

# **Cisco IPICS 4.5 Command Line Interface Reference Guide**

The Cisco IPCIS Command Line Interface (CLI) provides commands for updating Cisco IPICS via the bulk addition and removal of channels, users, and links to Cisco Video Surveillance Operations Manager (VSOM) video feeds.

This document describes each CLI command in detail.

### Contents

- Using the CLI Commands, page 1
- Bulk Channels Import Command, page 2
- Bulk Channels Remove Command, page 8
- Bulk Users Import Command, page 9
- Bulk Users Remove Command, page 20
- VSOM Import Command, page 22
- VSOM Remove Command, page 25

# **Using the CLI Commands**

To use a CLI command, access the Cisco IPICS server via a secure shell (SSH) client and log in as the ipicsadmin user. Then, run the command in the home directory.

In a Cisco IPICS high-availability (HA) deployment, you can run a CLI command on the primary or on the secondary server. The Cisco IPICS updates that result from the command synchronize with the other server automatically. If one of the HA servers is offline when you run a command, the synchronization occurs when the offline server comes back on line. To ensure that synchronization occurs properly, do not run a CLI command when Cisco IPICS is in a split brain scenario. For related information about HA, see *Cisco IPICS Server Administration Guide*.



# **Bulk Channels Import Command**

The CLI Bulk Channels Import command, ipics\_import\_channels, lets you add up to 5,000 channels to Cisco IPICS in a single transaction. This command imports an input file, which is a file in Comma-Separated Value (CSV) format that defines the channels to add.

When you execute the Bulk Channels Import command, the system validates each record in the input file. Records that pass the validation process are imported. Records that do not pass the validation process are rejected and saved in a Rejected file.

In addition, records that define channels that already exist in Cisco IPICS are rejected and information about these channels is not affected in Cisco IPICS.

For general information about running a CLI command, see the "Using the CLI Commands" section on page 1.

**Command Syntax** ipics\_import\_channels{--help |--csv CSV\_file |--sample sample\_file}

| help        | Displays help text for this command.   |  |  |
|-------------|--|--|--|
| CSV         | Imports the specified input file, which is a CSV file that defines the channels to be added to Cisco IPICS.                        |  |  |
| CSV_file    | Name of the CSV input file that defines the channels to add.   |  |  |
|             | The file must adhere to the guidelines that the "Input File" section on page 2 describes.  |  |  |
|             | Include the path if the file is not in the current folder.   |  |  |
| sample      | Creates a CSV file that includes the headings of the fields that an input file requires.   |  |  |
|             | You can use this sample file as a basis for the input file as described in the "Input File" section on page 2.                     |  |  |
| sample_file | Name of the sample file.   |  |  |
|             | By default, the system saves the sample file in the current folder. To save it in another folder, include the path to that folder. |  |  |

#### **Input File**

An input file that you use with the Bulk Channels Import command includes one record for each channel that is to be added to Cisco IPICS.

Cisco recommends that you use Microsoft Excel to create an import file, then use the Save As command in Excel to save the file as a **CSV** (**Comma delimited**) type.

 $\mathcal{P}$ Tip

Run the Bulk Channels Import command with the **--sample** option to create a sample file that you can open with Microsoft Excel and use to create an input file.

An input file must adhere to these guidelines:

• The file must be comma delimited.

- The file can contain up to 5,000 records. If a file contains more than 5,000 records, the Bulk Channels Import command rejects the file.
- Lines preceded with a semicolon (;) are comment lines and are ignored by the import process.
- The pipe character (I) cannot be used in any line in the file.
- Each record must include each field that Table 1 describes. The fields must be in the order shown. In this table, the "Required" column indicates whether a field must contain data. Fields that are not required can be blank.

For more detailed information about the channel configuration options, see the "Viewing and Editing Channel Details" section in *Cisco IPICS Server Administration Guide*.

| Field Name              | Required | Description   |
|-------------------------|----------|---|
| CHANNEL NAME            | Yes      | Full name of the channel.   |
|                         |          | This value is case insensitive. The system converts each character to lower case. |
| SHORT NAME              | Yes      | Short name of the channel that appears in the Cisco IPICS Dispatch Console.       |
|                         |          | This value is case insensitive. The system converts each character to lower case. |
|                         |          | The short name can contain up to 5 characters.                                    |
| DESCRIPTION             | No       | Description of this channel.  |
| SECURE                  | No       | Designates whether the channel is secure.   |
|                         |          | Valid values are:   |
|                         |          | • <b>T</b> —True (channel is secure)  |
|                         |          | • <b>F</b> —False (channel is not secure)   |
|                         |          | The default value is <b>F</b> .   |
| ALLOW USE IN VTG?       | No       | Designates whether the channel can be used in a VTG.                              |
|                         |          | Valid values are:   |
|                         |          | • <b>T</b> —True (channel can be used in a VTG)                                   |
|                         |          | • <b>F</b> —False (channel cannot be used in a VTG)                               |
|                         |          | The default value is <b>T</b> .   |
| ALLOW<br>ASSOCIATION TO | No       | Designates whether the channel can be associated with a user.                     |
| USERS?                  |          | Valid values are:   |
|                         |          | • <b>T</b> —True (channel can be associated with a user)                          |
|                         |          | • <b>F</b> —False (channel cannot be associated with a user)                      |
|                         |          | The default value is <b>T</b> .   |
| OPS VIEW NAME           | No       | Name of an existing opsview to which the channel will belong.                     |
|                         |          | The default value is <b>SYSTEM</b> .  |

 Table 1
 CSV File Format for Bulk Channels Import

| Field Name               | Required | Description   |
|--------------------------|----------|---|
| LOCATION                 | No       | Name of an existing location to be associated with the channel.   |
|                          |          | The default value is ALL.   |
| MULTI-CAST IP<br>ADDRESS | Yes      | Unused multicast IP address in the format 239. <i>x</i> . <i>x</i> . <i>x</i> to be used for the media connection assignment for this channel. The last octet must be an even number. |
|                          |          | If this multicast address does not exist, the system creates it.  |
| PORT NUMBER              | Yes      | Port number of the multicast address.   |
|                          |          | Valid values are integers 21000 through 65534.  |
| CODEC                    | Yes      | Codec to be used by the channel.  |
|                          |          | Valid values are:   |
|                          |          | • G.711   |
|                          |          | • G.729   |
| IDC RX MUTE              | No       | Designates how the receive mute functionality is<br>configured on the Cisco IPICS Dispatch Console for this<br>channel.   |
|                          |          | Valid values are:   |
|                          |          | • <b>CHANNEL</b> —When PTT is engaged for this channel, incoming audio is muted for this channel only   |
|                          |          | • ALL—When PTT is engaged for this channel, incoming audio is muted for all resources   |
|                          |          | • <b>NONE</b> —When PTT is engaged for this channel, this channel is not muted when it receives audio   |
|                          |          | The default value is CHANNEL.   |
| IDC ENABLE VAD           | No       | Designates whether VAD is used by the Cisco IPICS<br>Dispatch Console when communicating with this channel  |
|                          |          | Valid values are:   |
|                          |          | • <b>T</b> —True (enable VAD)   |
|                          |          | • <b>F</b> —False (do not enable VAD)   |
|                          |          | The default value is <b>F</b> .   |
| IDC ALLOW LATCH          | No       | Designates whether a Cisco IPICS Dispatch Console user can use the latch functionality for this channel.  |
|                          |          | Valid values are:   |
|                          |          | • <b>T</b> —True (allow latch)  |
|                          |          | • <b>F</b> —False (do not allow latch)  |
|                          |          | The default value is <b>F</b> .   |

| Table 1 | CSV File Format for Bulk Channels Import (continued) |
|---------|--|
|         |  |

| Field Name            | Required | Description   |
|-----------------------|----------|---|
| IDC LISTEN ONLY       | No       | Designates whether listen-only is enabled for this channel.<br>When listen-only is enabled, a Cisco IPICS Dispatch<br>Console user can hear but cannot talk on the channel. |
|                       |          | Valid values are:   |
|                       |          | • <b>T</b> —True (enable listen only)   |
|                       |          | • <b>F</b> —False (do not enable listen only)   |
|                       |          | The default value is <b>F</b> .   |
| IDC CHANNEL<br>COLOR  | No       | Designates the color tag that is used for the display of the channel in the Cisco IPICS Dispatch Console.   |
|                       |          | Valid values are:   |
|                       |          | NOT COLORED   |
|                       |          | • BLUE  |
|                       |          | • GREY  |
|                       |          | • GREEN   |
|                       |          | • PINK  |
|                       |          | • PURPLE  |
|                       |          | • RED   |
|                       |          | • YELLOW  |
|                       |          | The default value is <b>NOT COLORED</b> .   |
| IDC CHANNEL<br>REGION | No       | Region in which the channel appears in the Cisco IPICS Dispatch Console.  |
|                       |          | Valid values are integers 1 through 6.  |
|                       |          | The default value is <b>6</b> .   |

## Table 1 CSV File Format for Bulk Channels Import (continued)

### **Import Summary**

When the bulk channels import process completes, the system displays a summary of the import transaction. Example 1 shows a sample summary.

## Example 1 Bulk Channels Import Summary

SSUMMARY

| Input filename                         | :  | upload_source_csv/bulk_upload_perm_channels.csv |
|--|----|---|
| # records in file                      | -: | 60  |
| # comment records skipped              | :  | 24  |
| # data records                         | :  | 36  |
| # channel name or shortname too long   | :  | 1   |
| # duplicate channel names in file      | :  | 0   |
| # duplicate channel shortnames in file | :  | 0   |
| # duplicate media mcast in file        | :  | 0   |
| # mcast assignment already in use      | :  | 0   |
| <pre># channel already in-use</pre>    | :  | 0   |
| # channel shortname already in use     | :  | 0   |

| #  | missing media connection attributes     | :   | 0  |
|----|---|-----|--|
| #  | duplicate media connection assignment   | :   | 0  |
| #  | duplicate media connection in file      | :   | 0  |
| #  | invalid media connection location       | :   | 0  |
| #  | invalid media connection multicast IP   | :   | 1  |
| #  | invalid media connection port           | :   | 20   |
| #  | invalid media connection CODEC          | :   | 1  |
| #  | invalid opsview                         | :   | 1  |
| #  | invalid region                          | :   | 0  |
| #  | invalid color                           | :   | 0  |
| #  | invalid IDC MUTE RX                     | :   | 1  |
| #  | invalid channel information values      | :   | 8  |
| #  | Available LMR ports exceeded            | :   | 0  |
| #  | records to be imported                  | :   | 3  |
| #  | records imported                        | :   | 3  |
|    |   | -   |  |
| Re | esults                                  |     |  |
|    |   | -   |  |
| UI | NSUCCESSFUL - See ipics_import_channels | з.  | ipicsadmin.rejected.txt for records rejected |
|    | - See ipics_import_channels             | 5.3 | ipicsadmin.accepted.txt for records accepted |

If exceptions occur during the import process, the summary includes a description of each exception. These descriptions can include the following:

```
# Available LMR ports exceeded
# channel already in-use
# channel name or shortname too long
                                       :
# channel shortname already in use
                                       :
# duplicate channel names in file
# duplicate channel shortnames in file :
# duplicate media assignment
# duplicate media assignment in file
# duplicate media mcast in file
# invalid channel information values
# invalid color
# invalid IDC MUTE RX
# invalid media CODEC
# invalid media location
# invalid media mcast address
# invalid media mcast port
# invalid opsview
# invalid region
# mcast assignment already in use
                                       :
# missing media assignment attributes :
```

#### **Output Files**

The Bulk Channels Import command generates one or both of these output files each time it executes. Each file is stored in the folder from which you execute the command.

- Accepted file—Named **ipics\_import\_channels.ipicsadmin.accepted.txt**. This file includes each record that was imported into Cisco IPICS.
- Rejected file—Named ipics\_import\_channels.ipicsadmin.rejected.txt. This file includes each
  record that was rejected by the import process.

Each output file is in Pipe-Separated Value (PSV) format and can be opened in Microsoft Excel by specifying the pipe character (I) as the delimiter when you open the file. These files show the records in the same format as in the input file, with the following fields added to the beginning of each record:

- REASON—In the Accepted file, shows "RECORD IMPORTED." In the Rejected file, shows the reason that a record was rejected.
- REF #—Internal reference number.

Importing Rejected<br/>RecordsIf the Bulk Channels Import command generates a Rejected file, you can perform the following<br/>procedure to import the rejected records:

| Procedure  |  |  |
|--|--|--|
| Use Microsoft Excel to open the <b>ipics_import_channels.ipicsadmin.rejected.txt</b> file. |  |  |
| Make sure to specify the pipe character as the delimiter when you open the file.           |  |  |
| Correct the issues that are reported in the REASON field for each record.                  |  |  |
| Delete the REASON and the REF # columns from the spreadsheet.                              |  |  |
| Use the Save As command in Excel to save the file as a CSV (Comma delimited) type.         |  |  |
| Use the Bulk Channels Import command to import this CSV file.                              |  |  |
|  |  |  |

# **Bulk Channels Remove Command**

The CLI Bulk Channels Remove command, ipics\_remove\_channels, lets you remove from Cisco IPICS a designated channel or channels that are defined in either of these input files:

- A CSV file, including a CSV file that you used with a previous execution of the Bulk Channels Import Command
- An Accepted file that was generated by a previous execution of the Bulk Channels Import command

The Bulk Channels Remove command also lets you resolve channel data inconsistencies that occur due to an interruption of the bulk channels import process.

By using the most recently generated Accepted file as the input file when you run this command, you can conveniently reverse the last bulk channels import procedure that was performed.

The Bulk Channels Remove command immediately removes each designated channel, regardless of the current state or association of the channel.

For general information about running a CLI command, see the "Using the CLI Commands" section on page 1.

#### **Command Syntax** ipics\_remove\_channels{--channel channel\_name |--csv CSV\_file |--pipe PSV\_file |--repair}

| Syntax Description | channel      | Removes one designated channel.   |  |  |  |
|--------------------|--------------|---|--|--|--|
|                    | channel_name | Name of the channel to remove.  |  |  |  |
|                    | csv          | Removes the channels that are defined in the designated CSV input file.   |  |  |  |
|                    | CSV_file     | Name of the CSV file that defines the channels to remove.   |  |  |  |
|                    |              | The file must adhere to the guidelines that the "Input File" section on page 2 describes.   |  |  |  |
|                    |              | Include the path if the file is not in the current folder.  |  |  |  |
|                    | pipe         | Removes the channels that are defined in the designated PSV input file.   |  |  |  |
|                    | PSV_file     | Name of an Accepted file that was generated by the Bulk Channels Import<br>command. See the "Output Files" section on page 6 for more information<br>about this file. |  |  |  |
|                    |              | Include the path if the file is not in the current folder.  |  |  |  |
|                    | repair       | Resolves channel data inconsistencies that occur due to an interruption of the the import process.  |  |  |  |

#### **Remove Summary**

When the channels remove process completes, the system displays a summary of the operation. The remove summary shows the following information, as applicable:

- Names of channels that were not removed and the reasons that they were not removed
- Names of channels that were removed

# **Bulk Users Import Command**

The CLI Bulk Users Import command, ipics\_import\_users, lets you add or update information about up to 100,000 users to Cisco IPICS in a single transaction. This command can import an input file, which is a file in Comma-Separated Value (CSV) format that defines the users to add, or a file in LDAP Data Interchange Format (LDIF) that defines the users to add or update.

This command also lets you perform a direct LDAP import operation, which adds users directly from an LDAP server. And you can activate or deactivate a recurring LDAP import process that automatically performs a direct LDAP import operation at regular intervals.

The following guidelines apply to this command:

- When you execute the Bulk Users Import command, the system validates each record in the input file. Records that pass the validation process are imported. Records that do not pass the validation process are rejected and saved in a Rejected file.
- Importing a CSV file configures in Cisco IPICS a wide variety of information for each user who is added. Importing an LDIF file or using the recurring LDAP import process configures in Cisco IPICS only the following items for each user who is added:
  - Login ID—Identified by the LDAP column name identifier
  - First name—Identified by the LDAP column name givenName
  - Last name—Identified by the LDAP column name sn
- Before you can import an LDIF file, the Use LDAP Authentication option in the Cisco IPICS Administration Console must be enabled for the ops view to which the imported users will belong. For more information, see the "Adding Ops Views" section in *Cisco IPICS Server Administration Guide*.
- The direct LADP import and recurring LDAP import operations support non-SSL encrypted LDAP authentication only. If your LDAP server supports an SSL encrypted port only, use the option for importing an LDIF file with the Bulk Users Import command.
- The LDAP import configuration options controls several aspects of the direct LDAP import and the recurring LDAP import operations. You can view and update these options as described in the "Configuring LDAP Users Import Options" section on page 18.

For general information about running a CLI command, see the "Using the CLI Commands" section on page 1.

 Command Syntax
 ipics\_import\_users{--help |--set\_max\_users |--csv CSV\_file |

 --ldif LDIF\_file --login\_identifier identifier --opsview name |--ldapimport |

 --ldapimport\_on |--ldapimport\_off |--ldapimport\_config |--sample sample\_file}

| Syntax Description - | help | Displays help text for this command. |
|----------------------|------|--------------------------------------|
|----------------------|------|--------------------------------------|

| set_max_users    | Sets the maximum number of users that can be imported at one time by the<br>Bulk Users Import command. If an operation attempts to import more<br>records than this option allows, the operation aborts and no users are<br>imported.   |  |
|------------------|---|--|
|                  | When you execute the Bulk Users Import command with this option, the system displays the value that is configured currently and prompts you for a new value. To set a new value, enter the value, press the <b>Enter</b> key, then type <b>y</b> and press the <b>Enter</b> key again to confirm. |  |
|                  | Valid values are integers 1 through 100000. The default value is 5000.  |  |
| CSV              | Imports the specified input file, which is a CSV file that defines the users to be added to Cisco IPICS.  |  |
| CSV_file         | Name of the CSV input file that defines the users to add.   |  |
|                  | The file must adhere to the guidelines that the "CSV Input File" section on page 11 section describes. If this file includes records that define users who already exist in Cisco IPICS, those records are rejected and information about those users is not affected in Cisco IPICS.             |  |
|                  | Include the path if the file is not in the current folder.  |  |
| ldif             | Imports the specified input file, which is an LDIF file that defines the users to be added to Cisco IPICS.  |  |
|                  | The LDIF file contains user information that has been exported from the LDAP server.  |  |
| LDIF_file        | Name of the LDIF input file that defines the users to add or update.  |  |
|                  | If the file includes existing Cisco IPICS users, they are handled as follows:   |  |
|                  | • Users who do not use LDAP for authentication are not affected by the import process   |  |
|                  | • Users who use LDAP for authentication have their first name and last name updated in Cisco IPICS with the information from the LDAP server  |  |
|                  | • Users who use LDAP for authentication but who are not configured in the LDAP server and who do not have the Cisco IPICS All or System Administrator role are removed from Cisco IPICS if they belong to the ops view that is designated with the <b>opsview</b> option                          |  |
|                  | Include the path if the file is not in the current folder.  |  |
| login_identifier | Indicates that the following value is the name of the LDAP column that identifies the login IDs of users.   |  |
| identifier       | Name of the LDAP column that identifies the login IDs of users.   |  |
| opsview          | Indicates that the following value is the name of the ops view to which the users you are importing will belong.  |  |
| name             | Name of the ops view to which the users you import will belong.   |  |
|                  | The ops view must already exist and the <b>Use LDAP Authentication</b> option must be enabled for it in Cisco IPICS Administration.   |  |

| ldapimport        | Executes the direct LDAP import process, which adds to or updates in<br>Cisco IPICS the users from designated the LDAP server, based on the<br>designated LDAP search base and search filter. The LDAP server, search<br>base, and search filter are defined by LDAP import configuration options. |
|-------------------|--|
|                   | The <b>Idapimport</b> option configures in Cisco IPICS only the first name, last name, and login name of each user who is added.   |
|                   | If this option imports existing Cisco IPICS users, they are handled as follows:  |
|                   | • Users who do not use LDAP for authentication are not affected by the import process  |
|                   | • Users who use LDAP for authentication have their first name and last name updated in Cisco IPICS with the information from the LDAP server   |
|                   | • Users who use LDAP for authentication but who are not configured in<br>the LDAP server and who do not have the Cisco IPICS All or System<br>Administrator role are removed from Cisco IPICS if they belong to the<br>ops view that is configured for the LDAP import process                     |
|                   | For information about the LDAP import configuration options, see the<br>"Configuring LDAP Users Import Options" section on page 18.  |
| ldapimport_on     | Immediately adds to Cisco IPICS the users from the LDAP server that is designated by an LDAP import configuration option and activates the automatically recurring LDAP import process.  |
|                   | After you activate the recurring LDAP import process, the system executes the import at 15 and 45 minutes past each hour.  |
| ldapimport_off    | Deactivates the automatically recurring LDAP import process.   |
| ldapimport_config | Lets you view and update LDAP configuration options.   |
|                   | For detailed information about these options, see the "Configuring LDAP Users Import Options" section on page 18.  |
| sample            | Creates a CSV file that includes the headings of the fields that an input file requires.   |
|                   | You can use this sample file as a basis for the input file as described in the "CSV Input File" section on page 11.  |
| sample_file       | Name of the sample file.   |
|                   | By default, the system saves the sample file in the current folder. To save it in another folder, include the path to that folder.   |
|                   |  |

## **CSV** Input File

A CSV input file that you use with the Bulk Users Import command includes one record for each user that is to be added Cisco IPICS.

Cisco recommends that you use Microsoft Excel to create an import file, then use the Save As command in Excel to save the file as a **CSV** (**Comma delimited**) type.

<u>₽</u> Tip

Run the Bulk Users Import command with the **--sample** option to create a sample file that you can open with Microsoft Excel and use to create a CSV input file.

An input file must adhere to these guidelines:

- The file must be comma delimited.
- The file can contain up to 100,000 records. If a file contains more than 100,000 records, the Bulk Users Import command rejects the file.
- Lines preceded with a semicolon (;) are comment lines and are ignored by the import process.
- The pipe character (I) cannot be used in any line in the file.
- Each record must include each field that Table 2 describes. The fields must be in the order shown. In this table, the "Required" column indicates whether a field must contain data. Fields that are not required can be blank.

Many of the field values must conform to requirements that are configured in the Cisco IPICS Administration Console. For more detailed information about the user configuration options, *Cisco IPICS Server Administration Guide*.

| Field Name   | Required | Description  |  |  |  |
|--|----------|--|--|--|--|
| LOGIN NAME   | Yes      | Cisco IPICS login name of the user.  |  |  |  |
|  |          | This value is case insensitive. The system converts each character to lower case.  |  |  |  |
| FIRST NAME   | Yes      | First name of the user.  |  |  |  |
| LAST NAME  | Yes      | Last name of the user.   |  |  |  |
| PASSWORD   | No       | Cisco IPICS login password of the user.  |  |  |  |
|  |          | This value is case sensitive.  |  |  |  |
|  |          | The default value is Welcome!23.   |  |  |  |
| DIGIT ID FOR CISCO<br>UNIFIED IP PHONE   | No       | Numeric ID that the user enters when accessing the<br>Cisco IPICS service from a Cisco Unified IP Phone or<br>when accessing the Cisco IPICS telephony user interface.                           |  |  |  |
|  |          | This field accepts numeric characters only.  |  |  |  |
| DIGIT PASSWORD<br>(PIN) FOR CISCO<br>UNIFIED IP PHONE  | No       | Password that the user enters when accessing the Cisco<br>IPICS service from a Cisco Unified IP Phone or PIN that<br>the user enters when accessing the Cisco IPICS telephony<br>user interface. |  |  |  |
|  |          | This field accepts numeric characters only.  |  |  |  |
| IDC DIALER PHONENoUnique number that the Cisco IPICS Dispatch Cons<br>requires to register with Cisco Unified Communications<br>Manager or Cisco Unified Communications Manage<br>Express when the user logs in. |          |  |  |  |  |
| IDC DIALER<br>USERNAME   | No       | Cisco Unified Communications Manager or Cisco Unified<br>Communications Manager Express end user name that is<br>configured for the user.  |  |  |  |
| IDC DIALER<br>PASSWORD   | No       | Cisco Unified Communications Manager or Cisco Unified<br>Communications Manager Express end user password that<br>is configured for the user.  |  |  |  |
| DESCRIPTION  | No       | Description of the user.   |  |  |  |

 Table 2
 CSV File Format for Bulk Users Import

| Field Name   | Required                                      | Description  |  |  |  |
|--|---|--|--|--|--|
| ADDRESS LINE 1                                       | No  | Street address of the user.  |  |  |  |
| ADDRESS LINE 2                                       | No  | Additional street address information  |  |  |  |
| CITY   | No  | City of the user.  |  |  |  |
| STATE  | No  | State or province of the user.   |  |  |  |
| COUNTRY  | No  | Country of the user.   |  |  |  |
| ZIP  | No  | Zip code or postal code of the user.   |  |  |  |
| EMAIL  | No  | E-mail address of the user.  |  |  |  |
| PAGER  | No  | Pager number of the user.  |  |  |  |
| SMS  | No Short Message Service address of the user. |  |  |  |  |
| PHONE  | No  | Telephone number of the user.  |  |  |  |
| NAME the new user. Various Cisco IPICS configuration |   | Cisco IPICS user name of a user to serve as a template for<br>the new user. Various Cisco IPICS configuration option<br>settings for the template user are applied to the user that<br>you are adding. |  |  |  |
|  |   | For more information, see the "User Template" section on page 13.  |  |  |  |
| OPSVIEW NAME   | No  | Name of an existing opsview to which the user will belong.   |  |  |  |
|  |   | This value is ignored if you enter a value in the TEMPLATE USER NAME field.  |  |  |  |
| LOCATION   | No  | Name of an existing location with which this user should be associated.  |  |  |  |
|  |   | This value is ignored if you enter a value in the TEMPLATE USER NAME field.  |  |  |  |

### Table 2 CSV File Format for Bulk Users Import (continued)

## **User Template**

The TEMPLATE USER NAME field in a CSV input file lets you designate an existing Cisco IPICS user to serve as a template for a new user. When you enter a user name in this field, various Cisco IPICS configuration option values for that user are applied to the user who is added to Cisco IPICS. Table 3 describes these options.

For more information about these options, see *Cisco IPICS Server Administration Guide* and *Cisco IPICS Dispatch Console User Guide*.

### Table 3 Configuration Options from a Template User that are Applied to a New User

| Option                     | <b>Description</b><br>Enables channel multi-select for voice and tone transmissions, alert tones transmissions, DTMF tones transmissions, and all talk channel transmissions for a Cisco IPICS Dispatch Console user |  |
|----------------------------|--|--|
| Advanced IDC Permissions   |  |  |
| Allow Complex Key Settings | Allows a Cisco IPICS Dispatch Console user to configure keyboard<br>hot keys (key assignments) for individual PTT buttons and for the<br>All Talk button   |  |

| Option   | Description  |  |
|--|--|--|
| Allow Latch  | Allows a Cisco IPICS Dispatch Console user to use the latch functionality to lock in a channel                                     |  |
| Allow Secure Channel Patch                         | Allows a Cisco IPICS Dispatch Console to patch a secure channel to a channel, incident or VTG                                      |  |
| Disable Audio                                      | Disables the microphone and speaker on the Cisco IPICS Dispatch<br>Console of the user   |  |
| Listen Only  | Disables the transmission of audio from the Cisco IPICS Dispatch<br>Console, Cisco Unified IP Phone, and dial-in phone of the user |  |
| Location   | Cisco IPICS location with which the user is associated   |  |
| Ops View   | Ops view to which the user belongs   |  |
| User Channel                                       | PTT channel with which the user is associated  |  |
| User Group   | User group or user groups of which the user is a member  |  |
| User Incident                                      | Incident with which the user is associated in the Cisco IPICS<br>Dispatch Console  |  |
| User Policies                                      | Policies with which the user is associated   |  |
| User Radio   | Radio or radios with which the user is associated  |  |
| User Role  | Cisco IPICS role of the user   |  |
| VTG VTG or VTGs in which the user is a participant |  |  |

#### Table 3 Configuration Options from a Template User that are Applied to a New User

### Import Summary

When the bulk users import process completes for a CSV file, an LDIF file, or a direct LDAP import, the system displays a summary of the import transaction. This section describes each of these summaries.

When the import process completes for a recurring LDAP import, the system generates a log file that contains the summary of the import transaction as described in the "Log File" section on page 18.

#### **CSV File Import Summary**

Example 2 shows a sample import summary for a CSV file.

#### Example 2 Bulk Users Import Summary for a CSV File

| INFO | : | Estimated import runtime is 1.0 minute(s) |
|------|---|---|
| INFO | : | Parse and validate input records          |
| INFO | : | Import records into IPICS database        |
| INFO | : | Generate import statistics                |

#### SUMMARY

\_\_\_\_\_ Input filename : bulk\_upload\_random\_users.csv \_\_\_\_\_ # records in file : 29 # comment records skipped : 6 # data records : 23 # invalid login name : 4 # invalid user first/last name : 0 # invalid user password : 0 # invalid Cisco Unified IP Phone Digit ID : 0

```
# invalid Cisco Unified IP Phone Digit Password : 0
# invalid IDC dialer phone number : 0
# invalid IDC dialer username
                                       • 0
# invalid IDC dialer password
                                      : 0
# invalid street address
                                      : 0
# invalid city/state/country/zip
                                      : 0
                                       : 0
# invalid email
# invalid pager
                                       : 0
# invalid SMS
                                       • 0
# invalid phone
                                       : 0
# invalid opsview
                                       : 0
# invalid location
                                       : 0
# invalid template login
                                       • 1
# user login already exist
                                       : 0
# dial login already exist
                                      : 0
# duplicate login name in file
                                      : 2
# duplicate dial login in file
                                      : 0
# new records to be imported
                                      : 16
# new records imported
                                       : 16
_____
Results
_____
ERRORS FOUND
- See ipics_import_users.ipicsadmin.rejected.txt for records rejected
- See ipics_import_users.ipicsadmin.accepted.txt for records accepted
= IMPORT ENDED AT Mon Mar 12 23:20:32 GMT 2012
                                          =
```

------

If exceptions occur during the import process of a CSV file, the summary includes a description of each exception. These descriptions can include the following:

```
# dial login already exist
                                  :
# duplicate dial login in file
                                  :
# duplicate login name in file
                                  :
# invalid address
                                  :
# invalid city/state/country/zip :
# invalid digit ID
                                  :
# invalid digit ID pin
                                 :
# invalid email
# invalid IDC dialer password
                                :
# invalid IDC dialer phone number :
# invalid IDC dialer username :
# invalid LDAP opsview
# invalid location
# invalid login name
                                  :
# invalid opsview
                                  •
# invalid pager
# invalid phone
# invalid SMS
# invalid template login
                                  •
# invalid user first/last name
                                 :
# invalid user password
                                  :
# user login already exist
```

#### LDIF File Import Summary

Example 3 shows a sample import summary for an LDIF file.

### Example 3 Bulk Users Import Summary for an LDIF File

| INFO | : | Estimated import runtime is 1.0 minute(s)        |
|------|---|--|
| INFO | : | Parse and validate input records                 |
| INFO | : | Search for IPICS users that do not exist in LDAP |
| INFO | : | Remove IPICS users that do not exist in LDAP     |
| INFO | : | No IPICS users removed                           |
| INFO | : | Import records into IPICS database               |
| INFO | : | Generate import statistics                       |

#### SUMMARY

|  | =  |                       |  |  |
|--|----|-----------------------|--|--|
| Input filename                                   | :  | ldap.ipicsadmin.ldif  |  |  |
|  | -  |                       |  |  |
| # records in file                                | :  | 28                    |  |  |
| # comment records skipped                        | :  | 0                     |  |  |
| # data records                                   | :  | 28                    |  |  |
| # invalid login name                             | :  | 2                     |  |  |
| <pre># invalid user first/last name</pre>        | :  | 1                     |  |  |
| # invalid user password                          | :  | 0                     |  |  |
| # invalid Cisco Unified IP Phone Digit ID        | :  | 0                     |  |  |
| # invalid Cisco Unified IP Phone Digit Password  | :  | 0                     |  |  |
| # invalid IDC dialer phone number                | :  | 0                     |  |  |
| # invalid IDC dialer username                    | :  | 0                     |  |  |
| # invalid IDC dialer password                    | :  | 0                     |  |  |
| <pre># invalid street address</pre>              | :  | 0                     |  |  |
| <pre># invalid city/state/country/zip</pre>      | :  | 0                     |  |  |
| # invalid email                                  | :  | 0                     |  |  |
| # invalid pager                                  | :  | 0                     |  |  |
| # invalid SMS                                    | :  | 0                     |  |  |
| # invalid phone                                  | :  | 0                     |  |  |
| # invalid opsview                                | :  | 0                     |  |  |
| # invalid location                               | :  | 0                     |  |  |
| # invalid template login                         | :  | 0                     |  |  |
| <pre># user login already exist : 0</pre>        |    |                       |  |  |
| # dial login already exist                       | 0  |                       |  |  |
| # duplicate login name in file                   | :  | 0                     |  |  |
| # duplicate dial login in file                   | :  | 0                     |  |  |
| # new records to be imported                     | :  | 0                     |  |  |
| # new records imported                           | :  | 0                     |  |  |
| <pre># existing records refreshed</pre>          | :  | 25                    |  |  |
|  | _  |                       |  |  |
| Results  |    |                       |  |  |
|  | -  |                       |  |  |
| ERRORS FOUND                                     |    |                       |  |  |
| - See ipics_import_users.ipicsadmin.rejected.tx  | t  | for records rejected  |  |  |
| - See ipics_import_users.ipicsadmin.refreshed.tz | xt | for records refreshed |  |  |
|  |    |                       |  |  |
|  |    |                       |  |  |
|  |    |                       |  |  |
| = IMPORT ENDED AT Mon Mar 12 23:17:24 GMT 2012 = |    |                       |  |  |

## **Direct LDAP Import Summary**

Example 4 shows a sample import summary for a direct LDAP import operation.

-----

#### Example 4 Bulk Users Import Summary for a Direct LDAP Import

```
_____
= LDAP IMPORT STARTED AT Mon Mar 12 23:15:53 GMT 2012 =
_____
      : Retrieve LDAP query parameters
TNFO
     : Query LDAP server ipics-ad-1.cisco.com:123
INFO
     : User ID
INFO
                       - test1
            Search Base - cn=Users,dc=ipics-ad-1,dc=cisco,dc=com
INFO
      :
           Search Filter - (&(objectClass=user) (department=12345))
INFO
      :
      :
           29 LDAP records retrieved in /tmp/ldap.ipicsadmin.ldif
TNFO
INFO
    : Estimated import runtime is 1.0 minute(s)
INFO
    : Parse and validate input records
INFO
     : Search for IPICS users that do not exist in LDAP
     : Import records into IPICS database
INFO
INFO
      : Generate import statistics
SUMMARY
Input filename
                                      : /tmp/ldap.ipicsadmin.ldif
_____
                                      : 28
# records in file
# comment records skipped
                                      : 0
# data records
                                      : 28
# invalid login name
                                      : 2
# invalid user first/last name
                                      : 1
# invalid user password
                                      : 0
# invalid Cisco Unified IP Phone Digit ID : 0
# invalid Cisco Unified IP Phone Digit Password : 0
# invalid IDC dialer phone number : 0
# invalid IDC dialer username
                                      : 0
# invalid IDC dialer password
                                      : 0
# invalid street address
                                      : 0
# invalid city/state/country/zip
                                      : 0
# invalid email
                                      : 0
# invalid pager
                                      : 0
# invalid SMS
                                      : 0
# invalid phone
                                      : 0
# invalid opsview
                                      : 0
# invalid location
                                      : 0
                                      : 0
# invalid template login
# user login already exist
                                      : 0
# dial login already exist
                                      : 0
# duplicate login name in file
                                      : 0
# duplicate dial login in file
                                      : 0
# new records to be imported
                                      : 25
# new records imported
                                      : 25
# existing records refreshed
                                      : 0
_____
Results
_____
ERRORS FOUND
- See ipics_import_users.ipicsadmin.rejected.txt for records rejected
- See ipics_import_users.ipicsadmin.accepted.txt for records accepted
_____
   IMPORT ENDED AT Mon Mar 12 23:16:03 GMT 2012
_____
```

| Log File                      | The Bulk Users Import command generates a log file each time it executes a recurring import. The log file is stored in the /opt/cisco/ipics/database/logs folder and is named ipics_import_users.log. This file contains the same information as the direct LDAP import summary (see Example 4).                   |
|-------------------------------|--|
| Output Files                  | The Bulk Users Import command generates one or more of the following output files each time it executes. Each file is stored in the folder from which you execute the command.   |
|                               | • Accepted file—Named <b>ipics_import_users.ipicsadmin.accepted.txt</b> . This file includes each record that was imported into Cisco IPICS.   |
|                               | • Rejected file—Named <b>ipics_import_users.ipicsadmin.rejected.txt</b> . This file includes each record that was rejected by the import process.  |
|                               | • Refreshed file—named <b>ipics_import_users.ipicsadmin.refreshed.txt</b> . This file includes records for users whose information was updated by an LDIF or LDAP import process.  |
|                               | Each output file is in Pipe-Separated Value (PSV) format and can be opened in Microsoft Excel by specifying the pipe character (I) as the delimiter when you open the file. These files show the records in the same format as in the input file, with the following fields added to the beginning of each record: |
|                               | • REASON—In the Accepted file, shows "RECORD IMPORTED." In the Rejected file, shows the reason that a record was rejected.   |
|                               | • REF #—Internal reference number.   |
| Importing Rejected<br>Records | If the Bulk Users Import command generates a Rejected file, you can perform the following procedure to import the rejected records:  |
|                               | Procedure  |
| Step 1                        | Use Microsoft Excel to open the <b>ipics_import_users.ipicsadmin.rejected.txt</b> file.  |
|                               | Make sure to specify the pipe character as the delimiter when you open the file.   |
| Step 2                        | Correct the issues that are reported in the REASON field for each record.  |
| Step 3                        | Delete the REASON and the REF # columns from the spreadsheet.  |
| Step 4                        | Use the Save As command in Excel to save the file as a CSV (Comma delimited) type.   |
| Step 5                        | Use the Bulk Users Import command to import this CSV file.   |

## Configuring LDAP Users Import Options

Using the Bulk Users Import command with the **--ldapimport\_config** option lets you view and update LDAP import configuration options, which control several aspects of the direct LDAP import and the recurring LDAP import operations. When you use this option, the system displays current LDAP import configuration settings, as shown in Example 5.

I

#### Example 5 LDAP Configuration Settings

Would you like to change any of the value(s)?: (y/n)

To change any of these LDAP configuration settings, type **y** and press the **Enter** key. Then, follow the on-screen prompts to enter new values. The system prompts for a new value for each configuration item in sequence. If you do not want to change a value, press the **Enter** key without entering a new value. When prompted, type **y** and press the **Enter** key to exit and save your changes, or type **n** and press the **Enter** key to exit without saving your changes.

Table 4 describes the LDAP import configuration options.

| Option                | Description  |  |  |  |
|-----------------------|--|--|--|--|
| LDAP Server Name      | Hostname or IP address of the LDAP server.   |  |  |  |
| LDAP Server Port      | Port number that the LDAP server uses for requests.  |  |  |  |
|                       | The port must support non-SSL encryption.  |  |  |  |
| LDAP Search Base      | Distinguished name of the search base object.<br>Only users that are under this search base object<br>are imported.  |  |  |  |
| LDAP Search Filter    | Search criteria for finding users within the search base object.   |  |  |  |
| LDAP Login Identifier | LDAP login ID identifier column name.  |  |  |  |
| Default IPICS Opsview | Name of the ops view to which users will belong after they are added to Cisco IPICS.   |  |  |  |
|                       | This ops view must exist and the <b>Use LDAP</b><br><b>Authentication</b> option must be enabled for it in<br>the Cisco IPICS Administration Console before<br>you perform a direct LDAP import or recurring<br>LDAP import operation. |  |  |  |
| LDAP Query User ID    | Existing LDAP user ID that is used to query records in the LDAP server.  |  |  |  |
| LDAP Query Password   | Existing LDAP password that is used to query records in the LDAP server. The system encrypts this password.  |  |  |  |

#### Table 4 LDAP Import Configuration Options

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# **Bulk Users Remove Command**

The CLI Bulk Users Remove command, ipics\_remove\_users, lets you remove from Cisco IPICS a designated user or users that are defined in any of these input files:

- A CSV file, including a CSV file that you used with a previous execution of the Bulk Users Import Command
- An LDIF file, including an LDF file that you used with a previous execution of the Bulk Users Import Command
- An Accepted file that was generated by a previous execution of the Bulk Users Import command
- A Refreshed file that was generated by a previous execution of the Bulk Users Import command

The Bulk Users Remove command also lets you resolve user data inconsistencies that occur due to an interruption of the bulk users import process.

By using the most recently generated Accepted or Refreshed file as the input file when you run this command, you can conveniently reverse the last bulk users import procedure that was performed.

The Bulk Users Remove command immediately removes each designated user, regardless of the current state or association of the user, unless the user has the Cisco IPICS All or System Administrator role.

For general information about running a CLI command, see the "Using the CLI Commands" section on page 1.

| Command Syntax | <pre>ipics_remove_users{user user_name  csv CSV_file  pipe PSV_file  </pre> |
|----------------|---|
|                | ldif LDIF_filelogin_identifier identifier  repair}                          |

| Syntax Description | user             | Removes one designated user.  |
|--------------------|------------------|---|
|                    | user_name        | Name of a user to remove.   |
|                    | csv              | Removes the users that are defined in a CSV input file.   |
|                    | CSV_file         | Name of the CSV input file that defines the users to remove.  |
|                    |                  | The file must adhere to the guidelines that the "CSV Input File" section on page 11 describes.  |
|                    |                  | Include the path if the file is not in the current folder.  |
|                    | pipe             | Removes the users that are defined in a PSV input file.   |
|                    | PSV_file         | Name of the pipe delimited file that defines the users to remove. The file<br>must be either the Accepted file or the Refreshed file that is generated by the<br>Bulk Users Import command. See the "Output Files" section on page 6 for<br>more information. |
|                    |                  | Include the path if the file is not in the current folder.  |
|                    | ldif             | Removes the users that are defined in an LDIF input file.   |
|                    | LDIF_file        | Name of the LDIF file that specifies the users to remove.   |
|                    |                  | Include the path if the file is not in the current folder.  |
|                    | login_identifier | Indicates that the following value is the name of the LDAP column that identifies the login IDs of users.   |
|                    | identifier       | Name of the LDAP column that identifies the login IDs of users.   |

| repair | Resolves user data inconsistencies that occur due to an interruption of the |
|--------|---|
|        | import process.   |

## **Remove Summary**

**ry** When the users remove process completes, the system displays a summary of the operation. The remove summary shows the following information, as applicable:

- Names of users that were not removed and the reasons that they were not removed
- Names of users that were removed

# **VSOM Import Command**

The CLI VSOM Import command, ipics\_import\_vsom, lets you add to Cisco IPICS links to all public and archive video feeds that are configured in VSOM 6.3.x. The links are added in bwims format, in which each link begins with **bwims:**//.

This command also lets you activate or deactivate a recurring VSOM import process that adds links to these video feeds at regular intervals.

The following guidelines apply to this command:

- The links are not displayed in the IPICS Administration Console, but you can associate any link with an incident by using the Cisco IPICS Dispatch Console.
- The links that you add are associated with the System ops view by default.
- If the designated Cisco VSOM server is unavailable, the import process aborts.
- Existing Cisco IPICS links to VSOM public and archive video feeds are deleted from Cisco IPICS if they are not included in the import data. This situation typically occurs if video feeds are deleted from VSOM after you import them to Cisco IPICS, then you perform another VSOM import operation.
- The VSOM import configuration options control several aspects of the VSOM import operations. You can view and update items in this file as described in the "Configuring VSOM Import Options" section on page 23.

For general information about running a CLI command, see the "Using the CLI Commands" section on page 1.

| Command Syntax | <pre>ipics_import_vsom{import  import_on  import_off  import_config}</pre> |  |
|----------------|--|--|
|----------------|--|--|

| Syntax Description | import        | Adds to Cisco IPICS links to all public and archive video feeds that are in VSOM.   |
|--------------------|---------------|---|
|                    | import_on     | Immediately adds to Cisco IPICS links to the video feeds in the VSOM server that is designated by a VSOM import configuration option and activates the automatically recurring VSOM import process. |
|                    |               | After you activate the recurring VSOM import process, the system executes the import at 5 and 35 minutes past each hour.  |
|                    | import_off    | Deactivates the automatically recurring VSOM import process.  |
|                    | import_config | Lets you configure a variety of options that relate to importing VSOM video links.  |
|                    |               | For detailed information about these options, see the "Configuring VSOM Import Options" section on page 23.   |

#### **Import Summary**

When the VSOM import process completes with the **--import** option, the system displays a summary of the import transaction. Example 6 shows a sample summary.

When the import process completes for a recurring VSOM import, the system generates a log file that contains the summary of the import transaction as described in the "Log File" section on page 23.

#### Example 6 VSOM Import Summary

```
______
= VSOM IMPORT STARTED AT Wed Feb 8 17:31:08 GMT 2012 =
_____
_____
pub_feeds
_____
# rows to be synced: 151
bwims://10.100.100.30/p_SD2500_1
bwims://10.100.100.30/p_SD4300-32_1
bwims://10.100.100.30/p_SD4300-33_1
bwims://10.100.100.30/p_SD4300-34_1
bwims://10.100.100.30/p_SD4300-35_1
bwims://10.100.100.30/p_axis3301p
bwims://10.100.100.30/p_axis3301p_0
bwims://10.100.100.30/p_4500V_1
_____
pub archives
 _____
# rows to be synced: 0
```

### Log File

The VSOM Import command generates a log file each time it executes a recurring import. The log file is stored in the /opt/cisco/ipics/database/logs folder and is named ipics\_import\_vsom.log. This file contains the same information as the direct VSOM import summary (see Example 6).

#### Configuring VSOM Import Options

Using the VSOM Import command with the --import\_config option lets you view and update VSOM import configuration options, which control several aspects of the VSOM import operations. When you use this option, the system displays current VSOM import configuration settings, as shown in Example 7.

#### Example 7 VSOM Import Configuration Settings

```
Would you like to reset the value(s)?: (y/n) % \left( \left( y^{\prime }\right) \right) =\left( \left( y^{\prime }\right) \right) \left( \left( y^{\prime }\right) \right) \left( y^{\prime }\right) \left( y^{\prime }\right
```

To change any of these VSOM configuration settings, type **y** and press the **Enter** key. Then, follow the on-screen prompts to enter new values. The system prompts for a new value for each configuration item in sequence. If you do not want to change a value, press the **Enter** key without entering a new value. When prompted, type **y** and press the **Enter** key to exit and save your changes, or type **n** and press the **Enter** key to exit without saving your changes.

Table 5 describes the VSOM import configuration options.

L

| Option                   | Description  |
|--------------------------|--|
| VSOM Server Name         | Hostname or IP address of the VSOM server.   |
| Default Opsview          | Name of the ops view to which video links will belong after they are added to Cisco IPICS.                           |
|                          | This ops view must exist in the Cisco IPICS<br>Administration Console before you perform a<br>VSOM import operation. |
| VSOM Query User ID       | VSOM User ID used for querying Cisco VSOM public views.  |
|                          | This value must match the user ID for querying public views that is configured in VSOM.                              |
| VSOM Query User Password | User password used for querying Cisco VSOM public views. The system encrypts this password.                          |
|                          | This value must match the user password for querying public views that is configured in VSOM.                        |

## Table 5 VSOM Import Configuration Options

# VSOM Remove Command

The CLI VSOM Remove command, ipics\_remove\_vsom, lets you remove from Cisco IPCIS links that reference VSOM public and archive video feeds.

Executing this command immediately removes from Cisco IPICS all designated links, regardless of their current states and assignments. This command does not affect video on the VSOM server.

For general information about running a CLI command, see the "Using the CLI Commands" section on page 1.

### **Command Syntax** ipics\_remove\_vsom{--all |--before YYYYMMDDhhmmss |--after YYYYMMDDhhmmss}

| Syntax Description | -all           | Removes all VSOM video links from Cisco IPICS.  |  |  |
|--------------------|----------------|---|--|--|
|                    | before         | Removes from Cisco IPICS all VSOM video links that were modified on or before the designated date and time. |  |  |
|                    | YYYYMMDDhhmmss | Date and time at or before which video links to remove were modified.                                       |  |  |
|                    |                | Enter this value as a 14-digit string that represents year, month, day, hours, minutes, and seconds.        |  |  |
|                    | after          | Removes from Cisco IPICS all VSOM video links that were modified on or after the designated date and time.  |  |  |
|                    | YYYYMMDDhhmmss | Date and time at or after which video links to remove were modified.  |  |  |
|                    |                | Enter this value as a 14-digit string that represents year, month, day, hours, minutes, and seconds.        |  |  |

#### Remove Summary

When the VSOM remove process completes, the system displays a summary of the operation. The remove summary shows the links that were removed.

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