each sizing record is uniquely identified by a defect or feature identifier, a component, and a release.

If you are the owner of the component in which the defect must be resolved or the feature must be implemented, you are also the owner of the sizing record by default. Sizing information must be entered as text on a sizing record.

All sizing records must be marked either with **accept** or **reject** in order to move the defect or feature from the size state to the review state. Work areas and fix records are created for all sizing records marked accept, when the defect or feature is accepted, when the track process is enabled for the release and the design, size, and review process is enabled for the component. Otherwise, you must create the work area manually.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with **—family testfam**.

The syntax statements for the **size** command are:

```
teamc size -accept { -feature Name ... -defect Name ... }
                  -component Name ... -release Name
                  -family Name -sizing Text [-become Name] [-verbose]

teamc size -assign -to Name { -feature Name ... -defect Name ... }
                  -component Name ... -release Name
                  -family Name [-become Name] [-verbose]

teamc size -create { -feature Name ... -defect Name ... }
                  -component Name ... -release Name
                  -family Name [-become Name] [-verbose]

teamc size -delete { -feature Name ... -defect Name ... }
                  -component Name ... -release Name
                  -family Name [-become Name] [-verbose]

teamc size -reject { -feature Name ... -defect Name ... }
                  -component Name ... -release Name
                  -family Name [-become Name] [-verbose]
```

Command actions

size -accept

Indicates that the sizing information is entered and complete for the corresponding defect or feature, release, and component. This action is used to record initial sizing information.

The **size-accept** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-component Name	The component associated with the object. Different components can manage different versions of the same object. (Environment variable: TC_COMPONENT.)
-defect Name	The defect identifier for the object. Either -defect or -feature is required.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-feature Name	The feature identifier for the object. Either -defect or -feature is required.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-sizing Text	The sizing information for the proposed defect or feature change in the specified component and release.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume you own the sizing record for feature **483** in component **graphix** for release **21graphix**. The following command specifies that 10 person-days are required to implement the feature.

```
teamc size -accept -feature 483 -component graphix -release 21graphix  
-sizing "10 person-days"
```

size -assign

Reassigns ownership of the specified sizing record to another user ID.

The **size -assign** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-component Name	The component associated with the object. Different components can manage different versions of the same object. (Environment variable: TC_COMPONENT.)
-defect Name	The defect identifier for the object. Either -defect or -feature is required.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-feature Name	The feature identifier for the object. Either -defect or -feature is required.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-to Name	The user ID to which you want to reassign the object. The user ID you specify becomes the owner of the object.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

You own the sizing record for feature **483** in the **graphix** component for the **20graphix** release. The following command assigns the sizing record to user ID **mary**. Responsibility for sizing the feature is reassigned to the user **mary**. The sizing record is uniquely defined by the feature number **483**, release **20graphix**, and component **graphix**.

```
teamc size -assign -feature 483 -component graphix -release 20graphix
-to mary
```

size -create

Creates a sizing record for the corresponding defect or feature, release, and component.

The associated component's process must include the design, size, and review (DSR) subprocess.

Size

The **size -create** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-component Name	The component associated with the object. Different components can manage different versions of the same object. (Environment variable: TC_COMPONENT.)
-defect Name	The defect identifier for the object. Either -defect or -feature is required.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-feature Name	The feature identifier for the object. Either -defect or -feature is required.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command creates a sizing record for feature **483** in the **graphix** component for the **21graphix** release. The owner of the sizing record is the owner of the **graphix** component.

```
teamc size -create -feature 483 -component graphix -release 21graphix
```

size -delete

Deletes the specified sizing record.

The **size -delete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-component Name	The component associated with the object. Different components can manage different versions of the same object. (Environment variable: TC_COMPONENT.)

Attribute	Description
-defect Name	The defect identifier for the object. Either -defect or -feature is required.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-feature Name	The feature identifier for the object. Either -defect or -feature is required.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

size -reject

Indicates that resolving the defect or implementing the feature does not require changes in the corresponding component. If old sizing information exists for this sizing record, it is deleted.

The **size -reject** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-component Name	The component associated with the object. Different components can manage different versions of the same object. (Environment variable: TC_COMPONENT.)
-defect Name	The defect identifier for the object. Either -defect or -feature is required.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-feature Name	The feature identifier for the object. Either -defect or -feature is required.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Size

Examples

Assume you own the sizing record for defect **APAR20** in component **charting** for release **32charting**. The following command specifies that no changes are required in that component and no additional resources are required. The **-reject** action flag indicates that no changes are required for defect **APAR20** in the component **charting** for the release **32charting**.

```
teamc size -reject -defect APAR20 -component charting -release 32charting
```

Related information

See the following related commands:

- Defect
- Feature
- Release
- Report
- Workarea

Chapter 24. Target

Command summary

Use the **target** command to maintain target and status information for part versions.

Context for target/status processing

Maintaining target and status information for part versions helps coordinate the execution of multiple instances of the same executable in transaction processing environments. A status field is associated with each executable and all of its part versions. As the status of the executable changes, the user can change the status associated with each of that executable's part versions. A target field is also associated with each status and part version to enable different versions of the same executable to run on different target systems.

Supporting tables and views

TeamConnection provides the following tables and views to enable an association between targets, status fields, and part versions. Each of these tables and views is described in "Views and report output" on page 275.

TargetView

Shows target and status information for PartVersions. TargetView combines information about part versions with the contents of the Target table.

ConfigPartView

Shows parts in a specified context (specified by contextName and releaseName). This view is used to associate a target/status event with a part version. See the report -general command for instructions on querying this view.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example -family Name. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace -family Name with **—family testfam**.

The syntax statements for the **target** command are:

```
teamc target -create Name -where Text [-status Name] [-time timeStamp]
        [-active activeValue] -family Name [-become Name]
        [-verbose]
```

```
teamc target -delete -where Text -family Name [-become Name]
        [-verbose]
```

```
teamc target -modify -where Text -family Name [-status Name]
        [-time timeStamp] [-active activeValue]
        [-become Name] [-verbose]
```

Target

```
teamc target -view -where Text [-stanza | -table | -raw]
          -family Name [-become Name] [-verbose]
```

Command actions

target -create Name

Creates a target object and associates it with a status and part version.

Use the `-where` attribute flag to specify SQL criteria for ConfigPartView to associate the target and status with one or more part versions.

The **target -create** command has these associated attribute flags.

Attribute	Description
-active Name	Indicates the active state of the status event.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-status Name	Specifies the status of the target for the part version.
-time timeStamp	Specifies the timestamp (online time) of the satus event.
-verbose	TeamConnection displays a confirmation message after you issue the command. The message includes a list of the TargetView rows added, deleted, or modified in raw format. See “Views and report output” on page 275 for a description of the raw output for TargetView.
-where Text	Defines the selection criteria to query the specified table or view using valid syntax.

target -delete

Deletes the specified target.

Use the `-where` attribute flag to specify SQL criteria for TargetView to select the target(s) to be deleted.

The **target -delete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)

Attribute	Description
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-verbose	TeamConnection displays a confirmation message after you issue the command. The message includes a list of the TargetView rows added, deleted, or modified in raw format. See “Views and report output” on page 275 for a description of the raw output for TargetView.
-where Text	Defines the selection criteria to query the specified table or view using valid syntax.

target -modify

Modifies the following properties of the specified target. One or more of the following attributes is required.

- active
- status
- time

Use the -where attribute flag to specify SQL criteria for TargetView to select the target(s) to be modified.

The **target -modify** command has these associated attribute flags.

Attribute	Description
-active Name	Indicates the active state of the status event.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-status Name	Specifies the status of the target for the part version.
-time timeStamp	Specifies the timestamp (online time) of the satus event.
-verbose	TeamConnection displays a confirmation message after you issue the command. The message includes a list of the TargetView rows added, deleted, or modified in raw format. See “Views and report output” on page 275 for a description of the raw output for TargetView.
-where Text	Defines the selection criteria to query the specified table or view using valid syntax.

Target

target -view

Shows all current information for the specified target(s).

Use the `-where` attribute flag to specify SQL criteria for TargetView to select the target(s) to view.

The **target -view** command has these associated attribute flags.

Attribute	Description
<code>-become Name</code>	<p>The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i>. You assume the access authority of the user ID you specify.</p> <p>(Environment variable: TC_BECOME)</p>
<code>-family Name</code>	<p>The family for which this command is being issued.</p> <p>(Environment variable: TC_FAMILY)</p>
<code>-raw</code>	<p>Displays reports in raw format. Specify only one of <code>-raw</code>, <code>-stanza</code>, or <code>-table</code>.</p> <p>See “Appendix. Querying the TeamConnection database” on page 273. Refer to the appendix in the <i>Commands Reference</i> for the format of raw output for each report view.</p>
<code>-stanza</code>	<p>Produces report output in stanza format:</p> <ul style="list-style-type: none">• Each database record is a stanza.• Each stanza line consists of a field and its corresponding values. <p>Specify only one of <code>-raw</code>, <code>-stanza</code>, or <code>-table</code>.</p>
<code>-table</code>	<p>Produces report output in the following table format:</p> <ul style="list-style-type: none">• Each field is displayed as a column heading.• Field values appear under respective column headings.• Each row corresponds to one database record. <p>Specify only one of <code>-raw</code>, <code>-stanza</code>, or <code>-table</code>. The table view is the default format of report output.</p>
<code>-verbose</code>	<p>TeamConnection displays a confirmation message after you issue the command. The message includes a list of the TargetView rows added, deleted, or modified in raw format. See “Views and report output” on page 275 for a description of the raw output for TargetView.</p>
<code>-where Text</code>	<p>Defines the selection criteria to query the specified table or view using valid syntax.</p>

Related information

See the following related commands:

Part

Report

Chapter 25. Tclogin

Command summary

Use the **tclogin** command to login to, log out of, or display a list of user login IDs currently logged in to the family server. This command is required only if your family database uses the PASSWORD_ONLY security option. It may also be needed if your family database uses the PASSWORD_OR_HOST security option. The password can be used when a hostlist does not exist, such as when the IP address is dynamically assigned.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with **—family testfam**.

The syntax statements for the **tclogin** command are:

```
teamc tclogin -login -family Name [-password Name] [-become Name]
                        [-verbose]
```

```
teamc tclogin -logout -family Name [-become Name] [-verbose]
```

```
teamc tclogin -view
```

Command actions

tclogin -login

Use the `tclogin -login` command to log in a user ID to the family server.

The **tclogin -login** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-password Name	Specifies the password for the user ID. This attribute is required if the family uses the PASSWORD_ONLY or PASSWORD_OR_HOST and the user has no host list entry security options. A password must be at least one character long and can be up to thirty-one characters long.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Tclogin

Attribute	Description
-----------	-------------

Examples

To login to a TeamConnection family, issue the following command:

```
teamc tclogin -login -family testfam -password myPassword
```

tclogin -logout

Use the tclogin -logout command to log out a user ID from the family server.

The **tclogin -logout** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

To log out from a TeamConnection family, issue the following command:

```
teamc tclogin -logout -family testfam
```

tclogin -view

Use the tclogin -view command to display a list of TeamConnection login IDs currently logged in to the family server.

Examples

To display a list of TeamConnection login IDs currently logged into a family server, issue the following command:

```
teamc tclogin -view
```

This command displays a list similar to the following:

userLogin	family
chrsp	testfam
billw	testfam
gener	testfam

3 records selected

Related information

See the following related commands:

User

Tclogin

Chapter 26. Test

Command summary

Use the **test** command to indicate the results of an environment test on a test record associated with a work area.

If a release has an environment list, test records are created according to the entries in that list whenever a new work area is created for that release (provided that the release's process includes the test subprocess). Each test record includes the environment name and user ID specified on the release environment list, and the defect or feature identifier of the work area. The owner of the user ID is the tester who owns the test record.

Test records are activated (that is, they are moved to the ready state) when the associated work area moves to the test state and the proposed change is ready for environment testing. When results are entered for all the environment test records associated with a work area, the state of that work area changes to complete. Even if you reject a test record, the work area changes to the complete state. Create another work area to address any changes still required. The automatic transition to the complete state can be disabled by including the **workareatesthold** attribute in the release process. If **workareatesthold** is part of the release process, a **workarea -complete** must be issued to move the workarea into the complete state.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with `—family testfam`.

The syntax statements for the **test** command are:

```
teamc test -abstain -workarea ... -family Name
          -release Name ... -environment Name ...
          [-tester Name] [-become Name] [-verbose]
```

```
teamc test -accept -workarea ... -family Name
          -release Name ... -environment Name ...
          [-tester Name] [-become Name] [-verbose]
```

```
teamc test -assign -to Name -workarea ... -release Name ...
          -environment Name ... -family Name [-tester Name]
          [-become Name] [-verbose]
```

```
teamc test -create -workarea ... -family Name
          -release Name ... -environment Name ...
          [-tester Name] [-become Name] [-verbose]
```

```
teamc test -delete -workarea ... -family Name
          -release Name ... -environment Name ...
          [-become Name] [-verbose]
```

```
teamc test -reject -workarea ... -family Name
```

Test

-release Name ... -environment Name ...
[-tester Name] [-become Name] [-verbose]

Command actions

test -abstain

Abstains from testing for a release environment.

The **test -abstain** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-environment environment	Specifies the environment in which the testing is done. Note: The tester/environment name combination becomes an entry on the environment list for the release.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-tester Name	The user responsible for testing in a given environment.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

Assume that you have superuser privilege and that your TC_RELEASE environment variable is set to **tripod3**. The following command indicates that **jane**, the owner of the test record for work area **7966** in release **tripod3**, will abstain from marking test results in the **PCVersion2** environment. The test record owned by the user **jane** for work area **7966** in the environment **PCVersion2** is marked **abstain**. You can mark the test record owned by another user because you have superuser privilege. The work area moves to the complete state if this is the last test record for the work area to be marked with test results.

```
teamc test -abstain -workarea 7966 -environment PCVersion2 -tester jane
```

test -accept

Indicates successful results for a release environment test.

The **test -accept** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-environment environment	Specifies the environment in which the testing is done. Note: The tester/environment name combination becomes an entry on the environment list for the release.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-tester Name	The user responsible for testing in a given environment.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

Assume that you are responsible for testing whether or not defect **7966** was successfully resolved in the **PCVersion1** environment for release **tripod3**. The following command accepts the test record for work area **7966** if your TC_RELEASE environment variable is set to **tripod3**. The test record you own is marked **accept**, indicating successful test results. The work area moves to the complete state if this is the last test record for the work area to be marked with test results.

```
teamc test -accept -workarea 7966 -environment PCVersion1
```

test -assign

Assigns a test record to another user ID.

The **test -assign** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-environment environment	Specifies the environment in which the testing is done. Note: The tester/environment name combination becomes an entry on the environment list for the release.

Test

Attribute	Description
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-tester Name	The user responsible for testing in a given environment.
-to Name	The user ID to which you want to reassign the object. The user ID you specify becomes the owner of the object.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

Assume that you own the test record for work area **7562** in release **20gos** and environment **Model1**. The following command assigns this test record to user ID **amy** so that the owner of that user ID assumes the testing responsibility.

```
teamc test -assign -to amy -workarea 7562 -environment Model1  
-release 20gos
```

test -create

Creates a test record.

The **test -create** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-environment environment	Specifies the environment in which the testing is done. Note: The tester/environment name combination becomes an entry on the environment list for the release.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-tester Name	The user responsible for testing in a given environment.

Attribute	Description
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

Assume that you own the test environment **ModelT** and tester **gdixon** has been added to release **bos41M**. When work areas are created in the future, test records will be created for this new environment. But work areas for defects **7703** and **7715** already exist and should also be tested for the new environment. The following command creates test records for these defects.

```
teamc test -create -tester gdixon -workarea 7703 7715
          -environment ModelT -release bos41M
```

test -delete

Deletes a test record.

The **test -delete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-environment environment	Specifies the environment in which the testing is done. Note: The tester/environment name combination becomes an entry on the environment list for the release.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Examples

You decide that defect **7711** is not applicable to environment **ModelT** in release **bos41M**, so the associated test record is no longer needed. The following command would delete it.

```
teamc test -delete -workarea 7711 -environment ModelT -release bos41M
```

Test

test -reject

Indicates unsuccessful results for a release environment test.

The **test -reject** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-environment environment	Specifies the environment in which the testing is done. Note: The tester/environment name combination becomes an entry on the environment list for the release.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-tester Name	The user responsible for testing in a given environment.
-verbose	TeamConnection displays a confirmation message after you issue the command.
-workarea Name . . .	The work area name. (Environment variable: TC_WORKAREA)

Related information

See the following related commands:

- Driver
- Environment
- Release
- Report
- Workarea

Chapter 27. User

Command summary

Use the **user** command to create new user IDs, to modify information associated with user IDs, and delete user IDs. Superuser privilege, or member of the authority group **admin**, is required to create user IDs for new users, delete other user IDs, and modify the superuser privilege of a user. You can modify your own user ID information but cannot give yourself TeamConnection superuser privilege or admin membership.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with **—family testfam**.

The syntax statements for the **user** command are:

```
teamc user -create -login Name -address Name -family Name
          [-name Text] [-area Name] [+super] [-become Name] [-verbose]

teamc user -configInfo -family Name [-become Name] [-raw]

teamc user -delete Name ... -family Name [-become Name] [-verbose]

teamc user -modify Name ... -family Name { -login Name -name Text
          -address Name -area Name [+super | -super]
          -password [newpass [oldpass]] } [-become Name] [-verbose]

teamc user -recreate Name ... -family Name [-become Name] [-verbose]

teamc user -view Name ... -family Name [-long] [-become Name]
          [-verbose]
```

Command actions

user -create

Adds user IDs by specifying a value for the **-login** flag. User IDs must be unique within a family. Should you attempt to create a user at an unreachable host, an error message will appear.

Because your family administrator can modify or delete certain configurable fields and create new fields, the attributes for this action might be different from those in your family or might not appear at all. Those listed here represent the shipped default fields only. For a list of the field properties and flags in use in your family, use the **-configInfo** command or see your family administrator. For more information on configurable fields, refer to the *Administrator's Guide*.

User

The **user -create** command has these associated attribute flags.

Attribute	Description
-address Name	Specifies where notification messages are sent for this user. For this attribute, specify the user's mail address in the form login@hostname. The address is case-sensitive. For example, -address johnw@VM6OUT.austin.ibm.com.
-area Name	Specifies the area or department of a user.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-login Name	TeamConnection user ID.
-name Name	Specifies the user's full name.
+super	Grants TeamConnection superuser privilege to a specified user ID.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command creates a user ID for a new user with the user ID **dorrie** and the mailing address **dorrie@cansas**. Because TeamConnection superuser authority was not specified, this user does not have this authority.

```
teamc user -create -login dorrie -address dorrie@cansas  
-name "Julie Karland" -area tools
```

user -configInfo

Shows configurable field properties for users in the specified family. The information is returned in a fixed ASCII table format.

The **user -configInfo** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-raw	Displays configurable field information in raw format.

Attribute**Description****Examples**

- The following command displays the configurable fields defined for users in family **rdev**.

```
teamc user -configInfo -family rdev
```

The following is an example of the output provided for this command. This example assumes that the only configurable field defined is called **userTest**.

Attribute Name	DB Column Name	Create/Required	Type
userTest	userTest	yes/no	test

- The following command displays the configurable fields defined for users in family **rdev** in raw format.

```
teamc user -configInfo -family rdev -raw
```

The following is an example of the output provided for this command. This example assumes that the only configurable field defined is called **userTest**.

```
User Test|User Test|userTest|userTest|yes|no|test
```

user -delete Name . . .

Deletes specified user IDs.

The **user -delete** command has these associated attribute flags.

Attribute**Description**

-become Name

The user ID you want to issue TeamConnection commands from, if the user ID differs from your *login*. You assume the access authority of the user ID you specify.

(Environment variable: TC_BECOME)

-family Name

The family for which this command is being issued.

(Environment variable: TC_FAMILY)

-verbose

TeamConnection displays a confirmation message after you issue the command.

Examples

The following command deletes the user ID **jack**. You can delete a user ID only if all associated objects the user ID owns have been deleted or reassigned and the user ID is removed from approver, environment, access, and notification lists. A deleted user ID can be re-created.

```
teamc user -delete jack
```

user -modify Name . . .

The **user -modify Name . . .** action modifies information associated with specified user IDs. Only a superuser can modify superuser privilege. You must include at least one attribute to be modified with the command.

User

Use the `user -modify Name . . .` command to set passwords for user IDs. Passwords are required if the family uses the `PASSWORD_ONLY` or `PASSWORD_OR_HOST` and the user has no host list entry security options.

Because your family administrator can modify or delete certain configurable fields and create new fields, the attributes for this action might be different from those in your family or might not appear at all. Those listed here represent the shipped default fields only. For a list of the field properties and flags in use in your family, use the **-configInfo** command or see your family administrator. For more information on configurable fields, refer to the *Administrator's Guide*.

The **user -modify** command has these associated attribute flags.

Attribute	Description
-address Name	Specifies where notification messages are sent for this user. For this attribute, specify the user's mail address in the form <code>login@hostname</code> . The address is case-sensitive. For example, <code>-address johnw@VM6OUT.austin.ibm.com</code> .
-area Name	Specifies the area or department of a user.
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: <code>TC_BECOME</code>)
-family Name	The family for which this command is being issued. (Environment variable: <code>TC_FAMILY</code>)
-login Name	TeamConnection user ID.
-name Name	Specifies the user's full name.
-password Name	Specifies the password for the user ID. This attribute is required if the family uses the <code>PASSWORD_ONLY</code> or <code>PASSWORD_OR_HOST</code> and the user has no host list entry security options. A password must be at least one character long and can be up to thirty-one characters long.
+super	Grants TeamConnection superuser privilege to a specified user ID.
-super	Removes TeamConnection superuser privilege for a specified user ID. Specify only one of <code>+super</code> or <code>-super</code> .
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume that you are logged on to host **lab2** with the TeamConnection user ID **jane**. That user ID does not have superuser privilege. You have a host list entry for user ID **admin** (that is, **jane@lab2** is on the host list for **admin**), and that user ID does have superuser privilege. To give the user ID **george** superuser privilege, you must

become user **admin** to issue the command successfully. The following command changes your TeamConnection user ID to **admin** and provides superuser authority to user ID **george**.

```
teamc user -modify george +super -become admin
```

The following command grants superuser privilege to the user with the login name **dorothy**.

```
teamc user -modify dorothy +super
```

The following command modifies information for multiple user IDs. The area specification is changed to **tools07** for the user IDs **jack** and **sally**. This command also removes TeamConnection superuser privilege from both user IDs.

```
teamc user -modify jack sally -area tools07 -super
```

user -recreate Name . . .

Re-creates previously deleted user IDs.

The **user -recreate** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-verbose	TeamConnection displays a confirmation message after you issue the command.

user -view Name . . .

Shows information about specified user IDs.

The **user -view** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-long	Displays detailed information for the specified objects.
-verbose	TeamConnection displays a confirmation message after you issue the command.

User

Examples

The following command displays all the host list entries for user ID **shirley**.

```
teamc user -view shirley -long
```

The following command displays information for specified user IDs.

```
teamc user -view dorothy jack sally
```

Related information

See the following related commands:

- Host

- Report

Chapter 28. Verify

Command summary

Use the **verify** command to verify the resolution of defects or the implementation of features or to reassign ownership of existing *verification records*.

A verification record is created for the originator of a defect or a feature when the defect or feature is accepted and the component that manages the defect or feature has a process that includes the defectVerify or featureVerify subprocesses. Ownership of a verification record is reassigned to the new owner if the defect or feature owner is changed. Defects can be specified as duplicates of features, and features can be specified as duplicates of defects.

Verification records become active when a defect or feature changes from the working state to the verify state. When results have been recorded for all the verification records for a defect or feature, and when all of the work areas of the defect or feature are complete, the defect or feature changes from the verify state to the closed state. If a verification record is rejected, the defect or feature is returned to the working state.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with **`—family testfam`**.

The syntax statements for the **verify** command are:

```
teamc verify -abstain { -defect Name ... -feature Name ... }
                    -family Name [-tester Name] [-become Name] [-verbose]

teamc verify -accept { -defect Name ... -feature Name ... }
                    -family Name [-tester Name] [-become Name] [-verbose]

teamc verify -assign -to Name { -defect Name ...
                    -feature Name ... }
                    -family Name [-tester Name] [-become Name] [-verbose]

teamc verify -reject { -defect Name ... -feature Name ... }
                    -family Name [-tester Name] [-become Name] [-verbose]
```

Command actions

verify -abstain

Indicates that the owner of the verification record abstains from verifying defect resolution or feature implementation.

Verify

The **verify -abstain** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-defect Name	The defect identifier for the object. Either -defect or -feature is required.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-feature Name	The feature identifier for the object. Either -defect or -feature is required.
-tester Name	The user responsible for testing in a given environment.
-verbose	TeamConnection displays a confirmation message after you issue the command.

verify -accept

Indicates successful verification of the defect resolution or feature implementation.

The **verify -accept** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-defect Name	The defect identifier for the object. Either -defect or -feature is required.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-feature Name	The feature identifier for the object. Either -defect or -feature is required.
-tester Name	The user responsible for testing in a given environment.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command indicates that a defect resolution was verified successfully.

```
teamc verify -accept -defect 976
```

verify -assign

Reassigns the ownership of the verification record for a specified defect or feature to another user.

The **verify -assign** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-defect Name	The defect identifier for the object. Either -defect or -feature is required.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-feature Name	The feature identifier for the object. Either -defect or -feature is required.
-tester Name	The user responsible for testing in a given environment.
-to Name	The user ID to which you want to reassign the object. The user ID you specify becomes the owner of the object.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command reassigns ownership of a verification record. If you are a superuser, the current owner of the verification record for feature **899**, or you have VerifyAssign explicit authority, then you can type this command to reassign the verification record to the user ID **lee**.

```
teamc verify -assign -feature 899 -to lee
```

verify -reject

Indicates unsuccessful verification of the defect resolution or feature implementation.

The **verify -reject** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-defect Name	The defect identifier for the object. Either -defect or -feature is required.

Verify

Attribute	Description
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-feature Name	The feature identifier for the object. Either -defect or -feature is required.
-tester Name	The user responsible for testing in a given environment.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command indicates that a defect resolution was not verified successfully, type:

```
teamc verify -reject -defect 1001
```

Related information

See the following related commands:

- Defect
- Feature
- Release
- Workarea

Chapter 29. Workarea

Command summary

A work area monitors the progress of changes to resolve a defect or implement a feature.

Use the **workarea** command to create, modify, reassign, delete, freeze, reconcile, refresh, and view information about a work area, and to change the state of a work area. The states a work area moves through depend on the TeamConnection subprocesses included in the associated release process. A release process can include the track, approval, fix, driver, or test subprocesses, or none at all. For more information on the work area states and their associated subprocesses, refer to the *TeamConnection User's Guide*.

If the track process is turned on for the release, a work area must be associated with a defect or feature. The default name for these work areas is the name of the defect or feature.

You can also create a work area with a specified name. If the release does not have the track process, you must create the work area with a specified name. The user who creates the work area becomes the owner of the work area unless a different owner is specified when the work area is created.

You can also freeze or refresh your work area. You freeze a work area to save the current version of a part or parts in the work area by using the **-freeze** action. The version that you freeze represents a snapshot in time of the parts in your work area. You refresh your work area to ensure that parts in the work area are the most current by using the **-refresh** action. When you refresh a work area, you get the most current view of all the parts in your work area from that source.

Changes associated with the work area are not visible to the release until you commit the work area. If your release does not have the driver process enabled, the TeamConnection product commits the work area implicitly via the **workarea -integrate** command.

If a defect or feature is linked to more than one release, multiple work areas exist for that defect or feature. The work areas required for a defect or feature are created according to sizing records only if the dsr subprocess is in effect. Otherwise, the workarea must be created when the defect or feature changes to the working state. Defect or feature owners can create additional work areas if the defect or feature is in the working state.

To determine the prerequisite and corequisite work areas for a particular work area, use the **workarea -check** action. By default, the **workarea -check** command lists all prerequisite and corequisite areas relative to the current state of the release. Specify the driver name to determine the prerequisite and corequisite work areas relative to an earlier committed driver. You will get a list of all prerequisite and corequisite work areas including any that were integrated after the specified driver was committed.

Command syntax

In the following syntax statements, the first letter of each argument is capitalized, for example `-family Name`. Replace these arguments with a value that is valid for your TeamConnection database. If you want to issue a command for the family named **testfam**, for example, replace `-family Name` with **—family testfam**.

The syntax statements for the **workarea** command are:

```
teamc workarea -assign Name ... -to Name
               -release Name ... -family Name [-become Name]
               [-verbose]

teamc workarea -cancel Name ... -release Name ...
               -family Name [-become Name] [-verbose]

teamc workarea -check Name ... -release Name ... [-noduplicates]
               -family Name [-driver Name] [-become Name] [-verbose]

teamc workarea -check Name ... -release Name ...
               -family Name [-exclude] [-become Name] [-verbose]

teamc workarea -commit Name ... -release Name ...
               -family Name [-become Name] [-verbose]

teamc workarea -complete Name ... -release Name ...
               -family Name [-become Name] [-verbose]

teamc workarea -configInfo -family Name [-become Name] [-raw]

teamc workarea -create -name Name ... -release Name ...
               -family Name [-owner Name] [-target Name] [-become Name]
               [-verbose] *

teamc workarea -create -name Name ... {-defect Name |
               -feature Name} -release Name ... -family Name [-owner Name]
               [-target Name] [-become Name] [-verbose] **

teamc workarea -create {-defect Name ... -feature Name ...}
               -release Name ... -family Name [-owner Name] [-target Name]
               [-become Name] [-verbose] ***

teamc workarea -extract Name... -release Name
               -family Name -root Name [-nokeys]
               [-fmask Octal_number] [-dmask Octal_number]
               [-crlf | -nocrlf] [-become Name] [-verbose]

teamc workarea -export Name -family Name -release Name
               -file Name [-become Name] [-verbose]

teamc workarea -fix Name ... -release Name ...
               -family Name [-become Name] [-verbose]

teamc workarea -freeze Name ... -release Name
               -family Name [-become Name] [-verbose]
```

```
teamc workarea -import Name -family Name -release Name
               -file Name [-makeComponent] [-become Name] [-verbose]
```

```
teamc workarea -integrate Name ... -release Name ...
               -family Name [-force] [-become Name] [-verbose]
```

```
teamc workarea -modify Name ... -target Name
               -release Name ... -family Name [-become Name] [-verbose]
```

```
teamc workarea -reconcile Name ... -release Name ...
               -family Name [-become Name] [-verbose]
```

```
teamc workarea -refresh Name ... -release Name ...
               -family Name [-become Name] [-source Name] [-verbose]
```

```
teamc workarea -test Name ... -release Name ... -family Name
               [-become Name] [-verbose]
```

```
teamc workarea -undo Name ... -release Name ...
               -family Name [-become Name] [-verbose]
```

```
teamc workarea -view Name ... -family Name -release Name ...
               [-long] [-become Name] [-verbose]
```

* Use this syntax to create work areas in non-tracking releases

** This syntax will create named work areas in tracking releases

*** This syntax will default the work area name to be the same as the defect or feature name. Used in tracking releases.

Command actions

workarea -assign Name . . .

Reassigns ownership of specified work areas to another user ID.

The **workarea -assign** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-to Name	The user ID to which you want to reassign the object. The user ID you specify becomes the owner of the object.

Workarea

Attribute	Description
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command reassigns owner responsibility for a work area to the user ID **jack**:

```
teamc workarea -assign 8803 -release 20graphix -to jack
```

workarea -cancel Name . . .

Cancels the specified work areas. This is valid only if no changes have been made to parts referencing the work areas.

If the work area being canceled is a prerequisite for another workarea, this command removes the prerequisite relationship.

The **workarea -cancel** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

workarea -check Name . . .

Displays the prerequisite and corequisite work areas for the specified work areas.

- **full** and **exclude** attributes are optional
- **exclude** and **full** both can not be specified
- **exclude** and **driver** can not be specified
- **full** and **driver** can be specified
- **full** and **no driver** can be specified

The **workarea -check** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-driver Name	The name of the driver to use as a base when determining prerequisite and corequisite work areas relative to an earlier committed driver.
-exclude	Specifies that all given work areas are to be checked as a group. The command output will identify the workarea(s) in the group that have requisites that are not in the group.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-full Name	Specifies that a complete list of requisites be provided. Without this attribute, a given requisite will only be listed once.
-noduplicates	When this flag is used, a requisite workarea will only be listed once. The first reason encountered for its being a requisite will be returned.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command checks whether prerequisite or corequisite work areas exist for a work area relative to a particular driver. All prerequisite and corequisite work areas that exist for the work area for defect **8734** in the **10graphix** release are displayed, including those for part changes committed after the commit date of the driver **9028**.

```
teamc workarea -check 8734 -release 10graphix -driver 9028
```

workarea -commit Name . . .

Changes the state of the specified work areas from integrate to commit, if no part changes were made for the work area. This action is required only if the work area is not committed in a driver.

The associated release's process must include the track subprocess.

An optional attribute may be used to keep a track in the commit state.

Workarea

The **workarea -commit** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

workarea -complete Name . . .

Changes the state of the specified work areas from test to complete if no part changes were made for the work area. No additional state changes can occur after a work area reaches the complete state.

The associated release's process must include the track subprocess.

The **workarea -complete** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

workarea -configInfo

The **workarea -configInfo** action shows configurable field properties for work areas in the specified family. The information is returned in a fixed ASCII table format.

The **workarea -configInfo** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-raw	Displays configurable field information in raw format.

Examples

The following command displays configurable fields information for work areas in family testfam.

```
teamc workarea -configInfo -family testfam
```

The following is sample output from this command.

Attribute Name	DB Column Name	Create/ Required	Type	Own/Orig Modify	Accept/ Required	Driver
testField	testField	yes	testField	yes	no	

workarea -create

The **workarea -create** action creates a work area for the specified release.

This action has three variations which may be used:

- To create **user specified** named work areas in non-tracking releases, use

```
teamc workarea -create -name Name ... -release Name ...
    -family Name [-owner Name] [-target Name] [-become Name]
    [-verbose]
```

- To create **user specified** named work areas in tracking releases, use

```
teamc workarea -create -name Name ... {-defect Name |
    -feature Name} -release Name ... -family Name [-owner Name]
    [-target Name] [-become Name] [-verbose]
```

- To create **automatically defaulted** named work areas in tracking releases, use

```
teamc workarea -create {-defect Name ... -feature Name ...}
    -release Name ... -family Name [-owner Name] [-target Name]
    [-become Name] [-verbose] ***
```

This command creates named work areas whose names **automatically default** to the specified defect/feature name.

Because your family administrator can modify or delete certain configurable fields and create new fields, the attributes for this action might be different from those in your family or might not appear at all. Those listed here represent the shipped default fields only. For a list of the field properties and flags in use in your family, use the **-configInfo** command or see your family administrator. For more information on configurable fields, refer to the *Administrator's Guide*.

Workarea

The **workarea -create** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-defect Name	The defect for which the work area is being created. If you use the -defect attribute, the work area is given the same name as the defect. Do not specify both -defect and -name. Specify either -feature or -defect, but not both.
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-feature Name	The feature for which the work area is being created. If you use the -feature attribute, the work area is given the same name as the defect. Do not specify both -feature and -name. Specify either -feature or -defect, but not both.
-name Name	Specifies a name for the object.
-owner Name	Specifies the user ID of the owner of the object.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-target Name	Specifies a target (such as, a driver or a date) for defect resolution or availability.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command creates a work area named **work1** in release **10graphix**. Release **10graphix** does not have the track process turned on.

```
teamc workarea -create -name work1 -release 10graphix
```

The following command creates work areas for a defect that requires resolution for three releases. This command creates three work areas for defect **8734**: one for each of the three releases and all named **8734**.

```
teamc workarea -create -defect 8734 -release 20graphix 10graphix  
21charting
```

workarea -export Name . . .

The **workarea -export Name . . .** command exports the parts in the work area (or work areas) specified by the *Name* argument from a release to the file name specified in the -file attribute.

This function is useful for exporting information from one family into another. You can export the information from one family into a CDF file and then import the CDF file into another family.

Note: You cannot use the import and export functions to migrate information from CMVC to TeamConnection or from one release of TeamConnection to another. Refer to the *Administrator's Guide* for information on the TeamConnection migration tool.

The **workarea -export** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-file filename	Specifies the name of the file to which the part or parts are to be exported. The information is exported to the file in CDF format.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

workarea -extract Name . . .

Creates a part tree by extracting the parts defined by the specified workareas.

The **workarea -extract** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)

Workarea

Attribute

-crlf

Description

Provides transparent file conversion between UNIX- and Intel-based operating systems. This attribute enables parts shared between UNIX and Intel platforms to have the proper format for the platform to which they are extracted. When parts are extracted to an Intel platform, the -crlf attribute will add carriage-returns, expand tabs, and add end-of-file characters (if the parts do not already have EOF characters). When parts are extracted to a UNIX platform, the -crlf attribute will remove carriage-returns, replace spaces with tabs, and remove end-of-file characters.

If you omit this attribute, no file format conversion is performed.

-dmask Octal_number

Specifies the read, write, and execute directory permissions for extracted parts in octal notation.

The default is 750 (read, write and execute access for directory owner, read and execute access for others in the owner's group, and no access for all other users).



While the OS/2 client accepts **-dmask**, it has no effect.

-family Name

The family for which this command is being issued.

(Environment variable: TC_FAMILY)

-fmask Octal_number

Specifies the read, write, and execute file permissions for extracted parts in octal notation. The default is the file's mode less the write permission for the part owner, others in the owner's group and all others.

-nokeys

Indicates that you do not want to substitute assigned values in place of keywords embedded in the extracted parts.

-nocrlf

Specifies that files of type text will be converted to have a **If** character to indicate the end of a line. Only a linefeed character will be used. Specify only one of -crlf or -nocrlf. The default is -crlf.

-release Name

The release for which this command is being issued.

(Environment variable: TC_RELEASE)

-root Name

Specifies a directory on the client where the extracted part tree is to be placed.

Note: You can mount a directory from another machine to the client machine, so that the client machine will treat that directory as a local directory.

-verbose

TeamConnection displays a confirmation message after you issue the command.

workarea -fix Name . . .

Moves the specified work areas from the integrate state to the fix state.

The associated release's process must include the track subprocess.

An optional attribute may be used to prevent a track from going to integrate when all fix records are complete. Only relevant when level process not being used.

The **workarea -fix** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

Assume that the work area **8734** and the release specified by your TC_RELEASE environment variable is not a member of a driver. The following command changes the work area from integrate state to fix state. If a work area is in a driver, you must delete it from the driver before you can move it back to the fix state.

```
teamc workarea -fix 8734
```

workarea -freeze Name . . .

Saves the state of a work area.

The **workarea -freeze** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)

Workarea

Attribute	Description
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command freezes work area **work1** in release **10graphix**

```
teamc workarea -freeze work1 -release 10graphix
```

workarea -import Name . . .

The `workarea -import Name . . .` command imports the parts in the work area (or work areas) specified by the *Name* argument from the file name specified in the `-file` attribute to a release.

This function is useful for exporting information from one family into another. You can export the information from one family into a CDF file and then import the CDF file into another family.

Note: You cannot use the import and export functions to migrate information from CMVC to TeamConnection or from one release of TeamConnection to another. Refer to the *Administrator's Guide* for information on the TeamConnection migration tool.

The **workarea -import** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-file filename	Specifies the name of the file from which the work area is to be imported.
-makeComponent	If the component defined in the file from which the work area is being imported does not already exist, this attribute enables TeamConnection to create the component. If the component does not exist and this attribute is not included with the command, then the import operation fails.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

workarea -integrate Name . . .

Changes the state of the specified work areas from fix to the next valid state governed by the release's process. For a release whose process includes the driver subprocess, this action is valid only if no part changes were made for the work area and the work area is not committed in a driver.

The **workarea -integrate** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-force	Integrates the work area even if all fix records are not complete.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command integrates work area **work1** in release **10graphix**.

```
teamc workarea -integrate work1 -release 10graphix
```

workarea -modify Name . . .

Modifies the target field for the specified work areas.

Because your family administrator can modify or delete certain configurable fields and create new fields, the attributes for this action might be different from those in your family or might not appear at all. Those listed here represent the shipped default fields only. For a list of the field properties and flags in use in your family, use the **-configInfo** command or see your family administrator. For more information on configurable fields, refer to the *Administrator's Guide*.

The **workarea -modify** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)

Workarea

Attribute	Description
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-target Name	Destination of the copy.
-verbose	TeamConnection displays a confirmation message after you issue the command.

workarea -reconcile Name . . .

Resolves collisions in the specified work areas using an automatic merge program. The specified work area must be in the fix state. Merged parts are checked into the work area using the **-force** flag to force a break between common parts.

The parts with active collision records are checked out and an automatic merge program is run to merge changes in the local and alternate versions of the part relative to their common ancestor. The resulting part is checked back in and the collision record is marked as reconciled.

If the automatic merge program cannot merge all differences in the two versions of the part relative to their common ancestor, a warning message is written and the part is not changed. The user can use the **part -reconcile** command to manually merge these parts.

If a collision involves a binary, renamed, or deleted part, a warning message is written and no action is taken on the part or collision record.

The **workarea -reconcile** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command reconciles collisions in work areas 212 and 213 of release R1.

```
teamc workarea -reconcile 212 213 -release R1
```

workarea -refresh Name . . .

Refreshes the contents of one work area with another work area, driver, or release. This command also freezes the work area.

The **workarea -refresh** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-source Name	Specifies the name of the work area, driver, or release with the work area is to be refreshed.
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command refreshes work area **work1** with respect to what is currently in release **10graphix**.

```
teamc workarea -refresh work1 -release 10graphix
```

workarea -test Name . . .

Changes the state of the specified work areas from commit to test. This action is required only if the work area is not committed in a driver. Usually, this change occurs when you issue the **driver -complete** command.

The associated release's process must include the track subprocess.

An optional attribute may be used to prevent a track from going to complete when all fix records are complete. Only relevant when level process not being used.

Workarea

The **workarea -test** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

workarea -undo Name . . .

The **workarea -undo Name . . .** action reverts a work area back to the last frozen version within a specified release. If the tracking subprocess is turned on, the work area must be in the fix state.

To revert a work area back to its last frozen state after a **workarea -refresh Name . . .** action, you need to execute the **workarea -undo Name . . .** action twice. The **workarea -refresh Name . . .** action actually freezes the work area twice: once before the refresh and once after the refresh. Freezing the work area before a refresh ensures that you can roll back the work area if an error occurs during the refresh action. To return the work area to its original state before the refresh, you need to undo both freezes.

If you undo the first version of a work area, that work area is deleted.

The **workarea -undo** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

workarea -view Name . . .

Shows all information for the specified work areas.

The **workarea -view** command has these associated attribute flags.

Attribute	Description
-become Name	The user ID you want to issue TeamConnection commands from, if the user ID differs from your <i>login</i> . You assume the access authority of the user ID you specify. (Environment variable: TC_BECOME)
-family Name	The family for which this command is being issued. (Environment variable: TC_FAMILY)
-long	Displays detailed information for the specified objects.
-release Name	The release for which this command is being issued. (Environment variable: TC_RELEASE)
-verbose	TeamConnection displays a confirmation message after you issue the command.

Examples

The following command displays information about a specified work area associated with the release set in the TC_RELEASE environment variable, type:

```
teamc workarea -view 8667
```

Related information

See the following related commands:

Approval	Fix
Collision	Release
Coreq	Report
Defect	Size
Driver	Test
Feature	

For additional information on using the **automerge** tool, refer to “Chapter 30. AutoMerge” on page 267.

Chapter 30. AutoMerge

Automerge is a tool used for automatically merging files or directories of files. (The term "file" can be substituted with the term "directory".) Files needed for this process:

- **Master** file - The common ancestor for the three files.
- **Maintenance** file - The file that is currently being worked on.
- **Target** file - The differences between the files will be stored here, unless specified otherwise.
- **Output** file - An optional file that is primed with the contents of the target file. If specified, changes are made to this file and the target file is left unchanged.

When a directory merge takes place, a list of applicable files is generated from the master directory. Automerge uses the generated list to find the same file(s) in the target and maintenance directories, so it can perform the merge. If automerge cannot find a listed file in the other directories, the merge will not occur for that file. It will move onto the next file in the master directory list and attempt the same thing.

During a merge, the three files are compared line by line. The types of action the automerge program may perform are:

- "none" - no changes are necessary.
- "merge" - automerge will properly merge the change into the target file.
- "conflict" - automerge will look at the user's preference for handling conflicts.

The following lists some possible scenarios the automerge program may encounter and the type of action it may perform during the line by line comparison of the files.

Scenario	Action
no change in Maint file, code added to Target file	none
code added to Maint file, changed in Target file	conflict
code changed in Maint file, changed in Target file	conflict
code changed in Maint file, deleted in Target file	conflict
code deleted in Maint file, deleted in Target file	none
code changed in Maint file, no change in Target file	merge
code deleted in Maint file, changed in Target file	conflict
code added to Maint file, same in Target file	none
code deleted in Maint file, no change in Target file	merge
no change in Maint file, code deleted in Target file	none

The following presents some examples of the three types of actions:

Master	Maint	Target
line 1	line 1	line 1
line 2	line 1a	line 1a
line 3	line 2	line 2

In this case, line 1a was added to both the maintenance file and the target file. Since the extra line is the same in both files, no action is required.

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Master	Maint	Target
line 1	line 1	line 1
line 2	line 1a	line 2
line 3	line 2	line 3

In this case, line 1a was added to the maintenance file, but does not appear anywhere else. Automerge will then merge this line into the target file.

Master	Maint	Target
line 1	line 1	line 1
line 2	line 1a	line 1b
line 3	line 2	line 2

For the second entry, the maintenance file and the target file have different lines. This causes a conflict. The user can choose how to resolve this conflict by using the **-resolution** parameter. If the user doesn't want to handle conflicts, then the **-resolution** parameter can be set to 'none'.

To summarize the automerge actions:

- If a difference is caused by the changes in the Master file, then nothing will be done.
- If a difference is caused by changes in the Maintenance file, then the changes will be merged into the Target file.
- If a difference is caused by changes in the Target file, then nothing will be done.
- If a difference is caused by changes in more than one file, then it will be considered a conflict.

Command summary

The **master <file | directory>**, **maintenance <file | directory>**, and **target <file | directory>** are required parameters and must be in sequential order. The remaining parameters are optional, and can be listed in any order following the required parameters.

The following is an example of the syntax for a **file** merge:

```
automrg <master file> <maintenance file> <target file> [-out[put]
<file name>] [-re[place]] [-ignoreco[lumns]
<list of ranges>] [ignoreb[links] <l | t | lt |
a>] [-r[esolution] <maint | both | target |
manual | none>] [-log[file] <file name>]
[-v[erbose]] [-a[ppend]] [-q[uiet]]
[-ignoreca[se]]
```

where:

- **<master file>** is the master file or the common ancestor to the maintenance and target files.
- **<maintenance file>** is the maintenance copy of the file.
- **<target file>** is the target copy of the file. The changes will be made here.

The following is an example of the syntax for a **directory** merge:

```
automrg <master dir> <maintenance dir> <target dir> [-out[put]
<dir name>] [-re[place]] [-f[iles] <file spec>]
[-ignoreco[lumns] <list of ranges to ignore>] [ignoreb[links]
```



```
<l | t | lt | a>] [-r[esolution] <maint | both |
target | manual | none>] [-log[file] <file name>]
[-v[erbose]] [-a[ppend]] [-q[uiet]]
[-ignoreca[se]]
```

where:

- **<master dir>** is the directory containing the master files.
- **<maintenance dir>** is the directory containing the maintenance files.
- **<target dir>** is the directory containing the target files.

Parameters

The following lists some parameters that may be used with the **automerge** command.

- **-f[iles] <file spec>**

File specifications of the file(s) to be merged when specifying a directory. Supports wildcards. The following options can be used with this parameter:

- file name and extension (e.g., Shapes.c)
- file name with any extension (e.g., Shapes.*)
- extension with any file name (e.g., *.c)
- all files in the directory (i.e., *). This is the default choice.

Multiple specifications can be used, with a single space separating each entry.

Note: In a Unix environment, a slash(\) must precede every asterisk used (i.e., Shapes.*, *.c, *).

- **-out[put] <file name | dir name>**

File where the changes are placed. The target file will not be changed.

- **-re[place]**

The flag is only valid when the -output parameter is specified. If the output file already exists, it will be overwritten. If the -replace flag is not set and the output file already exists, then the merge will not take place, and an error message will be sent to the error stream.

- **-ignoreco[lumns] <list of ranges>**

List of column ranges to be ignored when performing the compare. Every entry must have the format: <startColumn,endColumn>, with no spaces within an entry. Each entry must be separated by one or more blanks. If the starting and ending column are the same (i.e., only one column is being ignored), that entry can be written as: <Column>.

- **-ignoreb[anks] <l | t | lt | a>**

Blank spaces and tabs are ignored when the files are compared. The user can specify one of the following options for ignoring blanks:

- l - leading blanks are ignored.
- t - trailing blanks are ignored.
- lt - leading and trailing blanks are ignored.
- a - all blanks are ignored.

- **-r[esolution] <maint | both | target | manual | none>**

Preference for resolving conflicts. When a conflict is encountered, it can be resolved by one of five options:

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- maint - replaces the code in the target file (or the output file, if specified) with the code in the maintenance file.
- both - copies the code from the maintenance file to the target file (or output file). Both maintenance and target differences will reside in the target file.
- target - leaves the code in the target file (default choice).
- manual - starts the Visual Merge GUI to show the conflict differences.
- none - conflicts are not handled.
- -log[file] <file name>
File where program status output is logged. If not used, runtime status messages will be directed to stdout.
- -v[erbose]
Provide a more detailed logfile by including the output from the diff engine. This shows the line numbers of all of the differences.
- -a[ppend]
Append status output to the logfile.
- -q[uiet]
Suppress all output, including the logfile. This flag is mutually exclusive to the -logfile, -append, and -verbose parameters.
- -ignoreca[se]
Case is ignored when the files are compared.

Examples

Following are some examples of using the automerge syntax:

- In this example, master.txt is the master file, maint.txt is the maintenance file, and target.txt is the target file. Since the -output parameter is specified, the target file (target.txt) remains unchanged, and the merged file is out.txt. Since the -resolution parameter is not specified, the default is target.

```
automrg master.txt maint.txt target.txt -output out.txt
```
- In this example, the user has specified that conflicts will be handled manually. This will bring up the Visual Merge window. Since the -logfile parameter is specified, all output messages will be directed to log.txt.

```
automrg master.txt maint.txt target.txt -resolution manual -logfile log.txt
```
- In this example, the user has specified that leading and trailing blanks will be ignored. Also, columns 2-5, 23-30, and 35 will be ignored. All output is suppressed through the use of the -quiet flag. Since the -resolution parameter is set to 'none', no merge will take place if any conflicts arise.

```
automrg master.txt maint.txt target.txt -ignoreblanks lt -ignorecolumns  
2,5 23,30 35 -resolution none -quiet
```
- This example uses a directory merge in a non-Unix environment. Files with a .java or .h extension (and in all three directories) will be included in the merge. All output messages are appended to the logfile log.txt, and the -verbose flag will show a more detailed run summary. Unix users will need to type the file specs as: *.java *.h.

```
automrg /usr/master /usr/maint /usr/target -files *.java *.h -append  
-logfile log.txt -verbose
```

Program Status

Throughout the program, the user is supplied with helpful messages, should an error occur. At the end of the program, information about the status of the run is displayed. This status will appear on the screen, or the user can specify an output file using the `-logfile` parameter. The `-verbose` flag will show the actual output from the diff engine. Typically, the output of this option is lengthy (especially with directory merges).

Here is an example of the logfile for a single file merge:

```
Master file: master.txt
Maintenance file: maint.txt
Target file: target.txt
Output file: out.txt

completed at: Thu Oct 02 15:18:36 CDT 1997
differences encountered: 4
conflicts encountered: 1
conflicts resolved: 0
conflicts unresolved: 1
  line numbers: 7
*****
```

Here is an example of the logfile for a directory merge:

```
Master file: /master/f1.txt
Maintenance file: /maint/f1.txt
Target file: /target/f1.txt

completed at: Thu Oct 02 15:20:39 CDT 1997
differences encountered: 7
conflicts encountered: 3
conflicts resolved: 3
conflicts unresolved: 0

*****
Master file: /master/f2.txt
Maintenance file: /maint/f2.txt
Target file: /target/f2.txt

completed at: Thu Oct 02 15:20:40 CDT 1997
differences encountered: 5
conflicts encountered: 2
conflicts resolved: 0
conflicts unresolved: 2
  line numbers: 9 11-12
*****
# of files merged: 2
```

The following are Return Codes which may be produced by the **automrg**:

- 0 - all differences merged and no conflicts
- 1 - all non-conflict differences merged, and all conflicts resolved
- 2 - all non-conflict differences merged, and all conflicts passed to Visual Merge
- 3 - directory merge; check run status of each set of files for results.
- 10 - all non-conflict differences merged, and error(s) resolving conflicts
- 20 - merge failure
- 89 - program error

AutoMerge

Appendix. Querying the TeamConnection database

You can write queries against the TeamConnection database from the following interfaces:

- The **Edit Task List** window
- The **Query** field on the filter windows
- The TeamConnection command window
- An operating system command line prompt

Queries written in these environments issue a **report -view** command to query the TeamConnection database for information about TeamConnection objects. You specify select criteria for the query using the **-where** attribute. This appendix provides the names of views you can request reports for. These views represent tables in the TeamConnection database. The field names provided for each view represent column names.

Note: If you do not specify selection criteria, such as the fields and the search conditions you want to use, the report query selects all entries for the table or view indicated that the *user has authority to access*. This command does not show any objects in components that you are not authorized to access. To query the database for parts whose base names begin with prt, for example, you write a query against the **baseName** column of the **PartView** table. The following is an example:

```
teamc report -view PartView -release tcid20 -where "baseName like 'prt%'"
```

Constructing queries

You construct queries differently in different interfaces. The following shows how to construct the query in the previous example from each interface:

- **Edit Task List** window:
 1. Select the **Query** radio button
 2. Select **Parts** from the Query list box
 3. In the **Task** field, type **baseName like 'prt%'**
 4. In the **Release** field, type **tcid20**
- **Query** field on the Parts filter window:
 1. In the **Release** field, type **tcid20**
 2. In the **Query** field, type **baseName like 'prt%'**
- **Command Window** or command line prompt:

Type the following command:

```
teamc report -view compView -where "name like 'comp%'"
```

The `teamc report -general` command displays a "roll your own" type of report. You can tailor your report to extract information not readily available using the standard views and reports. Use this command to specify the fields you wish to view. This report is in raw format with each field separated by the "|" character.

"Views and report output" on page 275 lists all the field names that are in each TeamConnection view.

Rules for defining queries

TeamConnection queries follow the syntax of SQL queries, except for the addition of `teamc report -view` at the beginning of the command. The following are basic rules for defining queries:

- View and field names are not case-sensitive. Any of the following retrieves information from the `baseName` field: `baseName`, `basename`, `BASENAME`.
- You can abbreviate view names to their shortest unique string. `AccessDownView`, for example, can be abbreviated to `AccessD`. You cannot abbreviate field names.
- When you specify values for date fields, use the format `yyyy/mm/dd hh:mm:ss`.
- When you search for specific field values, you must type the value of the field exactly as it exists in the database. The database values are case sensitive.
- Use keywords such as **and**, **or**, and **not** to enhance search conditions.
- Enclose values for character fields in single quotation marks.
- Use the following relational operators (also called *comparison operators*) to describe a relationship between two values:

Table 8. Relational operators

Operators	The search is based on the following:
=	Only one item you type.
<>	All items except for the one item you type.
>	An alphanumeric string greater than the one you type.
>=	An alphanumeric string greater than or equal to the one you type.
<	An alphanumeric string less than the one you type.
<=	An alphanumeric string less than or equal to the one you type.
in	Items that you type.
not in	All items except for those you type.
like	<p>The character string you type. You can use the following:</p> <ul style="list-style-type: none">– The <code>%</code> wildcard character to match 0 or more characters– The <code>_</code> wildcard character to match exactly one character. <p>If the string you are searching for contains an underscore or percent character, as in the file name <code>prt_new.txt</code>, for example, using the like command you can use the escape or translate function to indicate that the underscore or percent character is to be taken literally.</p> <ul style="list-style-type: none">– Escape - The following example identifies <code>\</code> as the escape character and selects all part names starting with prt_: <pre>teamc report -view PartView -release tcid20 -where "baseName like 'prt\'_\%\' escape \'\'"</pre>– Translate - First you need to find a string that does not appear in the set of names that you try to find. Then use the translate function to identify that string as representing the underscore or percent character. The following example identifies <code>#</code> as the underscore character and selects all part names starting with prt_: <pre>teamc report -view PartView -release tcid20 -where "translate(baseName,'#','_') like 'prt#%'"</pre>
between	The items falling between the two values you type.
is null	The items that have null values for the associated field.

Table 8. Relational operators (continued)

Operators	The search is based on the following:
is not null	The items that have values for the associated field.

Note: Selections in reports for date fields using `<=` or `>=` return the same information as if you entered `<` or `>`. This is because the date data type consists of a date and a time. Use the **like** operator with the `<` or `>` operators to return `<=` or `>=` information.

Views and report output

The remaining sections in this appendix list all the field names that are in each TeamConnection view. The following explains how this information is presented:

- View names that you can use with the report `-view` command are marked with a double asterisk symbol (**). View names without a double asterisk are available only as subselect criteria. `CompMemberView`, for example, can be used only as subselect criteria. You include subselect criteria by writing a nested select statement with your query. Nested select statements are included in the `-where` argument of the report `-view` commands or on the **Query** fields of the Edit Task List and filter windows.
- Field names that appear in italics indicate that you can use them as search criteria, but they do not provide data output.
- Defined configurable fields are added to the end of the report output. They appear in the same order in which they are defined in the `config.ld` file.

If your family administrator configures the database fields, the field names in your database may differ from the field names in the following tables.

The actual size limit for many of the character attributes listed in these tables is smaller than the specified limit. For example, the length of the `login` field in the Users table is limited to 31 bytes, but you can actually use only 15 characters. The fields affected are usually related to names, such as `userLogin` and `releaseName`.

AccessDownView**

Access list entries including those of all child components

Field name (length)	Data type	Description
<i>compId</i>	integer	Database ID of the component where access is granted or restricted
<i>userId</i>	integer	Database ID of the user who owns the access authority
<i>authorityName</i> (31)	char	Access authority group name
<i>authorityType</i> (15)	char	Access authority type (granted or restricted)
<i>compName</i> (63)	char	Component name
<i>childCompName</i> (63)	char	Child component name
<i>userLogin</i> (31)	char	User's TeamConnection user ID
<i>userName</i> (63)	char	User's full name
<i>userArea</i> (31)	char	User's area or department

Raw output:

`childCompName|userLogin|userName|userArea|authorityName|authorityType`

AccessFastView

Low level actions granted to users at a component

Field name (length)	Data type	Description
<i>userId</i>	integer	Database ID of the user who owns the access authority
<i>action</i> (15)	char	TeamConnection action name
<i>authorityType</i> (15)	char	Access authority type (granted or restricted)
<i>compId</i>	integer	Database ID of the component where access is granted or restricted

AccessNInheritView

Low level actions restricted to users at a component

Field name (length)	Data type	Description
<i>userId</i>	integer	Database ID of the user who owns the access authority
<i>action</i> (15)	char	TeamConnection action name
<i>authorityType</i> (15)	char	Access authority type (granted or restricted)
<i>compId</i>	integer	Database ID of the component where access is granted or restricted

AccessTable

Component access list table

Field name (length)	Data type	Description
<i>compId</i>	integer	Database ID of the component where access is granted or restricted
<i>userId</i>	integer	Database ID of the user who owns the access authority
<i>authorityName</i> (31)	char	Access authority group name
<i>authorityType</i> (15)	char	Access authority type (granted or restricted)

AccessUpView

Access list entries including those of all parent components

Field name (length)	Data type	Description
<i>compId</i>	integer	Database ID of the component where access is granted or restricted
<i>userId</i>	integer	Database ID of the user who owns the access authority
<i>authorityName</i> (31)	char	Access authority group name
<i>authorityType</i> (15)	char	Access authority type (granted or restricted)
<i>compName</i> (63)	char	Component name
<i>parentName</i> (63)	char	Parent component name
<i>userLogin</i> (31)	char	User's TeamConnection user ID

Field name (length)	Data type	Description
<i>userName</i> (63)	char	User's full name
<i>userArea</i> (31)	char	User's area or department

AccessView**

Component access list entries

Field name (length)	Data type	Description
<i>compId</i>	integer	Database ID of the component where access is granted or restricted
<i>userId</i>	integer	Database ID of the user who owns the access authority
<i>authorityName</i> (31)	char	Access authority group name
<i>authorityType</i> (15)	char	Access authority type (granted or restricted)
<i>compName</i> (63)	char	Component name
<i>userLogin</i> (31)	char	User's TeamConnection user ID
<i>userName</i> (63)	char	User's full name
<i>userArea</i> (31)	char	User's area or department

Raw output:

compName|*userLogin*|*userName*|*userArea*|*authorityName*|*authorityType*

Approvals

Work area approval records table

Field name (length)	Data type	Description
<i>workAreaId</i>	integer	Database ID of the work area for the approval record
<i>userId</i>	integer	Database ID of the user who owns the approval record
<i>state</i> (15)	char	Approval record state
<i>addDate</i> (25)	char	Date created
<i>lastUpdate</i> (25)	char	Date of last update

ApprovalView**

Work area approval records

Field name (length)	Data type	Description
<i>workAreaId</i>	integer	Database ID of the work area for the approval record
<i>userId</i>	integer	Database ID of the user who owns the approval record
<i>state</i> (15)	char	Approval record state
<i>addDate</i> (25)	char	Date created
<i>lastUpdate</i> (25)	char	Date of last update
<i>releaseName</i> (31)	char	Release name
<i>defectPrefix</i> (31)	char	Defect or feature prefix
<i>defectName</i> (31)	char	Defect or feature identifier
<i>defectReference</i> (31)	char	Defect or feature reference

Field name (length)	Data type	Description
defectAbstract (127)	char	Defect or feature abstract
defectType (7)	char	Defect or feature
userName (63)	char	Approver's full name
userLogin (31)	char	Approver's TeamConnection user ID
userArea (31)	char	Approver's area or department
workAreaName (15)	char	Name of work area

Raw output:

workAreaName|defectPrefix|defectName|releaseName|userLogin|userName|userArea|state|addDate|lastUpdate|defectReference|defectAbstract|defectType

Approvers

Release approver list table

Field name (length)	Data type	Description
<i>releaseId</i>	integer	Database ID of the release
<i>userId</i>	integer	Database ID of the user

ApproverView**

Release approver list entries

Field name (length)	Data type	Description
<i>releaseId</i>	integer	Database ID of the release associated with the approver list
<i>userId</i>	integer	Database ID of the user who is the approver
releaseName (31)	char	Release name
userLogin (31)	char	Approver's TeamConnection user ID
userName (63)	char	Approver's full name
userArea (31)	char	Approver's area or department

Raw output:

releaseName|userLogin|userName|userArea

Authority**

Authority table

Field name (length)	Data type	Description
name (31)	char	Access authority group name
action (15)	char	Low-level action name

BchangeView**

Part changes (Tree view information)

Note: This view is only available in raw output.

Field name (length)	Data type	Description
workAreaName	char	Name of the workarea

Field name (length)	Data type	Description
partType (7)	char	Type of the part
compName (63)	char	Component name of the part where the change is included
driverName (31)	char	Name of the driver where the change is included
<i>userId</i>	integer	Database ID of the user who made the change to the part
versionSID (47)	char	Version name of the changed part
pathName (195)	char	Part's full path name
releaseName (31)	char	Release name
defectType (7)	char	Defect or feature
<i>defectAbstract</i> (127)	char	Defect or feature abstract
<i>defectReference</i> (31)	char	Defect or feature reference
defectName (31)	char	Defect or feature identifier
<i>defectPrefix</i> (31)	char	Defect or feature prefix
<i>changeType</i> (8)	char	Type of part change
<i>driverId</i>	integer	Database ID of the driver where the change is included and committed
<i>compVersionId</i>	integer	Database ID of the component's version
<i>versionId</i>	integer	Database ID of the part's version
<i>partId</i>	integer	Database ID of the part
<i>fileId</i>	integer	Database ID of the file
<i>workAreaId</i>	integer	Database ID of the work area for this part change
<i>pathId</i>	integer	Database ID of the part's path name

Raw output:

workareaName|defectName|compName|pathName|versionSID|defectType|releaseName|
driverName|partType

BcompView**

Component properties

Note: This view is only available in raw output.

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the component
name (63)	char	Component name
<i>userId</i>	integer	Database ID of the user who owns the component
description (127)	char	Component description
addDate (25)	char	Date created
dropDate (25)	char	Date deleted
lastUpdate (25)	char	Date of last update
compProcess (31)	char	Component process name
featureDSR (3)	char	Feature design, size, and review subprocess? (yes or no)
featureVerify (3)	char	Feature verify subprocess? (yes or no)
defectDSR (3)	char	Defect design, size, and review subprocess? (yes or no)
defectVerify (3)	char	Defect verify subprocess? (yes or no)
userLogin (31)	char	Component owner's TeamConnection user ID
userName (63)	char	Component owner's full name

Field name (length)	Data type	Description
userArea (31)	char	Component owner's area or department

Raw output:

hierarchy|name

BpartView**

Part properties

Note: This view is only available in raw output.

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of this part version
<i>fileId</i>	integer	Database ID of the file
<i>partId</i>	integer	Database ID of the part
<i>workAreaId</i>	integer	Database ID of the work area
<i>builderId</i>	integer	Database ID of the builder
<i>parserId</i>	integer	Database ID of the parser
<i>nuPathId</i>	integer	Database ID of the path name
addDate (25)	char	Date created
dropDate (25)	char	Date deleted
nuAddDate (25)	char	New creation date
nuDropDate (25)	char	New deletion date
lastUpdate (25)	char	Date of last update
baseName (127)	char	Part base name
pathName (195)	char	Part path name
nuPathName (195)	char	Pending new part path name
releaseName (31)	char	Release name
<i>releaseId</i>	integer	
fileType (7)	char	Type of the file, as it exists outside TeamConnection (text or binary)
partType (7)	char	Type of the part
userLogin (31)	char	TeamConnection user ID who locked or checked out the part
fmode (4)	char	File mode
compName (63)	char	Component name
currentVersion (8)	char	Name of the current part version
committedVersion	char	Last committed part version name
workAreaName (14)	char	Name of current work area
changeType (8)	char	The type of change to the part. A value of bulk means the part's content has changed; attrib means the part's attributes have changed; and none means the part has not changed.
builderName (63)	char	Name of the part's builder
parserName (63)	char	Name of the part's parser
buildStatus (15)	char	Status of the build
parameters (1024)	char	Build parameters
<i>sourceId</i>	integer	Database ID of the part's source. Defines where the part was derived from and is used to identify common parts.

Field name (length)	Data type	Description
temporary (3)	char	Identifies parts that are deleted after a build, because they are no longer necessary.
workAreaChange (8)	char	The type of change to the part in the work area. A value of bulk means the part's content has changed; attributes means the part's attributes have changes; all means both the contents and attributes have changed; and none means the part has not changed.
translation (31)	char	Relationship of the part to the translation process.
transState (15)	char	Translation state of the part.
restricted (3)	char	Is the part restricted in this release? (yes or no)

Raw output:

```

hierarchy|baseName|releaseName|compName|committedVersion|addDate|dropDate|lastUpdate|
pathName|currentVersion|nuAddDate|nuDropDate|nuPathName|userLogin|fmode|
fileType|changeType|workAreaName|partType|temporary|builderName|
parserName|parentName|hasChildren|buildStatus|typeOfRelation|parameters|
workAreaChange|restricted|translation|transState

```

Builders

Builder properties table

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the builder
<i>sequenceId</i>	integer	
<i>releaseId</i>	integer	Database ID of the release associated with the builder
<i>name</i> (63)	char	Builder name
<i>parameters</i> (255)	char	Builder parameters
<i>rebuildTimeStamp</i> (25)	char	Time stamp of most recent update to this builder
<i>buildScript</i> (259)	char	Name you want the build script extracted as
<i>goodRCEvaluator</i> (5)	char	Boolean expression to determine successful build event
<i>RCCondition</i> (9)	char	Return code condition
<i>rcValue</i> (9)	char	Return code value
<i>bulkType</i> (8)	char	Type of data stored (binary, text, or none)
<i>environment</i> (15)	char	Environment this builder supports
<i>timeout</i> (9)	integer	Number of minutes allowed to build until timeout detected
<i>billOfMaterials</i>	integer	N/A
<i>setupOptions</i>	char	Processor options

BuilderView**

Builder properties

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the builder

Field name (length)	Data type	Description
<i>releaseId</i>	integer	Database ID of the release associated with the builder
name (63)	char	Builder name
releaseName (31)	char	Release name
parameters (255)	char	Builder parameters
rebuildTimeStamp (25)	char	Time stamp of most recent update to this builder
buildScript (259)	char	Name you want build script extracted as
RCCondition (2)	char	Return code condition
rcValue (9)	char	Return code value
bulkType (8)	char	Type of data stored (binary, text, or none)
environment (15)	char	Environment this builder supports
timeout (9)	integer	Number of minutes allowed to build until timeout detected

Raw output:

```
name|releaseName|parameters|rebuildTimeStamp|buildScript|rcCondition|
bulkType|rcValue|environment|timeout
```

Cfgcomproc**

Configurable process — component table

Field name (length)	Data type	Description
name (31)	char	Component process name
config (15)	char	Subprocess name

Raw output:

```
name|config
```

Cfgrelproc**

Configurable process — release table

Field name (length)	Data type	Description
name (31)	char	Release process name
config (15)	char	Subprocess name

Raw output:

```
name|config
```

ChangeExtractView

Part changes

Field name (length)	Data type	Description
<i>pathId</i>	integer	Database ID of the part's path name
<i>workAreaId</i>	integer	Database ID of the work area for this part change
<i>fileId</i>	integer	Database ID of the file
<i>partId</i>	integer	Database ID of the part

Field name (length)	Data type	Description
<i>versionId</i>	integer	Database ID of the part's version
<i>compVersionId</i>	integer	Database ID of the component's version
<i>driverId</i>	integer	Database ID of the driver where the change is included and committed
<i>changeType</i> (8)	char	Type of part change
<i>pathName</i> (195)	char	Part's full path name
<i>partSourceId</i>	integer	Database ID of the part's source. Defines where the part is derived from and is used to identify common parts
<i>versionSID</i> (47)	char	Version name of the changed part
<i>partType</i> (7)	char	Type of the part
<i>workAreaState</i>	char	State of the work area

ChangeView**

Part changes, including defect and feature information

Field name (length)	Data type	Description
<i>pathId</i>	integer	Database ID of the part's path name
<i>workAreaId</i>	integer	Database ID of the work area for this part change
<i>fileId</i>	integer	Database ID of the file
<i>partId</i>	integer	Database ID of the part
<i>versionId</i>	integer	Database ID of the part's version
<i>compVersionId</i>	integer	Database ID of the component's version
<i>driverId</i>	integer	Database ID of the driver where the change is included and committed
<i>changeType</i> (8)	char	Type of part change
<i>defectPrefix</i> (31)	char	Defect or feature prefix
<i>defectName</i> (31)	char	Defect or feature identifier
<i>defectReference</i> (31)	char	Defect or feature reference
<i>defectAbstract</i> (127)	char	Defect or feature abstract
<i>defectType</i> (7)	char	Defect or feature
<i>releaseName</i> (31)	char	Release name
<i>pathName</i> (195)	char	Part's full path name
<i>versionSID</i> (47)	char	Version name of the changed part
<i>userId</i>	integer	Database ID of the user who made the change to the part
<i>driverName</i> (31)	char	Name of the driver where the change is included
<i>partType</i> (7)	char	Type of the part
<i>committedVersion</i>	char	Last committed part version name
<i>workAreaName</i> (31)	char	Name of the current work area
<i>workAreaState</i>	char	State of the work area

Raw output:

```
releaseName|workAreaName|defectName|driverName|versionSID|pathName|type|
partType|defectReference|defectAbstract|defectPrefix|userLogin|userName|
userArea
```

Changes

Part changes

Field name (length)	Data type	Description
<i>pathId</i>	integer	Database ID of the part's path name
<i>workAreaId</i>	integer	Database ID of the work area for this part change
<i>fileId</i>	integer	Database ID of the file
<i>partId</i>	integer	Database ID of the part
<i>versionId</i>	integer	Database ID of the part's version SID
<i>compVersionId</i>	integer	Database ID of the component's version
<i>driverId</i>	integer	Database ID of the driver where the change is included and converted
<i>changeType</i> (8)	char	Type of part change
<i>partType</i> (7)	char	Type of the part
<i>userId</i>	integer	Database ID of the user who made the part changes
<i>workAreaState</i>	char	State of the work area

Collectors

Collectors table

Field name (length)	Data type	Description
<i>id</i>	integer	
<i>typeName</i>	char	

Collisions

Part collision records table

Field name (length)	Data type	Description
<i>fileId</i>	integer	Database ID of the part for this collision
<i>workAreaId</i>	integer	Database ID of the work area for this collision
<i>altWorkAreaId</i>	integer	Database ID of the alternate work area for this collision
<i>partType</i> (7)	char	Type of the part
<i>state</i> (9)	char	State of the collision record
<i>addDate</i> (7)	char	Date created
<i>lastUpdate</i> (8)	char	Date of last update
<i>localpartVersionId</i>	integer	ID of the local part name
<i>alternatepartVersionId</i>	integer	ID of the alternate part name
<i>resolvedpartVersionId</i>	integer	ID of the resolved part name

CollisionView**

Part collision records

Field name (length)	Data type	Description
<i>fileId</i>	integer	Database ID of the part for this collision

Field name (length)	Data type	Description
<i>workAreaId</i>	integer	Database ID of the work area for this collision
<i>altWorkAreaId</i>	integer	Database ID of the alternate work area for this collision
<i>state</i> (9)	char	State of the collision record
<i>addDate</i> (25)	char	Date created
<i>lastUpdate</i> (25)	char	Date of last update
<i>localVersion</i> (31)	char	Version in current work area
<i>alternateVersion</i> (31)	char	Version that causes the collision
<i>workAreaName</i> (31)	char	Name of the work area
<i>releaseName</i> (31)	char	Name of the release
<i>relProcess</i> (31)	char	Name of the release process
<i>pathName</i> (195)	char	Part's full path name
<i>partType</i> (63)	char	Type of the part
<i>localSourceId</i>	integer	Source ID of the version in the current work area
<i>alternateSourceId</i>	integer	Source ID of the version that causes the collision
<i>resolvedSourceId</i>	integer	Source ID of the version that the collision resolved to
<i>localChangedType</i>	integer	Change type of the version in the current work area
<i>alternateChangeType</i>	integer	Change type of the version that causes the collision
<i>resolvedChangeType</i>	integer	Change type of the version that the collision resolved to

Raw output:

```
pathName|workAreaName|releaseName|localVersion|alternateVersion|partType|
state|addDate|lastUpdate|relProcess
```

CompMembers

Component hierarchy table

Field name (length)	Data type	Description
<i>parentId</i>	integer	Database ID of the parent component
<i>childId</i>	integer	Database ID of the component
<i>rank</i>	integer	Number of links or generations between parent and child
<i>reference</i>	integer	Number of references to this parent-child-rank combination

CompMemberView

Component hierarchy linkages

Field name (length)	Data type	Description
<i>parentId</i>	integer	Database ID of the parent component
<i>childId</i>	integer	Database ID of the component
<i>rank</i>	integer	Number of links or generations between parent and child

Field name (length)	Data type	Description
<i>reference</i>	integer	Number of references to this parent-child-rank configuration
<i>parentCompName</i> (63)	char	Parent component name
<i>childCompName</i> (63)	char	Component name

Components

Component properties table

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the component
<i>name</i> (63)	char	Component name
<i>userId</i>	integer	Database ID of the user who owns the component
<i>featureDSR</i> (3)	char	Feature design, size, and review subprocess? (yes or no)
<i>featureVerify</i> (3)	char	Feature verify subprocess? (yes or no)
<i>defectDSR</i> (3)	char	Defect design, size, and review subprocess? (yes or no)
<i>defectVerify</i> (3)	char	Defect verify subprocess? (yes or no)
<i>description</i> (127)	char	Component description
<i>addDate</i> (25)	char	Date created
<i>dropDate</i> (25)	char	Date deleted
<i>lastUpdate</i> (25)	char	Date of last update
<i>compProcess</i> (31)	char	Component process name

CompView**

Component properties

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the component
<i>name</i> (63)	char	Component name
<i>userId</i>	integer	Database ID of the user who owns the component
<i>featureDSR</i> (3)	char	Feature design, size, and review subprocess? (yes or no)
<i>featureVerify</i> (3)	char	Feature verify subprocess? (yes or no)
<i>defectDSR</i> (3)	char	Defect design, size, and review subprocess? (yes or no)
<i>defectVerify</i> (3)	char	Defect verify subprocess? (yes or no)
<i>description</i> (127)	char	Component description
<i>addDate</i> (25)	char	Date created
<i>dropDate</i> (25)	char	Date deleted
<i>lastUpdate</i> (25)	char	Date of last update
<i>compProcess</i> (31)	char	Component process name
<i>userLogin</i> (31)	char	Component owner's TeamConnection user ID
<i>userName</i> (63)	char	Component owner's full name
<i>userArea</i> (31)	char	Component owner's area or department

Raw output:

name|userLogin|userName|userArea|addDate|dropDate|lastUpdate|description|
compProcess|featureDSR|featureVerify|defectDSR|defectVerify

Config**

Configurable field types table

Field name(length)	Data type	Description
configType (15)	char	Name of the configurable field type
name (31)	char	Value for the configurable field type
dflt (3)	char	Is this entry the default value? (yes or no)
value1	integer	(not currently used)
value2	integer	(not currently used)
description (127)	char	Description of the value
kind	integer	kind of configurable field (symantic rules)
driverId	integer	driver number
driverSeq	integer	driver subset number
dependent	integer	dependent number
dependSeq	integer	dependent subset number
choiceOrder	integer	relative ordering number
helpText(1999)	char	name or field help information

Raw Output

configType|name|dflt|value1|value2|description|kind|driverId|driverSeq|dependent|
dependSeq|choiceOrder|helpText

ConfigPartView**

ConfigPartView can be queried only by the Report -general command.

Field name (length)	Data type	Description
contextName	char	
releaseName (31)	char	Name of the release
workAreaName (31)	char	Name of the work area
partName	char	nuPathName of the part version
baseName (127)	char	Part's base name
currentVersion (8)	char	Name of the current part version
compName (63)	char	Component name
sourceId	integer	Source ID of the part version

Raw output:

partName|targetName|status|targetDate|active

Coreqs

Corequisites table

Field name (length)	Data type	Description
trackId	integer	
workAreaId	integer	Database ID of the work area

Field name (length)	Data type	Description
<i>groupId</i>	integer	Database ID of the corequisite group to which the work area belongs

CoreqView**

Coreq properties

Field name (length)	Data type	Description
<i>trackId</i>	integer	Database ID of the work area
<i>workAreaId</i>	integer	Database ID of the work area
groupId (10)	char	ID of a group of corequisite work areas
<i>releaseId</i>	integer	Database ID of the release
<i>defectId</i>	integer	Database ID of the defect
name	char	The name of the work area
state (15)	char	The state of the corequisite work area
defectPrefix	char	The defect prefix of the corequisite work area
defectName (15)	char	Defect name for the corequisite work area
releaseName (15)	char	The name of the release

Raw output:

groupId|workareaName|defectName|defectType|releaseName|state

DefectDownView**

Defect properties, including those of child components

Field name (length)	Data type	Description
target	char	Specifies a target (such as a driver or a date) for defect resolution or availability
priority	char	Specifies timing or scheduling requirements for resolving a defect
phaseInject	char	Specifies the development phase in progress when the defect was injected into the code
phaseFound	char	Specifies the development phase in progress when the defect was discovered
symptom	char	Specifies the symptom associated with the defect
<i>id</i>	integer	Database ID of the defect
<i>defectType</i> (7)	char	Defect
prefix (31)	char	Defect prefix
name (31)	char	Defect identifier
<i>compId</i>	integer	Database ID of the component associated with the defect
<i>releaseId</i>	integer	Database ID of the release where discovered
envName (31)	char	Environment where discovered
state (15)	char	Defect state
severity (31)	char	Severity level
abstract (127)	char	Defect abstract
reference (31)	char	Defect reference

Field name (length)	Data type	Description
answer (31)	char	Accept or return answer type
driverName (31)	char	Name of driver where discovered
lastUpdate (25)	char	Date of last update
addDate (25)	char	Date created
assignDate (25)	char	Date when reassigned
responseDate (25)	char	Date accepted or returned
endDate (25)	char	Date closed or canceled
<i>originId</i>	integer	Database ID of the defect originator
<i>ownerId</i>	integer	Database ID of the defect owner
age	integer	Age of the defect (dependent on the family's aging mechanism)
duplicate (31)	char	Duplicate defect or feature identifier
releaseName (31)	char	Name of release where discovered
<i>compName</i> (63)	char	Component name
childCompName (63)	char	Child component name
originLogin (31)	char	Defect originator's TeamConnection user ID
originName (63)	char	Defect originator's full name
originArea (31)	char	Defect originator's area or department
ownerLogin (31)	char	Defect owner's TeamConnection user ID
ownerName (63)	char	Defect owner's full name
ownerArea (31)	char	Defect owner's area or department

Raw output:

```
prefix|name|childCompName|releaseName|ownerLogin|state|answer|severity|
abstract|age|envName|driverName|duplicate|lastUpdate|addDate|assignDate|
responseDate|endDate|ownerName|ownerArea|reference|originLogin|originName|
originArea
```

Defects

Defect properties table

(This table is also used to record features.)

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the defect or feature
<i>defectType</i> (7)	char	defect or feature
<i>prefix</i> (31)	char	Defect or feature prefix
<i>name</i> (31)	char	Defect or feature identifier
<i>compId</i>	integer	Database ID of the component associated with the defect or feature
<i>releaseId</i>	integer	Database ID of the release associated with the defect or feature
<i>envName</i> (31)	char	Environment where discovered (when type is defect, blank otherwise)
<i>state</i> (15)	char	Defect or feature state
<i>severity</i> (31)	char	Severity level (when type is defect)
<i>abstract</i> (127)	char	Defect or feature abstract
<i>reference</i> (31)	char	Defect or feature reference
<i>answer</i> (31)	char	Accept or return answer type
<i>driverName</i> (31)	char	Name of driver where discovered (when type is defect)

Field name (length)	Data type	Description
<i>lastUpdate</i> (25)	char	Date of last update
<i>addDate</i> (25)	char	Date created
<i>assignDate</i> (25)	char	Date when reassigned
<i>responseDate</i> (25)	char	Date accepted or returned
<i>endDate</i> (25)	char	Date closed or canceled
<i>originId</i>	integer	Database ID of the user who opened the defect or feature
<i>ownerId</i>	integer	Database ID of the defect or feature owner
<i>age</i>	integer	Age of defect or feature (dependent on the aging mechanism of the family)
<i>duplicate</i> (31)	char	Defect or feature for which this defect or feature is a duplicate
notesDB	char	Used by Lotus Notes integration
notesID	char	Used by Lotus Notes integration

DefectView**

Defect properties

Field name (length)	Data type	Description
target	char	Specifies a target (such as a driver or a date) for defect resolution or availability
priority	char	Specifies timing or scheduling requirements for resolving a defect
phaseInject	char	Specifies the development phase in progress when the defect was injected into the code
phaseFound	char	Specifies the development phase in progress when the defect was discovered
symptom	char	Specifies the symptom associated with the defect
<i>id</i>	integer	Database ID of the defect
<i>defectType</i> (7)	char	Defect
prefix (31)	char	Defect prefix
name (31)	char	Defect identifier
<i>compld</i>	integer	Database ID of the component associated with the defect
<i>releasId</i>	integer	Database ID of the release where discovered
envName (31)	char	Environment where discovered
state (15)	char	Defect state
severity (31)	char	Severity level
abstract (127)	char	Defect abstract
reference (31)	char	Defect reference
answer (31)	char	Accept or return answer type
driverName (31)	char	Name of driver where discovered
lastUpdate (25)	char	Date of last update
addDate (25)	char	Date created
assignDate (25)	char	Date when reassigned
responseDate (25)	char	Date accepted or returned
endDate (25)	char	Date closed or canceled
<i>originId</i>	integer	Database ID of the defect originator

Field name (length)	Data type	Description
<i>ownerId</i>	integer	Database ID of the defect owner
<i>age</i>	integer	Age of the defect (dependent on the family's aging mechanism)
<i>duplicate</i> (31)	char	Duplicate defect or feature identifier
<i>releaseName</i> (31)	char	Name of release where discovered
<i>compName</i> (63)	char	Component name
<i>originLogin</i> (31)	char	Defect originator's TeamConnection user ID
<i>originName</i> (63)	char	Defect originator's full name
<i>originArea</i> (31)	char	Defect originator's area or department
<i>ownerLogin</i> (31)	char	Defect owner's TeamConnection user ID
<i>ownerName</i> (63)	char	Defect owner's full name
<i>ownerArea</i> (31)	char	Defect owner's area or department
<i>notesDB</i>		Used by Lotus Notes integration
<i>notesID</i>		Used by Lotus Notes integration

Raw output:

```
prefix|name|compName|releaseName|ownerLogin|state|answer|severity|abstract|age|
envName|driverName|duplicate|lastUpdate|addDate|assignDate|responseDate|
endDate|ownerName|ownerArea|reference|originLogin|originName|originArea|
notesDB|notesID
```

DriverMembers

Driver members table

Field name (length)	Data type	Description
<i>driverId</i>	integer	Database ID of the driver
<i>workAreaId</i>	integer	Database ID of the work area
<i>committedVersion</i>	char	Name of the committed version for the work area
<i>driverState</i>	char	State of the driver

DriverMemberView**

Driver members

Field name (length)	Data type	Description
<i>driverId</i>	integer	Database ID of the driver
<i>trackId</i>	integer	Name of the committed version for the work area
<i>workAreaId</i>	integer	Database ID of the work area
<i>driverName</i> (31)	char	Driver name
<i>driverState</i>	char	State of the driver
<i>releaseName</i> (31)	char	Release name
<i>workAreaName</i> (15)	char	Name of the current work area
<i>trackUserLogin</i> (31)	char	Work area owner's TeamConnection User ID
<i>trackUserName</i> (63)	char	Work area owner's full name
<i>trackUserArea</i> (31)	char	Work area owner's area or department
<i>defectPrefix</i> (31)	char	Defect or feature prefix
<i>defectName</i> (31)	char	Defect or feature identifier
<i>defectReference</i> (31)	char	Defect or feature reference

Field name (length)	Data type	Description
<i>defectAbstract</i> (127)	char	Defect or feature abstract
<i>defectType</i> (7)	char	Defect or feature
<i>committedVersion</i> (1)	char	Name of the committed version for the work area
<i>workAreaVersion</i> (1)	char	The name of the latest version of the work area added to the driver. If the workarea was in the integrate state when added to the driver, this field is the name of the latest version in the work area.

Raw output:

```
driverName|releaseName|workAreaName|defectName|defectReference|
workAreaUserLogin|workAreaUserName|workAreaUserArea|defectPrefix|
defectType|committedVersion|workAreaVersion
```

Drivers

Driver properties table

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the driver
<i>name</i> (31)	char	Driver name
<i>releaseId</i>	integer	Database ID of the release associated with the driver
<i>userId</i>	integer	Database ID of the user who owns the driver
<i>addDate</i> (25)	char	Date created
<i>commitDate</i> (25)	char	Date committed
<i>lastUpdate</i> (25)	char	Date of last update
<i>state</i> (15)	char	Driver state
<i>driverType</i> (31)	char	Driver type

DriverView**

Driver properties

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the driver
<i>name</i> (31)	char	Driver name
<i>releaseId</i>	integer	Database ID of the release
<i>userId</i>	integer	Database ID of the user who owns the driver
<i>addDate</i> (25)	char	Date created
<i>commitDate</i> (25)	char	Date committed
<i>lastUpdate</i> (25)	char	Date of last update
<i>state</i> (15)	char	Driver state
<i>driverType</i> (31)	char	Driver type
<i>releaseName</i> (31)	char	Release name
<i>userLogin</i> (31)	char	Driver owner's TeamConnection user ID
<i>userName</i> (63)	char	Driver owner's full name
<i>userArea</i> (31)	char	Driver owner's area or department

Raw output:

name|releaseName|type|userLogin|userName|userArea|addDate|commitDate|
lastUpdate|state

Environments

Release environment list table

Field name (length)	Data type	Description
<i>name</i> (31)	char	Environment name
<i>releaseId</i>	integer	Database ID of the release
<i>userId</i>	integer	Database ID of the user

EnvView**

Release environment list entries

Field name (length)	Data type	Description
<i>name</i> (31)	char	Environment name
<i>releaseId</i>	integer	Database ID of the release
<i>userId</i>	integer	Database ID of the user
<i>releaseName</i> (31)	char	Release name
<i>userLogin</i> (31)	char	Tester's TeamConnection user ID
<i>userName</i> (63)	char	Tester's full name
<i>userArea</i> (31)	char	Tester's area or department

Raw output:

name|releaseName|userLogin|userName|userArea

FeatureDownView**

Feature properties, including those of child components

Note: FeatureDownView and DefectView share the same field names. Some of the field names are used only in DefectView, so these fields are listed as not applicable (N/A) for FeatureDownView in the following table.

Field name (length)	Data type	Description
<i>target</i>	char	Specifies a target (such as a driver or a date) for feature resolution or availability
<i>priority</i>	char	Specifies timing or scheduling requirements for resolving a feature
<i>id</i>	integer	Database ID of the feature
<i>defectType</i> (7)	char	Feature
<i>prefix</i> (31)	char	Feature prefix
<i>name</i> (31)	char	Feature identifier
<i>compld</i>	integer	Database ID of the component associated with the feature
<i>releaseId</i>	integer	Database ID of the release where discovered
<i>envName</i> (31)	char	N/A
<i>state</i> (15)	char	Feature state
<i>severity</i> (31)	char	N/A
<i>abstract</i> (127)	char	Feature abstract

Field name (length)	Data type	Description
reference (31)	char	Feature reference
answer (31)	char	Accept or return answer type
driverName (31)	char	N/A
lastUpdate (25)	char	Date of last update
addDate (25)	char	Date created
assignDate (25)	char	Date when reassigned
responseDate (25)	char	Date accepted or returned
endDate (25)	char	Date closed or canceled
originId	integer	Database ID of the feature originator
ownerId	integer	Database ID of the feature owner
age	integer	Age of the feature (dependent on the family's aging mechanism)
duplicate (31)	char	Duplicate defect or feature identifier
releaseName (31)	char	Name of release where discovered
compName (63)	char	N/A
childCompName (63)	char	Child component name
originLogin (31)	char	Feature originator's TeamConnection user ID
originName (63)	char	Feature originator's full name
originArea (31)	char	Feature originator's area or department
ownerLogin (31)	char	Feature owner's TeamConnection user ID
ownerName (63)	char	Feature owner's full name
ownerArea (31)	char	Feature owner's area or department
notesDB	char	Used by Lotus Notes integration
notesID	char	Used by Lotus Notes integration

Raw output:

```
prefix|name|childCompName|ownerLogin|ownerName|state|abstract|age|duplicate|
lastUpdate|addDate|assignDate|responseDate|endDate|ownerArea|reference|
originLogin|originName|originArea|releaseName|answer|notesDB|notesID
```

FeatureView**

Feature properties

Note: FeatureView and DefectView share the same field names. Some of the field names are used only in DefectView, so these fields are listed as not applicable (N/A) for FeatureView in the following table.

Field name (length)	Data type	Description
target	char	Specifies a target (such as a driver or a date) for feature resolution or availability
priority	char	Specifies timing or scheduling requirements for resolving a feature
id	integer	Database ID of the feature
defectType (7)	char	Feature
prefix (31)	char	Feature prefix
name (31)	char	Feature identifier
compId	integer	Database ID of the component associated with the feature
releaseId	integer	Database ID of the release where discovered

Field name (length)	Data type	Description
<i>envName</i> (31)	char	N/A
<i>state</i> (15)	char	Feature state
<i>severity</i> (31)	char	N/A
<i>abstract</i> (127)	char	Feature abstract
<i>reference</i> (31)	char	Feature reference
<i>answer</i> (31)	char	Accept or return answer type
<i>driverName</i> (31)	char	N/A
<i>lastUpdate</i> (25)	char	Date of last update
<i>addDate</i> (25)	char	Date created
<i>assignDate</i> (25)	char	Date when reassigned
<i>responseDate</i> (25)	char	Date accepted or returned
<i>endDate</i> (25)	char	Date closed or canceled
<i>originId</i>	integer	Database ID of the feature originator
<i>ownerId</i>	integer	Database ID of the feature owner
<i>age</i>	integer	Age of the feature (dependent on the family's aging mechanism)
<i>duplicate</i> (31)	char	Duplicate defect or feature identifier
<i>releaseName</i> (31)	char	Name of release where discovered
<i>compName</i> (63)	char	N/A
<i>originLogin</i> (31)	char	Feature originator's TeamConnection user ID
<i>originName</i> (63)	char	Feature originator's full name
<i>originArea</i> (31)	char	Feature originator's area or department
<i>ownerLogin</i> (31)	char	Feature owner's TeamConnection user ID
<i>ownerName</i> (63)	char	Feature owner's full name
<i>ownerArea</i> (31)	char	Feature owner's area or department
<i>notesDB</i>		Used by Lotus Notes integration
<i>notesID</i>		Used by Lotus Notes integration

Raw output:

```
prefix|name|compName|ownerLogin|ownerName|state|abstract|age|duplicate|
lastUpdate|addDate|assignDate|responseDate|endDate|ownerArea|reference|
originLogin|originName|originArea|releaseName|answer|notesDB|notesID
```

Files**

Part properties

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the file
<i>partId</i>	integer	Database ID of the part
<i>compId</i>	integer	Database ID of the component
<i>pathId</i>	integer	Database ID of the path
<i>addDate</i> (25)	char	Date created
<i>dropDate</i> (25)	char	Date deleted
<i>lastUpdate</i> (25)	char	Date of last update
<i>fmode</i> (4)	char	File mode
<i>partType</i> (7)	char	Type of the part
<i>versionId</i>	integer	Database ID of the part's version
<i>releaseId</i>	integer	Database ID of the release

Field name (length)	Data type	Description
<i>translation</i> (31)	char	Relationship of the part to the translation process.
<i>restricted</i> (3)	char	Is the part restricted in this release? (yes or no)

Fix

Fix records table

Field name (length)	Data type	Description
<i>workAreaId</i>	integer	Database ID of the work area
<i>userId</i>	integer	Database ID of the user who owns the fix record
<i>compId</i>	integer	Database ID of the component associated with the fix record
<i>state</i> (15)	char	Fix record state
<i>addDate</i> (25)	char	Date created
<i>lastUpdate</i> (25)	char	Date of last update

FixDownView

Fix records, including those for child components

Field name (length)	Data type	Description
<i>trackId</i>	integer	Database ID of the work area
<i>workAreaId</i>	integer	Database ID of the work area
<i>userId</i>	integer	Database ID of the user who owns the fix record
<i>compId</i>	integer	Database ID of the component associated with the fix record
<i>state</i> (15)	char	Fix record state
<i>addDate</i> (25)	char	Date created
<i>lastUpdate</i> (25)	char	Date of last update
<i>releaseName</i> (31)	char	Release name
<i>defectPrefix</i> (31)	char	Defect or feature prefix
<i>defectName</i> (31)	char	Defect or feature identifier
<i>defectAbstract</i> (127)	char	Defect or feature abstract
<i>defectReference</i> (31)	char	Defect or feature reference
<i>defectType</i> (7)	char	Defect or feature
<i>compName</i> (63)	char	Component name
<i>childCompName</i> (63)	char	Child component name
<i>userLogin</i> (31)	char	Fix record owner's TeamConnection user ID
<i>userName</i> (63)	char	Fix record owner's full name
<i>userArea</i> (31)	char	Fix record owner's area or department

FixView**

Fix records

Field name (length)	Data type	Description
<i>trackId</i>	integer	Database ID of the work area

Field name (length)	Data type	Description
<i>workAreaId</i>	integer	Database ID of the work area
<i>userId</i>	integer	Database ID of the user who owns the fix record
<i>compId</i>	integer	Database ID of the component associated with the fix record
<i>state</i> (15)	char	Fix record state
<i>addDate</i> (25)	char	Date created
<i>lastUpdate</i> (25)	char	Date of last update
<i>releaseName</i> (31)	char	Release name
<i>defectPrefix</i> (31)	char	Defect or feature prefix
<i>defectName</i> (31)	char	Defect or feature identifier
<i>defectAbstract</i> (127)	char	Defect or feature abstract
<i>defectReference</i> (31)	char	Defect or feature reference
<i>defectType</i> (7)	char	Defect or feature
<i>compName</i> (63)	char	Component name
<i>userLogin</i> (31)	char	Fix record owner's TeamConnection user ID
<i>userName</i> (63)	char	Fix record owner's full name
<i>userArea</i> (31)	char	Fix record owner's area or department
<i>workAreaName</i> (31)	char	

Raw output:

```
workAreaName|releaseName|compName|state|userLogin|userArea|defectAbstract|addDate|
lastUpdate|userName|defectPrefix|defectName|defectType|defectReference
```

History

Defect or feature state change history table

Field name (length)	Data type	Description
<i>defectId</i>	integer	Database ID of the defect or feature
<i>userId</i>	integer	Database ID of the user who caused the defect or feature state change
<i>action</i> (15)	char	Action that occurred and caused the state change
<i>addDate</i> (25)	char	Date action occurred

HistoryView

Defect or feature state change history

Field name (length)	Data type	Description
<i>defectId</i>	integer	Database ID of the defect or feature
<i>userId</i>	integer	Database ID of the user who caused the defect or feature state change
<i>action</i> (15)	char	Action that occurred and caused the state change
<i>addDate</i> (25)	char	Date action occurred
<i>defectPrefix</i> (31)	char	Defect or feature prefix
<i>defectName</i> (31)	char	Defect or feature identifier
<i>defectReference</i> (31)	char	Defect or feature reference

Field name (length)	Data type	Description
<i>userLogin</i> (31)	char	TeamConnection user ID of the user performing the actions to the defect or feature
<i>userName</i> (63)	char	Full name of the user performing the actions to the defect or feature
<i>userArea</i> (31)	char	Area or department of the user performing the actions to the defect or feature

Hosts

User host list table

Field name (length)	Data type	Description
<i>userId</i>	integer	Database ID of the user
<i>name</i> (127)	char	Client host name
<i>login</i> (31)	char	User's login name on client host

HostView**

User host list entries

Field name (length)	Data type	Description
<i>userId</i>	integer	Database ID of the user
<i>name</i> (127)	char	Name of the client host
<i>login</i> (31)	char	User's login name on the client host
<i>userLogin</i> (31)	char	User's TeamConnection user ID
<i>userName</i> (63)	char	User's full name
<i>userArea</i> (31)	char	User's area or department

Raw output:

```
login|name|userLogin|userName|userArea
```

Interest**

Interest table

Field name (length)	Data type	Description
<i>name</i> (31)	char	Interest group name
<i>action</i> (15)	char	Low-level action name

Raw output

```
name|action
```

Notes

Defect or feature notes table

Field name (length)	Data type	Description
<i>defectId</i>	integer	Database ID of the defect or feature
<i>userId</i>	integer	Database ID of the user who added remarks
<i>action</i> (15)	char	Action occurring when remarks were added

Field name (length)	Data type	Description
<i>remarks</i> (29999)	long	Text of remarks
<i>addDate</i> (25)	char	Date remarks were added

NoteView**

Defect or feature notes

Field name (length)	Data type	Description
<i>defectId</i>	integer	Database ID of the defect or feature
<i>userId</i>	integer	Database ID of the user who added remarks
<i>action</i> (15)	char	Action occurring when remarks were added
<i>remarks</i> (29999)	char	Text of remarks
<i>addDate</i> (25)	char	Date created
<i>defectPrefix</i> (31)	char	Defect or feature prefix
<i>defectName</i> (31)	char	Defect or feature identifier
<i>defectReference</i> (31)	char	Defect or feature reference
<i>userLogin</i> (31)	char	User's TeamConnection user ID
<i>userName</i> (63)	char	User's full name
<i>userArea</i> (31)	char	User's area or department

Raw output:

```
defectName|defectReference|action|addDate|userLogin|userName|userArea|
defectPrefix|remarks
```

Notification

Notification list table

Field name (length)	Data type	Description
<i>compld</i>	integer	Database ID of the component where notification is controlled
<i>userId</i>	integer	Database ID of the user who owns the notification interest
<i>interestName</i> (31)	char	Interest group name

NotifyDownView**

Notification list members, including descendant members

Field name (length)	Data type	Description
<i>compld</i>	integer	Database ID of the component where notification is controlled
<i>userId</i>	integer	Database ID of the user who owns the notification interest
<i>interestName</i> (31)	char	Interest group name
<i>compName</i> (63)	char	Component name
<i>childCompName</i> (63)	char	Child component name
<i>userAddress</i> (159)	char	User's sendmail address
<i>userLogin</i> (31)	char	User's TeamConnection user ID
<i>userName</i> (63)	char	User's full name
<i>userArea</i> (31)	char	User's area or department

Raw output:

```
childCompName|userLogin|userName|userArea|userAddress|interestName
```

NotifyUpView****Notification list entries, including those inherited from parents**

Field name (length)	Data type	Description
<i>compId</i>	integer	Database ID of the component where notification is controlled
<i>userId</i>	integer	Database ID of the user who owns the notification interest
interestName (31)	char	Interest group name
compName (63)	char	Component name
parentName (63)	char	Parent component name
userAddress (159)	char	User's sendmail address
userLogin (31)	char	User's TeamConnection user ID
userName (63)	char	User's full name
userArea (31)	char	User's area or department

Raw output:

```
parentName|userLogin|userName|userArea|userAddress|interestName
```

NotifyView****Notification list entries**

Field name (length)	Data type	Description
<i>compId</i>	integer	Database ID of the component where notification is controlled
<i>userId</i>	integer	Database ID of the user who owns the notification interest
interestName (31)	char	Interest group name
compName (63)	char	Component name
userAddress (159)	char	User's sendmail address
userLogin (31)	char	User's TeamConnection user ID
userName (63)	char	User's full name
userArea (31)	char	User's area or department

Raw output:

```
compName|userLogin|userName|userArea|userAddress|interestName
```

OVersions**Version record properties table**

Field name (length)	Data type	Description
<i>releaseId</i>	integer	Database ID of the release
<i>workAreaId</i>	integer	Database ID of the work area
name (31)	char	Name of the version
addDate (25)	char	Date created
freezeDate (25)	char	Date frozen

Field name (length)	Data type	Description
releaseVersion (31)	char	Version in the release
hasSuccessor (3)	char	Does this version have a successor? (yes or no)
hasOutputs (3)	char	Does the version have outputs? (yes or no)
sidSequence	integer	
remarks	char	

Parsers

Parser properties table

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the parser
<i>releaseId</i>	integer	Database ID of the release associated with the parser
<i>name</i> (63)	char	Parser name
<i>commandName</i> (259)	char	Parser command that will be used
<i>includePaths</i> (255)	char	Include paths for parser

ParserView**

Parser properties

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the parser
<i>releaseId</i>	integer	Database ID of the release associated with the parser
<i>name</i> (63)	char	Parser name
<i>releaseName</i> (31)	char	Release name
<i>commandName</i> (259)	char	Parser command that will be used
<i>includePaths</i> (255)	char	Include paths for parser

Raw output:

name|releaseName|commandName|includePaths

PartFullView**

Part properties

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of this part version
<i>partId</i>	integer	Database ID of the part
<i>fileId</i>	integer	Database ID of the file
<i>workAreaId</i>	integer	Database ID of the work area
<i>nuPathId</i>	integer	Database ID of the path name
<i>addDate</i> (25)	char	Date created
<i>dropDate</i> (25)	char	Date deleted
<i>nuAddDate</i> (25)	char	New creation date
<i>nuDropDate</i> (25)	char	New deletion date
<i>lastUpdate</i> (25)	char	Date of last update
<i>baseName</i> (127)	char	Part's base name

Field name (length)	Data type	Description
pathName (195)	char	Part's path name
nuPathName (195)	char	Pending new part path name
releaseName (31)	char	Name of the release
<i>releaseId</i>	integer	Database ID of the release
fileType (7)	char	text or binary
partType (7)	char	Type of the part
userLogin (31)	char	TeamConnection user ID who locked or checked out the part
fmode (4)	char	File mode
compName (63)	char	Component name
currentVersion (8)	char	Name of the current part version
committedVersion	char	Last committed part version name
workAreaName (14)	char	Name of the current work area
changeType (8)	char	The type of change to the part. A value of bulk means the part's content has changed; attrib means the part's attributes have changed; and none means the part has not changed.
<i>sourceId</i>	integer	Source ID used to identify common parts
<i>temporary</i>	char	Identifies parts that are deleted after a build, because they are no longer necessary.
translation (31)	char	Relationship of the part to the translation process.
transState (15)	char	Translation state of the part.
<i>restricted</i> (3)	char	Is the part restricted in this release? (yes or no)

Raw output:

```
baseName|releaseName|compName|committedVersion|addDate|dropDate|
lastUpdate|pathName|currentVersion|nuAddDate|nuDropDate|nuPathName|
userLogin|fmode|type|workAreaLock|workAreaName|partType|
translation|transState|restricted
```

Parts

Part properties table

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the part
<i>partType</i> (7)	char	Type of the part

PartsOut

Parts currently locked for editing table

Field name (length)	Data type	Description
<i>partId</i>	integer	Database ID of the part
<i>versionId</i>	integer	Database ID of the part's version
<i>userId</i>	integer	Database ID of the user who has the part locked
<i>seqPartId</i>	integer	Database ID of the part
<i>workAreaId</i>	integer	Database ID of the work area
checkOutDate (25)	char	Date part was locked

PartsOutView**

Parts currently locked for editing

Field name (length)	Data type	Description
<i>fileId</i>	integer	Database ID of the part
<i>partId</i>	integer	Database ID of the part
<i>seqPartId</i>	integer	Database ID of the part
<i>seqFileId</i>	integer	Database ID of the part
<i>versionId</i>	integer	Database ID of the part's version
<i>userId</i>	integer	Database ID of the user who has the part locked
<i>workAreaId</i>	integer	Database ID of the work area
<i>checkOutDate</i> (25)	char	Date part was locked
<i>partNuPath</i> (195)	char	Part path name
<i>releaseName</i> (31)	char	Release name
<i>userLogin</i> (31)	char	User's TeamConnection user ID
<i>userName</i> (63)	char	User's full name
<i>userArea</i> (31)	char	User's area or department
<i>workAreaName</i> (31)	char	Work area name
<i>compld</i>	integer	Database ID of the component

Raw output:

partNuPath|*releaseName*|*checkOutDate*|*userLogin*|*userName*|*userArea*|*workAreaName*

PartOverrideR

restricted parts that have been granted restriction overrides table

Field name (length)	Data type	Description
<i>partId</i>	integer	Database ID of the part
<i>releaseId</i>	integer	Database ID of the release
<i>workAreaId</i>	integer	Database ID of the work area
<i>userId</i>	integer	Database ID of the user getting the override

PartOverrideRView

restricted parts that have been granted restriction overrides

Field name (length)	Data type	Description
<i>partId</i>	integer	Database ID of the part
<i>workAreaId</i>	integer	Database ID of the work area
<i>userId</i>	integer	Database ID of the user getting the override
<i>baseName</i> (127)	char	Part base name
<i>pathName</i> (195)	char	Part path name
<i>releaseName</i> (31)	char	Release name
<i>workAreaName</i> (14)	char	Name of work area where part can be changed.
<i>userLogin</i> (31)	char	TeamConnection user ID that can change the part. Field will be empty for parts not restricted for a particular user in the workarea.

PartView**

Part properties

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of this part's version
<i>fileId</i>	integer	Database ID of the file
<i>partId</i>	integer	Database ID of the part
<i>workAreaId</i>	integer	Database ID of the work area
<i>builderId</i>	integer	Database ID of the builder
<i>parserId</i>	integer	Database ID of the parser
<i>nuPathId</i>	integer	Database ID of the path name
addDate (25)	char	Date created
dropDate (25)	char	Date deleted
nuAddDate (25)	char	New creation date
nuDropDate (25)	char	New deletion date
lastUpdate (25)	char	Date of last update
baseName (127)	char	Part base name
pathName (195)	char	Part path name
nuPathName (195)	char	Pending new part path name
releaseName (31)	char	Release name
<i>releasId</i>	integer	Database ID of the release
fileType (7)	char	Type of the file, as it exists outside TeamConnection (text or binary)
partType (7)	char	Type of the part
userLogin (31)	char	TeamConnection user ID who locked or checked out the part
fmode (4)	char	File mode
compName (63)	char	Component name
currentVersion (8)	char	Name of the current part version
committedVersion	char	Last committed part version name
workAreaName (14)	char	Name of current work area
changeType (8)	char	The type of change to the part. A value of bulk means the part's content has changed; attrib means the part's attributes have changed; and none means the part has not changed.
builderName (63)	char	Name of the part's builder
parserName (63)	char	Name of the part's parser
buildStatus (15)	char	Status of the build
parameters (1024)	char	Build parameters
<i>ancestorSourceId</i>	integer	Database ID of the part's source. Defines where the part was derived from and is used to identify common parts.
temporary (3)	char	Identifies parts that are deleted after a build, because they are no longer necessary.
workAreaChange (8)	char	The type of change to the part in the work area. A value of bulk means the part's content has changed; attributes means the part's attributes have changes; all means both the contents and attributes have changed; and none means the part has not changed.

Field name (length)	Data type	Description
translation (31)	char	Relationship of the part to the translation process.
transState (15)	char	Translation state of the part.
restricted (3)	char	Is the part restricted in this release? (yes or no)

Raw output:

```
baseName|releaseName|compName|committedVersion|addDate|dropDate|lastUpdate|
pathName|currentVersion|nuAddDate|nuDropDate|nuPathName|userLogin|fmode|
fileType|changeType|workAreaName|partType|temporary|builderName|
parserName|ancestorSourceId|buildStatus|parameters|
workAreaChange|translation|transState|restricted
```

Path

Part path names table

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the part's path name
<i>name</i> (195)	char	Full path name of the part

Prereqs

Prerequisites table

Field name (length)	Data type	Description
<i>workAreaId</i>	integer	Database ID of the work area
<i>prereqId</i>	integer	Database ID of the prerequisite group to which the work area belongs
<i>prereqWorkAreaId</i>	integer	

PrereqView**

Prereq properties

Field name (length)	Data type	Description
<i>workAreaId</i>	integer	Database ID of the work area
<i>prereqId</i>	integer	Database ID of the prerequisite
<i>prereqWorkAreaId</i>	integer	Database ID of the prerequisite work area
<i>releaseId</i>	integer	Database ID of the release
<i>defectId</i>	integer	Database ID of the defect associated with the work area
<i>prereqDefectId</i>	integer	Database ID of the defect associated with the prereq
name (15)	char	The name of the work area
state (15)	char	The state of the prerequisite work area
defectPrefix	char	Defect prefix for the work area
defectName (15)	char	Defect name for the work area
defectType (7)	char	Defect type for the work area
prereqName (15)	char	The name of the prerequisite work area
prereqPrefix	char	Defect prefix of the prerequisite work area
prereqDefect (15)	char	Defect name for the prerequisite work area

Field name (length)	Data type	Description
prereqType (7)	char	Defect type for the prerequisite work area
releaseName (15)	char	The name of the release

Raw output:

```
workarea|defectName|defectType|releaseName|prereqName|prereqDefect|
prereqType|state
```

Releases

Release table

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the release
<i>name</i> (31)	char	Release name
<i>compld</i>	integer	Database ID of the component associated with the release
<i>binding</i> (3)	char	Binding status
<i>approve</i> (3)	char	Approval subprocess? (yes or no)
<i>fix</i> (3)	char	Fix subprocess? (yes or no)
<i>lvl</i> (3)	char	Driver subprocess? (yes or no)
<i>test</i> (3)	char	Test subprocess? (yes or no)
<i>description</i> (127)	char	Release description
<i>userId</i>	integer	Database ID of the user who owns the release
<i>addDate</i> (25)	char	Date created
<i>dropDate</i> (25)	char	Date deleted
<i>lastUpdate</i> (25)	char	Date of last update
<i>track</i> (3)	char	Track subprocess? (yes or no)
<i>relProcess</i> (31)	char	Release process name
<i>developmentMode</i> (10)	char	Development mode of the release? (concurrent or serial)
<i>autoPrune</i> (3)	char	Autopruning on? (yes or no)
<i>outputVersions</i> (16)	char	Number of committed output versions saved in the release

ReleaseView**

Release properties

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the release
<i>name</i> (31)	char	Release name
<i>compld</i>	integer	Database ID of the component associated with the release
<i>binding</i> (3)	char	Binding status
<i>approve</i> (3)	char	Approval subprocess? (yes or no)
<i>fix</i> (3)	char	Fix subprocess? (yes or no)
<i>lvl</i> (3)	char	Driver subprocess? (yes or no)
<i>test</i> (3)	char	Test subprocess? (yes or no)
<i>description</i> (127)	char	Release description
<i>userId</i>	integer	Database ID of the user who owns the release

Field name (length)	Data type	Description
addDate (25)	char	Date created
dropDate (25)	char	Date deleted
lastUpdate (25)	char	Date of last update
track (3)	char	Track subprocess? (yes or no)
relProcess (31)	char	Release process name
compName (63)	char	Component name
userLogin (31)	char	Release owner's TeamConnection user ID
userName (63)	char	Release owner's full name
userArea (31)	char	Release owner's area or department
developmentMode (10)	char	Development mode of the release? (concurrent or serial)
autoPrune (3)	char	Autopruning on? (yes or no)
outputVersions (16)	char	Number of committed output versions saved in the release

Raw output:

```
name|compName|relProcess|userLogin|userName|userArea|addDate|dropDate|
lastUpdate|description|track|approve|fix|lvl|test|developmentMode|
autoPrune|outputVersions
```

Sequence

Sequences

Field name (length)	Data type	Description
<i>name</i> (15)	char	Sequence type
<i>lastSerial</i>	integer	Database ID of the last sequence number assigned for the sequence type

Shadows

Shadow properties table

Field name (length)	Data type	Description
<i>id</i> (20)	char	Database ID of the shadow
<i>name</i> (31)	char	Shadow name
<i>releaseid</i> (20)	char	Database ID of the release
<i>typeid</i> (20)	char	Database ID of the shadow type
<i>mode</i> (15)	char	Shadow mode
<i>priority</i>	integer	Shadow priority
<i>state</i> (15)	char	Shadow state
<i>location</i> (255)	char	Shadow location
<i>drivers</i> (3)	char	Contains driver versions? (yes or no)
<i>workareas</i> (3)	char	Contains workarea versions? (yes or no)
<i>release</i> (3)	char	Contains release version? (yes or no)
<i>crlf</i> (3)	char	Is crlf conversion performed? (yes or no)
<i>keys</i> (3)	char	Is key expansion performed? (yes or no)
<i>timestamp</i> (15)	char	Timestamp property
<i>parameters</i> (255)	char	Shadow parameters

ShadowView**

Shadow properties table

Field name (length)	Data type	Description
<i>id</i> (20)	char	Database ID of the shadow
<i>name</i> (31)	char	Shadow name
<i>releaseid</i> (20)	char	Database ID of the release
<i>releaseName</i> (31)	char	Release Name
<i>typeid</i> (20)	char	Database ID of the shadow type
<i>shadowType</i> (31)	char	Shadow type
<i>mode</i> (15)	char	Shadow mode
<i>priority</i>	integer	Shadow priority
<i>state</i> (15)	char	Shadow state
<i>location</i> (255)	char	Shadow location
<i>drivers</i> (3)	char	Contains driver versions? (yes or no)
<i>workareas</i> (3)	char	Contains workarea versions? (yes or no)
<i>release</i> (3)	char	Contains release version? (yes or no)
<i>CrLf</i> (3)	char	Is Crlf conversion performed? (yes or no)
<i>keys</i> (3)	char	Is key expansion performed? (yes or no)
<i>timestamp</i> (15)	char	Timestamp property
<i>parameters</i> (255)	char	Shadow parameters

Raw output:

```
name|releaseName|shadowType|mode|priority|state|location|drivers|workareas|
release|CrLf|keys|timestamp|parameters
```

ShadowTypes**

Shadow types table

Field name (length)	Data type	Description
<i>id</i> (20)	char	Database ID of the shadow type
<i>name</i> (31)	char	Name of the shadow type
<i>description</i> (255)	char	Description
<i>program</i> (255)	char	Program name

Raw output:

```
name|description|program
```

ShadowParts

Information about parts in the shadow

Field name (length)	Data type	Description
<i>id</i> (20)	char	Database ID of the shadow part
<i>shadowid</i> (20)	char	Database ID of the shadow
<i>partid</i> (20)	char	Database ID of the part
<i>workareaid</i> (20)	char	Database ID of the workarea or driver
<i>pathid</i> (20)	char	Database ID of the part name in the shadow
<i>pBulk</i> (20)	char	Database ID of the part contents
<i>SID</i> (47)	char	Version name of the part in the shadow

Field name (length)	Data type	Description
<i>shadowTimeStamp</i> (25)	char	TimeStamp of the file in the shadow
<i>fmode</i> (4)	char	The file mode of the part in the shadow
<i>lastUpdate</i> (25)	char	Date the shadow was updated for this part

ShadowPartView**

Properties of parts in the shadow

Field name (length)	Data type	Description
<i>id</i> (20)	char	Database ID of the shadow part
<i>shadowid</i> (20)	char	Database ID of the shadow
<i>shadowName</i> (31)	char	Shadow name
<i>releaseid</i> (20)	char	Database ID of the release
<i>releaseName</i> (31)	char	Release Name
<i>partid</i> (20)	char	Database ID of the part
<i>workareaid</i> (20)	char	Database ID of the workarea or driver
<i>workareaName</i> (31)	char	Workarea or Driver name
<i>pathid</i> (20)	char	Database ID of the part name in the shadow
<i>pathName</i> (195)	char	Part name
<i>SID</i> (47)	char	Part version name
<i>pBulk</i> (20)	char	Database ID of the part contents
<i>shadowTimeStamp</i> (25)	char	TimeStamp of the file when placed in the shadow
<i>fmode</i> (4)	char	The file mode of the part in the shadow
<i>lastUpdate</i> (25)	char	Date when shadowing occurred

Raw output:

```
shadowName|releaseName|workareaName|pathName|SID|
shadowTimeStamp|fmode|lastUpdate
```

Sizes

Sizing records table

Field name (length)	Data type	Description
<i>defectId</i>	integer	Database ID of the defect or feature
<i>compld</i>	integer	Database ID of the component associated with the sizing record
<i>userId</i>	integer	Database ID of the user who owns the sizing record
<i>addDate</i> (25)	char	Date created
<i>lastUpdate</i> (25)	char	Date of last update
<i>state</i> (7)	char	Sizing record state
<i>sizing</i> (127)	char	Text of sizing information
<i>releaseId</i>	integer	Database ID of the release associated with the sizing record

SizeView**

Sizing records

Field name (length)	Data type	Description
<i>defectId</i>	integer	Database ID of the feature or defect
<i>compId</i>	integer	Database ID of the component associated with the sizing record
<i>userId</i>	integer	Database ID of the user who owns the sizing record
addDate (25)	char	Date created
lastUpdate (25)	char	Date of last update
state (7)	char	Sizing record state
sizing (127)	char	Text of sizing information
<i>releaseId</i>	integer	Database ID of the release associated with the sizing record
featurePrefix (31)	char	Feature or defect prefix
featureName (31)	char	Feature or defect identifier
featureAbstract (127)	char	Feature or defect abstract
featureReference (31)	char	Feature or defect reference
compName (63)	char	Component name
userLogin (31)	char	Sizing record owner's TeamConnection user ID
userName (63)	char	Sizing record owner's full name
userArea (31)	char	Sizing record owner's area or department
releaseName (31)	char	Release name

Raw output:

```
featureName|featureReference|compName|releaseName|sizing|addDate|state|
userName|userLogin|userArea|lastUpdate|featurePrefix|featureAbstract
```

TargetView**

Targets

Field name (length)	Data type	Description
partName	char	nuPathName of the part version
<i>sourceId</i>	integer	Database ID of the target
targetName	char	Name or description of the target
status	char	Status of the target for the part version
targetDate	char	Timestamp (online date) of the status event
active	char	String field to note the active state of the status event

Raw output:

```
partName|targetName|status|targetDate|active
```

Tests

Environment test records table

Field name (length)	Data type	Description
<i>workAreaId</i>	integer	Database ID of the work area
<i>envName</i> (31)	char	Environment name
<i>userId</i>	integer	Database ID of the user who owns the test record
<i>state</i> (15)	char	Environment test record state
<i>addDate</i> (25)	char	Date created
<i>lastUpdate</i> (25)	char	Date of last update

TestView**

Environment test records

Field name (length)	Data type	Description
<i>workAreaId</i>	integer	Database ID of the work area
<i>envName</i> (31)	char	Environment name
<i>userId</i>	integer	Database ID of the user who owns the test record
<i>state</i> (15)	char	Environment test record state
<i>addDate</i> (25)	char	Date created
<i>lastUpdate</i> (25)	char	Date of last update
<i>defectPrefix</i> (31)	char	Defect or feature prefix
<i>defectName</i> (31)	char	Defect or feature identifier
<i>defectReference</i> (31)	char	Defect or feature reference
<i>defectAbstract</i> (127)	char	Defect or feature abstract
<i>defectType</i> (7)	char	Defect or feature
<i>userLogin</i> (31)	char	Test record owner's TeamConnection user ID
<i>userName</i> (63)	char	Test record owner's full name
<i>userArea</i> (31)	char	Test record owner's area or department
<i>releaseName</i> (31)	char	Release name
<i>workAreaName</i> (15)	char	Name of the current work area

Raw output:

workAreaName|*releaseName*|*defectPrefix*|*defectName*|*envName*|*state*|*addDate*|
lastUpdate|*userLogin*|*defectAbstract*|*userName*|*userArea*|*defectReference*

Tracks

Tracks properties table

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the track
<i>releaseId</i>	integer	Database ID of the release associated with the track
<i>defectId</i>	integer	Database ID of the defect or feature
<i>userId</i>	integer	Database ID of the user who owns the track
<i>workAreaId</i>	integer	

Field name (length)	Data type	Description
<i>state</i> (15)	char	Track state
<i>target</i> (31)	char	Target for completion (such as a driver or a date)
<i>actual</i> (31)	char	Driver commit date where track included (actual driver name)
<i>addDate</i> (25)	char	Date created
<i>lastUpdate</i> (25)	char	Date of last update
<i>name</i>	character	

Users**

Users table

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the user
<i>login</i> (31)	char	TeamConnection ID
<i>name</i> (63)	char	User's full name
<i>superUser</i> (3)	char	Superuser privilege? (yes or no)
<i>area</i> (31)	char	User's area or department
<i>address</i> (159)	char	User's sendmail address
<i>addressType</i>	char	
<i>addDate</i> (25)	char	Date created
<i>dropDate</i> (25)	char	Date deleted
<i>lastUpdate</i> (25)	char	Date of last update
<i>pswStatus</i>	char	Status of user account (active or disabled)
<i>pswModifyTime</i>	char	Date when password was modified
<i>pswCreateTime</i>	char	Date when password was deleted

Raw output:

login|*name*|*area*|*address*|*addDate*|*dropDate*|*lastUpdate*|*superUser*

Verify

Verification record properties table

Field name (length)	Data type	Description
<i>defectId</i>	integer	Database ID of the defect or feature
<i>userId</i>	integer	Database ID of the user who owns the verification record
<i>type</i> (15)	char	original or duplicate
<i>state</i> (15)	char	Verification record state
<i>addDate</i> (25)	char	Date created
<i>lastUpdate</i> (25)	char	Date of last update

VerifyView**

Verification record properties

Field name (length)	Data type	Description
<i>defectId</i>	integer	Database ID of the defect or feature

Field name (length)	Data type	Description
<i>userId</i>	integer	Database ID of the user who owns the verification record
<i>verifyType</i> (15)	char	Original or duplicate
<i>state</i> (15)	char	Verification record state
<i>addDate</i> (25)	char	Date created
<i>lastUpdate</i> (25)	char	Date of last update
<i>defectPrefix</i> (31)	char	Defect or feature prefix
<i>defectName</i> (31)	char	Defect or feature identifier
<i>defectReference</i> (31)	char	Defect or feature reference
<i>defectAbstract</i> (127)	char	Defect or feature abstract
<i>userLogin</i> (31)	char	Verification record owner's TeamConnection user ID
<i>userName</i> (63)	char	Verification record owner's full name
<i>userArea</i> (31)	char	Verification record owner's area or department
<i>compName</i> (63)	char	Name of component associated with the defect or feature
<i>defectType</i> (7)	char	Defect or feature

Raw output:

```
defectName|state|addDate|userLogin|userArea|type|userName|defectAbstract|
lastUpdate|defectPrefix|defectReference|compName
```

Versions

Version record properties table

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the part version
<i>previousId</i>	integer	Database ID of the part's previous version
<i>partId</i>	integer	Database ID of the part
<i>nuPathId</i>	integer	Database ID of the path name
<i>nuAddDate</i> (25)	char	New creation date for the part
<i>nuDropDate</i> (25)	char	New delete date for the part
<i>changeDate</i> (25)	char	Date the version was made
<i>SID</i> (47)	char	Part version name
<i>releaseName</i>	char	Release name
<i>changeType</i>	char	The type of change to the part. A value of bulk means the part's content has changed; attributes means the part's attributes have changes; all means both the contents and attributes have changed; and none means the part has not changed.
<i>workAreaChange</i>	char	The type of change to the part in the work area. A value of bulk means the part's content has changed; attributes means the part's attributes have changes; all means both the contents and attributes have changed; and none means the part has not changed.
<i>sourceId</i>	integer	Database ID of the part's source that is used to identify common parts
<i>transState</i> (15)	char	Translation state of the part.

VersionView**

Database version properties

Field name (length)	Data type	Description
<i>releaseId</i>	integer	Database ID of the release
<i>workAreaId</i>	integer	Database ID of the work area
<i>name</i> (31)	char	Name of the version
<i>addDate</i> (25)	char	Date created
<i>freezeDate</i> (25)	char	Date frozen
<i>releaseVersion</i> (31)	char	Version in the release
<i>hasSuccessor</i> (3)	char	Does this version have a successor? (yes or no)
<i>releaseName</i> (31)	char	Release name
<i>workAreaName</i> (31)	char	Work area name associated with version
<i>predecessor</i> (31)	char	Previous version
<i>hasOutputs</i> (3)	char	Does the version have outputs? (yes or no)
<i>sidSequence</i>	integer	
<i>remarks</i>	char	

Raw output:

name|*workAreaName*|*releaseName*|*predecessor*|*hasSuccessor*|*releaseVersion*|
hasOutputs|*addDate*|*freezeDate*

Workareas

Work areas properties table

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the work area
<i>releaseId</i>	integer	Database ID of the release associated with the work area
<i>trackId</i>	integer	Database ID of the associated track
<i>name</i> (15)	char	Work area name
<i>branchPoint</i> (47)	char	The branch point of the work area

WorkAreaView**

Work area properties

Field name (length)	Data type	Description
<i>id</i>	integer	Database ID of the work area
<i>trackId</i>	integer	Database ID of the associated track
<i>releaseId</i>	integer	Database ID of the release associated with the work area
<i>defectId</i>	integer	Database ID of the defect or feature
<i>userId</i>	integer	Database ID of the user who owns the work area
<i>workAreaId</i>	integer	Database ID of the associated work area
<i>name</i> (15)	char	Name of the current work area
<i>state</i> (15)	char	Work area state
<i>target</i> (31)	char	Target for completion

Field name (length)	Data type	Description
actual (31)	char	Name of driver where work area is committed
addDate (25)	char	Date created
lastUpdate (25)	char	Date of last update
defectPrefix (31)	char	Defect or feature prefix
defectName (31)	char	Defect or feature identifier
defectReference (31)	char	Defect or feature reference
defectAbstract (127)	char	Defect or feature abstract
defectType (7)	char	Defect or feature
releaseName (31)	char	Release name
userLogin (31)	char	Work area owner's TeamConnection user ID
userName (63)	char	Work area owner's full name
userArea (31)	char	Work area owner's area or department
branch point (47)	char	Branch point of the work area

Raw output:

```
name|releaseName|defectName|defectReference|state|target|addDate|userLogin|
  userName|userArea|actual|lastUpdate|defectPrefix|defectAbstract|defectType|
  branchPoint
```

Customer support

Your options for IBM VisualAge TeamConnection Enterprise Server support, as described in your License Information and Licensed Program Specifications, include electronic forums. You can use the electronic forums to access IBM VisualAge TeamConnection Enterprise Server technical information, exchange messages with other TeamConnection users, and receive information regarding the availability of fixes. The following forums are available.

- **IBM Talklink**

Use the TEAMC CFORUM. For additional information about TalkLink, call:

- United States 1-800-547-1283

or go to:

- <http://www.ibm.link.ibm.com/talklink>

- **CompuServe**

From any ! prompt, type GO SOFSOL, then select TeamConnection. For additional information, call 1-800-848-8199.

- **Internet**

- Go to the IBM homepage, <http://www.ibm.com>. Use the search function with keyword TeamConnection to go to the TeamConnection area.
- Use ftp and login as anonymous to [ftp.software.ibm.com](ftp://ftp.software.ibm.com). In the directory [ps/products/teamconnection](ftp://ftp.software.ibm.com/ps/products/teamconnection) you can find fixes and information related to VisualAge TeamConnection.

If you cannot access these forums, contact your IBM representative.

There are several other support offerings available after purchasing IBM VisualAge TeamConnection Enterprise Server.

- If you live within the U.S.A., call any of the following numbers:
 - 1-800-237-5511 to learn about available service options.
 - 1-800-IBM-CALL (1-800-426-2255) to order products or get general information.
 - 1-800-879-2755 to order publications.
- Contacting IBM outside of the United States
For information on how to contact IBM outside of the United States, see Appendix A of the IBM Software Support Handbook, which can be located by selecting the "Service Offerings" item at: <http://www.ibm.com/support>.

Note: In some countries, IBM-authorized dealers should contact their dealer support structure instead of the IBM Support Center.

IBM Lotus Passport Advantage Program

For more information on the IBM Lotus Passport Advantage volume licensing program which provides customers with a series of contract offerings under which they can acquire licenses, software subscriptions, and support, go to:

- <http://www.lotus.com/passportadvantage>

DB2 service maintenance and technical library

To download the latest service maintenance for DB2, use the DB2 Service and Support on the World Wide Web at:

- <http://www.software.ibm.com/data/db2/db2tech>

Note: Even though DB2 is bundled with VisualAge TeamConnection you should contact VisualAge TeamConnection Support to report DB2 problems. The licensing for VisualAge TeamConnection does not entitle you to contact directly DB2 Support.

For a complete and up-to-date source of DB2 information, use the DB2 Product and Service Technical Library, in English only, on the World Wide Web at:

- <http://www.software.ibm.com/data/db2/library>

Bibliography

IBM VisualAge TeamConnection Enterprise Server library

The following is a list of the TeamConnection publications. For a list of other publications about TeamConnection, including white papers, technical reports, a product fact sheet, and the product announcement letter, refer to the IBM VisualAge TeamConnection Enterprise Server Library home page. To access this home page, select **Library** from the IBM VisualAge TeamConnection Enterprise Server home page at URL <http://www.software.ibm.com/ad/teamcon>.

- **License Information (GC34-4497):**

Contains license, service, and warranty information.

- **Installation Guide (GC34-4742):**

Lists the hardware and software that are required before you can install and use the IBM VisualAge TeamConnection Enterprise Server product, provides detailed instructions for installing the TeamConnection server and client.

- **Administrator's Guide (GC34-4551):**

Provides instructions for configuring the TeamConnection family server and administering a TeamConnection family.

- **Getting Started with the TeamConnection Clients (SC34-4552):**

Tells first-time users how to install the TeamConnection clients on their workstations, and familiarizes them with the command line and graphical user interfaces.

- **User's Guide (SC34-4499):**

A comprehensive guide for TeamConnection administrators and client users that helps them install and use TeamConnection.

- **Commands Reference (SC34-4501):**

Describes the TeamConnection commands, their syntax, and the authority required to issue each command. This book also provides examples of how to use the various commands.

- **Quick Commands Reference (GC34-4500):**

Lists the TeamConnection commands along with their syntax.

- **Staying on Track with TeamConnection Processes (83H9677):**

Poster showing how objects flow through the states defined for each TeamConnection process.

- The following publications can be ordered as a set (SBOF-8560):

Administrator's Guide

Getting Started with the TeamConnection Clients

User's Guide

Commands Reference

Quick Commands Reference

Staying on Track with TeamConnection Processes

TeamConnection technical reports

The following is a list of technical reports available for TeamConnection. Refer to the IBM VisualAge TeamConnection Enterprise Server Library home page for the most up-to-date list of technical reports. To access this home page, select **Library** from the IBM VisualAge TeamConnection Enterprise Server home page at URL <http://www.software.ibm.com/ad/teamcon>.

29.2147	SCLM Guide to TeamConnection Terminology
29.2196	Using REXX command files with TeamConnection MVS Build Scripts
29.2231	TeamConnection Interoperability with MVS and SCLM
29.2235	Using REXX command files with TeamConnection MVS Build Scripts for PL/I programs
29.2253	Comparison between CMVC 2.3 and TeamConnection 2
29.2254	Migrating from CMVC 2.3 to TeamConnection 2
29.2267	TeamConnection frequently asked questions: how to do routine operating system tasks

DB2

The following publications are part of the IBM DB2 Universal Database library of documents for DB2 administration. DB2 publications are available in HTML format from the DB2 Product and Service Technical Library at the following URL:

<http://www.software.ibm.com/data/db2/library/>

- *Administration Getting Started* (S10J-8154-00)
An introductory guide to basic administration tasks and the DB2 administration tools.
- *SQL Getting Started* (S10J-8156-00)
Discusses basic concepts of DB2 SQL.
- *Administration Guide* (S10J-8157-00)
A complete guide to administration tasks and the DB2 administration tools.
- *SQL Reference* (S10J-8165-00)
A reference to DB2 SQL for programmers and database administrators.
- *Troubleshooting Guide* (S10J-8169-00)
A guide to identifying and solving problems with DB2 servers and clients and to using the DB2 diagnostic tools.
- *Messages Reference* (S10J-8168-00)
Provides detailed information about DB2 messages.
- *Command Reference* (S10J-8166-00)
Provides information about DB2 system commands and the command line processor.
- *Replication Guide* (S10J-0999-00)
Describes how to plan, configure, administer, and operate IBM replication tools available with DB2.
- *System Monitor Guide and Reference* (S10J-8164-00)
Describes how to monitor DB2 database activity and analyze system performance.
- *Glossary*
A comprehensive glossary of DB2 terms.

Related publications

- Transmission Control Protocol/Internet Protocol (TCP/IP)
 - *TCP/IP 2.0 for OS/2: Installation and Administration* (SC31-6075)
 - *TCP/IP for MVS Planning and Customization* (SC31-6085)
- MVS
 - *MVS/XA JCL User's Guide* (GC28-1351)
 - *MVS/XA JCL Reference* (GC28-1352)
 - *MVS/ESA JCL User's Guide* (GC28-1830)
 - *MVS/ESA JCL Reference* (GC28-1829)
- NLS and DBCS
 - *AIX 4, General Programming Concepts: Writing and Debugging Programs*. (SC23-2533-02). See chapter 16 "National Language Support" for an updated contents of the AIX 3 material (see below).
 - *AIX 4, System Management Guide: Operating System and Devices* (SC23-2525-03). See chapter 10, "National Language Support" for system tasks.
 - *AIX Version 3.2 for RISC System/6000, National Language Support* (GG24-3850).
 - *Internationalization of AIX Software, A Programmer's Guide* (SC23-2431).
 - *National Language Design Guide Volume 1* (SE09-8001-02). This manual contains very good information on how to enable an application for NLS.
 - *National Language Design Guide Volume 2* (SE09-8002-02). This manual provides information on the IBM language codes (consult the "Language codes" chapter).

Glossary

This glossary includes terms and definitions from the *IBM Dictionary of Computing*, 10th edition (New York: McGraw-Hill, 1993). If you do not find the term you are looking for, refer to this document's index or to the *IBM Dictionary of Computing*.

This glossary uses the following cross-references:

Compare to

Indicates a term or terms that have a similar but not identical meaning.

Contrast with

Indicates a term or terms that have an opposed or substantially different meaning.

See also

Refers to a term whose meaning bears a relationship to the current term.

A

absolute path name. A directory or a part expressed as a sequence of directories followed by a part name beginning from the root directory.

access list. A set of objects that controls access to data. Each object consists of a component, a user, and the authority that the user is granted or is restricted from in that component. See also *authority*, *granted authority*, and *restricted authority*.

action. A task performed by the TeamConnection server and requested by a TeamConnection client. A TeamConnection action is the same as issuing one TeamConnection command.

agent. See *build agent*.

alternate version ID. In collision records, the database ID of the version of a driver, release, or work area where the conflicting version of a part is visible.

approval record. A status record on which an approver must give an opinion of the proposed part changes required to resolve a defect or implement a feature in a release.

approver. A user who has the authority to mark an approval record with accept, reject, or abstain within a specific release.

approver list. A list of user IDs attached to a release, representing the users who must review part changes that are required to resolve a defect or implement a feature in that release.

attribute. Information contained in a field that is accessible to the user. TeamConnection enables family administrators to customize defect, feature, user, and part tables by adding new attributes.

authority. The right to access development objects and perform TeamConnection commands. See also *access list*, *base authority*, *explicit authority*, *granted authority*, *implicit authority*, *restricted authority*, and *superuser privilege*.

B

base authority. The set of actions granted to a user when a user ID is created within a TeamConnection family. See also *authority*. Contrast with *implicit authority* and *explicit authority*.

base name. The name assigned to the part outside of the TeamConnection server environment, excluding any directory names. See also *path name*.

base part tree. The base set of parts associated with a release, to which changes are applied over time. Each committed driver or work area for a release updates the base part tree for that release.

build. The process used to create applications within TeamConnection.

build associate. A TeamConnection part that is not an input to or an output from a build. An example of such a part is a read.me file.

build cache. A directory that the build processor uses to enhance performance.

build dependent. A TeamConnection part that is needed for the compile operation to complete, but it will not be passed directly to the compiler. An example of this is an include file. See also *dependencies*.

builder. An object that can transform one set of TeamConnection parts into another by invoking tools such as compilers and linkers.

build event. An individual step in the build of an application, such as the compiling of hello.c into hello.obj.

build input. A TeamConnection part that will be used as input to the object being built.

build output. A TeamConnection part that will be generated output from a build, such as an .obj or .exe file.

build pool. A group of build servers that resides in an environment. The environment in which several build

servers operate. Typically, several servers are set up for each environment that the enterprise develops applications for.

build scope. A collection of build events that implement a specific build request. See also *build event*.

build script. An executable or command file that specifies the steps that should occur during a build operation. This file can be a compiler, a linker, or the name of a .cmd file you have written.

build server. A program that invokes the tools, such as compilers and linkers, that construct an application.

build target. The name of the part at the top of the build tree which is the final output of a build. TeamConnection uses the build target to determine the scope of the build. See also *build tree*.

build tree. A graphical representation of the dependencies that the parts in an application have on one another. If you change the relationship of one part to another, the build tree changes accordingly.

C

change control process. The process of limiting and auditing changes to parts through the mechanism of checking parts in and out of a central, controlled, storage location. Change control for individual releases can be integrated with problem tracking by specifying a process for the release that includes the tracking subprocess.

check in. The return of a TeamConnection part to version control.

check out. The retrieval of a version of a part under TeamConnection control. In non-concurrent releases, the check out operation does not allow a second user to check out a part until the first user has checked it back in.

child component. Any component in a TeamConnection family, except the root component, that is created in reference to an existing component. The existing component is the parent component, and the new component is the child component. A parent component can have more than one child component, and a child component can have more than one parent component. See also *component* and *parent component*.

child part. Any part in a build tree that has a parent defined. A child part can be input, output, or dependent. See also *part* and *parent part*.

client. A functional unit that receives shared services from a server. Contrast with *server*.

collision record. A status record associated with a work area or driver, a part, and one of the following:

- The work area or driver's release
- Another work area

TeamConnection generates a collision record when a user attempts to replace an older version of a part with a modified version, another user has already modified that part, and the first user's modification is not based on this latest version of the part.

command. A request to perform an operation or run a program from the command line interface. In TeamConnection, a command consists of the command name, one action flag, and zero or more attribute flags.

command line. (1) An area on the Tasks window or in the TeamConnection Commands window where a user can type TeamConnection commands. (2) An area on an operating system window where you can type TeamConnection commands.

committed version. The revision of a part that is visible from the release.

common part. A part that is shared by two or more releases, and the same version of the part is the current version for those releases.

comparison operator. An operator used in comparison expressions. Comparison operators used in TeamConnection are > (greater than), < (less than), >= (greater than or equal to), <= (less than or equal to), = (equal to), and <> (different from).

component. A TeamConnection object that organizes project data into structured groups, and controls configuration management properties. Component owners can control access to data and notification of TeamConnection actions. Components exist in a parent-child hierarchy, with descendant components inheriting access and notification information from ancestor components. See also *access list* and *notification list*.

concurrent development. Several users can work on the same part at the same time. TeamConnection requires these users to reconcile their changes when they commit or integrate their work areas and drivers with the release. Contrast with *serial development*. See also *work area*.

configuration management. The process of identifying, managing, and controlling software modules as they change over time.

connecting parts. The process of linking parts so that they are included in a build.

context. The current work area or driver used for part operations.

corequisite work areas. Two or more work areas designated as corequisites by a user so that all work areas in the corequisite group must be included as

members in the same driver, before that driver can be committed. If the driver process is not used in the release, then all corequisite work areas must be integrated by the same command. See also *prerequisite work areas*.

current version. The last visible modification of a part in a driver, release, or work area.

current working directory. (1) The directory that is the starting point for relative path names. (2) The directory in which you are working.

D

daemon. A program that runs unattended to perform a standard service. Some daemons are triggered automatically to perform their task; others operate periodically.

database. A collection of data that can be accessed and operated upon by a data processing system for a specific purpose.

default. A value that is used when an alternative is not specified by the user.

default query. A database search, defined for a specific TeamConnection window, that is issued each time that TeamConnection window is opened. See also *search*.

defect. A TeamConnection object used to formally report a problem. The user who opens a defect is the defect originator.

delete. If you delete a development object, such as a part or a user ID, any reference to that object is removed from TeamConnection. Certain objects can be deleted only if certain criteria are met. Most objects that are deleted can be re-created.

delta part tree. A directory structure representing only the parts that were changed in a specified place.

dependencies. In TeamConnection builds there are two types of dependencies:

- **automatic.** These are build dependencies that a parser identifies.
- **manual.** These are build dependencies that a user explicitly identifies in a build tree.

See also *build dependent*.

descendant. If you descendant a development object, such as, a part or a user ID, any reference to that object is removed from TeamConnection. Certain objects can be descendant only if certain criteria are met. Most objects that are descendants can be re-created.

disconnecting parts. The process of unlinking parts so that they are not included in a build.

driver. A collection of work areas that represent a set of changed parts within a release. Drivers are only associated with releases whose processes include the track and driver subprocesses.

driver member. A work area that is added to a driver.

E

end user. See *user*.

environment. (1) A user-defined testing domain for a particular release. (2) A defect field, in which case it is the environment where the problem occurred. (3) The string that matches a build server with a build event.

environment list. A TeamConnection object used to specify environments in which a release should be tested. A list of environment-user ID pairs attached to a release, representing the user responsible for testing each environment. Only one tester can be identified for an environment.

explicit authority. The ability to perform an action against a TeamConnection object because you have been granted the authority to perform that action. Contrast with *base authority* and *implicit authority*.

extract. A TeamConnection action you can perform on a builder, part, driver or release builder. An extraction results in copying the specified builder, part, or parts contained in the driver or release to a client workstation.

F

family. A logical organization of related data. A single TeamConnection server can support multiple families. The data in one family cannot be accessed from another family.

family administrator. A user who is responsible for all nonsystem-related tasks for one or more TeamConnection families, such as planning, configuring, and maintaining the TeamConnection environment and managing user access to those families.

family server. A workstation running the TeamConnection server software.

FAT. See *file allocation table*.

feature. A TeamConnection object used to formally request and record information about a functional addition or enhancement. The user who opens a feature is the feature originator.

file. A collection of data that is stored by the TeamConnection server and retrieved by a path name. Any text or binary file used in a development project

can be created as a TeamConnection file. Examples include source code, executable programs, documentation, and test cases.

file allocation table (FAT). The DOS-, OS/2-, Windows 95-, and Windows NT-compatible file system that manages input, output, and storage of files on your system. File names can be up to 8 characters long, followed by a file extension that can be up to 3 characters.

fix record. A status record that is associated with a work area and that is used to monitor the phases of change within each component that is affected by a defect or feature for a specific release.

freeze. The freeze action saves changed parts to the work area. Thus, TeamConnection takes a snapshot of the work area, including all of the current versions of parts visible from that work area, and saves this image of the system. The user can always come back to this stage of development in the work area. Note, however, that a freeze action does not make the changes visible to the other people working in the release. Compare with *refresh*.

full part tree. A directory structure representing a complete set of active parts associated with the release.

G

Gather. A tool to organize files for distribution into a specified directory structure. This tool can be used as a prelude to further distribution, such as using CD-ROM or through electronic means like NetView DM/2. It can also be used by itself for distributing file copies to network-attached file systems.

GID. A number which uniquely identifies a file's group to a UNIX system.

granted authority. If an authority is granted on an access list, then it applies for all objects managed by this component and any of its descendants for which the authority is not restricted. See also *access list*, *authority*, and *inheritance*. Contrast with *restricted authority*.

graphical user interface (GUI). A type of computer interface consisting of a visual metaphor of a real-world scene, often as a desktop. Within that scene are icons, representing actual objects, that the user can access and manipulate with a pointing device.

GUI. Graphical user interface.

H

high-performance file system (HPFS). In the OS/2 operating system, an installable file system that uses high-speed buffer storage, known as a cache, to provide

fast access to large disk volumes. The file system also supports the existence of multiple, active file systems on a single personal computer, with the capacity of multiple and different storage devices. File names used with HPFS can have as many as 254 characters.

host. A host node, host computer, or host system.

host list. A list associated with each TeamConnection user ID that indicates the client machine that can access the family server and act on behalf of the user. The family server uses the list to authenticate the identity of a client machine when the family server receives a command. Each entry consists of a login, a host name, and a TeamConnection user ID.

host name. The identifier associated with the host computer.

HPFS. See *high-performance file system*.

I

implicit authority. The ability to perform an action on a TeamConnection object without being granted explicit authority. This authority is automatically granted through inheritance or object ownership. Contrast with *base authority* and *explicit authority*.

import. To bring in data. In TeamConnection, to bring selected items into a field from a matching TeamConnection object window.

inheritance. The passing of configuration management properties from parent to child component. The configuration management properties that are inherited are access and notification. Inheritance within each TeamConnection family or component hierarchy is cumulative.

integrated problem tracking. The process of integrating problem tracking with change control to track all reported defects, all proposed features, and all subsequent changes to parts. See also *change control*.

interest group. The list of actions that trigger notification to the user IDs associated with those actions listed in the notification list.

J

job queue. A queue of build scopes. One job queue exists for each TeamConnection family.

L

local version ID. In collision records, the database ID of the version of the current work area.

lock. An action that prevents editing access to a part stored in the TeamConnection development environment so that only one user can change a part at a time.

login. The name that identifies a user on a multi-user system, such as AIX or HP-UX, Solaris, or Windows NT. In OS/2 and Windows 95, the login value is obtained from the TC_USER environment variable.

M

map. The process of reassigning the meaning of an object.

metadata. In databases, data that describe data objects.

N

name server. In TCP/IP, a server program that supplies name-to-address translation by mapping domain names to Internet addresses.

National Language Support (NLS). The modification or conversion of a United States English product to conform to the requirements of another language or country. This can include the enabling or retrofitting of a product and the translation of nomenclature, MRI, or documentation of a product.

Network File System (NFS). The Network File System is a program that enables you to share files with other computers in networks over a variety of machine types and operating systems.

notification list. An object that enables component owners to configure notification. A list attached to a component that pairs a list of user IDs and a list of interest groups. It designates the users and the corresponding notification interest that they are being granted for all objects managed by this component or any of its descendants.

notification server. A server that sends notification messages to the client.

NTFS. NT file system.

NVBridge. A tool for automatic electronic distribution of TeamConnection software deliverables within a NetView DM/2 network.

O

operator. A symbol that represents an operation to be done. See also *comparison operators*.

originator. The user who opens a defect or feature and is responsible for verifying the outcome of the defect or feature on a verification record. This responsibility can be reassigned.

owner. The user who is responsible for a TeamConnection object within a TeamConnection family, either because the user created the object or was assigned ownership of the object.

P

parent component. All components in each TeamConnection family, except the root component, are created in reference to an existing component. The existing component is the parent component. See also *child component* and *component*.

parent part. Any part in a build tree that has a child defined. See also *part* and *child part*.

parser. A tool that can read a source file and report back a list of dependencies of that source file. It frees a developer from knowing the dependencies one part has on other parts to ensure a complete build is performed.

part. A collection of data that is stored by the family server and retrieved by a path name. They include text objects, binary objects, and modeled objects. These parts can be stored by the user or the tool, or they can be generated from other parts, such as when a linker generates an executable file.

path name. The name of the part under TeamConnection control. A path name can be a directory structure and a base name or just a base name. It must be unique within each release. See also *base name*.

pool. See *build pool*.

pop-up menu. A menu that, when requested, appears next to the object it is associated with.

prerequisite work areas. If a part is changed to resolve more than one defect or feature, the work area referenced by the first change is a prerequisite of the work area referenced by later changes. A work area is a prerequisite to another work area if:

- Part changes are checked in, but not committed, for the first work area.
- One or more of the same parts are checked out, changed, and checked in again for the second work area.

problem tracking. The process of tracking all reported defects through to resolution and all proposed features through to implementation.

process. A combination of TeamConnection subprocesses, configured by the family administrator, that controls the general movement of TeamConnection objects (defects, features, work areas, and drivers) from state to state within a component or release. See also *subprocess* and *state*.

Q

query. A request for information from a database, for example, a search for all defects that are in the open state. See also *default query* and *search*.

R

raw format. Information retrieved on the report command that has the vertical bar delimiter separating field information, and each line of output corresponds to one database record.

refresh. This TeamConnection action updates a work area with any changes from the release, and it also freezes the work area, if it is not already frozen.

relative path name. The name of a directory or a part expressed as a sequence of directories followed by a part name, beginning from the current directory.

release. A TeamConnection object defined by a user that contains all the parts that must be built, tested, and distributed as a single entity.

restricted authority. The limitation on a user's ability to perform certain actions at a specific component. Authority can be restricted by the superuser, the component owner, or a user with AccessRestrict authority. See also *authority*.

root component. The initial component that is created when a TeamConnection family is configured. All components in a TeamConnection family are descendants of the root component. Only the root component has no parent component. See also *component*, *child component*, and *parent component*.

S

search. To scan one or more data elements of a set in a database to find elements that have certain properties.

serial development. While a user has parts checked out from a work area, no one else on the team can check out the part. The user develops new material without interacting with other developers on the project. TeamConnection provides the opportunity to hold the part until the user is sure that it integrates with the rest of the application. Thus, the lock is not released until the work area as a whole is committed. Contrast with *concurrent development*. See also *work area*.

server. A workstation that performs a service for another workstation.

shadow. A collection of parts in a filesystem that reflects the contents of a TeamConnection workarea, driver, or release.

shared part. A part that is contained in two or more releases.

shell script. A series of commands combined in a file that carry out a function when the file is run.

SID. The name of a version of a driver, release, or work area.

sizing record. A status record created for each component-release pair affected by a proposed defect or feature. The sizing record owner must indicate whether the defect or feature affects the specified component-release pair and the approximate amount of work needed to resolve the defect or implement the feature within the specified component-release pair.

stanza format. Data output generated by the Report command in which each database record is a stanza. Each stanza line consists of a field and its corresponding values.

state. Work areas, drivers, features, and defects move through various states during their life cycles. The state of an object determines the actions that can be performed on it. See also *process* and *subprocess*.

subprocess. TeamConnection subprocesses govern the state changes for TeamConnection objects. The design, size, review (DSR) and verify subprocesses are configured for component processes. The track, approve, fix, driver, and test subprocesses are configured for release processes. See also *process* and *state*.

superuser. This privilege lets a user perform any action available in the TeamConnection family.

system administrator. A user who is responsible for all system-related tasks involving the TeamConnection server, such as installing, maintaining, and backing up the TeamConnection server and the database it uses.

T

task list. The list of tasks displayed in the Tasks window. The user can customize this list to issue requests for information from the server. Tasks can be added, modified, or deleted from the lists.

TCP/IP. Transmission Control Protocol/Internet Protocol.

TeamConnection client. A workstation that connects to the TeamConnection server by a TCP/IP connection and that is running the TeamConnection client software.

TeamConnection part. A part that is stored by the TeamConnection server and retrieved by a path name, release, type, and work area. See also *part*, *common part*, and *type*.

TeamConnection superuser. See *superuser*.

tester. A user responsible for testing the resolution of a defect or the implementation of a feature for a specific driver of a release and recording the results on a test record.

test record. A status record used to record the outcome of an environment test performed for a resolved defect or an implemented feature in a specific driver of a release.

track subprocess. An attribute of a TeamConnection release process that specifies that the change control process for that release will be integrated with the problem tracking process.

Transmission Control Protocol/Internet Protocol (TCP/IP). A set of communications protocols that support peer-to-peer connectivity functions for both local and wide area networks.

type. All parts that are created through the TeamConnection GUI or on the command line will show up in reports with the type of TCPart as the part type. The TeamConnection GUI and command line can only check in, check out, and extract parts of the type TCPart.

U

user exit. A user exit allows TeamConnection to call a user-defined program during the processing of TeamConnection transactions. User exits provide a means by which users can specify additional actions that should be performed before completing or proceeding with a TeamConnection action.

user ID. The identifier assigned by the system administrator to each TeamConnection user.

V

verification record. A status record that the originator of a defect or a feature must mark before the defect or

feature can move to the closed state. Originators use verification records to verify the resolution or implementation of the defect or feature they opened.

version. (1) A specific view of a driver, release, or work area. (2) A revision of a part.

version control. The storage of multiple versions of a single part along with information about each version.

view. An alternative and temporary representation of data from one or more tables.

W

work area. An object in TeamConnection that you create and associate with a release. When the work area is created, you see the most current view of the release and all the parts that it contains. You can check out the parts in the work area, make modifications, and check them back into the work area. You can also test the modifications without integrating them. Other users are not aware of the changes that you make in the work area until you integrate the work area to the release. While you work on files in a work area, you do not see subsequent part changes in the release until you integrate or refresh your work area.

working part. The checked-out version of a TeamConnection part.

Y

year 2000 ready. IBM VisualAge TeamConnection Enterprise Server is Year 2000 ready. When used in accordance with its associated documentation, TeamConnection is capable of correctly processing, providing and/or receiving date data within and between the twentieth and twenty-first centuries, provided that all products (for example, hardware, software and firmware) used with the product properly exchange accurate date data with it.

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