

Remote Control Console User's Guide



Special notice

Before using this information and the product it supports, read the information in Notices.

Edition notice

This edition applies to version 10.0 of BigFix and to all subsequent releases and modifications until otherwise indicated in new editions.

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Chapter 1. Overview of the Remote Controlsystem

The Remote Control system includes the following main components:

Remote Control Target

The target is installed on every computer that you want to control remotely with Remote Control. It listens for connection requests that come from the controller. You can also start a remote control session over the internet with a target, by using a broker.

Targets that are outside of your intranet can be configured to register their details with the server. Sessions with these targets are managed by server policies. The targets must be deployed with the **Managed** property set to Yes. The **ServerURL** and **BrokerList** properties must also be configured. Targets can also be configured so that they do not send their details to the server. These targets are classed as unregistered targets. You can install the target software and set the **Managed** property to No. The **BrokerList** property must also be set. You can also use the on-demand target features to start a remote control session with a computer that does not have any target software preinstalled. Server policies are used to manage the on-demand sessions. The target software is deleted at the end of the session.

Remote Control Controller

The controller can be installed by using the Fixlet, or by using the installer that is provided for use in peer-to-peer sessions. It can also be launched in context from the remote control server or the Remote Control console. In all instances, the controller can be used to allow the user to control a remote computer on which the remote control target is installed. The controller delivers an interface to several actions, available to the controller user, like remote control, guidance, chat, file transfer, collaboration, and many more.

Remote Control Server

A web application that manages all the deployed targets that are configured for managed mode and to point to the Remote Control Server 's URL. You can deploy it on an existing WebSphere® server, or install it by using the installer package along with an embedded version of WebSphere®. The server listens for HTTP or HTTPS connections by default. When it is installed with the embedded WebSphere® option, WebSphere® it listens on ports 80 and 443. When it is deployed on top of an existing WebSphere® server, the Remote Control server listens on ports 9080 and 9443. The server requires a database server: embedded Derby, only for proof of concept deployments; DB2®, SQL Server, and Oracle are the supported options. Additionally, it can also be configured to synchronize and authenticate user and group data from an LDAPv3 server, such as Active Directory or Tivoli Directory Server. This deployment scenario has the same networking characteristics as peer-topeer. Therefore, direct TCP connectivity is required between all the controllers and all the targets. However, the Remote Control server provides a method of centralized, and finer, policy control, where targets can have different policies that are determined by the user who is trying to start the remote control session. The Server also provides for centralized audit and storage of full session automatic recordings. In this scenario, the controller is not a standalone application, but is started as a Java™ Web Start application from the Remote Control server's web interface to start the remote control session.



Note: Peer-to-peer and managed are not exclusive modes. You can configure the Remote Control target in the following ways:

- To be strictly managed.
- To fail back to peer-to-peer mode when the server is not reachable.
- To accept both peer-to-peer and managed remote control sessions.

The following components can be used only in managed mode:

Remote Control CLI tools

CLI tools are always installed as part of the target component but you can also install them separately. The CLI provides command-line tools for the following tasks:

- Script or integrate the launch of managed remote control sessions.
- Run remote commands on computers with the managed target installed.

Remote Control Gateway

A service that is installed in computers in secure network boundaries, where there is strict control of traffic flows between the secure networks. For example, the firewall at the boundary allows only traffic between a pair of specific IP address and ports. In these scenarios, a network of gateways can be deployed. The gateway routes and tunnels the remote control traffic from the controller, which is located in a particular network zone, to the target that is in a different network zone. The gateway is a native service that can be installed on a computer that has a Windows™ or Linux™ operating system installed. It does not have a default port for listening, although 8881 is a usual choice, and can be configured for multiple incoming listening ports and outgoing connections.

Remote Control Broker

A service that is installed in computers typically in a DMZ so that computers outside the enterprise network, in an Internet cafe or at home, can reach it. The Remote Control broker receives inbound connections from the controller and the target and tunnels the remote control session data between the two components. The broker is a native service that can be installed on a Windows™ or a Linux™ computer. It does not have a default port for listening, but 443 is a recommended option because usually this port is open for outbound connections and has fewer issues with content filtering than, for example, 80 would have.

Chapter 2. Definition of terms that are used in Remote Control

Definitions of some common terms that are used in Remote Control.

Remote control session

Establishing a connection to a computer in your environment to observe or actively control the computer remotely. In the session, the controller user's keyboard and mouse become the primary keyboard and mouse for the remote system. Functions such as chat, guidance, reboot, and file transfer are some of the options available for use in a remote control session. For more information about remote control sessions, see the *BigFix® Remote Control Controller User's Guide*.

Peer-to-peer session

A remote control session that is established directly between the controller and the target. The controller user starts the controller component locally and specifies the target that they want to takeover remotely. The local properties that are set on the target are used for the session. For more information, see Manage target and server configurations (on page 64). For more information about using the controller UI during a session, see the BigFix® Remote Control Controller User's Guide.

Managed remote control session

A remote control session in which the controller user initiates the session from the Remote Control server. The controller component starts and contacts the target to send the session request. The target contacts the server to authenticate the request and obtain the policies and permissions for the session. For more information about policies and permissions for a managed remote control session, see the *BigFix® Remote Control Administrator's Guide*. If the target cannot reach the server, the session is refused.

Session policies

Session policies define the actions that can be carried out by the controller user and the features available on the target system during a remote control session. In a peer to peer session the policies are determined by the local properties that are defined on the target. In a managed session, the policies and permissions that are resolved from user and target group relationships determine what actions can be carried out. For more information about how policies and permissions are derived for a managed remote control session, see the *BigFix® Remote Control Administrator's Guide*.

Chapter 3. The Remote Control console

Remote Control encompasses a host of features that provide the components that are required for remote takeover and monitoring of workstations and servers in your deployment.

The navigation tree in the BigFix® console, which is available for all BigFix® products, serves as your central command for all Remote Control functions. The navigation tree gives you easy access to all reports, wizards, Fixlet messages, analyses, and tasks that are related to controlling and managing the target systems in your network.

Components

The BigFix® Console organizes content into four parts:

Domain pane

Includes navigation tree and list of all domains.

Navigation Tree

Includes list of nodes and subnodes that contain site content.

List pane

Contains listing of tasks and Fixlets.

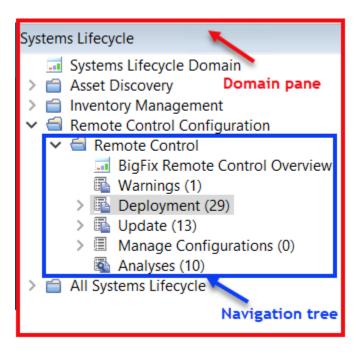
Work Area

Work pane where Fixlet and dialogs display.

In the context of the BigFix® Console, products or sites are grouped by categories or domains. For example, Remote Control is one of the sites that are contained within the Systems Lifecycle domain.

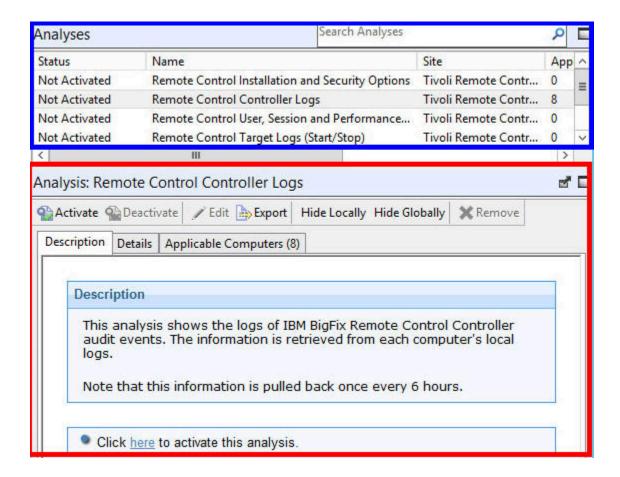
The Domain pane is the area on the left side of the Console that includes a navigation tree and a list of all domains. The Navigation Tree includes a list of nodes and subnodes that contain site content.

Click the Systems Lifecycle domain to see a list of sites that are associated with that domain.



The red outer area represents the entire Domain pane, including the navigation tree and list of domains. The blue inner area contains just the Navigation Tree for the Remote Control site.

Remote Control tasks are sorted by using upper and lower task panes, that are on the right side of the Console.

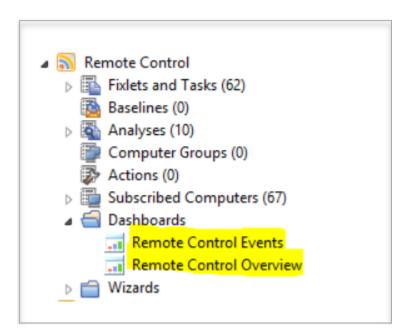


The upper pane, called the List pane, contains columns that sort data according to type, for example, Status, Name, Site, Applicable Computer Count. The lower pane or Work Area presents the Fixlet task pane from which you are directed to take specific actions to customize the content in your deployment.

Chapter 4. Dashboards overview

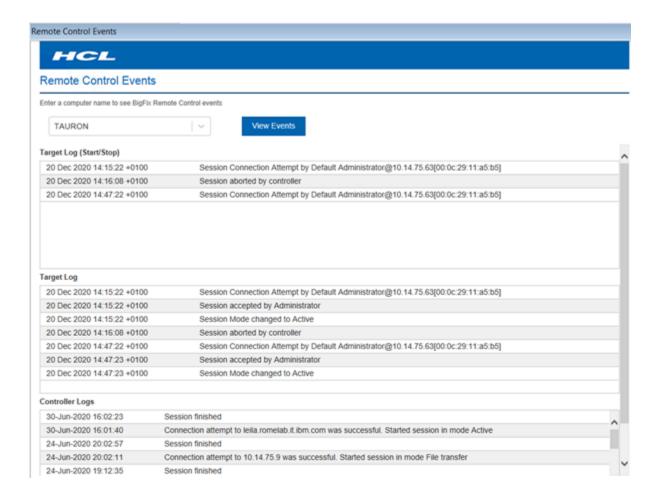
Remote Control offers a couple of convenient dashboards, the **Remote Control Events** for viewing log data gathered from the controller and target logs about the specified computer and the **Remote Control Overview** for viewing the deployment distribution of the Remote Control components in your environment and the distribution of the type of target deployment carried out.

You can access these dashboards from the top of the Remote Control navigation tree by selecting **Remote Control Events** or **Remote Control Overview**:



View Remote Control events

The **Remote Control Events** dashboard includes three separate sections that show log data gathered from the controller and target logs about the specified computer:



View deployment distribution data

The Remote Control Overview dashboard includes two separate sections that show the deployment distribution of Remote Control and the target deployment type distribution.

The **Remote Control Overview Deployment** section displays the number of computers in your environment that have the various Remote Control components installed.

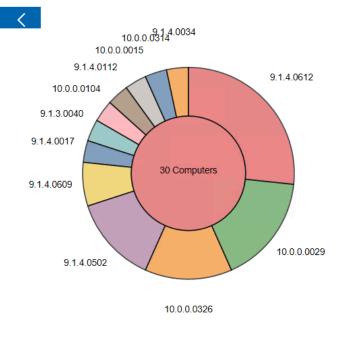


The **Target Deployment Mode** section shows the distribution of the type of target deployment that was carried out, on the computers in your environment. For more information about the different target deployment types, see Deploy the Remote Control components (on page 13).

- To display the latest deployment distribution data, use the refresh icon
- To explore the results of the loaded statistics, click the blue bar. You can view more details such as version of the computer, version of the component installed.

BigFix Remote Control Overview

The BigFix Remote Control site provides capabilities to help manage BigFix Remote Control in your network, including deployment and configu



Using	a	Remote	Control	Server
	-			

ID	Hostname	Version
3190260	WIN2K8R2X64DB2	9.1.4.0017
5066374	HARLOCK	10.0.0.0326
8852036	TAURON	10.0.0.0326
11597462	LEILA	10.0.0.0326
11763516	BRONTOLO	9.1.4.0612
12634239	WIN-HN30K3DNR96	9.1.3.0040
12925969	SHIVA	10.0.0.0029
13202528	SCTEST732	9.1.4.0612
13638627	Target2-M	9.1.4.0609
15777426	leonardo.localdomain	9.1.4.0609
538101114	THOR	10.0.0.0029
540738873	WORACLE12C	9.1.4.0502
545108857	pisolo	9.1.4.0612
546227320	GATEWAY1	9.1.4.0612
550538204	WIN- ETNE5PQGLME	9.1.4.0612
1075457910	ZEFIRO	10.0.0.0029
1077328553	ADMIN-PC	9.1.4.0502
1081922650	MINERVA	10.0.0.0029

- To further filter the component by version, click on the desired pie slice.
- To come back to the complete statistics, click the circle at the center of the graph.
- To come back to the main page, click the back button

Chapter 5. Functions within Remote Control

The Remote Control navigation tree provides a suite of Fixlets, tasks, and wizards. Use the functions to deploy, configure, and update the components that you need to run remote control sessions in your environment. You can also gather data from the components.

Deploy the Remote Control components

The **Deployment** node in the Remote Control navigation tree provides subnodes that are operating system specific. Within the subnodes, you can deploy the components that you need to establish a remote control session. You can also deploy utilities that you can use to connect to targets by using the command line. Select the node that is relevant to your operating system.



Note: The Remote Control components can also be deployed by using the installation files. For more information, see the *BigFix® Remote Control Installation Guide*.

Controller

The controller component must be deployed on the computers that initiate the remote control session when you do not have access to an Remote Control server.

Target

The target component must be deployed on the computers that are controlled during a remote control session. Remote Control offers two ways of deploying the target component. You can install the target for peer-to-peer sessions or for managed sessions. Both of these session types are explained in Definition of terms that are used in Remote Control (on page 4) and in more detail in the BigFix® Remote Control Controller User's Guide.



Note: The "Using the Remote Control server" method requires an Remote Control server to be installed in your environment.

CLI tools

The command line tools contain two utilities that you can run from the command line. Use the utilities to start a remote control session with a target or run commands on a target system without target user interaction. The tools can be useful if you want to connect to a target without accessing the Remote Control Server interface. You can also use them in scripts to run multiple commands in an automated fashion.



Note: To deploy the CLI tools, you must have the URL of an Remote Control server that you have access to.

Gateway

If you have targets, controllers, and servers on different networks that cannot directly contact each other you can install and configure gateway support. Use the gateway support, to configure your network to allow the connections to be established.

Broker

Deploy the broker component when you have targets that are outside of the enterprise network, on the internet. The broker component is used to make the connection between the controller and target in a remote control session through the internet.

Deploy the components on a Windows® system

The Windows deployment node provides a set of tasks that you can use to install or remove the following components in a Windows® operating system environment.

- Target and controller software
- CLI tools
- Gateway support
- Broker support

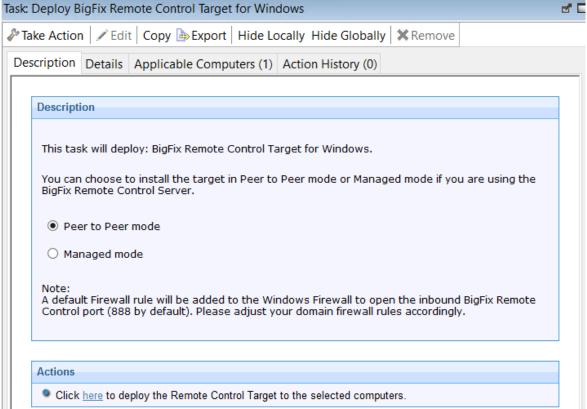
Deploying the Windows® target

Use the **Deploy Remote Control Target for Windows** task to install the target software on a Windows® computer.

To start this task, complete the following steps:

- 1. In the navigation tree, click **Deployment > Windows**.
- 2. Click Deploy Remote Control Target for Windows.
- 3. In the Task pane, review the description and follow the instructions in the Actions box to start the task.

Determine your relevant installation method and follow the instructions that are



given.

Peer to Peer mode

With this installation method, you can establish remote control sessions directly between the controller and the target without the need for an Remote Control server. This deployment method installs the target without requiring an Remote Control server URL to be specified. The local target policies set by this installation method are used when a remote control session is established. For more information about the target installation properties, see Manage target and server configurations (on page 64).

In the Take Action pane on the Target tab, select the relevant option for determining the computers on which to deploy the Remote Control target.

Click OK.

The summary screen shows the progress of the task and displays status *complete* when it is finished.



Note: For the target to register with the Remote Control server in the future, use the Remote Control Target wizard. Create a configuration task and specify the server URL of the relevant server. Run the task on the selected target to reconfigure it so that it can contact the server. For more information about target configuration tasks, see Creating Remote Control target configuration tasks (on page 83). If the secure registration feature is enabled on the server you can distribute a secure registration token to the target. For more information, see Distributing a secure registration token to targets (on page 135).

Managed mode

Choose this installation option for targets to register with the Remote Control server and take part in remote control sessions that are started from the server. This deployment method requires an Remote Control server URL to be specified. If a remote control session is requested with this target, the specified server is contacted to authenticate the request. When the request is authenticated, the policies for the session are passed from the remote control server to the target and the session is established. For more information about target installation properties, see Manage target and server configurations (on page 64).

Enter the URL of your Remote Control server.

Enter a valid secure registration token if the secure target registration feature is enabled on the server.

Description				
This task will deploy: BigFix Remote Control Target for Windows. You can choose to install the target in Peer to Peer mode or Managed mode if you are using the BigFix Remote Control Server.				
O Peer to Peer mode				
Managed mode				
Remote Control server URL :				
Secure registration token (if required) :				
Note: A default Firewall rule will be added to the Windows Firewall to open the inbound BigFix Remote Control port (888 by default). Please adjust your domain firewall rules accordingly.				
Actions				
Click here to deploy the Remote Control Target to the selected computers.				

In the Take Action pane on the Target tab, select the relevant option for determining the computers on which to deploy the Remote Control target.

Click OK.

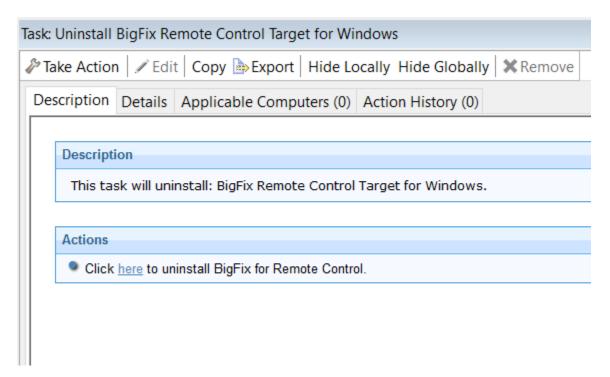
The summary screen shows the progress of the task and status complete when it is finished.

Removing the Windows® target

You can use the **Uninstall Remote Control Target for Windows** task to remove the target software from a Windows® computer that has the target software already installed.

To start the task, complete the following steps:

- 1. Click **Deployment > Windows** in the navigation tree.
- 2. Click Uninstall Remote Control target for Windows.
- 3. In the Task pane, review the description and follow the instructions in the Actions box to start the task.



- 4. In the **Take Action** pane, on the Target tab, select the relevant option for determining which targets to remove the Remote Control target from.
- 5. Click OK.

The summary screen shows the progress of the task.



Note: After the removal of the target, some files might not be deleted automatically. The files are created as part of the installation of the target. These files are in C:

\ProgramData\BigFix\Remote Control\.

Deploying the Windows® controller

You can use the **Deploy Remote Control Controller for Windows** task to install the controller software onto a Windows® computer.



Note: To start a remote control session from the BigFix® console, deploy the controller to the same computer as the console is installed on. However, when the controller is deployed, only the current user who is logged on to the computer that you are deploying to has the rights to see the menu item to start a session. The menu item is not visible to other users.

To start this task, complete the following steps:

- 1. Click **Deployment > Windows** in the navigation tree.
- 2. Click Deploy Remote Control Controller for Windows.
- 3. In the **Task pane**, review the description and follow the instructions in the **Actions** box to start the task.



- 4. In the Take Action pane on the Target tab, select the relevant option for determining which targets to deploy the controller on.
- 5. Click OK.

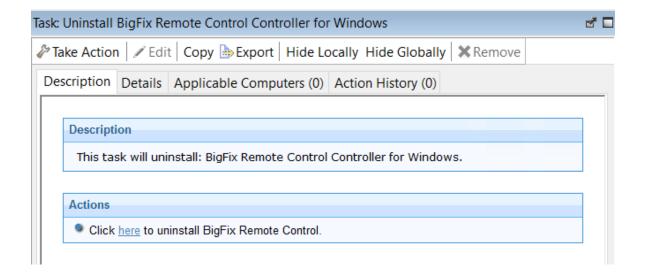
The summary screen shows the progress of the task.

Removing the Windows® controller

You can use the **Uninstall Remote Control Controller for Windows** task to remove the controller software from a Windows® computer that has the controller software already installed.

To start this task, complete the following steps:

- 1. Click **Deployment > Windows** in the navigation tree.
- 2. Click Uninstall Remote Control Controller for Windows.
- 3. In the Task pane, review the description and follow the instructions in the Actions box to start the task.



- 4. In the Take Action pane, in the Target tab, select the relevant option for determining which targets to remove the Remote Control controller from.
- 5. Click OK.

The summary screen shows the progress of the task.

Deploying the Windows® CLI tools

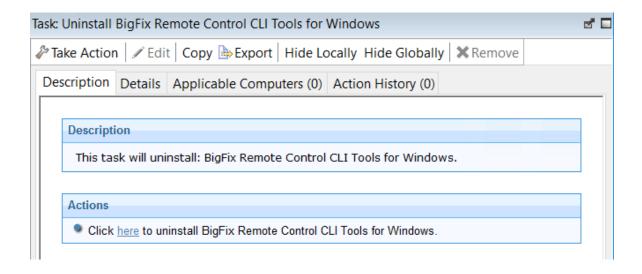
You can use the **Deploy Remote Control CLI Tools for Windows** task to install the CLI tools onto a Windows® computer. Use the CLI tools to start a session from the command line. You can also use the tools to run commands on the remote target.

To initiate this task, complete the following steps:



Note:

- The CLI tools are also installed when you install the target software.
 Therefore, use the **Deploy Remote Control CLI Tools for Windows** Fixlet to deploy the CLI tools only on computers that do not have the target software installed.
- 2. To deploy this task, you need the URL for an Remote Control server that you have access to.
- 1. Click **Deployment > Windows** in the navigation tree.
- 2. Click Deploy Remote Control CLI Tools for Windows.
- 3. In the Task pane, review the description and follow the instructions in the Actions box to start the task.



- 4. Enter the URL of the Remote Control server and click OK.
- 5. In the Take Action pane on the Target tab, select the relevant option for determining which targets to deploy the CLI tools on.
- 6. Click OK.

The summary screen shows the progress of the task.

The two CLI utilities are installed in the \Program Files\BigFix\Remote Control \Target directory on the targets that you selected when you ran the deployment task.

wrc.exe

Use this tool to start a remote control session with a target.

wrcmdpcr.exe

Use this tool to run a command on a target. The output from the command is displayed on the computer that you ran the command from.

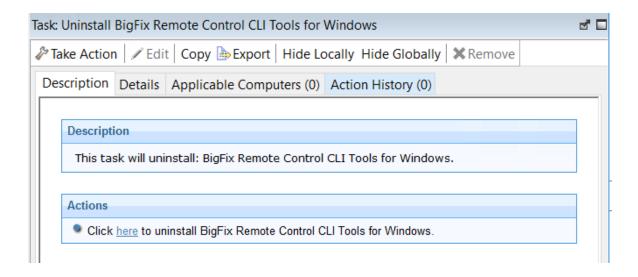
For more information about how to use the command line tools, see the BigFix® Remote Control Controller User's Guide.

Removing the Windows® CLI tools

You can use the **Uninstall Remote Control CLI Tools for Windows** task to remove the CLI tools from a Windows® computer that has the CLI tools already installed.

To start this task, complete the following steps:

- Click **Deployment > Windows** in the navigation tree.
- 2. Click Uninstall Remote Control CLI Tools for Windows.
- 3. In the Task pane, review the description and follow the instructions in the Actions box to start the task.



- 4. In the Take Action pane, in the Target tab, select the relevant option for determining which targets to remove the CLI tools from.
- 5. Click OK.

The summary screen shows the progress of the task. The CLI tools are removed from the selected targets.



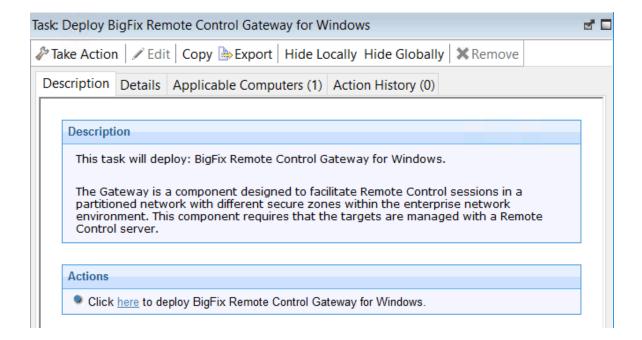
Note: After the removal of the cli tools, some files might not be deleted automatically. The files were created during the installation of the cli tools. These files are in C:\ProgramData\BigFix\Remote Control\.

Deploying the Windows® gateway support

You can use the **Deploy Remote Control Gateway for Windows** task to install gateway support onto a Windows® computer.

To start this task, complete the following steps:

- 1. Click **Deployment > Windows** in the navigation tree.
- 2. Click Deploy Remote Control Gateway for Windows.
- 3. In the Task pane, review the description and follow the instructions in the Actions box to start the task.



- 4. In the Take Action pane on the Target tab, select the relevant option for determining which targets to deploy the gateway support on.
- 5. Click OK.

The summary screen shows the progress of the task.

Gateway support is installed on the targets that you selected when you ran the deployment task. The files are in the \Program Files\BigFix\Remote Control\Gateway directory on the selected targets.

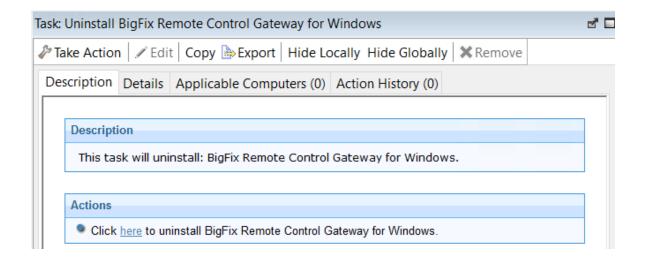
To use the gateway support, you must set up a gateway configuration for your environment. For more information about configuring the gateways, see the BigFix® Remote Control Administrator's Guide

Removing the Windows® gateway support

You can use the **Uninstall Remote Control Gateway support for Windows** task to remove the gateway support files from a Windows® computer.

To initiate this task, complete the following steps:

- 1. Click **Deployment > Windows** in the navigation tree.
- 2. Click Uninstall Remote Control Gateway for Windows.
- 3. In the Task pane, review the description and follow the instructions in the Actions box to start the task.



- 4. In the Take Action pane, in the Target tab, select the relevant option for determining which targets to remove the gateway support from.
- 5. Click OK.

The summary screen shows the progress of the task.

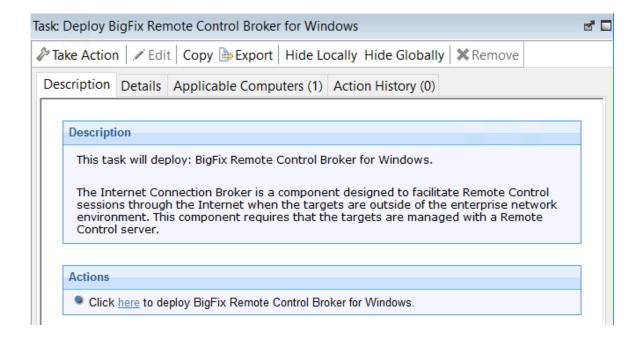
The gateway support files are removed from the selected targets.

Deploying Windows™ broker support

You can use the **Deploy Remote Control Broker for Windows** task to install broker support on a Windows[™] computer

To initiate this task, complete the following steps:

- 1. Click **Deployment > Windows** in the navigation tree.
- 2. Click Deploy Remote Control Broker for Windows.
- 3. In the Task pane, review the description and follow the instructions in the Actions box to start the task.



- 4. In the Take Action pane on the Target tab, select the relevant option for determining which targets to deploy the broker support on.
- 5. Click OK.

The summary screen shows the progress of the task. Broker support is installed on the targets that you selected when you ran the deployment task. The files are installed in the <code>[working dir]\Broker</code> directory on the selected targets. The value of <code>[working dir]</code> is determined by the version of Windows™ operating system that you are installing the broker support on. For example, <code>C:\ProgramData\BigFix\Remote Control</code>. To use the broker support, you must set up a broker configuration for your environment. For more information about configuring the broker, see the <code>BigFix</code>® <code>Remote Control Administrator</code>'s <code>Guide</code>.

Removing Windows™ broker support

You can use the **Uninstall Remote Control Broker for Windows** task to remove broker support from a Windows[™] computer

To initiate this task, complete the following steps:

- 1. Click **Deployment > Windows** in the navigation tree.
- Click Uninstall Remote Control Broker for Windows.
- 3. In the Task pane, review the description and follow the instructions in the Actions box to start the task.



- 4. In the Take Action pane on the Target tab, select the relevant option for determining which targets to remove the broker support from.
- 5. Click OK.

The summary screen shows the progress of the task. The broker support files are removed from the chosen targets.

Deploy the components on a Linux™ system

The **Linux** deployment node provides a set of tasks that you can use to install or remove the following components in a Linux $^{\text{m}}$ environment.

- · Target and controller software
- CLI tools
- Gateway support
- Broker support



Note: The broker component installation package depends on the 32-bit version of the following libraries: glibc libgcc, libblkid, and libstdc++.

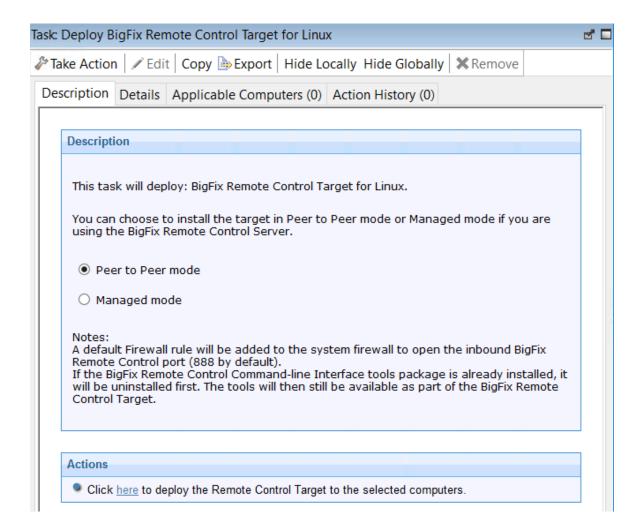
Deploying the Linux® target

You can use the Deploy Remote Control Target for Linux task to install the target software onto a Linux® computer.

To initiate this task, complete the following steps:

- 1. Click **Deployment > Linux** in the navigation tree.
- 2. Click Deploy Remote Control target for Linux.
- 3. In the Task pane, review the description and follow the instructions in the Actions box to start the task.

Determine your installation method and follow the instructions that are given.



Peer to Peer mode

With this installation method, you can establish remote control sessions directly between the controller and the target without the need for an Remote Control server. This deployment method installs the target without requiring an Remote Control server URL to be specified. The local target policies that are set by this installation method are used when a remote control session is established. For more information about target installation properties, see Manage target and server configurations (on page 64).

In the Take Action pane on the Target tab, select the relevant option for determining the computers on which to deploy the Remote Control target.

Click OK.

The summary screen shows the progress of the task.



Note: To register the target on the Remote Control server in the future, use the Target wizard to create a configuration task and specify the server URL of your server. Running this task on the selected target reconfigures it so that it can contact the server. For more information about target configuration tasks, see Creating Remote Control target configuration tasks (on page 83). If the secure registration feature is enabled on the server you can distribute a secure registration token to the target. For more information, see Distributing a secure registration token to targets (on page 135).

Managed mode

Choose this installation option for targets to register with the Remote Control server and take part in remote control sessions started from the server. This deployment method requires an Remote Control server URL to be specified. If a remote control session, started from the Remote Control server, is requested with this target, the specified server is contacted to authenticate the request. When the request is authenticated, the policies that are set for the session are passed from the Remote Control server to the target and the session is started. For more information about target installation properties, see Manage target and server configurations (on page 64).

Enter the URL of your Remote Control server.

Enter a valid secure registration token if the secure target registration feature is enabled on the server.

This task will deploy: BigFix Remote Control Target for Linux. You can choose to install the target in Peer to Peer mode or Managed mode if you are using the BigFix Remote Control Server. Peer to Peer mode Managed mode Notes: A default Firewall rule will be added to the system firewall to open the inbound BigFix Remote Control port (888 by default). If the BigFix Remote Control Command-line Interface tools package is already installed, it will be uninstalled first. The tools will then still be available as part of the BigFix Remote Control Target.

In the Take Action pane on the Target tab, select the relevant option for determining the computers on which to deploy the Remote Control target.

Click OK.

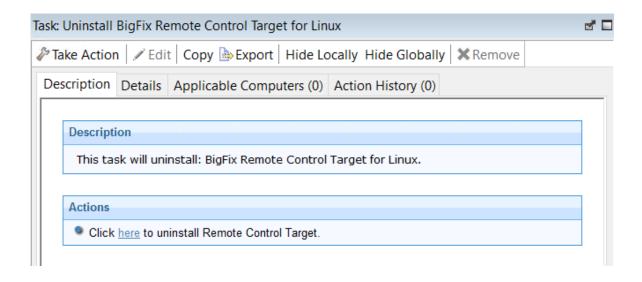
The summary screen shows the progress of the task.

Removing the Linux® target

You can use the **Uninstall Remote Control Target for Linux** task to remove the target software from a Linux® computer.

To initiate this task, complete the following steps:

- 1. Click **Deployment > Linux** > in the navigation tree.
- 2. Click Uninstall Remote Control target for Linux.
- 3. In the Task pane, review the description and follow the instructions in the Actions box to start the task.



- 4. In the Take Action pane, on the Target tab, select the relevant option for determining which targets to remove the Remote Control target from.
- 5. Click OK.



Note: After the removal of the target, some files might not be deleted automatically. The files were created during the installation of the target. These files are in the following directories /opt/bigfix and /var/opt/bigfix/trc/target.

Deploying the Linux® controller

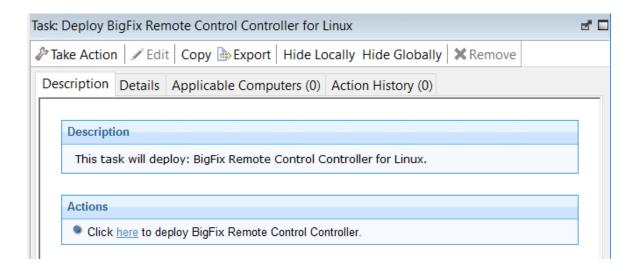
You can use the **Deploy Remote Control Controller for Linux** task to install the controller software onto a Linux® computer.



Note: If you are installing the controller on a Red Hat 6.0 64-bit computer the following extra libraries, along with all their dependencies, must be installed:

```
libXft.i686 libXmu.i686 libXp.i686 libXtst.i686.
```

- 1. Click **Deployment > Linux** in the navigation tree.
- 2. Click Deploy Remote Control Controller for Linux.
- 3. In the Task pane, review the description and follow the instructions in the Actions box to start the task.



- 4. In the Take Action pane on the Target tab, select the relevant option for determining which targets to deploy the controller on.
- 5. Click OK.

Removing the Linux® controller

You can use the **Uninstall Remote Control Controller for Linux** task to remove the controller software from a Linux® computer.

- 1. Click **Deployment > Linux** in the navigation tree.
- 2. Click Uninstall Remote Control Controller for Linux.
- 3. In the Task pane, review the description and follow the instructions in the Actions box to start the task.



- 4. In the Take Action pane, in the Target tab, select the relevant option for determining which targets to remove the Remote Control controller from.
- 5. Click OK.

Deploying the Linux® CLI tools

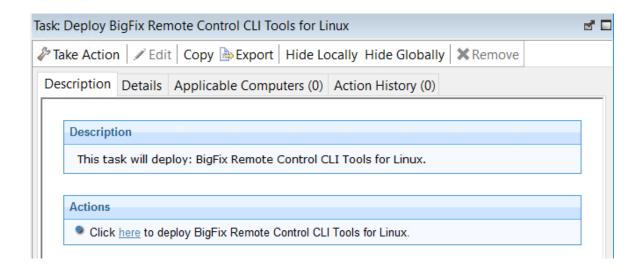
You can use the **Deploy Remote Control CLI Tools for Linux** task to install the CLI tools onto a Linux® computer.



Note:

- The CLI tools are also installed when you install the target software.
 Therefore, use the **Deploy Remote Control CLI Tools for Linux** Fixlet to deploy the CLI tools only on computers that do not have the target software installed.
- 2. To deploy this task, you need the URL for an Remote Control server that you have access to.

- 1. Click **Deployment > Linux** in the navigation tree.
- 2. Click Deploy Remote Control CLI Tools for Linux.
- 3. In the Task pane, review the description and follow the instructions in the Actions box to start the task.



- 4. Enter the URL of the Remote Control server and click **OK**.
- 5. In the Take Action pane on the Target tab, select the relevant option for determining which targets to deploy the CLI tools on.
- 6. Click OK.

The summary screen shows the progress of the task and displays status complete when it is finished.

The following two CLI utilities are installed in the /opt/bigfix/trc/target directory on the targets that were selected when you ran the deployment task.

wrc

Use this tool to start a remote control session with a target.

wrcmdpcr

Use this tool to run a command on a target. The output from the command is displayed on the computer that you ran the command from.

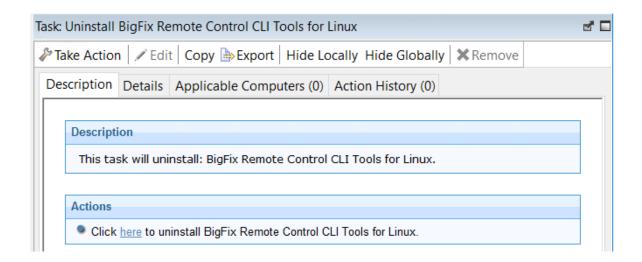
For more information about how to use the command line tools, see the BigFix® Remote Control Controller User's Guide.

Removing the Linux® CLI tools

You can use the **Uninstall Remote Control CLI Tools for Linux** task to remove the CLI tools from a Linux® computer that has the CLI tools already installed.

To initiate this task, complete the following steps:

- 1. Click **Deployment > Linux** in the navigation tree.
- 2. Click Uninstall Remote Control CLI Tools for Linux.
- 3. In the Task pane, review the description and follow the instructions in the Actions box to start the task.



- 4. In the Take Action pane, in the Target tab, select the relevant option for determining which targets to remove the CLI tools from.
- 5. Click OK.

The summary screen shows the progress of the task.

The CLI tools are longer present on the selected targets.

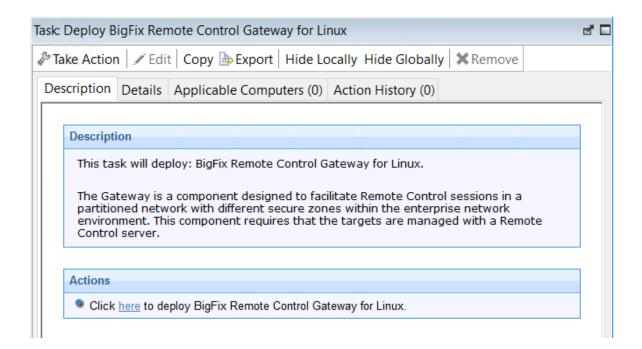


Note: After the removal of the CLI tools, some files might not be deleted automatically. The files were created during the installation of the tools. These files are in the following directories /etc,/opt/bigfix,/var/opt/bigfix/trc/cli, and /var/opt/bigfix/trc/target.

Deploying the Linux® gateway support

You can use the **Deploy Remote Control Gateway for Linux** task to install gateway support onto a Linux® computer.

- 1. Click **Deployment > Linux** in the navigation tree.
- 2. Click Deploy Remote Control Gateway for Linux.
- 3. In the Task pane, review the description and follow the instructions in the Actions box to start the task.



- 4. In the Take Action pane on the Target tab, select the relevant option for determining which targets to deploy the gateway support on.
- 5. Click OK.

The summary screen shows the progress of the task and displays status complete when it is finished.

Gateway support is installed on the targets that you selected when you ran the deployment task. The files are installed in the /opt/bigfix/trc/gateway directory on the selected targets.

To use the gateway support, you must set up a gateway configuration for your environment. For more information about configuring the gateway, see the BigFix® Remote Control Administrator's Guide.

Removing the Linux® gateway support

You can use the **Uninstall Remote Control Gateway support for Linux** task to remove the gateway support files from a Linux® computer.

- 1. Click **Deployment > Linux** in the navigation tree.
- 2. Click Uninstall Remote Control Gateway for Linux.
- 3. In the Task pane, review the description and follow the instructions in the Actions box to start the task.



- 4. In the Take Action pane, in the Target tab, select the relevant option for determining which targets to remove the gateway support from.
- 5. Click OK.

The summary screen shows the progress of the task and displays status complete when it is finished.

The gateway support files are removed from the selected targets.



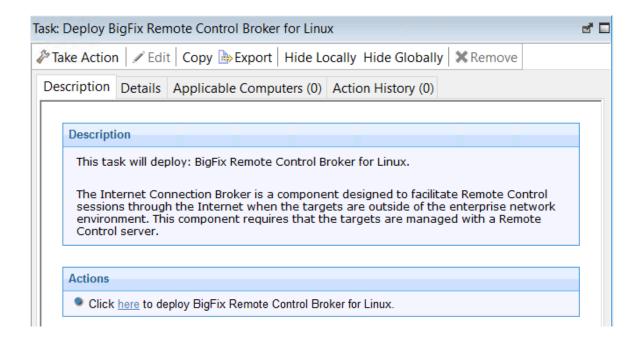
Note: After the removal of the gateway support, some files might not be deleted automatically. The files were created during the installation of the gateway component. The files are in the directory /opt/bigfix and /var/opt/bigfix/trc/gateway.

Deploying Linux broker support

You can use the **Deploy Remote Control Broker for Linux** task to install broker support on a Linux computer.

- 1. Click **Deployment > Linux** in the navigation tree.
- 2. Click Deploy Remote Control Broker for Linux.

3. In the Task pane, review the description and follow the instructions in the Actions box to start the task.



- 4. In the Take Action pane on the Target tab, select the relevant option for determining which targets to deploy the broker support on.
- 5. Click OK.

The summary screen shows the progress of the task. The broker support files are installed on the targets that you selected when you ran the deployment task. The files are installed in the <code>/opt/bigfix/trc/broker</code> directory on the selected targets. To use the broker support you must set up a broker configuration for your environment. For more information about configuring the broker, see the <code>BigFix®</code> Remote Control Administrator's Guide.

Removing Linux broker support

You can use the **Uninstall Remote Control Broker for Linux** task to remove broker support from a Linux computer

- 1. Click **Deployment > Linux** in the navigation tree.
- 2. Click Uninstall Remote Control Broker for Linux.
- 3. In the Task pane, review the description and follow the instructions in the Actions box to start the task.



- 4. In the Take Action pane on the Target tab, select the relevant option for determining which targets to remove the broker support from.
- 5. Click OK.

The summary screen shows the progress of the task. The broker support files are removed from the chosen targets.

Deploy the components on a macOS system

The **macOS** deployment node provides a set of tasks that you can use to install or remove the following components in a macOS operating system environment.

- Target component
- Controller component

Deploying the BigFix® Remote Control Target for macOS

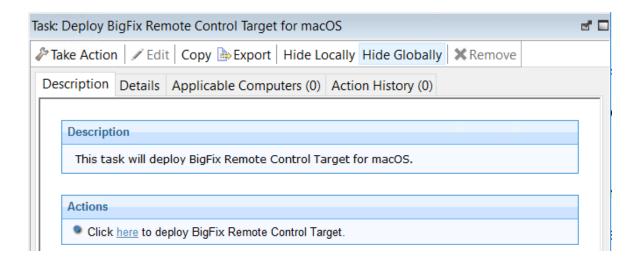
Use the **Deploy BigFix® Remote Control Target for macOS** task to install the target software onto a macOS system.



Note: An option to select managed mode, which prompts for a server URL and a secure registration token, is not available because managed mode is not supported on the BigFix® Remote Control Target for macOS.

To install the target, complete the following steps:

- Within the Systems Lifecycle domain, expand Remote Control configuration > Remote Control.
- 2. Expand the **Deployment** node.
- Select macOS.
- 4. Select Deploy BigFix® Remote Control Target for macOS.
- 5. In the **Task** pane, review the description and follow the instructions in the **Actions** box to start the task.



6. In the Take Action pane on the Target tab, select the relevant option for determining the computers on which to deploy the BigFix® Remote Control Target for macOS component.

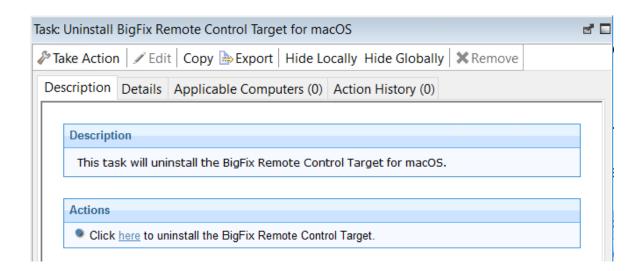
The summary screen shows the progress of the task and the status is set to **Complete** when it is finished.

Removing the BigFix® Remote Control Target for macOS

Use the **Uninstall BigFix® Remote Control Target for macOS** task to remove the target software from a macOS system.

To remove the target, complete the following steps:

- Within the Systems Lifecycle domain, expand Remote Control configuration > Remote Control.
- 2. Expand the **Deployment** node.
- 3. Select macOS.
- 4. Select Uninstall BigFix® Remote Control Target for macOS.
- 5. In the **Task** pane, review the description and follow the instructions in the **Actions** box to start the task.



6. In the **Take Action** pane on the **Target** tab, select the relevant option for determining which computers to remove the BigFix® Remote Control Target for macOS component from.

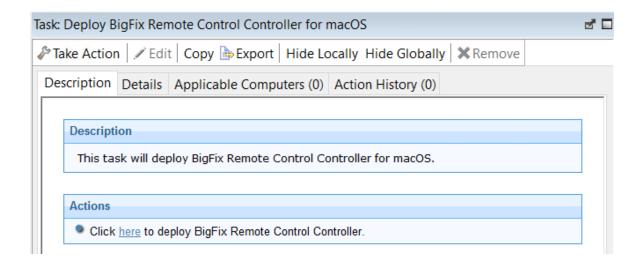
The summary screen shows the progress of the task and the status is set to **Complete** when it is finished.

Deploying the BigFix® Remote Control Controller for macOS

Use the **Deploy BigFix® Remote Control Controller for macOS** task to install the controller software onto a macOS system.

To install the controller, complete the following steps:

- Within the Systems Lifecycle domain, expand Remote Control configuration > Remote Control.
- 2. Expand the **Deployment** node.
- 3. Select macOS.
- 4. Select Deploy BigFix® Remote Control Controller for macOS.
- 5. In the **Task** pane, review the description and follow the instructions in the **Actions** box to start the task.



6. In the **Take Action** pane on the **Target** tab, select the relevant option for determining which computers to deploy the BigFix® Remote Control Controller for macOS component on.

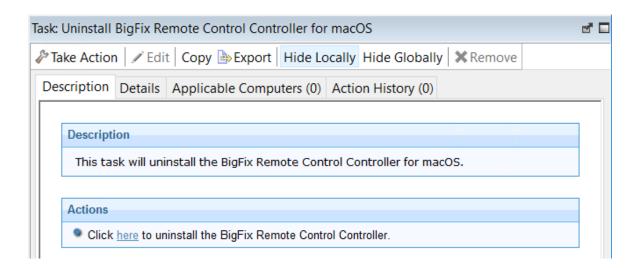
The summary screen shows the progress of the task and the status is set to **Complete** when it is finished.

Removing the BigFix® Remote Control Controller for macOS

Use the **Uninstall BigFix® Remote Control Controller for macOS** task to remove the controller software from a macOS system.

To remove the controller, complete the following steps:

- Within the Systems Lifecycle domain, expand Remote Control configuration > Remote Control.
- 2. Expand the **Deployment** node.
- 3. Select macOS.
- 4. Select Uninstall BigFix® Remote Control Controller for macOS.
- 5. In the **Task** pane, review the description and follow the instructions in the **Actions** box to start the task.



6. In the **Take Action** pane on the **Target** tab, select the relevant option for determining which computers to remove the BigFix® Remote Control Controller for macOS component from.

The summary screen shows the progress of the task and the status is set to **Complete** when it is finished.

Update the Remote Control components

The **Update** node in the Remote Control navigation tree provides subnodes that are operating system specific. Use the **Update** node to upgrade the components to a later version. To view a list of tasks that you can use to upgrade the components, select the relevant operating system node.

Update the components on a Windows™ system

The **Windows** subnode provides the latest levels of Remote Control component software for use on a Windows[™] system. The components contain the latest enhancements and fixes that are applied to Remote Control.

Updating the Windows™ target

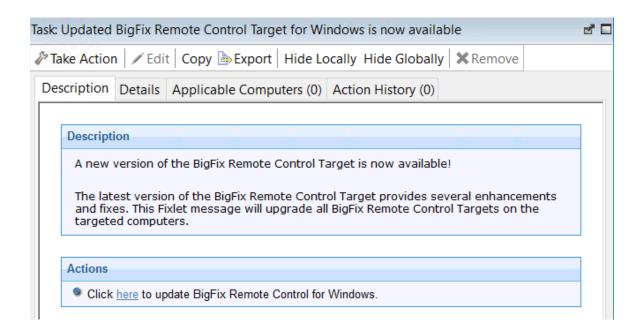
You can use the Windows™ operating system tasks to update the target software, on a Windows™ computer. These tasks apply any new enhancements and fixes that are included in the chosen version to the target configuration that is already installed. To initiate a task, complete the following steps:

- Click Updates > Windows in the navigation tree.
- Select the Fixlet that is relevant to the version of the target that you want to upgrade to.

For example, **Updated Remote Control Target for Windows is now available!** (Version 10.x.x).

3. In the **Task** window, review the description and follow the instructions in the Actions box to initiate the task.

For example,



- 4. In the **Take Action** window on the Target tab, select the relevant option for determining which targets to install the target update on.
- 5. Click OK.

The selected targets are upgraded to the version of target software that is applicable to the chosen update.

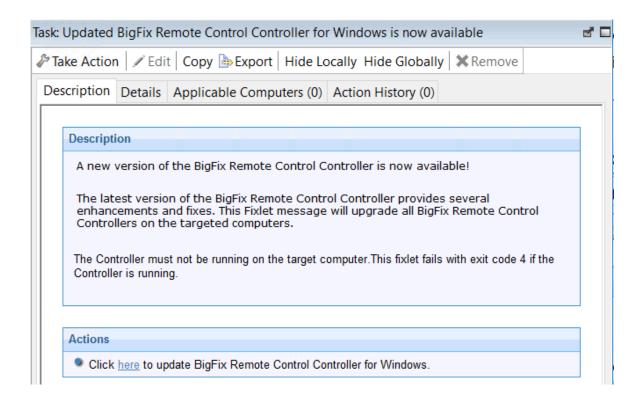
Updating the Windows™ controller

Use the Windows™ operating tasks to update the controller software, on a Windows™ computer. These tasks apply any new enhancements and fixes that are included in the chosen version to the controller that is already installed. To initiate a task, complete the following steps:

- 1. Click **Updates > Windows** in the navigation tree.
- 2. Select the Fixlet that is relevant to the version of controller that you want to upgrade

For example, **Updated Remote Control Controller for Windows is now available** (Version 10.x.x).

3. In the **Task** window, review the description and follow the instructions in the Actions box to initiate the task.



- 4. In the **Take Action** window on the Target tab, select the relevant option for determining which targets to install the controller update on.
- Click **OK**.

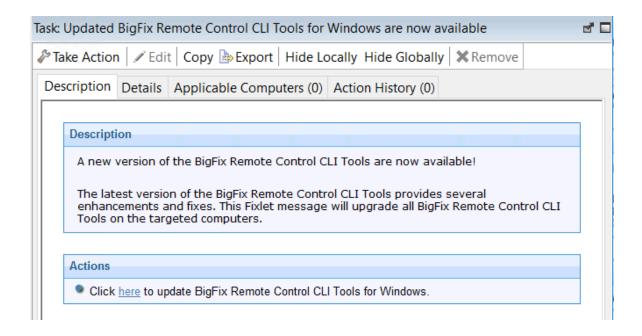
The summary screen shows the progress of the task.

The controller software on the selected targets is upgraded to the version of the chosen update.

Updating the Windows™ command line tools

Use the Windows™ operating system tasks to update the CLI tools, on a Windows™ computer. These tasks apply any new enhancements and fixes that are included in the chosen version to the CLI tools configuration that is already installed. To initiate a task, complete the following steps:

- 1. Click **Updates > Windows** in the navigation tree.
- 2. Select the Fixlet that is relevant to the version of CLI tools that you want to upgrade to. For example, **Updated Remote Control CLI tools for Windows is now available!** (Version 10.x.x).
- 3. In the **Task** window, review the description and follow the instructions in the Actions box to initiate the task.



- 4. In the **Take Action** window on the Target tab, select the relevant option for determining which targets to install the CLI update on.
- 5. Click OK.

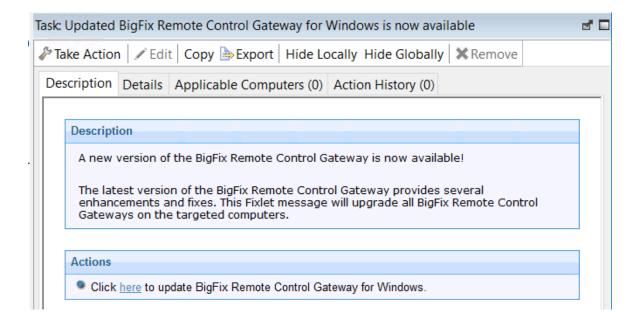
The CLI tools on the selected targets are upgraded to the version of the chosen update.

Updating the Windows™ gateway support

Use the Windows™ operating system tasks to update the gateway support files on a Windows™ computer. These tasks apply any new enhancements and fixes that are included in the chosen version to the gateway configuration that is already installed.

To initiate a task, complete the following steps:

- 1. Click **Updates > Windows** in the navigation tree.
- 2. Select the Fixlet that is relevant to the version of gateway that you want to upgrade to. For example, **Updated Remote Control Gateway for Windows is now available!** (Version 10.x.x).
- 3. In the **Task** window, review the description and follow the instructions in the Actions box to initiate the task.



- 4. In the **Take Action** window on the Target tab, select the relevant option for determining which targets to install the gateway update on.
- 5. Click OK.

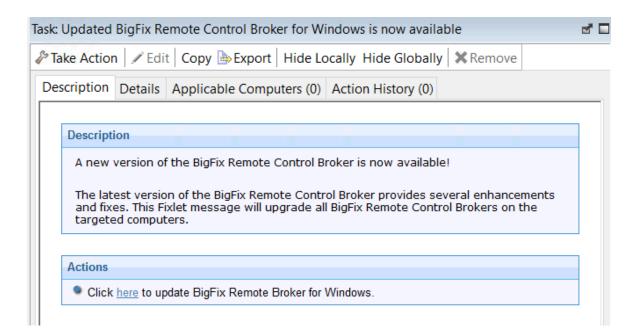
The summary screen shows the progress of the task.

The gateway support on the selected targets is upgraded to the version of the chosen update.

Updating the Windows™ broker support

Use the Windows™ operating system tasks to update the broker software, on a Windows™ computer. These tasks apply any new enhancements and fixes that are included in the chosen version to the broker that is already installed. To initiate a task, complete the following steps:

- Click Updates > Windows in the navigation tree.
- 2. Select the Fixlet that is relevant to the version of broker that you want to upgrade to. For example, **Updated Remote Control Broker for Windows is now available!** (Version 10.x.x).
- 3. In the **Task** window, review the description and follow the instructions in the Actions box to initiate the task.



- 4. In the **Take Action** window on the Target tab, select the relevant option for determining which targets to install the broker update on.
- 5. Click OK.

The summary screen shows the progress of the task.

The broker software on the selected targets is upgraded to the version of the chosen update.

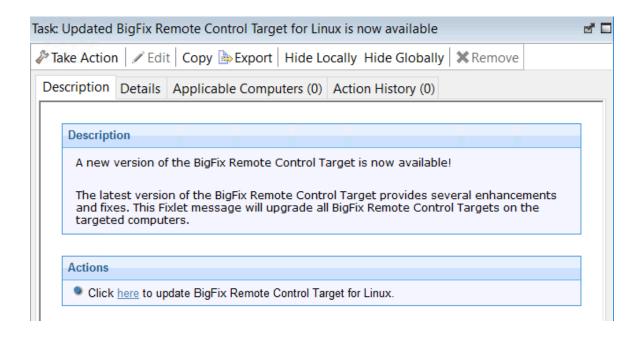
Update the Linux® components

The Linux® subnode provides the latest levels of Remote Control component software for use in a Linux® environment. These components contain the latest enhancements and fixes that are applied to Remote Control.

Updating the Linux™ target

Use the Linux[™] tasks to update the target software, on a Linux[™] computer. These tasks apply any new enhancements and fixes that are included in the chosen version to the target configuration that is already installed. To initiate this task, complete the following steps:

- 1. Click **Updates > Linux** in the navigation tree.
- 2. Select the Fixlet that is relevant to the version of target that you want to upgrade to. For example, **Updated Remote Control Target for Linux is now available!** (**Version 10.x.x**).
- 3. In the **Task** window, review the description and follow the instructions in the Actions box to initiate the task.

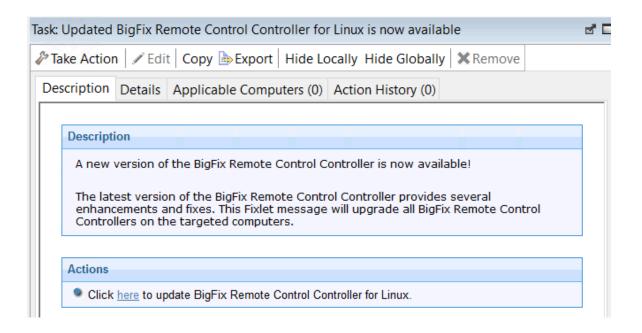


- 4. In the **Take Action** window on the Target tab, select the option for determining which targets to install the target update on.
- 5. Click OK.

Updating the Linux™ controller

Use the Linux™ tasks to update the controller software, on a Linux™ computer. These tasks apply any new enhancements and fixes that are included in the chosen version to the controller configuration that is already installed. To initiate a task, complete the following steps:

- 1. Click **Updates > Linux** in the navigation tree.
- 2. Select the Fixlet that is relevant to the version of controller that you want to upgrade to.
 - For example, **Updated Remote Control Controller for Linux is now available (Version 10.x.x)**.
- 3. In the **Task** window, review the description and follow the instructions in the Actions box to initiate the task.



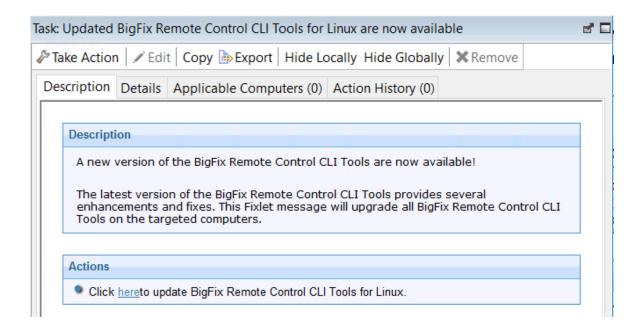
- 4. In the **Take Action** window on the Target tab, select the relevant option for determining which targets to install the controller update on.
- 5. Click OK.

The summary screen shows the progress of the task. The controller software on the selected targets is upgraded to the version of the chosen update.

Updating the Linux™ command line tools

Use the Linux[™] tasks to update the CLI tools, on a Linux[™] computer. These tasks apply any new enhancements and fixes that are included in the chosen version to the CLI tools configuration that is already installed. To initiate this task, complete the following steps:

- 1. Click **Updates > Linux** in the navigation tree.
- 2. Select the Fixlet that is relevant to the version of CLI tools that you want to upgrade to. For example, **Updated Remote Control CLI tools for Linux is now available!** (Version 10.x.x).
- 3. In the **Task** window, review the description and follow the instructions in the Actions box to initiate the task.



- 4. In the **Take Action** window on the Target tab, select the relevant option for determining which targets to install the CLI update on.
- 5. Click OK.

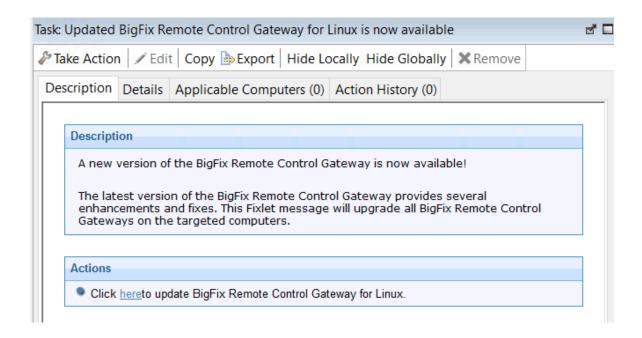
The CLI tools on the selected targets are upgraded to the version of the chosen update.

Updating the Linux™ gateway support

Use the Linux[™] tasks to update the gateway support files, on a Linux[™] computer. These tasks apply any new enhancements and fixes that are included in the chosen version to the gateway configuration that is already installed.

- 1. Click **Updates > Linux** in the navigation tree.
- 2. Select the Fixlet that is relevant to the version of gateway that you want to upgrade to. For example, **Updated Remote Control Gateway for Linux is now available (Version 10.x.x)**.

3. In the **Task** window, review the description and follow the instructions in the Actions box to initiate the task.



- 4. In the **Take Action** window on the Target tab, select the relevant option for determining which targets to install the gateway update on.
- 5. Click OK.

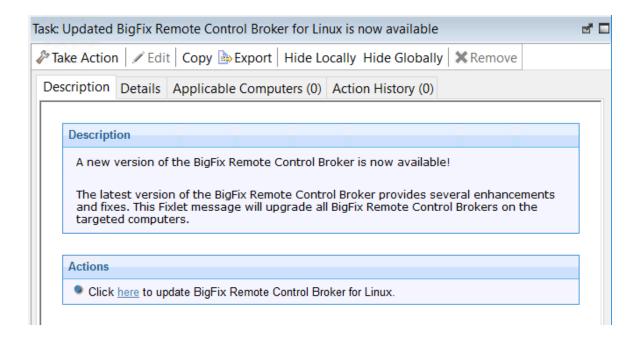
The summary screen shows the progress of the task.

The gateway support on the selected targets is upgraded to the version of the chosen update.

Updating the Linux® broker support

You can use the Linux tasks to update the broker software, on a Linux® computer. These tasks apply any new enhancements and fixes that are included in the chosen version to the broker configuration that is already installed. To initiate this task, complete the following steps:

- 1. Click **Updates > Linux** in the navigation tree.
- 2. Select the Fixlet that is relevant to the version of broker that you want to upgrade to. For example, **Updated Remote Control Broker for Linux is now available (Version 10.x.x)**.
- 3. In the **Task** window, review the description and follow the instructions in the Actions box to initiate the task.



- 4. In the **Take Action** window on the Target tab, select the relevant option for determining which targets to install the broker update on.
- 5. Click OK.

The broker software on the selected targets is upgraded to the version of the chosen update.

Download the Remote Control server component

You can run a Fixlet to download the Remote Control server installer file to a specific location on selected computers.

Downloading the Remote Control server installer file for Windows

Download the Remote Control server installer file for Windows by running a Fixlet in the BigFix® console.

To download the trc_server_setup.exe file, complete the following steps:

- In the navigation tree click Deployment > Windows.
- 2. Select the **Download Remote Control Server for Windows** task.
- 3. Review the information in the **Description** tab.
- 4. Follow the instructions in the **Actions** field to download the installer file.
- 5. Enter a location to save the installer file to and click **OK**.

The trc_server_setup.exe file is downloaded to the selected computers. For more information about installing the server, see the *BigFix® Remote Control Installation Guide*.

Downloading the Remote Control server installer file for Linux

Download the Remote Control server installer file for Linux by running a fixlet in the BigFix® console.

To download the trc server setup.bin file, complete the following steps.

- 1. In the navigation tree click **Deployment > Linux**.
- Select the Download Remote Control Server for Linux task.
- 3. Review the information in the **Description** tab.
- 4. Follow the instructions in the **Actions** field to download the installer file.
- 5. Enter a location to save the installer file to and click **OK**.

The trc_server_setup.bin file is downloaded to the selected computers. For more information about installing the server, see the *BigFix® Remote Control Installation Guide*.

Start a remote control session

The Remote Control controller and target components can be used to establish remote connections between each other to monitor or control the target system.

There are two types of remote control session: a peer-to-peer session that is made directly between the target and controller and a managed session that is initiated from the Remote Control server. For more information about the types of session, see Definition of terms that are used in Remote Control (on page 4).

For more information about how to end a remote control session, see the BigFix® Remote Control Controller User's Guide.

Start a peer-to-peer session

There are two ways to start a peer-to-peer remote control session between a controller and a target.

- From the BigFix® console
- By using the controller component

Starting a peer-to-peer session from the BigFix® console

Use the BigFix® console to start a peer-to-peer session directly from the console. Use the menu option that displays when you right-click the target computer that you want to start a session with.



Note:

1. To start a remote control session from the BigFix® console, you must install the controller component on the same computer as the console is installed on. However, when the controller is deployed, only the current user who is logged on to the controlling computer, has the rights to see the menu item



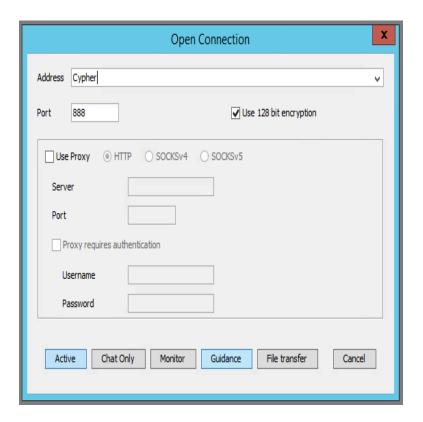
- to start a session. The menu item is not visible to other users. For more information, see Frequently asked questions (on page 139).
- 2. For the menu item to be enabled, the Remote Control Installation and Security Options Analysis must be active for the selected computer. The Analysis must be reporting that the Remote Control target is active.

To start a peer-to-peer session, complete the following steps:

- 1. From the list of target computers, right-click the target that you want to start a remote control session with.
- 2. Select Remote Control.



- a. This action can be carried out on any section of the console in which the list of computers is displayed.
- b. If an earlier version of the controller is installed, you might see IBM® Endpoint Manager for Remote Control as the menu item instead.
- 3. The Open connection window is displayed with the IP address or URL of the target that you want to connect to.



4. Select **Use proxy** if you are using a proxy. Select the relevant protocol and information.

Server

The host name or IP address of the proxy server.

Port

The port that is required for the proxy server.

Proxy requires authentication

Select this option to authenticate with the proxy server. Provide a valid user name and password for authentication.

5. Select the session type.

For more information about the session types that can be established, see the BigFix® Remote Control Controller User's Guide.



Note:



- a. If a login window is displayed, enter a valid Windows operating system ID and password to continue.
- b. A user acceptance window might be displayed on the target, depending on the policies set on the target. The target user can accept or reject the session.

When the session is accepted and started, the policies values that are set locally on the target determine what actions can be carried out during the session. For more information about peer-to-peer sessions and the functions available in the controller UI, see the BigFix® Remote Control Controller User's Guide.

Starting a peer-to-peer session by using the controller

You can start a peer-to-peer session from any computers that you deploy the controller component on.

To start a peer-to-peer session by using the controller component, complete the following steps:

1. Start the controller

Windows® systems

- a. Click Start > All Programs
- b. Click Remote Control > Controller

Linux® systems

To start the controller, locate the Remote Control controller application from the operating system application interface or run the following command:

```
java jar /opt/bigfix/trc/controller/TRCConsole.jar
```

2. Follow from step 3 (on page 60) in Starting a peer-to-peer session from the BigFix console (on page 59) to start the session.

When the session is accepted and started, the policies values that are set locally on the target determine what actions can be carried out during the session. For more information about peer-to-peer sessions and the functions available in the controller UI, see the BigFix® Remote Control Controller User's Guide.

Start a server initiated remote control session

To start a remote control session initiated from the Remote Control server UI, the server component must be installed and running. For more information about creating and running server installation configurations tasks, see Creating Remote Control server installation tasks (on page 64).



Note: The server can be installed also by using the installation files. For more information, see the *BigFix® Remote Control Installation Guide*.

After the server component is installed, use the *BigFix® Remote Control Controller User's Guide* for details about how to access and log on to the server UI. Remote control sessions that are initiated from the Remote Control server require permissions links to be set up. The links are made between the groups that the controller user and the target are members of. These permissions links determine what policies are effective for the session. For information about creating user and target groups, creating permissions links, and how policies are resolved for a remote control session, see the *BigFix® Remote Control Administrator's Guide*.

After you install the server and create the relevant groups and permissions links, you can start a remote control session by using the Remote Control server UI. For more information, see the BigFix® Remote Control Controller User's Guide.

Respond to warnings

During the discovery process, if issues are found that interfere with the normal operation of the Remote Control components, a **Warnings** node is displayed in the Remote Control navigation tree.



Note: If no issues are found during the discovery process, this node is not displayed in the navigation panel.

This node displays relevant Fixlets that you can use to resolve the issues on any applicable computers. When the Remote Control target software is installed, a default firewall rule is created to open the inbound Remote Control port. If the target operating system is blocking this port, use a Fixlet to add a rule to enable inbound TCP connections for Remote Control.



Note: The SUSE firewall Fixlet is not relevant when the firewall is started manually, it is only relevant when the firewall is in automatic mode.

Manage target and server configurations

Remote Control provides two wizards that you can use to create tasks to install Remote Control server or target configurations. These tasks can be run on all, or specific, servers, or targets.

Creating Remote Control server installation tasks

With the Remote Control **Server Installer Wizard**, you can create an installation task to install a remote control server.

Run the task on a Windows™® system or Linux™ (Red Hat and SUSE) systems to install a fully functional, self-contained Remote Control server with either of the following component setups:

- Remote Control server with WebSphere® Application Server Liberty Profile version and a Derby database.
- Remote Control server with WebSphere® Application Server Liberty Profile version and one of the following databases:
 - IBM DB2 10.x, 11.x Workgroup(WSE) and Enterprise Edition(ESE).
 - Oracle 11g and 12c.

When you use an Oracle database, if you are using the Oracle 11g drivers, set oracle.increment.keys.off=1 in the trc.properties file. Restart the server service.

Microsoft SQL server 2008, 2012, 2014, 2016, 2017, and 2019.

You must use a JDBC driver whose version is higher than 6.3. Older versions do not support TLS1.2 or JRE8.

When you use an MS SQL database, Windows™ authentication is not supported. You cannot log on with a domain user. You must use mixed mode authentication and create an SQL user to connect to the database.

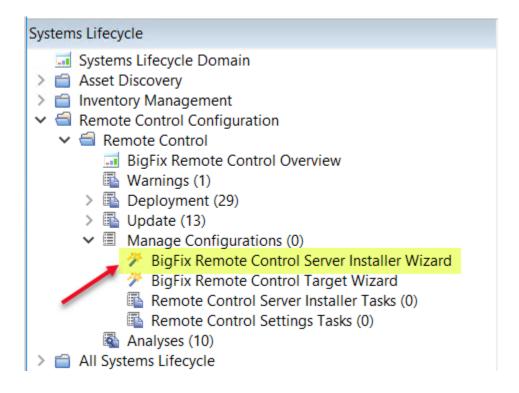


Note:

- 1. If you choose the DB2®, MS SQL or Oracle database options, you must install the database and create a database instance before you run the server installation task.
- 2. If you are using DB2® 9.7 GA version, you must upgrade to DB2® 9.7 fix pack 1 due to a DB2® issue where NULL values are returned in generated key values.

To access the **Remote Control Server Installer Wizard**, complete the following steps:

1. In the Remote Control navigation tree, select Manage Configurations > Remote **Control Server Installer Wizard.**

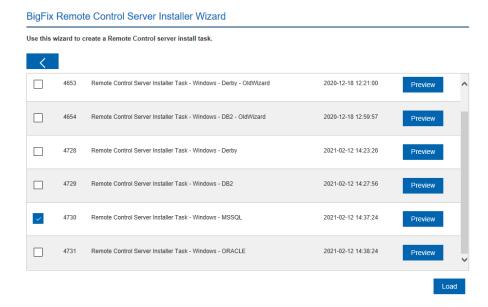


2. Set your configuration values by using one of the following options.

Load Settings from Existing Task

The wizard initially displays server configuration default values that you can change to your own requirements. To load previously saved settings, complete the following steps.

- a. Click Load Settings from Existing Task.
- b. On the Wizard Fixlets screen, select the task.



- c. Click Load Wizard with Fixlet. The configuration values are loaded into the wizard.
- d. Follow the steps in Create a new configuration task (on page 67) to create a new configuration task.

Reset to default values

You can use this feature to clear any selections that are made and return the values in the wizard to the default configuration values.

Create a new configuration task

Follow the steps that are relevant to the database that you are using.

- Derby installation. For more information, see Creating a default server configuration (on page 67)
- DB2®. For more information, see Creating a DB2 server configuration (on page 71)
- MSSQL. For more information, see Creating an MS SQL server configuration (on page 76)
- Oracle. For more information, see Creating an Oracle server configuration (on page 80)

Creating a default server configuration

Use a default server configuration to install and use the embedded Derby database that is included as part of the Remote Control installation. The database is installed locally. To create a default installation task, complete the following steps:

- 1. Select the relevant operating system.
- 2. Enter the installation directory for the Remote Control server to be installed to or accept the default that is given.



Note: WebSphere® Application Server cannot be installed in a directory whose name contains non-English-language characters. This installation installs an embedded version of WebSphere® Application Server. Therefore, you must choose a destination for the installation files that does not contain any non-English-language characters.

3. Select **Derby** and enter the relevant database parameter values.

Name of the database to use

Specify the name for the database to be used with Remote Control server or accept the default that is given.

4. Enter the server installation parameter values.

HTTPS as Default for Target URL

Select this option for the target to use the HTTPS server URL to communicate with the server. The **enforce.secure.endpoint.callhome** and **enforce.secure.endpoint.upload** properties in the **trc.properties** file are also set to *true*. If not selected, the HTTP URL is used. Regardless of your selection, the **enforce.secure.web.access**, **enforce.secure.weblogon**, and **enforce.secure.alllogon** properties that enable HTTPS logon and access to the web portal, are all set to *True* by default. For more information about these properties, see the *BigFix® Remote Control Administrator's Guide*. The check box is selected by default on a new installation.



Note: For HTTPS, you must use a fully qualified domain name in the **Address of the Websphere server** field.

Use secure registration tokens to register targets

Select this option to enable the secure target registration feature. This feature prevents unauthorized targets from registering with the Remote Control server. Ensure that the HTTPS as Default for Target URL option is also selected. For more information about secure registration, see Enable secure target registration. (on page 133).

Address of the WebSphere® server

The fully qualified name for the Remote Control server. For example, trcserver.example.com.



Note: Enter the fully qualified name. This name is used to create the URL in the trc.properties file that is passed to the target when it contacts the server for the first time. If the fully qualified name is incorrect, the target might be unable to contact the server successfully when it is next due to contact it.

Web path of URL

```
Specify the web path for the server URL, http://
trcserver.example.com/webpath.For example, trc. http://
trcserver.example.com/trc
```

HTTP port

Specify a port for the server. Default is 80.

HTTPS port

Specify a port if you are using SSL. Default is 443.

Administrator email

Specify an administrator email address. For example,

admin@company.com



Note: To use the email function within the Remote Control server, a mail server must be installed. For more information about enabling email, see the *BigFix® Remote Control Installation Guide*.

Enable FIPS

Select to enable FIPS compliance on the server. For more information about enabling FIPS compliance, see the *BigFix® Remote Control Installation Guide*.

Enable NIST SP800-131A compliance (Enables FIPS)

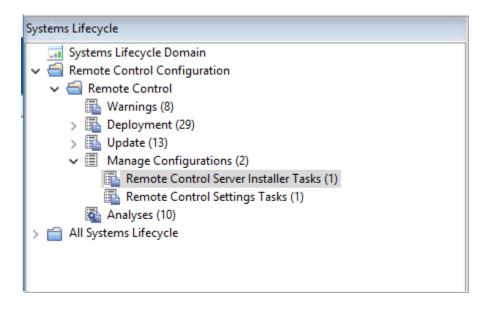
Select this option to enforce NIST SP800-131A compliant algorithms and key strengths for all cryptographic functions. For more information about enabling NIST SP800-131A compliance, see the *BigFix® Remote Control Installation Guide*.

Adjust some advanced web parameters

Select this option to set extra port values.

- 5. Save the configuration by completing the following steps:
 - a. Click Create Server Installation Task
 - b. Complete the relevant information for your task and click **OK**.

Your task is displayed in the list panel of the **Remote Control Server Installer Tasks** subnode.



Creating a DB2® server configuration

You can create a server installation configuration that uses a DB2® database. You must install the database, either locally or remotely, and create a database instance before you install the Remote Control server.

Ensure that you set up the database before you create the task. For more information about setting up the database, see the BigFix® Remote Control Installation Guide and the chapter that describes Setting up the database.

To create a DB2® server configuration task, complete the following steps:

- 1. Select the relevant operating system.
- 2. Enter the installation directory for the Remote Control server to be installed to or accept the default that is given.
- 3. Select the relevant DB2® version and enter the relevant database parameters.

Database server address

The IP address or host name of your database server.



Note: 127.0.0.1 can be used when DB2® is installed locally. If you install DB2® on a remote system, type the IP address of the remote system.

Port on which to connect to the database

Port on which DB2® is installed.



Note:

- a. On Windows™® systems, the default port is 50000. On Linux™ systems, the default port is 50001.
- b. A remote DB2® installation is limited to type four connections. A local installation can use type two or four.
 For type two connections, set the port value to 0.

Name of the Database to use

Specify the name for the database to be used with the Remote Control server or accept the default that is given.

Database Administrator Userid

Specify the Administrator user ID that is used for logging on to the database. The user ID must have admin access to the database.

Database Administrator Password

Specify the Administrator password for connecting to the database.

Path to the JDBC drivers

```
Specify the path to the DB2® JAR files, db2jcc.jar, and db2jcc_license.jar
```

Path to db2profile script

Specify the path to the db2profile for the DB2® instance. For example, / home/db2inst1/sqllib/db2profile



Note: This field is available only when you install in a Linux[™] operating system and if you select to create the database.

Path to the DB2® libraries

Specify the path to the DB2® libraries. For example, /home/db2inst1/sqllib/lib32



Note: This field is available only when you install in a Linux[™] operating system and if you select to create the database.

If Local, create the database

If DB2® is installed locally (127.0.0.1), you can select to create a blank database during the installation. You can also select to drop an existing local database and create a new database.



Note: Do not select create database or drop database if you are using a remote database.

If Local, drop an existing database

If DB2® is installed locally (127.0.0.1), you can select to drop the database and create a new one.



Note: Do not drop the database if you are using a remote database.

New database location (Drive name) / (Path name)

Specify the path where the database can be installed. If the installation is local and you select to create the database, the admin user who is specified must have the appropriate authority. On a Windows $^{\text{m}}$ system,

use the db2admin user, and on a Linux™ system, the user must be a member of the group db2grp1.



Note:

Linux™ systems

Specify a directory that the admin User ID has read and write permissions for.

Windows™ systems

Specify a drive letter.

4. Enter the server installation parameter values.

HTTPS as Default for Target URL

Select this option for the target to use the HTTPS server URL to communicate with the server. The **enforce.secure.endpoint.callhome** and **enforce.secure.endpoint.upload** properties in the **trc.properties** file are also set to *true*. If not selected, the HTTP URL is used. Regardless of your selection, the **enforce.secure.web.access**, **enforce.secure.weblogon**, and **enforce.secure.alllogon** properties that enable HTTPS logon and access to the web portal, are all set to *True* by default. For more information about these properties, see the *BigFix®* Remote Control Administrator's Guide. The check box is selected by default on a new installation.



Note: For HTTPS, you must use a fully qualified domain name in the **Address of the Websphere server** field.

Use secure registration tokens to register targets

Select this option to enable the secure target registration feature. This feature prevents unauthorized targets from registering with the Remote Control server. Ensure that the **HTTPS** as **Default for Target URL** option

is also selected. For more information about secure registration, see Enable secure target registration. *(on page 133)*.

Address of the WebSphere® server

The fully qualified name for the Remote Control server. For example, trcserver.example.com.



Note: Enter the fully qualified name. This name is used to create the URL in the trc.properties file that is passed to the target when it contacts the server for the first time. If the fully qualified name is incorrect, the target might be unable to contact the server successfully when it is next due to contact it.

Web path of URL

```
Specify the web path for the server URL, http://
trcserver.example.com/webpath. For example, trc. http://
trcserver.example.com/trc
```

HTTP port

Specify a port for the server. Default is 80.

HTTPS port

Specify a port if you are using SSL. Default is 443.

Administrator email

Specify an administrator email address. For example, admin@company.com



Note: To use the email function within the Remote Control server, a mail server must be installed. For more information about enabling email, see the *BigFix® Remote Control Installation Guide*.

Enable FIPS

Select to enable FIPS compliance on the server. For more information about enabling FIPS compliance, see the *BigFix® Remote Control Installation Guide*.

Enable NIST SP800-131A compliance (Enables FIPS)

Select this option to enforce NIST SP800-131A compliant algorithms and key strengths for all cryptographic functions. For more information about enabling NIST SP800-131A compliance, see the *BigFix® Remote Control Installation Guide*.

Adjust some advanced web parameters

Select this option to set extra port values.

- 5. Save the configuration by completing the following steps:
 - a. Click Create Server Installation Task
 - b. Complete the relevant information for your task and click **OK**.

Creating an MS SQL server configuration

You can create a server installation configuration to use an MS SQL database. You must install the database, either locally or remotely, and create a database instance before you install the Remote Control server.

To create an MS SQL server configuration task, complete the following steps:

- 1. Select the relevant operating system.
- 2. Enter the installation directory for the Remote Control server to be installed to or accept the default that is given.
- 3. Select the relevant MS SQL version and enter the relevant database parameters.

Database server address

The IP address or host name of your database server.



Note: 127.0.0.1 can be used when MS SQL is installed locally on a Windows™ system only.

Port on which to connect to the database

Port on which MS SOL is installed.

Name of the Database to use

Specify the name for the database to be used with the Remote Control server or accept the default that is given.

Database Administrator Userid

Specify the Administrator user ID used for logging on to the database.

The user ID must have admin access to the database.

Database Administrator Password

Specify the Administrator password for connecting to the database.

Path to the JDBC drivers

Specify the path to the MS JDBC Java files. The mssql-jdbcx.x.x.jre8.jar file must be used depending on the version of MS SQL database that you are using.

If Local, create the database

If MS SQL is installed locally, you can select to create a blank database during the installation.

If Local, drop an existing database

If MS SQL is installed locally, you can select to drop the database and create a new one. Do not select drop the database if you are using a remote database.

New database location (the directory must exist)

Specify the database installation path. If the installation is local and you select to create the database the Admin user must have appropriate authority to do so.

Linux™ systems.

Specify a directory that the admin User ID has read and write permissions for.

Windows™ systems.

Specify an existing directory.

4. Enter the server installation parameter values.

HTTPS as Default for Target URL

Select this option for the target to use the HTTPS server URL to communicate with the server. The enforce.secure.endpoint.callhome and enforce.secure.endpoint.upload properties in the trc.properties file are also set to true. If not selected, the HTTP URL is used. Regardless of your selection, the **enforce.secure.web.access**, enforce.secure.weblogon, and enforce.secure.alllogon properties that enable HTTPS logon and access to the web portal, are all set to *True* by default. For more information about these properties, see the BigFix® Remote Control Administrator's Guide. The check box is selected by default on a new installation.



Note: For HTTPS, you must use a fully qualified domain name in the **Address of the Websphere server** field.

Use secure registration tokens to register targets

Select this option to enable the secure target registration feature. This feature prevents unauthorized targets from registering with the Remote Control server. Ensure that the HTTPS as Default for Target URL option is also selected. For more information about secure registration, see Enable secure target registration. (on page 133).

Address of the WebSphere® server

The fully qualified name for the Remote Control server. For example,

trcserver.example.com.



Note: Enter the fully qualified name. This name is used to create the URL in the trc.properties file that is passed to the target when it contacts the server for the first time. If the fully qualified name is incorrect, the target might be unable to contact the server successfully when it is next due to contact it.

Web path of URL

```
Specify the web path for the server URL, http://
trcserver.example.com/webpath. For example, trc. http://
trcserver.example.com/trc
```

HTTP port

Specify a port for the server. Default is 80.

HTTPS port

Specify a port if you are using SSL. Default is 443.

Administrator email

Specify an administrator email address. For example,

admin@company.com



Note: To use the email function within the Remote Control server, a mail server must be installed. For more information about enabling email, see the *BigFix® Remote Control Installation Guide*.

Enable FIPS

Select to enable FIPS compliance on the server. For more information about enabling FIPS compliance, see the *BigFix® Remote Control Installation Guide*.

Enable NIST SP800-131A compliance (Enables FIPS)

Select this option to enforce NIST SP800-131A compliant algorithms and key strengths for all cryptographic functions. For more information about enabling NIST SP800-131A compliance, see the *BigFix® Remote Control Installation Guide*.

Adjust some advanced web parameters

Select this option to set extra port values.

- 5. Save the configuration by completing the following steps:
 - a. Click Create Server Installation Task
 - b. Complete the relevant information for your task and click **OK**.

Creating an Oracle server configuration

You can create a server installation configuration to use an Oracle database. You must install the database, either locally or remotely, and create a database instance before you install the Remote Control server.

To create an Oracle server configuration task, complete the following steps:

- 1. Select the relevant operating system.
- 2. Enter the installation directory for the Remote Control server to be installed to or accept the default that is given.
- 3. Select the relevant Oracle version and enter the relevant database parameters.

Database server address

The IP address or host name of your database server. 127.0.0.1 can be used when Oracle is installed locally. If you install Oracle on a remote system, type in the IP address of the remote system.

Port on which to connect to the database

Port on which Oracle is installed.

Name of the Database to use

Specify a name for the database. The name is the SID name on the server, not the one in the theorem. For example, TRCDB.

Database Administrator Userid

Specify the administrator user ID that is used for logging on to the database. The user ID must have admin access to the database.



Note: For an Oracle installation, a user that is called **asset** must exist. This user ID can be used here or use an existing or new user.

Database Administrator Password

Specify the Administrator password for connecting to the database.

Path to the JDBC drivers

Specify the path to the oracle Java™ JDBC library. The location can be obtained from the Oracle server installation or downloaded from the Oracle website. For example, c:\oracle\ora92\jdbc\lib\ojdbcl1ib

4. Enter the server installation parameter values.

HTTPS as Default for Target URL

Select this option for the target to use the HTTPS server URL to communicate with the server. The **enforce.secure.endpoint.callhome** and **enforce.secure.endpoint.upload** properties in the **trc.properties** file are also set to *true*. If not selected, the HTTP URL is used. Regardless of your selection, the **enforce.secure.web.access**, **enforce.secure.weblogon**, and **enforce.secure.alllogon** properties that enable HTTPS logon and access to the web portal, are all set to *True* by default. For more information about these properties, see the *BigFix*®

Remote Control Administrator's Guide. The check box is selected by default on a new installation.



Note: For HTTPS, you must use a fully qualified domain name in the **Address of the Websphere server** field.

Use secure registration tokens to register targets

Select this option to enable the secure target registration feature. This feature prevents unauthorized targets from registering with the Remote Control server. Ensure that the **HTTPS** as **Default for Target URL** option is also selected. For more information about secure registration, see Enable secure target registration. *(on page 133)*.

Address of the WebSphere® server

The fully qualified name for the Remote Control server. For example, trcserver.example.com.



Note: Enter the fully qualified name. This name is used to create the URL in the trc.properties file that is passed to the target when it contacts the server for the first time. If the fully qualified name is incorrect, the target might be unable to contact the server successfully when it is next due to contact it.

Web path of URL

```
Specify the web path for the server URL, http://
trcserver.example.com/webpath. For example, trc. http://
trcserver.example.com/trc
```

HTTP port

Specify a port for the server. Default is 80.

HTTPS port

Specify a port if you are using SSL. Default is 443.

Administrator email

Specify an administrator email address. For example,

admin@company.com



Note: To use the email function within the Remote Control server, a mail server must be installed. For more information about enabling email, see the *BigFix® Remote Control Installation Guide*.

Enable FIPS

Select to enable FIPS compliance on the server. For more information about enabling FIPS compliance, see the *BigFix® Remote Control Installation Guide*.

Enable NIST SP800-131A compliance (Enables FIPS)

Select this option to enforce NIST SP800-131A compliant algorithms and key strengths for all cryptographic functions. For more information about enabling NIST SP800-131A compliance, see the *BigFix® Remote Control Installation Guide*.

Adjust some advanced web parameters

Select this option to set extra port values.

- 5. Save the configuration by completing the following steps:
 - a. Click Create Server Installation Task
 - b. Complete the relevant information for your task and click **OK**.

Creating Remote Control target configuration tasks

Use the Remote Control Target wizard to create a set of target configuration parameters.

Run a task to apply the parameters to all targets or selected targets that have the Remote Control target software already installed. The configurations determine what types of session the targets can take part in and the actions that can be carried out by the controller

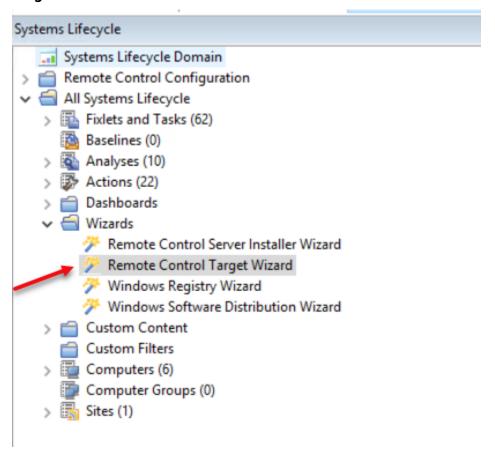
user during a remote control session. For more information about the options, see the BigFix® Remote Control Installation Guide.

To create a configuration task, complete the following steps:



Note: The configuration values set here are only in effect when a peer-to-peer session is requested with a target. If a remote control session is started from the Remote Control server, the session policies are passed to the target from the server.

In the Remote Control navigation tree, select Manage Configurations > Remote Control Target Wizard.

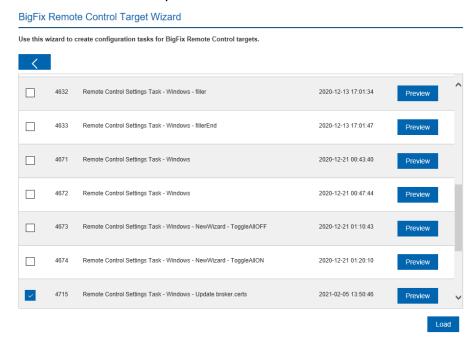


- 1. Select the relevant operating system.
- 2. Set your configuration values.

Load settings from an existing task

Use this feature to load previously created configuration settings.

- a. Click Load settings from an existing task.
- b. On the **Wizard Fixlets** panel, select the task.



Click **Load Wizard with Fixlet**. The configuration values are loaded into the wizard.

Reset to default values

Use this feature to clear any selections that are made and return the values in the wizard to the default configuration values.

Selecting configuration values

The wizard is loaded with default configuration values that you can change to your own requirements by selecting or clearing the relevant options.



Note: Depending on the selected operating system, all or some of the following properties are displayed.



Table 1. Installation option descriptions

Instal-	Target	De- fault Val-	
option	property	ue	Description
Server URL	ServerURL	blank	For the target to register with the server and take part in remote control sessions that are started from the server, provide the Remote Control server url in the format: http://servername/trc, where servername is the fully qualified name of theRemote Control server. For example, http://trcserver.examplecom/trc. Note: For the targets to take part only in remote control sessions that are started from the server, if you provide a server url, select never for Allow peer-to-peer mode.
Proxy URL	ProxyURL	blank	Host name or IP address for a proxy server, if you are using one.
Broker List	BrokerList	blank	The list of host names or IP addresses of the brokers and their ports, that you want the target to connect to. Enter in the following format, hostname1:port,hostname2:port,hostname3:port.
Trusted certificates		n/a	Select this option to configure the truststore that is used for verifying broker certificates. To add a certificate, complete the following steps.



Installation option for Broker connections	Target property	De- fault Val- ue	Description a. Open the certificate file in a text editor. b. Select the certificate and copy it to the clipboard. Note: You must select everything and include the BEGIN CERTIFICATE
			lines. c. Click Save .
Regis- ter tar- get in group	GroupLabel	blank	Enter a target group name that the target is made a member of when the configuration is applied. This target group must exist in the Remote Control database. Note: The GroupLabel property can be used only if the target is not already registered with the server. If the target is already registered, it is not assigned to the target group. The allow.target.groupoverride property in the trc.proper-
			ties file on the server must be set to true for the GroupLabel property value to be applied.
Remote Control port	PortToLis- ten	888	Specify the TCP port that the target listens on.



Instal-		De- fault	
lation	Target	Val-	
option	property	ue	Description
Allow	AllowP2P	Nev-	Used to enable peer-to-peer mode.
peer-		er	Never
to-peer			A peer-to-peer session cannot be
mode			established between a controller
			and this target. If a ServerURL is
			provided, the targets can take part
			only in remote control sessions that are initiated from the server.
			that are initiated from the server.
			Only if server is unreachable.
			A peer-to-peer session can be es-
			tablished between a controller user
			and this target only when the Re-
			mote Control server is down or un-
			reachable.
			Always
			A peer-to-peer session can be es-
			tablished between a controller user
			and this target.
			Note: If this option is se-
			lected and a server url is
			provided, the targets can
			take part in both peer-to-
			peer sessions and ses-
			sions that are initiated
			from the server.



Instal-	Townst	De- fault Val-	
option	Target property	ue	Description
FIPS	FIPSCom-	not	Select this option to enable the use of a FIPS-
compli-	pliance	se-	certified cryptographic provider for all crypto-
ance		lect-	graphic functions. For more information about
		ed	enabling FIPS compliance, see the <i>BigFix® Re-</i>
			mote Control Installation Guide.
			Note: If you enable FIPS compliance on
			the target, also enable FIPS compliance
			on the controller components that are in-
			stalled. Only the IBM® Java™ Run-time
			Environment (JRE) is supported in FIPS-
			compliant mode and the JRE is installed
			when you install the controller software.
			To enable FIPS compliance on the con-
			troller, complete the following steps.
			a. Edit the trc_controller.cfg
			file on the system that the con-
			troller is installed on.
			Windows® systems
			[controller
			installation
			dir]\trc_con-
			troller.cfg
			where [controller
			installation dir] is
			the directory that



		De-	
Instal-		fault	
lation	Target	Val-	
option	property	ue	Description
	property.		<u> </u>
			the controller is in-
			stalled in.
			Linux® systems
			opt/big-
			fix/trc/con-
			troller/trc
			controller.cfg
			b. Set the fips.compliance property
			to true and save the file.
Enable	SP800131A-	not	Select this option to enforce NIST SP800-131A-
NIST	Compli-	se-	compliant algorithms and key strengths for all
SP800-1	B á n A ce	lect-	cryptographic functions. For more information
compli-		ed	about enabling NIST SP800-131A compliance,
ance			see the BigFix® Remote Control Installation
(En-			Guide.
ables			-
FIPS)			Note: If you enable NIST SP800-131A
			compliance on the target, also enable
			NIST SP800-131A compliance on the
			controller components that are installed.
			Only the IBM® Java™ Run-time Envi-
			ronment (JRE) is supported in NIST
			SP800-131A compliant mode and the
			JRE is installed when you install the
			controller software. To enable NIST
			SP800-131A compliance on the con-
			troller, complete the following steps.



		De-	
Instal-		fault	
lation	Target	Val-	
option	property	ue	Description
			a. Edit the trc_controller.cfg
			file on the system that the con-
			troller is installed on.
			Windows® systems
			[controller
			installation
			dir]\trc_con-
			troller.cfg
			where [controller
			installation dir] is
			the directory that
			the controller is in-
			stalled in.
			Linux® systems
			opt/big-
			fix/trc/con-
			troller/trc
			controller.cfg
			b. Set the sp800131A.compliance
			property to true and save the file.
Acces-	Accessibil-	not	Select this option to enable the accessibility UI.
sibility	ity	se-	Available when you select Windows as the oper-
		lect-	ating system.
		ed	



Instal- lation option	Target property	De- fault Val- ue	Description
Level	LogLevel	2	The log level determines the types of entries and how much information is added to the log file. Default value is 2. 0 - Logging is set to a minimal level. 1 - Logging is set to ERROR level. 2 - Logging is set to INFO level. 4 - Logging is set to DEBUG level. Note: Use Log Level = 4 only by request from HCL support.
Log	LogRollover	Daily	Controls the period after which a new log file is started. This period must be shorter than the LogRotation period, therefore not all combinations are valid. LogRollover cannot be disabled. Default value is Daily. Hourly Start a new log file on the hour. Recommended if the log is written to frequently or when you use a log level higher than 2. Daily Start a new log file every day.
Log Ro- tation	LogRota- tion	Week-	Controls the period after which an older log file is overwritten. Log rotation can be disabled. Default value is Weekly.



	De-	
	fault	
Target	Val-	
_		Description
property		
		Daily
		Overwrite log files after 1 day.
		When LogRollover is set to Hourly,
		the suffix that is added to the log
		file name is 00H to 23H.
		Weekly
		Overwrite log files after 1 week.
		When LogRollover is set to Hourly,
		the suffix that is added to the log
		file name specifies the day and
		hour. Value can be Mon-00H to
		Sun-23H. When LogRollover is set
		to Daily, the suffix that is added to
		the log file name specifies the day.
		The value can be Mon to Sun.
		Monthly
		Overwrite log files after 1
		month. 01-00H to 31-23H. When
		LogRollover is set to Hourly, the
		suffix that is added to the log file
		name specifies the numeric day
		of the month and the hour. Value
		can be 01-00H to 31-23H. When
		LogRollover is set to Daily, the
		suffix that is added to the log file
		name specifies the numeric day of
	Target property	fault Target Val-



Instal- lation option	Target property	De- fault Val- ue	Description
			the month. The value can be 01 -
			31.
			Disabled
			LogRotation is disabled. When
			LogRollover is set to hourly, the
			suffix that is added to the log file
			name specifies the current date
			and time. Value can be YYYY-MM-
			DD-hh. When LogRollover is set to
			Daily, the suffix that is added to the
			log file name specifies the current
			date. The value can be YYYY-MM-
			DD.

Table 2. Session option descriptions.

		De-	
User		fault	
op-	Target	Val-	
tions	property	ue	Description
Al-	AllowMoni-	se-	Determines whether the target can take part in monitor peer-to-
low	tor	lect-	peer sessions. For details of the different types of remote con-
mon-		ed	trol session that can be established, see the BigFix® Remote
itor			Control Controller User's Guide.
mode			selected
			The target can take part in monitor peer-to-peer
			sessions. The Monitor option is available for se-

User op-tions	Target property	De- fault Val- ue	Description lection in the session type list in the controller window. The Open connection window also lists a Monitor option. not selected The target cannot take part in monitor peer-to-peer sessions. The Monitor option is not available in the session type list in the controller window. Determines whether the target can take part in guidance peer-
low guid- ance mode	ance		to-peer sessions. selected The target can take part in guidance peer-to-peer sessions. The Guidance option is available in the session type list in the controller window. The Open connection window also lists a Guidance option. not selected The target cannot take part in guidance peer-to-peer sessions. The Guidance option is not available in the session type list in the controller win-
Al- low ac- tive mode	AllowActive	se- lect- ed	dow. Determines whether the target can take part in active peer-to- peer sessions. selected The target can take part in active peer-to-peer sessions. The Active option is available in the

		Γ	
		De-	
User		fault	
op-	Target	Val-	
tions	property	ue	Description
			session type list in the controller window. The
			Open connection window also lists an Active op-
			tion.
			not selected
			The target cannot take part in active peer-to-peer
			sessions. The Active option is not available in the
			session type list in the controller window.
Dis-	DisableChat	not	Determines the ability to start a chat session with the target
able		se-	and also chat to the controller user during a peer-to-peer ses-
chat		lect-	sion.
		ed	
			selected
			If Chat Only is chosen as the connection type on
			the open connection screen, the session is re-
			fused. During the session, the chat icon is not
			available in the controller window.
			not selected
			A Chat Only session can be initiated from the
			open connection window. During the session, the
			chat icon is available in the controller window.
Dis-	DisableFile-	not	Determines the ability to transfer files from the target to the
able	Pull	se-	controller during the session.
file		lect-	selected
trans-		ed	
fer			Files can be transferred from the target to the
to			controller.
			not selected

		De-	
User		fault	
op-	Target	Val-	
tions	property	ue	Description
Con-			Files cannot be transferred from the target to the
troller			controller.
Dis-	DisableFile-	not	Determines the ability to transfer files from the controller to the
able	Push	se-	target during the session.
file		lect-	selected
trans-		ed	Files can be transferred from the controller to the
fer			target.
to			not selected
Tar-			
get			Files cannot be transferred from the controller to
			the target.
Dis-	DisableClip-	not	Determines the availability of the clipboard transfer menu. Use
able	board	se-	the menu to transfer the clipboard content between the con-
clip-		lect-	troller and target during a remote control session.
board		ed	selected
trans-			The clipboard transfer menu is available during
fer			the session to transfer the clipboard content to
			and from the target.
			not selected
			The clipboard transfer menu is not available dur-
			ing the session.
Al-	Allow-	se-	The controller user can make and save a local recording of the
low	Recording	lect-	session in the controlling system.
local		ed	selected
record	1 -		The record option is available in the controller
ing			window.

User op- tions	Target property	De- fault Val- ue	Description not selected The record option is not available in the controller
			window.
Al- low col- lab- ora- tion	AllowCollaboration	se- lect- ed	Use this property to allow more than one controller to join a session. Determines the availability of the collaboration icon on the controller window. selected The collaboration icon is available in the controller window. not selected The collaboration icon is not available in the con-
			troller window.
Al- low han- dover	AllowHan- dover	se- lect- ed	The master controller, in a collaboration session, can hand over control of the session to a new controller. Determines the availability of the Handover button on the collaboration control panel. selected The Handover button is displayed in the collaboration control panel. not selected The Handover button is not displayed in the collaboration control panel.
	AII -	_	laboration control panel.
Al- lows re-	AllowForce- Disconnect	not se-	Determines whether a Disconnect session button is available in the message window that is displayed when you attempt to

		De-	
User		fault	
	Target	Val-	
op-	_		Decemention
tions	property	ue	Description
quest	s	lect-	connect to the target. You can use the Disconnect session op-
to		ed	tion to disconnect the current session.
dis-			selected
con-			The disconnect button is displayed in the mes-
nect			sage window.
ses-			not selected
sion			
			The disconnect button is not displayed in the
			message window.
Dis-	ForceDis-	45	Number of seconds you must wait for the current controller
con-	connect-		to respond to the prompt to disconnect the current session. If
nect	Timeout		they do not respond in the time that is given, they are automati-
grace			cally disconnected from the session. The timer takes effect on-
time			ly when AllowForceDisconnect and CheckUserLogin are set to
			Yes. The default value is 45.
Con-	AutoWinLo-	se-	Determines whether a session can be started when no users
nect	gon	lect-	are logged on at the target.
at lo-		ed	selected
gon			Session is started with the target.
			-
			not selected
			Session is not started and the following mes-
			sage is displayed. Session rejected because
			there is no user logged to confirm the
			session
Run	RunPre-	not	Determines whether a user-defined script is run before the re-
pre-	Script	se-	mote control session starts. The script is run just after the ses-

		De-	
User		fault	
ор-	Target	Val-	
tions	property	ue	Description
ses-		lect-	sion is allowed but before the controller user has access to the
sion		ed	target. The outcome of running the script and the continuation
script			of the session is determined by the value that is set for Pro-
			ceed on pre/post-script failure.
			selected
			When a remote control session is requested, the
			defined script is run before the controller user
			has access to the target.
			not selected
			No script is run before the session.
			For more information about setting up pre and post session
			scripts, see the <i>BigFix® Remote Control Administrator's Guide</i> .
Run	RunPost-	not	Determines whether a user-defined script is run after the re-
post-	Script	se-	mote control session finishes.
ses-		lect-	selected
sion		ed	When a remote control session ends, the user-de-
script			fined script is run.
			not selected
			No script is run after the session.
			For more information about setting up pre and post session
			scripts, see the <i>BigFix® Remote Control Administrator</i> 's <i>Guide</i> .
Pro-	ProceedOn-	not	Action to take if the pre-script or post-script execution fails. A
	ScriptFail	se-	positive value or 0 is considered a successful run of the pre-
on	. 1		
pre/		ed	

	De-	
_	fault	
3.1	Val-	
property	ue	Description
		not found, or not finished running within 3 minutes is consid-
		ered a failure.
		selected
		If the pre-script or post-script run fails, the ses-
		sion continues.
		not selected
		If the pre-script or post-script run fails, the ses-
		sion does not continue and ends.
orkaround-	Not	Automatically reset the console after a Remote Desktop con-
2K3RDP	se-	sole session. When a Remote Desktop user uses the /admin or
	lect-	/console option to start a Remote Desktop session with a Win-
	ed	dows® Server 2003 system and a user starts a remote con-
		trol session with this target before, during or after the Remote
		Desktop session, remote control is unable to capture the dis-
		play. The result is that a gray screen is shown in the controller.
		This issue is a limitation in Windows® Server 2003 operating
		systems. Therefore, this property introduces a workaround
		that will reset the Windows® session either after each Re-
		mote Desktop session ends, or before a remote control ses-
		sion starts, depending on the value selected.
		0
		The workaround is disabled. This value is the de-
		fault value.
		1
		Reset the session automatically when a remote
		control session is started.
	property orkaround-	orkaround- Not 2K3RDP se- lect-

		De-	
User		fault	
op-	Target	Val-	
tions	property	ue	Description
			Note: The Windows® session takes a couple of minutes to initialize and the controller sees a blank desktop until the initialization is complete. A message in-
			forms the controller user that the session
			is being reset and it might take a few min-
			utes.
			2
			Reset the session automatically when the Re-
			mote Desktop user logs out.
Fol-	FollowAc-	Not	If selected, the controller connects to the active session in the
low	tiveSession	se-	target, even if this session is a Remote Desktop session. This
Ac-		lect-	feature is available in Remote Control v9.1.2 IF0002 and lat-
tive		ed	er versions and is supported on the following Microsoft™ Win-
Ses-			dows™ operating system versions:
sion			• Microsoft™ Windows™ Vista
			• Microsoft™ Windows™ 7
			• Microsoft™ Windows™ 8
			• Microsoft™ Windows™ 8.1
			• Microsoft™ Windows™ 10
			This feature is not supported on any server edition of Mi-
			crosoft™ Windows™.

Table 3. User acceptance option descriptions

		De-	
User	Target	fault	
op-	prop-	Val-	
tions	erty	ue	Description
Con-	Con-	se-	Determines whether the acceptance window is displayed on the target, when a
firm	firm-	lect-	remote control session is requested.
in-	Take-	ed	selected
com-	Over		The user acceptance window is displayed and the target user can
ing			accept or refuse the session.
con-			not selected
nec-			not selected
tions			The user acceptance window is not displayed and the session is
			established.
Con-	Con-	se-	Determines whether the user acceptance window is displayed when the con-
firm	firm-	lect-	troller user selects a different session mode from the session mode list on the
mode	Mode-	ed	controller window.
chang	change@hange		selected
			The user acceptance window is displayed each time a session
			mode change is requested and the target user must accept or
			refuse the request.
			not selected
			The user acceptance window is not displayed and the session
			mode is changed automatically.
Con-	Con-	se-	Determines whether the user acceptance window is displayed when the con-
firm	firm-	lect-	troller user selects to transfer files between the target and the controller.
file	File-	ed	selected
trans-	Trans-		The acceptance window is displayed in the following two cases.
fers	fer		The target user must accept or refuse the file transfer.
			got addadt addapt of foliado the me transfer.

		De-	
User	Target	fault	
op-	prop-	Val-	
tions	erty	ue	Description
			The controller user selects pull file from the file transfer
			menu on the controller window. The target user must se-
			lect the file that is to be transferred after they accept the
			request.
			The controller user selects send file to controller from
			the Actions menu in the target window.
			Not selected
			The acceptance window is not displayed and files are transferred
			automatically from the target to the controller system when re-
			quested.
Con-	Confir-	se-	Determines whether the user acceptance window is displayed when the con-
firm	mSys-	lect-	troller user requests to view the target system information.
sys-	Info	ed	selected
tem			When the controller user clicks System information in the con-
infor-			troller window, the user acceptance window is displayed. The
ma-			target user must accept or refuse the request. If the target user
tion			clicks accept, the target system information is displayed in a sep-
			arate window on the controller system. If they click refuse, a mes-
			sage is displayed on the controller and the system information is
			not displayed.
			not selected
			The target system information is displayed automatically when
			the controller user clicks the system information icon.
Con-	Con-	se-	Determines whether the user acceptance window is displayed when the con-
firm	firm-	lect-	troller user clicks the record icon on the controller window.
		ed	selected

		De-	
User	Target	fault	
op-	prop-	Val-	
tions	erty	ue	Description
record	-Record-		When the controller user clicks the record icon on the controller
ing	ing		window, a message window is displayed. If the target user clicks
			Accept, the controller user can select a directory to save the
			recording to. If the target user clicks Refuse , a recording refused
			message is displayed to the controller.
			Note: After the target user accepts the request for record-
			ing, if the controller user stops and restarts local record-
			ing, the acceptance window is not displayed.
			not selected
			When the controller user clicks the record icon on the controller
			window, the message window is not displayed. The controller
			user can select a directory to save the recording to.
Con-	Con-	se-	Determines whether the user acceptance window is displayed when another
firm	firm-	lect-	controller user requests to join a collaboration session with a target.
col-	Collab-	ed	selected
lab-	oration		When the controller user tries to join the collaboration session,
ora-			the user acceptance window is displayed. The target user must
tion			accept or refuse the request to allow the additional controller to
			join the session. If the target user clicks accept, the additional
			controller joins the collaboration session. If they click refuse, a
			message is displayed on the controller system and the additional
			controller cannot join the collaboration session.
			-
			not selected

		De-	
User	Target	fault	
op-	prop-	Val-	
tions	erty	ue	Description
			The additional controller automatically joins the collaboration
			session when they try to connect to the master controller of the
			session.
Ac-	Ассер-	45	Sets the number of seconds to wait for the target user to respond before a ses-
сер-	tance-		sion starts or times out, used with Confirm incoming connections .
tance	Grace-		Acceptable values 0 - 60. If set to 0, the target user is not asked to re-
grace	Time		spond to the session request.
time			Note: If Confirm incoming connections is selected, Acceptance grace
			time must be set to a value >0 to provide the target user with enough
			time to respond.
Pro-	Ассер-	not	Action to take if the user acceptance window timeout lapses. The target user
ceed	tance-	se-	did not click accept or refuse within the number of seconds defined for Accep-
on	Pro-	lect-	tance grace time.
ac-	ceed	ed	selected
сер-			Session is established.
tance			
time-			not selected
out			Session is not established.
Hide	Hide-	not	Determines whether the Hide windows check box is displayed on the user ac-
win-	Win-	se-	ceptance window when Confirm incoming connections is also selected.
dows	dows	lect-	selected
		ed	The Hide windows check box is displayed on the user accep-
			tance window.
			not selected

		De-	
User	Target	fault	
op-	prop-	Val-	
tions	erty	ue	Description
			The Hide windows check box is not visible on the user accep-
			tance window.

Table 4. security option descriptions

Secu-	Tar-	De-	
rity	get	fault Val-	
op- tions	prop- erty	vai- ue	Description
tions	erty	ue	Description
Au-	Check-	se-	Determines whether the login window is displayed when a session
then-	User-	lect-	type is selected on the Open Connection window.
ticate	Login	ed	Yes
using			The logon window is displayed and the controller
sys-			user must log on with a valid Windows™ operating
tem			system ID and password. If the logon credentials are
logon			invalid, the target refuses the session.
			invalid, the target refuses the session.
			No
			The logon window is not displayed and the peer-to-
			peer session is established.
Au-	Check-	see	Default value is:
tho-	User-	de-	Windows® systems
rized	Group	scrip-	-
user		tion	BUILTIN\Administrators
group			Linux® systems
			wheel
			When Authorized user group has a value set, the user name that
			is used for authentication must be a member of one of the groups

Secu-	Tar-	De-	
rity	get	fault	
op-	prop-	Val-	
tions	erty	ue	Description
			that are listed. If the user is not a member, the session is refused.
			Multiple groups must be separated with a semicolon. For example,
			wheel;trcusers
			Note: By default, on Windows® systems, only the Admin-
			istrator user is granted access. On Linux® systems, by de-
			fault no users are granted access. To resolve this issue,
			complete one of the following steps.
			a. To also grant administrator rights to the users, add
			them as members to the Administrators group on
			Windows® systems or the wheel group on Linux®
			systems.
			b. For users with no administrator rights, complete
			the following steps
			i. Create a group or use an existing group. For
			example, the following command can be run
			as root:
			groupadd trcusers
			·
			ii. Add the users to this group. For example,
			the following command can be run as root
			to add bsmith to trcusers :
			usermod -a -G trcusers <bsmith></bsmith>
			iii. Add the group to the list in the Authorized
			user group field.

Secu-	Tar-	De-	
rity	get	fault	
op-	prop-	Val-	
tions	erty	ue	Description
Au-	Au-	se-	Determines whether the actions that are carried out during remote
dit to	ditTo-	lect-	control sessions are logged to the application event log on the tar-
sys-	Sys-	ed	get. This file can be used for audit purposes.
tem	tem		selected
log			Entries are logged in the application event log of the
			target corresponding to each action that is carried
			out during the session.
			not selected
			No entries are logged to the application event log.
Save	Auto-	not	Determines whether the chat text, entered during a chat session,
chat	Save-	se-	can be saved.
mes-	Chat	lect-	selected
sages		ed	The chat text is saved as an html file. The file is
			chat-username-date.html, where username is
			the display name of the logged on user on the con-
			troller machine in a peer-to-peer session. In man-
			aged mode <i>username</i> is the display name for the
			controller user that is on the server. The date is in the
			format YYYYMMDD. The file is saved in the working
			directory of the target. The location of the working di-
			rectory is defined by the target property WorkingDir .
			For example, on Windows™ systems, the file is saved
			to
			c:\ProgramData\BigFix\Remote Control.
			On Linux systems, the file is saved to /var/opt/
			bigfix/trc/target/.

Secu-	Tar-	De-	
rity	get	fault	
op-	prop-	Val-	
tions	erty	ue	Description
			not selected
			The chat text is not saved to a file.
En-	En-	not	Determines whether the file transfer session allows for target file
able	able-	se-	system access using System privileges (Windows) or root privi-
sys-	File-	lect-	leges (Linux). This option is valid for peer to peer sessions only.
tem	Trans-	ed	selected
ac-	fer-		
cess	Sys-		The file transfer session uses System privileges (Win-
for	tem-		dows) or root privileges (Linux) on the target file sys-
file	Ac-		tem.
trans-	cess		not selected
fer			The file transfer session uses the privileges of the
			logged on user on the target file system.
Lock	Ses-	not	Determines whether the target computer is automatically locked
target	sion-	se-	when the remote control session ends.Allowed value: <i>lock</i> .
on	Dis-	lect-	When you set the value to lock, the target computer is automatical-
dis-	con-	ed	ly locked at the end of the session. If the property is blank or set to
con-	nect		another value, the target computer is not automatically locked at
nect			the end of the session.
Allessi	Allow-		Determines whether a controller was controlled the level input and
Allow		se-	Determines whether a controller user can lock the local input and
priva-	Priva-	lect-	screen of the target when in a remote control session. Determines
су	су	ed	the visibility of the Enable Privacy option on the controller window.
			selected
			The Enable Privacy option is available in the Per-
			form Action in target menu in the controller window.
			not selected

Secu-	Tar-	De-	
rity	get	fault	
op-	prop-	Val-	
tions	erty	ue	Description
			The Enable Privacy option is not available in the Per-
			form Action in target menu in the controller window.
Allow	Allow-	se-	This property works with Allow privacy and on its own. You can
input	Input-	lect-	use Allow input lock to lock the target users mouse and keyboard
lock	Lock	ed	during a remote control session.
			selected
			The lock target input menu item is enabled, in the
			Perform action in target menu in the controller win-
			dow. Select lock target input to lock the target users
			mouse and keyboard during a remote control ses-
			sion. The target screen is still visible to the target
			user.
			not selected
			The lock target input menu item is not enabled in the
			Perform action in target menu in the controller win-
			dow.
			Note: If the option to Enable Privacy is selected during a
			session, the remote user input is automatically locked. It is
			not possible to enable privacy without also locking the in-
			put.
En-	En-	not	Determines whether the local input and screen are locked for all
able	able-	se-	sessions. Therefore, the target user cannot input or do anything on
priva-	Priva-	lect-	the target while in a remote control session.
су	су	ed	selected

Secu-	Tar-	De-	
rity	get	fault	
op-	prop-	Val-	
tions	erty	ue	Description
			The target screen is blanked out by the privacy
			bitmap when the session starts, preventing the tar-
			get user from interacting with the screen while in the
			session. The target desktop is still visible to the con-
			troller user in the controller window.
			not selected
			The target screen is not blanked out when the ses-
			sion is started and the target user can interact with
			the screen.
En-	En-	not	This property works with Enable privacy . When privacy mode is
able	able-	se-	enabled, use Enable input lock to determine whether the target
input	Input-	lect-	user can view their screen or not, during a remote control session.
lock	Lock	ed	selected
			The target screen is visible to the target user during
			the session, while in privacy mode but their mouse
			and keyboard control is locked.
			not selected
			The target screen is not visible to the target user. The
			privacy bitmap is displayed on the target during the
			session. The target users mouse and keyboard input
			is also disabled.
			Note: Enable privacy must be selected for Enable input
			lock to take effect.
Dis-	Dis-	not	Determines whether the Pause Break key can be used by the target
able-	able-	se-	user to automatically end the remote control session.

Secu-	Tar-	De-	
rity	get	fault	
op-	prop-	Val-	
tions	erty	ue	Description
Pan-	Pan-	lect-	selected
icKey	icKey	ed	The target user cannot use the Pause Break key to
			automatically end the remote control session.
			not selected
			The target user can use the Pause Break key to auto-
			matically end the remote control session.
En-	En-	not	Determines whether a semi-transparent overlay is displayed on
able	able-	se-	the target computer to indicate that a remote control session is in
on-	OSSN	lect-	progress. Use this property when privacy is a concern so that the
screen		ed	user is clearly notified when somebody can remotely view or con-
ses-			trol their computer.
sion			selected
noti-			The semi-transparent overlay is displayed on the tar-
fica-			get screen with the text Remote Control and what
tion			type of remote control session is in progress. For
			example, Remote Control - Active Mode. The
			overlay does not intercept keyboard or mouse ac-
			tions, therefore the user is still able to interact with
			their screen.
			not selected
			No overlay is displayed on the target computer.
			Note: This policy is only supported on targets that have a
			Windows® operating system installed.

Secu-	Tar-	De-	
rity	get	fault	
op-	prop-	Val-	
tions	erty	ue	Description
Dis-	Dis-	not	Determines the appearance of the target GUI when the remote con-
able	able-	se-	trol session is starting and also during the session.
GUI	GUI	lect-	
		ed	Note: This option works only when the target is installed
			in peer-to-peer mode and the Managed target property is
			set to No. This option is ignored when applied to any tar-
			gets that were installed by using the Remote Control server
			mode when a server URL was supplied.
			selected
			The target GUI is not visible on the target and the tar-
			get user is not aware that the session is started. The
			Remote Control target icon is not visible in the Win-
			dows® system tray.
			not selected
			The target GUI is displayed on the target as the ses-
			sion is starting and is available to the target user dur-
			ing the remote control session.

Table 5. performance option descriptions

Se-			
cu-		De-	
rity		fault	
op-	Target	Val-	
tions	property	ue	Description
Inac-	IdleTimeout	360	Number of seconds to wait until the connection ends if
tivity			there is no session activity. Set this value to 0 to disable

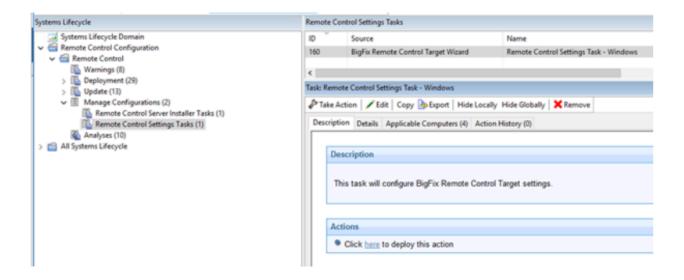
Se-			
cu-		De-	
rity		fault	
op-	Target	Val-	
tions		ue	Description
	property	ue	<u> </u>
time-			the timer so that the session does not end automatically.
out			The minimum timeout value is 60 seconds. For values 1 -
			59, the session times out after 60 seconds of inactivity.
			Note: The inactivity timeout value applies to Active
			session mode only. The session does not end auto-
			matically when other session modes are used.
			,
			The default value is 360.
En-	EnableTrueCol-	not	Determines whether the target desktop is displayed in high-
able	or	se-	quality colors in the controller window at the start of a ses-
high		lect-	sion. Used together with Lock color quality .
qual-		ed	selected
ity			The target desktop is displayed in true color
col-			24-bit mode at the start of the session. Par-
ors			tial screen updates are also enabled.
			not selected
			The target desktop is displayed in 8-bit col-
			or mode at the start of the session. Partial
			screen updates are also enabled. This value
			is the default value.
Lock	LockColor-	not	Determines whether the color quality that a remote control
color	Depth	se-	session is started with can be changed during the session.
qual-	•		Used together with Enable high quality colors .
ity		ed	
			selected

Se-			
cu-		De-	
rity		fault	
op-	Target	Val-	
tions	property	ue	Description
			The initial color quality, for the remote con-
			trol session, is locked and cannot be changed
			during the session. The Performance set-
			tings icon is disabled in the controller win-
			dow. The controller user cannot change set-
			tings to improve the session performance if
			their network is slow.
			not selected
			The color quality can be changed during the
			session. The Performance settings icon is
			enabled in the controller window.
Re-	RemoveBack-	not	Determines whether a desktop background image can be
move	ground	se-	removed from view during a remote control session.
desk-		lect-	selected
top		ed	The desktop background image, on the tar-
			get, is not visible during a remote control ses-
			sion.
			not selected
			The desktop background image, on the tar-
			get, is visible during a remote control session.
			<u> </u>
Stop	NoScreenSaver	not	Stops the target from sending screen updates when it de-
screer	ı	se-	tects that the screen saver is active.
saver		lect-	selected
up-		ed	
dates			

Se- cu- rity		De- fault	
ор-	Target	Val-	
tions	property	ue	Description
			While the screen saver is active on the target
			system, the target stops transmitting screen
			updates. A simulated screen saver is dis-
			played on the controller computer so that the
			controller user knows that a screen saver is
			active on the remote screen. The controller
			user can close the screen saver by pressing a
			key or moving the mouse.
			not selected
			No simulated screen saver is displayed in
			the session window. The target screen is dis-
			played as normal and the target continues to
			transmit screen updates.

3. Click **Create Configuration Task**. Type the relevant information for your task and click **OK**

Your task is displayed in the list panel of the Remote Control Settings Tasks subnode.

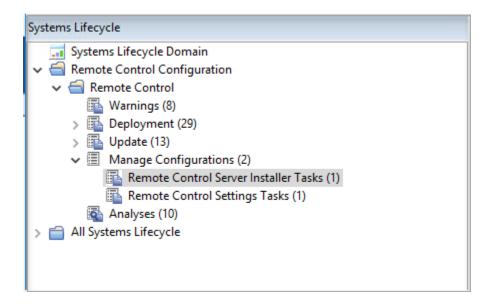


Run Remote Control tasks

After you create server and target configuration tasks, run the tasks to install the Remote Control server software or change the configuration of already installed targets.

Running server installer tasks

Use the **Remote Control Server Installer Tasks** subnode to run the tasks that you created by using the **Remote Control Server Installer Wizard**. Select the required task. Select the **Description** tab and review the description. If you are using a DB2, MS SQL, or Oracle database, you must enter the database password. Follow the instructions in the Actions box to initiate the task. These tasks install the Remote Control server software on your selected computers.

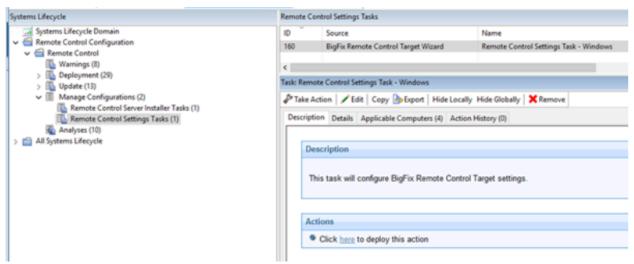




Note: If the server installer fails, the task fails and an exit code is displayed.

Running target configuration tasks

Use the **Remote Control Settings Tasks** subnode to run the configuration tasks that you created by using the **Remote Control Target Wizard**. Select the task. In the **Task** window, review the description, and follow the instructions in the Actions box to initiate the task.



Analyses

The **Analyses** subnode provides a set of analyses that gather installation, user, and audit information. This data provides a history of remote control connection events that took place on the computers in your environment that have the controller or target components installed. These analyses are activated globally therefore any computers in your environment, that the analysis is relevant for, report their values.

Retrieving target installation and security data

The **Remote Control Installation and Security Options** analysis is used for gathering information about the installation and security property values from targets in your environment. The returned values provide information about the targets. For example, if they are allowed to take part in peer-to-peer sessions or if they can take part in remote control sessions that are initiated from an Remote Control server. For property value definitions, see step 2 (on page 84).

If the analysis is active, the computers that this analysis was relevant for and the values of the installation and security options, are displayed in the **Results** tab. You can expand the **Applicable Computers** entry and filter the data further by **Retrieved Properties**. This feature can be useful in many ways. For example, to determine which targets can take part in peer-to-peer remote control sessions or to view the version of target software that is installed on the various Remote Control targets.

For example, to view a list of targets that are running a specific version of Remote Control target software, expand **Applicable Computers > By Retrieved Properties > By Remote Control Target Version** and select a specific version from the list. A list of relevant targets is displayed.

Retrieving audit events data

The **Remote Control Controller Logs** analysis is used for gathering the audit events from any computers in your environment that have the Remote Control controller component installed. The information is retrieved and updated every 6 hours. This information can

be used for auditing purposes and also for monitoring session activity carried out by the controller user.

If the analysis is active, the list of computers that this analysis is relevant for is displayed in the **Results** tab. Double-click a computer to see summary data for the selected computer. The data includes a section for the controller log entries that are retrieved by the **Remote Control Controller Logs** analysis. You can also expand the **Applicable Computers** entry and filter the data further by specific retrieved properties.



Note: If the controller component is actively in a remote control session while the analysis tries to gather data from it, an error is reported. The error is reported in the analysis results stating that the file is in use.

Retrieve user, session, and performance data

The **Remote Control User, Session, and Performance Options** analysis is used for gathering user interaction, session behavior, and performance property values from targets in your environment. Use the properties to determine what actions the controller user can carry out during a remote control session with this target. For property value definitions, see step 2 (on page 84).

If the analysis is active, the computers that this analysis was relevant for and the values of the user interaction properties are displayed in the Results tab. You can expand the **Applicable Computers** entry and filter the data further by specific retrieved properties.

Retrieve session connection data

The **Remote Control Target Log (Start/Stop)** analysis is used for gathering the audit events from any computers in your environment that have the Remote Control target component installed.

The information is retrieved and updated every 6 hours. The information that is returned by this analysis is useful for viewing remote control session usage activity on specific targets. Only the session connection, start, and stop events that are returned for each session. If

you require information about the remote control session activity, use the Remote Control Target Log analysis.



Note: This analysis is only valid for Windows[™] targets.

If the analysis is active, the Results tab lists the computers that this analysis was relevant for. Double-click a computer to see summary data for the selected computer that includes a section for the target log start stop entries. You can also expand the Applicable Computers entry and filter the data further by specific retrieved properties.

Retrieve session activity data

The **Remote Control Target Logs** analysis is used for gathering the audit events from any computers in your environment that have the Remote Control target component installed. The information is retrieved and updated every 6 hours. This information is useful for auditing purposes. Details of the actions that were carried out during a remote control session are displayed. For example, a change in session type or a file transfer. The controller user in the session is also displayed.

If the analysis is active, the computers that this analysis was relevant for are displayed in the **Results** tab. Double-click a computer to see summary data for the selected computer. The data includes a section for the target log entries that are retrieved by the **Remote** Control Target Logs analysis. You can also expand the Applicable Computers entry and filter the data further by specific retrieved properties.



Note: To view the complete information for the reason codes, use the web reports feature to display the output. For more information about web reports, see Viewing web reports (on page 138).

Enable smart card authentication in the target

To support smart card authentication in the BigFix® Remote Control Target you must install the virtual smart card reader driver and related certificates on the target. You can install

the driver and certificates after you install the target by running a Fixlet® in the BigFix® console. You can also install the certificates by using Active Directory Group Policy.

The device driver for the IBM® virtual smart card reader is required to enable the use of smart cards for remote authentication, or to perform an action on the target computer. During a remote control session, the target creates a virtual card reader. The controller user selects a physical card reader on their system to connect it to the virtual card reader so that the target system can access the smart card. During the session, when Windows™ makes a request to the virtual card reader, the target redirects the request to the physical card reader on the controller system. For more information about using the smart card feature during a session see, the BigFix® Remote Control Controller User's Guide.



Note: The device driver for the IBM® virtual smart card reader is supported only in Windows™ 7 or later and Windows™ Server 2008 R2 or later.

Determining whether smart card support is enabled

To enable smart card support on your targets, multiple prerequisites must be met. Check which of your computers need action by using an Analysis.

To see the status of your computers, complete the following steps:

- 1. Go to the Remote Control- Virtual Smart Card Reader Driver Status analysis in the Remote Control site.
- 2. Review the information in the **Description** tab.
- 3. Review the information in the **Results** tab. If smart card support is enabled, the **Driver Installed** value reports the version of the driver installed, and the following properties display a YES value:
 - Trusted Publisher SHA1 Installed
 - Trusted Publisher SHA256 Installed
 - Root CA SHA1 Installed
 - Root CA SHA256 Installed

The KB2921916 Installed and KB3033929 Installed properties can display the value YES or N/A, depending on the version of Windows operating system installed on the target.



Note: If <error> is displayed in the KB2921916 Installed and KB3033929 **Installed** columns, you must ensure that you are subscribed to the Patches for Windows™ site. Enable the Patches for Windows™ site in the **License Overview** section of the BigFix® console.

Installing the virtual smart card reader driver and certificates by running a Fixlet

Install the device driver for virtual smart card reader together with the certificates by running a Fixlet in the BigFix® console.

You can install the driver and certificates by running a Fixlet after you install the target. To install the driver and certificates, complete the following steps:

- 1. In the **Remote Control** site, click the **Deployment** node.
- 2. Select the Install Remote Control Virtual Smart Card Reader Driver version 10.0.0.23 and certificates task.
- 3. Review the information in the **Description** tab.
- 4. Follow the instructions in the **Actions** field to install the driver.

The device driver and certificates that are required for smart card authentication are installed. During a remote control session, when the controller user selects a physical card reader on their system, the target can now create a virtual card reader.



Note: If an error is reported when you run the Fixlet, use the VSCDriverInstall.log file in the target installation directory for debugging purposes.

Removing the virtual smart card reader driver and certificates by running a Fixlet®

Remove the device driver for the IBM® virtual smart card reader together with the certificates by running a Fixlet® in the BigFix® console.

To remove the driver and certificates complete the following steps:

- 1. In the **Remote Control** site, click the **Deployment** node.
- 2. Select the Uninstall Virtual Smart Card Reader Driver for Remote Control task.
- 3. Review the information in the **Description** tab.
- 4. Follow the instructions in the **Actions** field to remove the driver and certificates.

The device driver and Trusted Publisher certificates that are required for smart card authentication are removed from the selected computers. The smart card feature is no longer available on the selected computers.



Note: If an error is reported when you run the Fixlet®, use the VSCDriverUninstall.log file in the target installation directory for debugging purposes.

Installing the certificates by running a Fixlet®

Use a Fixlet® to install the certificates that are required by the device driver for the virtual smart card reader.

You can install the certificates together with the driver by running a Fixlet®. However, if the results of the **Remote Control - Virtual Smart Card Reader Driver Status** analysis show that the device driver is installed on your computer, but there are no certificates, you can install the certificates by running a Fixlet®. To install the certificates, complete the following steps:

- 1. In the **Remote Control** site, click the **Deployment** node.
- 2. Select the Install Remote Control Certificates for the Virtual Smart Card Reader

 Driver version 10.0.0.23 task.

- 3. Review the information in the **Description** tab.
- 4. Follow the instructions in the **Actions** field to install the driver.

The certificates that are required for smart card authentication are installed. For more information about the Remote Control - Virtual Smart Card Reader Driver Status analysis, see Determining whether smart card support is enabled (on page 123).



Note: If an error is reported when you run the Fixlet®, use the VSCCertsInstall.log file in the target installation directory for debugging purposes.

Downloading the certificates for the virtual smart card reader

You can download the certificates that are required by the device driver for the virtual smart card reader and install them manually. For example, by using Active Directory Group Policy.

You can download the certificates in multiple ways. Choose the method for downloading the certificates.

- Download the files from the Remote Control site in the BigFix® console:
 - 1. Click the Deployment node and select the Install Remote Control Virtual Smart Card Reader Driver version 10.0.0.23 and certificates task.
 - 2. Select the **Description** tab.
 - 3. Follow the instructions in the **Description** field to download the certificates.
 - 4. Save the vsc_certs_1020.zip file.
 - 5. Extract the certificate files from the .zip file.
- Extract the certificate files from the installation media:
 - 1. Access the image files. For more information about the image file, see Obtain the installation files.
 - 2. Download the BigFix_Rem_Cntrl_V10xx_Image_1.zip file, where 10xx is relevant to the version that is installed.
 - 3. Extract the certificate files from the \Windows directory of the .zip file.

When you install the certificates, you must install the HCL_America_Inc-sha256.crt file to the Trusted Publishers store. Install the TrustedRoot.crt and DigiCertCA-sha256.crt files to the Trusted Root Certificate Authorities store.

Configure single sign-on (SSO) on the server

Remote Control V9.1.3 introduced support for SAML 2.0 authentication on the Remote Control server.

You can configure Single Sign-On (SSO) in multiple ways.

- During the Remote Control server installation.
- After you install the server.

After you configure SSO and access the remote control server, you are redirected to the SAML Identity Provider logon page to log on. The remote control server UI logon page is no longer displayed. However, the admin user ID must be able to log on to the remote control server without using SSO. Type the following URL in your browser to log on with the admin user ID when SSO is enabled. https://[serverurl]/trc/altLogon.do, where [serverurl] is the URL of your remote control server.

Configuring the server for single sign-on during installation

During the installation of the Remote Control server, you can configure support for SAML V2.0 authentication.

Download the server installation file by running a Fixlet®. For more information, see Download the Remote Control server component *(on page 57)*.

- 1. Follow the installation steps in the **Installing by using the server installer** chapter in the *BigFix*® *Remote Control Installation Guide*.
- 2. During the installation, select your configuration options on the SSO configuration window.

Enable SSO

Select this option to enable Single-Sign-On (SSO). To continue with the configuration, you must get the SAML metadata XML file from the Identity Provider (IdP) and which hash algorithm they are using: SHA-1 or SHA-256.

Metadata XML file

Click **Choose** and select the SAML metadata XML file that you obtained from the IdP.

Algorithm used to sign SAML messages

Select the signature algorithm (SHA-1 or SHA-256) to use to sign messages in communications between the Identity Provider (IdP) and this Service Provider (SP) which is the BigFix® Remote Control Server.

Advanced parameters (optional)

Type in further configuration options, by adding attribute names in a space-separated list, in the following format: [keyword]="[keyword-value]". Where [keyword] is the attribute name and [keyword-value] is the attribute value.

Force regeneration of SAML data. (you must re-register with the IdP)

The first time that you enable SSO, a new default SAML certificate keystore is created. For future upgrades, you can select the regeneration option to create a new default certificate keystore. The current keystore is deleted and the new one is saved. When you select this option, you must reestablish the connection between the SP and the IdP after the server restarts.

3. Complete the installation. After you click **Install** on the **Summary** window in the installation program, the **Important** window is displayed. Take note of the URL and information on the **Important** window. After the server starts, type the URL in your browser to download the SP metadata. You must provide the metadata to the IdP to establish federation between them.

Configuring the server for single sign-on after installation

After you install the Remote Control server, you can configure it to support SAML 2.0 authentication.

You must create a keystore with a single self-signed certificate before you start the configuration. Select a **Key Size** of 2048 and select sha256 for the **Signature Algorithm**. The keystore file can be a .p12 or .jks file. Do not save the file to the server installation directory because that might conflict with the server self-signed certificate. Set a long validity period for the keystore. For more information about creating a keystore file, see Creating a self signed certificate.



Note: SSO support in Remote Control is done through the WebSphere Liberty samlWebSso20 feature. By default, the **NameID** that is returned by the Identity Provider to our service must contain an email field in the following format.

```
URI: urn:oasis:names:tc:SAML:1.1:nameid-format:emailAddress
```

You can configure a Liberty server as a SAML web browser Single-Sign-On (SSO) service provider by enabling the samlWeb-2.0 feature in Liberty.

To configure the Remote Control server, complete the following steps:

1. Create an sso.xml file in the following directory:

Windows™ operating system

```
C:\Program Files (x86)\BigFix\TRC\server\wlp\usr
\servers\trcserver
```

Linux™ operating system

```
/opt/BigFix/TRC/server/wlp/usr/servers/trcserver
```

2. Add the following content to the sso.xml file:

```
<server>
<featureManager>
<feature>samlWeb-2.0</feature>
```

[hostname:port]

Defines the host name and SSL port of your remote control server. For example, https://example.com:443/.

[samlKey.file]

Defines the path to your keystore file. For example, c:\trc \samlKey.jks.

[yourkeystorepassword]

Defines the password for your keystore file. For example, password="mypassword".

[filetype]

Defines the file type of your keystore file. For a .p12 file, set type to PKCS12. For a .jks file, set type to JKS.

The **keyStore** *id* value must match the **keyStoreRef** value in the **<samlWebSso20>** element.

You can add more configuration parameters. For more information, see SAML Web SSO 2.0 Authentication (samlWebSso20).

In a default configuration, the following values are used:

AssertionConsumerService URL

```
https://<hostname>:<sslport>/ibm/saml20/defaultSP/acs.
```

Service Provider (SP) metadata URL

```
https://<hostname>:<sslport>/ibm/saml20/defaultSP/
samlmetadata
```

Where **<hostname>** is the host name of your Remote Control server and **<sslport>** is the SSL Port value. For example, 443.

3. Edit the application.xml file in the following directory:

Windows™ operating system

```
C:\Program Files (x86)\BigFix\TRC\server\wlp\usr
\servers\trcserver
```

Linux™ operating system

```
/opt/BigFix/TRC/server/wlp/usr/servers/trcserver
```

Add the following **<application-bnd>** statement to the file.

4. Get the SAML metadata XML file from the Identity Provider (IdP).

How this file is obtained varies, depending on the IdP. Rename the file to idpMetadata.xml and copy it to the following directory on the server:

Windows™ operating system

```
C:\Program Files (x86)\BigFix\TRC\server\wlp\usr
\servers\trcserver\resources\security
```

Linux™ operating system

```
/opt/BigFix/TRC/server/wlp/usr/servers/trcserver/
resources/security
```

5. Edit the common.properties file and set **sso.enabled** to *True*.

The file is in the following directory:

Windows™ systems

```
[installdir]\wlp\usr\servers\trcserver\apps
\TRCAPP.ear\trc.war\WEB-INF\classes
```

Where [installdir] is the directory in which the Remote Control server is installed.

Linux™ systems

```
[installdir]/wlp/usr/servers/trcserver/apps/
TRCAPP.ear/trc.war/WEB-INF/classes
```

Where [installdir] is the directory in which the Remote Control server is installed.

- 6. Restart the Remote Control server.
- 7. After the server restarts, type the following URL into your browser to download the metadata for this service provider (SP) which is the BigFix® Remote Control Server:

```
https://<hostname>:<sslport>/ibm/saml20/defaultSP/samlmetadata, where <hostname> is the host name of your remote control server and <sslport> is the SSL port of the server. Provide the metadata to the SAML identity provider to establish federation between this SP and Identity Provider (IdP).
```

When you access the Remote Control server application, and you did not previously log on, you are redirected to the IdP. If you did previously log on by using the same IdP, you are automatically logged on to the Remote Control server application.



Note: After you enable SAML 2.0 authentication, if you reinstall or upgrade your server, the sso.xml file must be copied to a temporary directory before you start. Replace the sso.xml file that is installed during the upgrade with the backed-up file. Also, ensure that **sso.enabled** is set to *True* in the common.properties file.

Enable secure target registration.

To prevent unauthorized targets from registering with the Remote Control server, you can enable the secure registration feature and use tokens to authenticate the target.

After you install the server, create a registration token on the server and distribute it when you install the target. The token is used to restrict new target registrations, or restrict updates to existing target details when you reinstall a target. After the target registers, the server sends an endpoint token to the target to replace the token that was used when it registered. The target uses the endpoint token to authenticate with the server each time it contacts the server.

New Installation scenario

The following scenario covers a new installation of server and targets.

- Create a server installer task and select **Use secure registration tokens** to register targets. Ensure that HTTPS as Default for Target URL is also selected. Run the task. For more information about creating a server installer task, see Creating Remote Control server installation tasks (on page 64).
- Create a secure registration token in the server UI.
 - 1. Click Admin > Create Secure Registration Token.
 - 2. Supply the following information for the token. The default time period starts from the current date and time until 23:59 on the next day.

- Description for token. Enter a description for the token.
- Starting on. Click the calendar pull-down and select a date that the token is valid from. Enter a start time or keep the default time.
- Ending on. Click the calendar pull-down and select a date that the token is valid to. Enter an end time or keep the default time.
- 3. Click **Submit**. Before you leave the page, you must copy the registration token. Keep the token secure and confidential.
- Run the relevant target deployment task and enter the registration token.
 For more information, see Deploying the Windows target (on page 15) or Deploying the Linux target (on page 28).

Upgrade scenario

The following scenario covers an upgrade of the server and targets.

- Create a server configuration task. Do not select Use secure registration tokens to register targets. Select Migrate values from the existing properties files. Run the task. For more information about creating a server installer task, see Creating Remote Control server installation tasks (on page 64).
- Create a secure registration token in the server UI.
 - 1. Click Admin > Create Secure Registration Token.
 - 2. Supply the following information for the token. The default time period starts from the current date and time until 23:59 on the next day.

- Description for token. Enter a description for the token.
- Starting on. Click the calendar pull-down and select a date that the token is valid from. Enter a start time or keep the default time.
- Ending on. Click the calendar pull-down and select a date that the token is valid to. Enter an end time or keep the default time.
- 3. Click **Submit**. Before you leave the page, you must copy the registration token. Keep the token secure and confidential.
- To upgrade the target, run the update task that is relevant to your operating system. For more information, see Updating the Windows target (on page 46) or Updating the Linux target (on page 52).
- Run the Set Secure Registration Token for Remote Control Targets task and enter the registration token. For more information, see Distributing a secure registration token to targets (on page 135).
- Enable the secure registration feature in the server UI.
 - 1. In the server UI select Admin > Edit properties file.
 - 2. Select trc.properties from the list.
 - Set rc.enforce.secure.registration to true. Ensure that the enforce.secure.endpoint.callhome and enforce.secure.endpoint.upload properties are also set to true.
 - 4. Click Submit.
 - 5. Click **Admin > Reset Application**

Distributing a secure registration token to targets

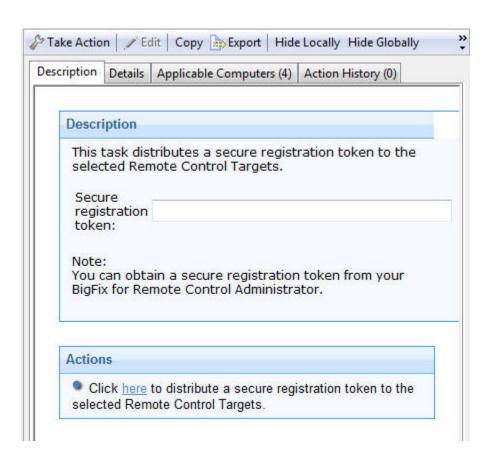
Use the **Set Secure Registration Token for Remote Control Targets** task to distribute a secure registration token to selected targets. The targets can use the token to securely register with the Remote Control server.

To run the task, you must have a valid secure registration token. For more information about creating a token, see **Creating a secure registration token** in the *BigFix® Remote Control Administrator*'s *Guide*.

For secure target registration, the feature must also be enabled in the Remote Control server. The rc.enforce.secure.registration property in the trc.properties file must be set to true. Ensure that the enforce.secure.endpoint.callhome and enforce.secure.endpoint.upload properties are also set to true. For more information about enabling secure registration on the server, see Enable secure target authentication in the server in the BigFix® Remote Control Installation Guide.

To distribute the secure registration token, complete the following steps:

- Within the Systems Lifecycle domain, expand Remote Control configuration > Remote Control.
- 2. Select **Update**.
- In the Update pane, select the Set Secure Registration Token for Remote Control Targets task.
- 4. In the **Task** pane, review the description. Enter the secure registration token. Follow the instructions in the **Actions** box to start the task.



5. In the **Take Action** pane on the **Target** tab, select the relevant option for determining which computers to distribute the secure registration token to.

The next time that the target contacts the server, it sends the secure registration token. If the secure authentication feature is enabled on the server, the server validates the token. If the token is valid, the target is registered and the server sends back an endpoint token to the target.

Chapter 6. Viewing web reports

Remote Control offers a report available in the **Web Reports** component of the application. The web report was formulated to provide log data that is gathered from the controller and target logs relevant to specific targets. The data can be used for auditing purposes and for monitoring remote control activity on specific computers in your environment.

To access the Remote Control web report, complete the following steps:

- 1. Click Tools > Launch Web Reports
- Enter your Web Reports user name and password.
 If you do not know your user name or password, check with your administrator. After you log on, the main web reports page opens in a new browser window.
- 3. Select **Systems Lifecycle** to see a list of reports that includes the Remote Control report.
 - The Remote Control Events entry is displayed in the reports list under the **Report List** menu.
- 4. Click Remote Control Events.
- 5. Enter the computer name of the target whose information you want to view and click **View Events**.

Any log data that was gathered from the controller and target logs, for the specified target is displayed in the relevant sections, showing the remote control events.

Appendix A. Frequently asked questions

- 1. The target software is installed on a target, but why is there is no menu option to start a remote control session when you right-click the computer in the BigFix® console? To start a remote control session by using this method, make sure that the following conditions are met.
 - The controller component is also installed on the system that the BigFix® console is installed on.
 - For the menu item to be visible, the Remote Control Installation and Security
 Options analysis must be active for the selected computer and reporting that
 the Remote Control target is active.
 - When the controller is deployed, only the current user who is logged on to the computer that you are deploying to has the rights to see the menu item; it is not visible to other users. The following registry key can also be created:

Key name: HKEY_CURRENT_USER\Software\BigFix\Enterprise
Console\Settings\ComputerListContextMenuExtensions\TivoliRC

With the following values:

```
ComputerApplicabilityRelevance (REG_SZ) = value of results
  (current computer, property 1 of fixlet 4 of bes site whose
  (name of it starts with "BigFix Remote Control")) = "True"

MaxComputerSetSize (REG_DWORD) = 1

MenuDisplayName (REG_SZ) = &BigFix Remote Control

ShellCommandRelevance (REG_SZ) = "%22C:\Program

Files\BigFix\Remote Control\Controller\jre\bin\javaw.exe%22

-jar %22C:\Program Files\BigFix\Remote Control\Controller

TRCConsole.jar%22 --host " & ip address of current computer as string
```

- 2. I have deployed the target software in peer-to-peer mode. I now want the target to register with my Remote Control server. How can I get it to connect to the server?
 Use the Remote Control Target wizard to create a configuration task and specify the server URL of the required server. Run the task on the selected target to reconfigure it so that it can contact the server. For more information about creating the tasks, see
 Creating Remote Control target configuration tasks (on page 83).
- 3. Where can I find more information about using Remote Control?
 Information about installing, using, and administering Remote Control can be found in the Remote Control documentation in HCL Knowledge Center.
- 4. Extra Remote Control function is available when you have the Remote Control server component installed; where can I obtain the server component from?
 - You can create a server installation task by using the **Remote Control Server Installer Wizard** to create an Remote Control server configuration. For more information about creating a server task, see Creating Remote Control server installation tasks (on page 64).

You can also install a server that points to an already installed WebSphere Application Server instance that uses an already installed DB2®, MS SQL, or Oracle database. For more information about installing the server, see the BigFix® Remote Control Installation Guide and the section that displays, Installing the server.

5. How can I determine which type of server installation would be suit my environment?

For guidelines to consider when you plan your installation, see the BigFix® Remote

Control Installation Guide.

Appendix B. Support

For more information about this product, see the following resources:

- BigFix Support Portal
- BigFix Developer
- BigFix Playlist on YouTube
- BigFix Tech Advisors channel on YouTube
- BigFix Forum

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