



Disaster Recovery System Administration Guide **for Cisco Unified Communications Manager** **Business Edition Release 7.1(2)**

This guide provides an overview of the Disaster Recovery System, describes how to use the Disaster Recovery System, and provides procedures for completing various backup-related tasks and restore-related tasks. This guide serves as a reference and procedural guide that is intended for users of Cisco Unified Communications Manager and other Cisco IP telephony applications.

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What is the Disaster Recovery System?

The Disaster Recovery System (DRS), which can be invoked from Cisco Unified Communications Manager Administration, provides full data backup and restore capabilities. The Disaster Recovery System allows you to perform regularly scheduled automatic or user-invoked data backups.

DRS restores its own settings (backup device settings and schedule settings) as part of the platform backup/restore. DRS backs up and restores drfDevice.xml and drfSchedule.xml files. When the server is restored with these files, you do not need to reconfigure DRS backup device and schedule.



Caution

Before you restore Cisco Unified Communications Manager Business Edition, ensure that the Cisco Unified Communications Manager Business Edition version that is installed on the server matches the version of the backup file that you want to restore. The Disaster Recovery System supports only matching versions of Cisco Unified Communications Manager Business Edition for restore. For example, the Disaster Recovery System does not allow a restore from version 6.1.(1).1000-1 to version 6.1(2).1000-1, or from version 6.1.(2).1000-1 to version 6.1(2).1000-2.

The Disaster Recovery System includes the following capabilities:

- A user interface for performing backup and restore tasks.
- A distributed system architecture for performing backup and restore functions.
- Scheduled backups.
- Archive backups to a physical tape drive or remote SFTP server.

The Disaster Recovery System contains two key functions, Master Agent (MA) and Local Agent (LA). The Master Agent coordinates backup and restore activity with Local Agents.



Note

In Release 7.1(2), the Disaster Recovery System uses an SSL-based communication between the Master Agent and the Local Agent for authentication and encryption of data. DRS makes use of the IPsec certificates for its Public/Private Key encryption. Be aware that if you delete the IPSEC truststore(hostname.pem) file from the Certificate Management pages, then DRS will not work as expected. If you delete the IPSEC-trust file manually, then you must ensure that you upload the IPSEC certificate to the IPSEC-trust.



Caution

Schedule backups during off-peak hours to avoid call-processing interruptions and impact to service.

Quick-Reference Tables for Backup and Restore Procedures

The following tables provide a quick reference for the backup and restore procedures.



Note

DRS backs up and restores the drfDevice.xml and drfSchedule.xml files. These backup device settings and schedule settings get restored as a part of the platform backup/restore. After the server is restored with these files, you do not need to reconfigure DRS backup device and schedule.

Backup Quick Reference

Table 1 provides a quick, high-level reference to the major steps, in chronological order, that you must perform to do a backup procedure by using the Disaster Recovery System.

Table 1 Major Steps for Performing a Backup Procedure

Action	Reference
Create backup devices on which to back up data.	“Managing Backup Devices” section on page 5
Create and edit backup schedules to back up data on a schedule.	“Creating and Editing Backup Schedules” section on page 7
Enable and disable backup schedules to back up data.	“Enabling, Disabling, and Deleting Schedules” section on page 8
Optionally, run a manual backup.	“Starting a Manual Backup” section on page 9
Check the Status of the Backup—While a backup is running, you can check the status of the current backup job.	“Checking Backup Status” section on page 9

Restore Quick Reference

Table 2 provides a quick, high-level reference to the major steps, in chronological order, that you must perform to do a restore procedure by using the Disaster Recovery System.

Table 2 Major Steps for Performing a Restore Procedure

Action	Reference
Choose Storage Location—You must first choose the storage location from which you want to restore a backup file.	“Restoring a Node” section on page 10
Choose the Backup File—From a list of available files, choose the backup file that you want to restore.	“Restoring a Node” section on page 10
Choose Features—From the list of available features, choose the features that you want to restore.	“Restoring a Node” section on page 10
Choose Nodes—Choose all nodes/servers.	“Restoring a Node” section on page 10
Check the Status of the Restore—While the restore process is running, you can check the status of the current restore job.	“Viewing the Restore Status” section on page 11

System Requirements

To back up data to a remote device on the network, you must have an SFTP server that is configured. Cisco allows you to use any SFTP server product but recommends SFTP products that have been certified with Cisco through the Cisco Technology Developer Partner program (CTDP). CTDTP partners, such as GlobalSCAPE, certify their products with specified version of Cisco Unified Communications Manager and Cisco Unity Connection. For information on which vendors have certified their products with your version of Cisco Unified Communications Manager and Cisco Unity Connection, refer to the following URL:

<http://www.cisco.com/cgi-bin/ctdp/Search.pl>

Cisco uses the following servers for internal testing. You may use one of the servers, but you must contact the vendor for support:

- Open SSH (refer to <http://sshtwindows.sourceforge.net/>)
- Cygwin (refer to <http://www.cygwin.com/>)
- Titan (refer to <http://www.titanftp.com/>)



Note Note: For issues with third-party products that have not been certified through the CTDTP process, contact the third-party vendor for support



Note

While a backup or restore is running, you cannot perform any OS Administration tasks because Disaster Recovery System blocks all OS Administration requests by locking the platform API. However, this does not block most CLI commands as only the CLI-based upgrade commands use the Platform API locking package.



Tip

Schedule backups during periods when you expect less network traffic.

How to Access the Disaster Recovery System

To access the Disaster Recovery System, choose **Disaster Recovery System** from the **Navigation** drop-down list box in the upper, right corner of the Cisco Unified Communications Manager Administration window. Log in to the Disaster Recovery System by using the same Administrator username and password that you use for Cisco Unified Communications Operating System Administration.



Note

You set the Administrator username and password during Cisco Unified Communications Manager Business Edition installation, and you can change the Administrator password or set up a new Administrator account by using the Command Line Interface (CLI). Refer to the *Command Line Interface Reference Guide for Cisco Unified Solutions* for more information.

Master Agent Duties and Activation

The system automatically activates the Master Agent (MA) on the server.

Duties That the Master Agent Performs

The Master Agent (MA) performs the following duties:

- The MA stores systemwide component registration information.
- The MA maintains a complete set of scheduled tasks in an XML file. The MA updates this file when it receives updates of schedules from the user interface. The MA sends executable tasks to the applicable Local Agents, as scheduled. (Local Agents execute immediate-backup tasks without delay.)
- You access the MA through the Disaster Recovery System user interface to perform activities such as configuring backup devices, scheduling backups by adding new backup schedules, viewing or updating an existing schedule, displaying status of executed schedules, and performing system restoration.
- The MA stores backup data on a locally attached tape drive or a remote network location.

Local Agents

The server has a Local Agent to perform backup and restore functions.

Duties That Local Agents Perform

The Local Agent runs backup and restore scripts on the server.



Note

In Release 7.1(2), the Disaster Recovery System uses an SSL-based communication between the Master Agent and the Local Agent for authentication and encryption of data. DRS makes use of the IPSec certificates for its Public/Private Key encryption. This certificate exchange gets handled internally; you do not need to make any configuration changes to accommodate this exchange.

Managing Backup Devices

Before using the Disaster Recovery System, you must configure the locations where you want the backup files to be stored. You can configure up to 10 backup devices. Perform the following steps to configure backup devices.

Procedure

- Step 1** Navigate to the Disaster Recovery System. Log in to Cisco Unified Communications Manager Administration, choose **Disaster Recovery System** from the **Navigation** menu in the upper, right corner of the Cisco Unified Communications Manager Administration window, and click **Go**.

The Disaster Recovery System Logon window displays.

- Step 2** Log in to the Disaster Recovery System by using the same Administrator username and password that you use for Cisco Unified Communications Operating System Administration.
- Step 3** Navigate to **Backup > Backup Device**. The Backup Device List window displays.
- Step 4** To configure a new backup device, click **Add New**.
- Step 5** To edit a backup device, select it in the Backup Device list. Then, click **Edit Selected**. The Backup Device window displays.
- Step 6** Enter the backup device name in the **Backup device name** field.



Note The backup device name may contain only alphanumeric characters, spaces (), dashes (-) and underscores (_). Do not use any other characters.

- Step 7** Choose one of the following backup devices and enter the appropriate field values in the Select Destination area:
 - **Tape Device**—Stores the backup file on a locally attached tape drive. Choose the appropriate tape device from the list. Note the following considerations:
 - You cannot use more than one tape for a single backup. If you have more data than will fit on a tape, either you must store backups on a network directory, or you must back up components on one tape and back up mailbox stores on one or more additional tapes.
 - You cannot store more than one backup on a tape; each backup overwrites the data from the previous backup, so you only have the data from the most recent backup. If you want to create more than one backup for a server (components in one backup, mailbox stores in another backup, for example), you must use separate tapes. Otherwise, you will only have the portion of the data that you backed up last.
 - **Network Directory**—Stores the backup file on a network drive that is accessed through an SFTP connection. Enter the following required information:
 - **Server name:** Name or IP address of the network server
 - **Path name:** Path name for the directory where you want to store the backup file
 - **User name:** Valid username for an account on the remote system
 - **Password:** Valid password for the account on the remote system
 - **Number of backups to store on Network Directory:** The number of backups to store on this network directory.



Note You must have access to an SFTP server to configure a network storage location. The SFTP path must exist prior to the backup. The account that is used to access the SFTP server must have write permission for the selected path.

- Step 8** To update these settings, click **Save**.



Note After you click the **Save** button, the DRS Master Agent validates the selected backup device. If the user name, password, server name, or directory path is invalid, the save will fail.

- Step 9** To delete a backup device, select it in the Backup Device list. Then, click **Delete Selected**.



Note You cannot delete a backup device that is configured as the backup device in a backup schedule.

Creating and Editing Backup Schedules

You can create up to 10 backup schedules. Each backup schedule has its own set of properties, including a schedule for automatic backups, the set of features to back up, and a storage location.



Note DRS Scheduler does not automatically adjust after Daylight Saving Time (DST) changes—Neither the change to DST, nor the change back to Standard time.

For example, assume that today is the Friday before DST time takes effect. The DST time change takes place at 2 a.m. Sunday, when the time gets advanced from 2 to 3 a.m. If you schedule a backup to occur at 10 a.m. on that Sunday, the upgrade will actually occur at 11 a.m. Sunday.

Adjust the backup schedule time after every DST change by updating the scheduled start time as described in the following procedure.

Perform the following steps to manage backup schedules:

Procedure

Step 1 Navigate to the Disaster Recovery System. Log in to Cisco Unified Communications Manager Administration, choose **Disaster Recovery System** from the **Navigation** menu in the upper, right corner of the Cisco Unified Communications Manager Administration window, and click **Go**.

The Disaster Recovery System Logon window displays.

Step 2 Log in to the Disaster Recovery System by using the same Administrator username and password that you use for Cisco Unified Communications Operating System Administration.

Step 3 Navigate to **Backup > Scheduler**.

The Schedule List window displays.

Step 4 Do one of the following steps to add a new schedule or edit an existing schedule

- a. To create a new schedule, click **Add New**.
- b. To configure an existing schedule, click its name in the **Schedule List** column.

The scheduler window displays.

Step 5 Enter a schedule name in the **Schedule Name** field.



Note You cannot change the name of the default schedule.

Step 6 Select the backup device in the **Select Backup Device** area.

Step 7 Select the features to back up in the **Select Features** area. You must choose at least one feature.

You must back up Cisco Unified Communications Manager and the Cisco Unity Connection database and voice names. Be aware that backing up Cisco Unity Connection messages is optional.

- Step 8** Choose the date and time when you want the backup to begin in the **Start Backup at** area. Note the following:
- Schedule backups during off-peak hours to avoid affecting system performance.
 - Do not schedule a backup to run while the Update Database Statistics task is running. By default, this task runs daily at 3:30 am.
- Step 9** Choose the frequency at which you want the backup to occur in the **Frequency** area: Once, Daily, Weekly, or Monthly. If you choose Weekly, you can also choose the days of the week when the backup will occur.



Tip To set the backup frequency to Weekly, occurring Tuesday through Saturday, click **Set Default**.

- Step 10** To update these settings, click **Save**.
- Step 11** To enable the schedule, click **Enable Schedule**.
The next backup occurs automatically at the time that you set.
- Step 12** To disable the schedule, click **Disable Schedule**.

Enabling, Disabling, and Deleting Schedules

Procedure

- Step 1** Navigate to the Disaster Recovery System. Log in to Cisco Unified Communications Manager Administration, choose **Disaster Recovery System** from the **Navigation** menu in the upper, right corner of the Cisco Unified Communications Manager Administration window, and click **Go**.
The Disaster Recovery System Logon window displays.
- Step 2** Log in to the Disaster Recovery System by using the same Administrator username and password that you use for Cisco Unified Communications Operating System Administration.
- Step 3** Navigate to **Backup > Scheduler**.
The Schedule List window displays.
- Step 4** Check the check boxes next to the schedules that you want to modify.
- To select all schedules, click **Select All**.
 - To clear all check boxes, click **Clear All**.
- Step 5** To enable the selected schedules, click **Enable Selected Schedules**.
- Step 6** To disable the selected schedules, click **Disable Selected Schedules**.
- Step 7** To delete the selected schedules, click **Delete Selected**.

Starting a Manual Backup

Follow this procedure to start a manual backup.

Procedure

-
- Step 1** Navigate to the Disaster Recovery System. Log in to Cisco Unified Communications Manager Administration, choose **Disaster Recovery System** from the **Navigation** menu in the upper, right corner of the Cisco Unified Communications Manager Administration window, and click **Go**.
- The Disaster Recovery System Logon window displays.
- Step 2** Log in to the Disaster Recovery System by using the same Administrator username and password that you use for Cisco Unified Communications Operating System Administration.
- Step 3** Navigate to **Backup > Manual Backup**. The Manual Backup window displays.
- Step 4** Select a backup device in the **Select Backup Device** area.
- Step 5** Select the features to back up in the **Select Features** area.
- You must back up Cisco Unified Communications Manager and the Cisco Unity Connection database and voice names. Be aware that backing up Cisco Unity Connection messages is optional.
- Step 6** To start the manual backup, click **Start Backup**.
-

Checking Backup Status

You can check the status of the current backup job and cancel the current backup job. To view the backup history, see the [“Viewing the Backup and Restore History”](#) section on page 12.



Caution

Be aware that if the backup to the remote server is not completed within 20 hours, the backup session will time out. You will then need to begin a fresh backup.

Checking the Status of the Current Backup Job

Perform the following steps to check the status of the current backup job.

Procedure

-
- Step 1** Navigate to the Disaster Recovery System. Log in to Cisco Unified Communications Manager Administration, choose **Disaster Recovery System** from the **Navigation** menu in the upper, right corner of the Cisco Unified Communications Manager Administration window, and click **Go**.
- The Disaster Recovery System Logon window displays.
- Step 2** Log in to the Disaster Recovery System by using the same Administrator username and password that you use for Cisco Unified Communications Operating System Administration.
- Step 3** Navigate to **Backup > Current Status**. The Backup Status window displays.
- Step 4** To view the backup log file, click the log filename link.

Step 5 To cancel the current backup, click **Cancel Backup**.



Note The backup cancels after the current component completes its backup operation.

Restoring a Node



Caution

Before you restore Cisco Unified Communications Manager Business Edition, ensure that the Cisco Unified Communications Manager Business Edition version that is installed on the server matches the version of the backup file that you want to restore. The Disaster Recovery System supports only matching versions of Cisco Unified Communications Manager Business Edition for restore. For example, the Disaster Recovery System does not allow a restore from version 7.0(1).1000-1 to version 7.1(2).1000-1, or from version 7.1(2).1000-1 to version 7.1(2).1000-2. (The last parts of the version number change when you install a service release or an engineering special.) In essence, the product version needs to match, end-to-end, for the Disaster Recovery System to run a successful Cisco Unified Communications Manager Business Edition database restore. Disaster Recovery System adheres to strict version checking and allows restore only between matching versions of Cisco Unified Communications Manager Business Edition.

The Restore Wizard walks you through the steps that are required to restore a backup file. To perform a restore, use the procedure that follows.

Procedure

- Step 1** If you reinstalled software on the server or installed software on a new server, do the following steps, as applicable:
- a. Confirm that the IP address and host name of the server match the IP address and host name when the server was backed up. Otherwise, the restore will fail.
 - b. Reinstall the licenses that were originally installed on the server or, if you replaced the server with a server that has a different MAC address, install replacement licenses that include the new MAC address.
 - c. If any Connection languages were previously installed, reinstall the same languages.
- Step 2** In Cisco Unity Connection Administration, in the Navigation list, click **Disaster Recovery System**, and click **Go**.
- The Disaster Recovery System Logon window displays.
- Step 3** Log in to the Disaster Recovery System by using the same Administrator username and password that you use for Cisco Unified Communications Operating System Administration.
- Step 4** Navigate to **Restore > Restore Wizard**. The Restore Wizard Step 1 window displays.
- Step 5** Choose the backup device from which to restore in the **Select Backup Device** area. Then, click **Next**.
- The Restore Wizard Step 2 window displays.
- Step 6** Choose the backup file that you want to restore.



Note The backup filename indicates the date and time that the system created the backup file.

Step 7 Click **Next**. The Restore Wizard Step 3 window displays.

Step 8 Choose the features that you want to restore.



Note Only the features that were backed up to the file that you chose display.

Step 9 Click **Next**. The Restore Wizard Step 4 window displays.

Step 10 When you are prompted to choose the node to restore, choose the same features that you selected in [Step 8](#), and click **Next**.



Caution Existing data for the selected features is overwritten.

Step 11 To start restoring the data, click **Restore**.

Step 12 To view the status of the restore, see the [“Viewing the Restore Status”](#) section on page 11.

Step 13 Restart the server. For more information on restarting, see the *Cisco Unified Communications Operating System Administration Guide*.

Step 14 During off-peak hours, resynchronize message-waiting indicators for each phone system:

- a. In Cisco Unity Connection Administration, expand Telephony Integrations, and click Phone System.
 - b. Click the name of the first phone system.
 - c. For Synchronize All MWIs on This Phone System, click Run.
 - d. Repeat Step a. through Step c. for the remaining phone systems.
-

Viewing the Restore Status

To check the status of the current restore job, perform the following steps:

Procedure

Step 1 Navigate to the Disaster Recovery System. Log in to Cisco Unified Communications Manager Administration, choose **Disaster Recovery System** from the **Navigation** menu in the upper, right corner of the Cisco Unified Communications Manager Administration window, and click **Go**.

The Disaster Recovery System Logon window displays.

Step 2 Log in to the Disaster Recovery System by using the same Administrator username and password that you use for Cisco Unified Communications Operating System Administration.

Step 3 Navigate to **Restore >Status**. The Restore Status window displays.

The Status column in the Restore Status window shows the status of the restoration in progress, including the percentage of completion of the restore procedure.

- Step 4** To view the restore log file, click the log filename link.
-

Viewing the Backup and Restore History

Using the following procedures, you can see the last 20 backup and restore jobs:

- [Backup History](#)
- [Restore History](#)

Backup History

Perform the following steps to view the backup history.

Procedure

- Step 1** Navigate to the Disaster Recovery System. Log in to Cisco Unified Communications Manager Administration, choose **Disaster Recovery System** from the **Navigation** menu in the upper, right corner of the Cisco Unified Communications Manager Administration window, and click **Go**.
- The Disaster Recovery System Logon window displays.
- Step 2** Log in to the Disaster Recovery System by using the same Administrator username and password that you use for Cisco Unified Communications Operating System Administration.
- Step 3** Navigate to **Backup > History**. The Backup History window displays.
- Step 4** From the Backup History window, you can view the backups that you have performed, including filename, backup device, completion date, result, and features that are backed up.



Note The Backup History window displays only the last 20 backup jobs.

Restore History

Perform the following steps to view the restore history.

Procedure

- Step 1** Navigate to the Disaster Recovery System. Log in to Cisco Unified Communications Manager Administration, choose **Disaster Recovery System** from the **Navigation** menu in the upper, right corner of the Cisco Unified Communications Manager Administration window, and click **Go**.
- The Disaster Recovery System Logon window displays.
- Step 2** Log in to the Disaster Recovery System by using the same Administrator username and password that you use for Cisco Unified Communications Operating System Administration.
- Step 3** Navigate to **Restore > History**. The Restore History window displays.

- Step 4** From the Restore History window, you can view the restores that you have performed, including filename, backup device, completion date, result, and the features that were restored.



Note The Restore History window displays only the last 20 restore jobs.

Trace Files

In this release of the Disaster Recovery System, trace files for the Master Agent, the GUI, and each Local Agent get written to the following locations:

- For the Master Agent, find the trace file at *platform/drf/trace/drfMA0**
- For each Local Agent, find the trace file at *platform/drf/trace/drfLA0**
- For the GUI, find the trace file at *platform/drf/trace/drfConfLib0**

You can view trace files by using the command line interface. See the *Command Line Interface Reference Guide for Cisco Unified Solutions* for more information.

Command Line Interface

The Disaster Recovery System also provides command-line access to a subset of backup and restore functions, as shown in [Table 3](#). For more information on these commands and on using the command line interface, see the *Command Line Interface Reference Guide for Cisco Unified Solutions*.

Table 3 *Disaster Recovery System Command Line Interface*

Command	Description
utils disaster_recovery backup	Starts a manual backup by using the features that are configured in the Disaster Recovery System interface
utils disaster_recovery restore	Starts a restore and requires parameters for backup location, filename, features, and nodes to restore
utils disaster_recovery status	Displays the status of ongoing backup or restore job
utils disaster_recovery show_backupfiles	Displays existing backup files
utils disaster_recovery cancel_backup	Cancels an ongoing backup job
utils disaster_recovery show_registration	Displays the currently configured registration
utils disaster_recovery show_tapeid	Displays the tape identification information

Error Messages

The Disaster Recovery System (DRS) issues alarms for various errors that could occur during a backup or restore procedure. [Table 4](#) provides a list of Cisco DRS alarms.

Table 4 *Disaster Recovery System Alarms*

Alarm Name	Description	Explanation
CiscoDRFBackupDeviceError	DRF backup process has problems accessing device.	DRS backup process encountered errors while it was accessing device.
CiscoDRFBackupFailure	Cisco DRF Backup process failed.	DRS backup process encountered errors.
CiscoDRFBackupInProgress	New backup cannot start while another backup is still running	DRS cannot start new backup while another backup is still running.
CiscoDRFInternalProcessFailure	DRF internal process encountered an error.	DRS internal process encountered an error.
CiscoDRFLA2MAFailure	DRF Local Agent cannot connect to Master Agent.	DRS Local Agent cannot connect to Master Agent.
CiscoDRFLocalAgentStartFailure	DRF Local Agent does not start.	DRS Local Agent might be down.
CiscoDRFMA2LAFailure	DRF Master Agent does not connect to Local Agent.	DRS Master Agent cannot connect to Local Agent.
CiscoDRFMABackupComponent Failure	DRF cannot back up at least one component.	DRS requested a component to back up its data; however, an error occurred during the backup process, and the component did not get backed up.
CiscoDRFMABackupNodeDisconnect	The node that is being backed up disconnected from the Master Agent prior to being fully backed up.	While the DRS Master Agent was running a backup operation on a Cisco Unified Communications Manager node, the node disconnected before the backup operation completed.
CiscoDRFMARestoreComponent Failure	DRF cannot restore at least one component.	DRS requested a component to restore its data; however, an error occurred during the restore process, and the component did not get restored.
CiscoDRFMARestoreNodeDisconnect	The node that is being restored disconnected from the Master Agent prior to being fully restored.	While the DRS Master Agent was running a restore operation on a Cisco Unified Communications Manager node, the node disconnected before the restore operation completed.
CiscoDRFMasterAgentStartFailure	DRF Master Agent did not start.	DRS Master Agent might be down.
CiscoDRFNoRegisteredComponent	No registered components are available, so backup failed.	DRS backup failed because no registered components are available.
CiscoDRFNoRegisteredFeature	No feature got selected for backup.	No feature got selected for backup.
CiscoDRFRestoreDeviceError	DRF restore process has problems accessing device.	DRS restore process cannot read from device.
CiscoDRFRestoreFailure	DRF restore process failed.	DRS restore process encountered errors.
CiscoDRFSftpFailure	DRF SFTP operation has errors.	Errors exist in DRS SFTP operation.

Table 4 **Disaster Recovery System Alarms (continued)**

Alarm Name	Description	Explanation
CiscoDRFSecurityViolation	DRF system detected a malicious pattern that could result in a security violation.	The DRF Network Message contains a malicious pattern that could result in a security violation like code injection or directory traversal. DRF Network Message has been blocked.
CiscoDRFTruststoreMissing	The IPsec truststore is missing on the node.	The IPsec truststore is missing on the node. DRF Local Agent cannot connect to Master Agent.
CiscoDRFUnknownClient	DRF Master Agent on the Pub received a Client connection request from an unknown server outside the cluster. The request has been rejected.	The DRF Master Agent on the Pub received a Client connection request from an unknown server outside the cluster. The request has been rejected.

Related Documentation

Refer to the Cisco Unified Communications Manager Business Edition Documentation Guide to learn about the documentation for Cisco Unified Communications Manager Business Edition.

Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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Cisco Product Security Overview

This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately.

Further information regarding U.S. export regulations may be found at http://www.access.gpo.gov/bis/ear/ear_data.html.

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