



# CLI Commands during Installation and Upgrade

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## Live Data CLI Commands

### Supported Character Set for Live Data Installation CLI Commands

When working with the CLI (and not exclusively for Live Data), you can use plain alphanumeric characters [0-9] [A-Z] [a-z] and the following additional characters:

- "." (dot)
- "!" (exclamation mark)
- "@" (at sign)
- "#" (number sign)
- "\$" (dollar)
- "%" (percent)
- "^" (caret)
- "\*" (star)
- "\_" (underscore)
- "+" (plus sign)
- "=" (equal sign)
- "~" (tilde)
- ":" (colon)
- "(" and ")" (open and close parentheses)
- "{" and "}" (open and close brackets)

- "[" and "]" (open and close square brackets)

Spaces are used as input separators. Most special characters carry specific meaning to the Cisco Voice Operating System (VOS) command console (for example, "\", "|", and so on). Characters above standard ASCII are mostly ignored.

## Privilege Levels for Live Data Commands

The Live Data CLI commands support the following privilege levels:

- Ordinary
- Advanced

Each Live Data command has a required privilege level related to the sensitivity of data it exposes or its ability to severely affect the operation of the application. The privilege level for each command is the minimum level required; a user with a higher privilege level also has access to the command.

The Cisco Voice Operating System (VOS) also supports a higher privilege level for the administrative user; this user is configured at installation. When the administrative user creates other users (with the set account name command), the administrative user sets each newly created user's privilege level. (For more information about the set account command, see the *Administration Console User Guide for Cisco Unified Intelligence Center* at <https://www.cisco.com/c/en/us/support/customer-collaboration/unified-intelligence-center/products-maintenance-guides-list.html>.)

## Live Data AW DB Access

The Live Data AW DB access commands allow you to configure and display CCE AW DB (real-time distributor) access for the Contact Center Enterprise Live Data Product Deployment Selection. By default, the set and show commands also test the connection from Live Data to the primary or secondary AW database, check to see if the configured user has appropriate AW DB access, and report the results.

### set live-data aw-access

**Required Minimum Privilege Level:** Advanced

Use this command to set the access information to the primary or secondary CCE AW. The command also automatically tests the connection from Live Data to the primary or secondary AW, checks to see if the configured user has appropriate AW DB access, and reports the results.

You can use the optional skip-test parameter if you do not want the test performed. No checking is done to see if the configured user has appropriate AW DB access, and no results are reported.

#### Command Syntax

```
set live-data aw-access {primary | secondary} addr port db user [skip-test]
addr
```

Specifies the FQDN of the primary or secondary CCE AW (maximum 255 characters).

**port**

Specifies the listening port of the database server (range 1 through 65535).

**db**

Specifies the database name (maximum 128 characters).

**user**

Specifies the login user (maximum 128 characters).

**skip-test**

Skips the testing of the connection from Live Data to the primary or secondary AW. No checking is done to see if the configured user has appropriate AW DB access, and no results are reported. The skip-test parameter is optional.

**Command Default**

When you run this command, it prompts you to specify the login password (maximum 128 characters) to use for authentication with AW database access.

## unset live-data aw-access

**Required Minimum Privilege Level:** Advanced

Use this command to unset the access information to the primary or secondary CCE AW DB.

**Command Syntax**

**unset live-data aw-access** {primary | secondary}

There is a single, required parameter with two possible values.

## show live-data aw-access

**Required Minimum Privilege Level:** Ordinary

Use this command to display the primary and secondary CCE AW DB access information and test the connection from Live Data to each AW DB, check to see if the configured user (on each node) has appropriate AW DB access, and report the results.

You can use the optional skip-test parameter if you do not want the test performed. No checking is done to see if the configured user (on each node) has appropriate AW DB access, and no results are reported.

**Command Syntax**

**show live-data aw-access** [*skip-test*]

Shows the configured primary and secondary CCE AW DB access information. There are no required parameters.

**skip-test**

Skips the testing of the connection from Live Data to the primary or secondary AW. No checking is done to see if the configured user (on each node) has appropriate AW DB access, and no results are reported. The skip-test parameter is optional.

## Live Data Cluster Configuration

Use the following commands to set, unset, or show Live Data cluster configuration information.

### set live-data secondary

**Required Minimum Privilege Level:** Advanced

Use this command to register the Live Data secondary node.

**Command Syntax**

```
set live-data secondary name
name
```

Specifies the FQDN of the Live Data secondary node.

**unset live-data secondary**

**Required Minimum Privilege Level:** Advanced

Use this command to unset Live Data secondary node configuration.

```
unset live-data secondary
```

There are no required parameters.

**show live-data secondary**

**Required Minimum Privilege Level:** Ordinary

Use this command to show Live Data secondary node configuration information.

```
show live-data secondary
```

There are no required parameters.

**Live Data Reporting Configuration****set live-data reporting-interval**

**Required Minimum Privilege Level:** Advanced

Use this command to set the Live Data reporting interval in minutes. The reporting interval is the duration of time for which values are aggregated and reported for the **To Interval** fields.

**Command Syntax**

```
set live-data reporting-interval reporting-interval-in-minutes
reporting-interval-in-minutes
```

Specifies the reporting interval in minutes. The valid values are 5, 10, 15, 30, and 60 minutes.

When you set the Live Data reporting interval, restart the publisher and then the subscriber. Restart the inactive node and then the active node by using the **utils system restart** command. (For more information about the command, refer to the *Administration Console User Guide for Cisco Unified Intelligence Center* at <https://www.cisco.com/c/en/us/support/customer-collaboration/unified-intelligence-center/products-maintenance-guides-list.html>.)

If you restart only the publisher and not the subscriber, the new reporting interval takes effect only on the publisher; likewise, if you restart the subscriber but not the publisher, only the subscriber uses the newly set reporting interval.

When the publisher and the subscriber restart, use the show live-data reporting-interval command to validate the new interval.

## show live-data reporting-interval

**Required Minimum Privilege Level:** Ordinary

Use this command to show the configured and current reporting interval for both the Live Data publisher and subscriber.

**Command Syntax**

```
show live-data reporting-interval
```

## unset live-data reporting-interval

**Required Minimum Privilege Level:** Advanced

Use this command to reset the Live Data reporting interval to the default value (which is five minutes).

**Command Syntax**

```
unset live-data reporting-interval
```

When you reset the Live Data reporting interval, restart the publisher and then the subscriber. Restart the inactive node and then the active node by using the **utils system restart** command. (For more information about the command, refer to the *Administration Console User Guide for Cisco Unified Intelligence Center* at <https://www.cisco.com/c/en/us/support/customer-collaboration/unified-intelligence-center/products-maintenance-guides-list.html>.)

If you restart only the publisher and not the subscriber, the reset interval takes effect only on the publisher; likewise, if you restart the subscriber but not the publisher, only the subscriber uses the reset reporting interval.

When the publisher and the subscriber restart, use the show live-data reporting-interval command to validate the new interval.

## Live Data Services Registration

### set live-data cuic-datasource

**Required Minimum Privilege Level:** Advanced

Use this command to create or update the Live Data data source in Cisco Unified Intelligence Center.

You can run the command from either the Side A or Side B (not both) Live Data node; and you must run it once for each of the Cisco Unified Intelligence Center Publisher nodes. The AW Distributor and Cisco Unified Intelligence Center Publisher must be in service.

You can use this command after you:

- Set the AW DB connection information on the same node where you want to run this command.
- Configure Live Data endpoints in the Machine Service table.



**Note** You must run this command when there is a change in machine service inventory table. The changes can occur when,

- Recreating the node in Unified CCE Inventory
- Restoring AW database using EDMT
- Running the **set liveness machine-services** CLI command (for 4K and above)

#### Command Syntax

**set live-data cuic-datasource** *cuic-addr cuic-port cuic-user*

##### **cuic-addr**

Specifies the Cisco Unified Intelligence Center publisher node's fully qualified domain name (FQDN). This node must be in service.

##### **cuic-port**

Specifies the Cisco Unified Intelligence Center REST API port, which must be 8444.

##### **cuic-user**

Specifies the user name to use for authentication with Cisco Unified Intelligence Center. By default, Cisco Unified Intelligence Center requires that you specify `CUIC` as the domain with the user name (for example, `CUIC\administrator`).

This user must have system configuration administrative privileges.

#### Command Default

When you run this command, it prompts you to specify the password to use for authentication with Cisco Unified Intelligence Center.

## show live-data cuic-datasource

**Required Minimum Privilege Level:** Ordinary

Use this command to list the Live Data data source configuration in Cisco Unified Intelligence Center.

You can use this command after you:

- Set the AW DB connection information on the same node where you want to run this command.
- Configure Live Data endpoints in the Machine Service table.

#### Command Syntax

**show live-data cuic-datasource** *cuic-addr cuic-port cuic-user*

##### **cuic-addr**

Specifies the Cisco Unified Intelligence Center publisher node's fully qualified domain name (FQDN).

##### **cuic-port**

Specifies the Cisco Unified Intelligence Center REST API port, which must be 8444.

##### **cuic-user**

Specifies the user name to use for authentication with Cisco Unified Intelligence Center. By default, Cisco Unified Intelligence Center requires that you specify `CUIC` as the domain with the user name (for example, `CUIC\administrator`).

**Command Default**

When you run this command, it prompts you to specify the password to use for authentication with Cisco Unified Intelligence Center.

**unset live-data cuic-datasource**

**Required Minimum Privilege Level:** Advanced

Use this command to delete the existing Live Data data source. Ensure that there are no existing reports or report templates that reference the Live Data data source before you run the command; otherwise, the command fails.

After you run this command successfully, you can no longer generate Live Data reports.

You can use this command after you:

- Set the AW DB connection information on the same node where you want to run this command.
- Configure Live Data endpoints in the Machine Service table.

**Command Syntax**

**unset live-data cuic-datasource** *cuic-addr cuic-port cuic-user*  
**cuic-addr**

Specifies the Cisco Unified Intelligence Center publisher node's fully qualified domain name (FQDN).

**cuic-port**

Specifies the Cisco Unified Intelligence Center REST API port, which must be 8444.

**cuic-user**

Specifies the user name to use for authentication with Cisco Unified Intelligence Center. By default, Cisco Unified Intelligence Center requires that you specify `CUIC` as the domain with the user name (for example, `CUIC\administrator`).

This user must have system configuration administrative privileges.

**Command Default**

When you run this command, it prompts you to specify the password to use for authentication with Cisco Unified Intelligence Center.

**set live-data machine-services**

**Note** This command is not valid for coresident deployments. If you have a coresident deployment, use the System Inventory in the Unified CCE Administration tool.

**Required Minimum Privilege Level:** Advanced

Use this command to set or update the Machine Service table with the latest information from Live Data services (publisher and subscriber).



**Note** You must run the **set live-data cuic-datasource** CLI command after running the **set live-data machine-services** command.

**Command Syntax**

```
set live-data machine-services awdb-user
awdb-user
```

Use the `user@domain` format to specify the AW database domain user with write-access permission. The domain is a fully qualified domain name (FQDN). The username is a user principal name. The user must be authorized to change Unified CCE configuration.

**Command Default**

When you run this command, it prompts you to specify the login password to use for authentication with AW database access.

It also prompts you to specify the password of the logged in user for the current CLI session.

**show live-data machine-services**

**Required Minimum Privilege Level:** Ordinary

Use this command to display Live Data entries in the Machine Services table.

**Command Syntax**

```
show live-data machine-services [awdb-user]
awdb-user
```

Use the `user@domain` format to specify the AW database domain user with at least read-access permission.

**Command Default**

When you run this command, it prompts you to specify the login password to use for authentication with AW database access.

**set live-data network-buffer**

**Required Minimum Privilege Level:** Advanced

Use this command to set the network buffer size for the Live Data VM.



**Note** During peak load on Live Data, the VMXNET3 adapter is reset due to which the Live Data service is disconnected from other components. To avoid this disconnection, use the `set live-data network-buffer` command to increase the buffer size for the Live Data VM. The recommended value for both receive (rx) and transmit (tx) buffers is 4096 bytes, which is also the maximum allowed value. For more information about handling high traffic bursts, refer to the VMware KB article at <https://kb.vmware.com/s/article/2039495>.

**Command Syntax**

```
set live-data network-buffer [options] [size]
```

OPTIONS:

*[tx]* sets the custom network-buffer tx size.

*[rx]* sets the custom network-buffer rx size.

SIZE:

*[size]* sets the buffer size in bytes.



## show live-data network-buffer

**Required Minimum Privilege Level:** Ordinary

Use this command to view the network buffer size for the Live Data VM.

**Command Syntax**

**show live-data network-buffer** [*options*]

OPTIONS:

[*tx*] shows the custom network-buffer tx size.

[*rx*] shows the custom network-buffer rx size.

## unset live-data network-buffer

**Required Minimum Privilege Level:** Advanced

Use this command to reset to the default network buffer size for the Live Data VM.

**Command Syntax**

**unset live-data network-buffer** [*options*]

OPTIONS:

[*tx*] resets the custom network-buffer tx size to the default value of 512 bytes.

[*rx*] resets the custom network-buffer rx size to the default value of 1024 bytes.

## show live-data appd-monitoring status

**Required Minimum Privilege Level:** Ordinary

Use this command to view the AppDynamics monitoring status for the Live Data worker process. The Live Data worker process is a real-time event processing system in Live Data. The default value is false.



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**Note** This command is applicable only if the AppDynamics instrumentation is enabled for the Live Data VM.

---

**Command Syntax**

**show live-data appd-monitoring status**

There are no required parameters.

## set live-data appd-monitoring enable

**Required Minimum Privilege Level:** Advanced

Use this command to enable the AppDynamics instrumentation for the Live Data worker process.




---

**Note** This command is applicable only if the AppDynamics instrumentation is enabled for the Live Data VM. The AppDynamics instrumentation is disabled by default because it has a performance overhead on the worker process, if enabled. For example, the worker process may have an increased latency in Live Data reporting during peak load.

---

**Command Syntax****set live-data appd-monitoring enable**

There are no required parameters.

**set live-data appd-monitoring disable****Required Minimum Privilege Level:** Advanced

Use this command to disable the AppDynamics instrumentation for the Live Data worker process.




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**Note** This command is applicable only if the AppDynamics instrumentation is enabled for the Live Data VM.

---

**Command Syntax****set live-data appd-monitoring disable**

There are no required parameters.

**Live Data CORS Configuration**

Live Data CORS commands allow you to configure CORS and hence allow web applications running on different origins to communicate with Live Data.




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**Note** Ensure that the CORS update commands are run on all the live data nodes in the cluster. After you make changes to the CORS status, allowed origins, allowed headers, or exposed headers, restart the Cisco Web Proxy Service.

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**utils live-data cors status****Required Minimum Privilege Level:** Ordinary

Use this command to query the Live Data CORS status.

**Command Syntax****utils live-data cors status**

There are no required parameters.

## utils live-data cors enable

**Required Minimum Privilege Level: Advanced**

Use this command to enable CORS in Live Data.

**Command Syntax**

**utils live-data cors enable**

There are no required parameters.



**Note** For Unified Intelligence Centre gadgets (Live Data) to load in Cisco Finesse, ensure to:

- Enable CORS using `utils cuic cors enable` and `utils live-data cors enable` commands.
- Set the Finesse host URL in `utils cuic cors allowed_origin add` URLs and `utils live-data cors allowed_origin add` URLs commands.

**Examples:**

- `https://<finesse-FQDN>`
- `https://<finesse-FQDN>:port`

## utils live-data cors disable

**Required Minimum Privilege Level: Advanced**

Use this command to disable CORS in Live Data.

**Command Syntax**

**utils live-data cors disable**

There are no required parameters.

## utils live-data cors allowed\_origin list

**Required Minimum Privilege Level: Ordinary**

Use this command to display the list of allowed URLs that can make CORS request to Live Data.

**Command Syntax**

**utils live-data cors allowed\_origin list**

There are no required parameters.

## utils live-data cors allowed\_origin add

**Required Minimum Privilege Level: Advanced**

Use this command to add the given list of URLs to the allowed origin list.

**Command Syntax****utils live-data cors allowed\_origin add** *URLs***URLs**

Comma separated list of URLs (without spaces) that has to be added to the allowed origins list. The URL should be of the format: **http[s]://<hostname>[:port]**

**utils live-data cors allowed\_origin delete****Required Minimum Privilege Level: Advanced**

Use this command to delete a particular URL entry or all the URL entries from the allowed origins list.

**Command Syntax****utils live-data cors allowed\_origin delete**

There are no required parameters. This command will prompt for a choice to delete a particular entry or all URL entries from allowed origins list.

**Example**

```
Utils live-data cors allowed_origin delete
```

1. <https://cisco.com>
  2. <https://google.com>
- a: all  
q: quit

**utils live-data cors allowed\_headers list****Required Minimum Privilege Level: Ordinary**

Use this command to display the list of allowed headers that the client can use to make CORS request to Live Data.

**Command Syntax****utils live-data cors allowed\_headers list**

There are no required parameters.

**utils live-data cors allowed\_headers add****Required Minimum Privilege Level: Advanced**

Use this command to add the given list of headers to the allowed header list.

**Command Syntax****utils live-data cors allowed\_headers add** *headers***headers**

Comma separated list of headers (without spaces) that has to be added to the allowed headers list.

## utils live-data cors allowed\_headers delete

### Required Minimum Privilege Level: Advanced

Use this command to delete a particular header entry or all the header entries from the allowed headers list. The header names are case-insensitive and any duplicate header name will be ignored.

### Command Syntax

**utils live-data cors allowed\_headers delete**

There are no required parameters. This command will prompt for a choice to delete a particular entry or all the header entries from the allowed headers list.

### Example

```
Utils live-data cors allowed_headers delete
```

```
1. Header1
```

```
2. Header2
```

```
a: all
```

```
q: quit
```

## utils live-data cors exposed\_headers list

### Required Minimum Privilege Level: Ordinary

This command displays the list of exposed headers that the client can expect from Live Data when it makes CORS request to Live Data .

### Command Syntax

**utils live-data cors exposed\_headers list**

There are no required parameters.

## utils live-data cors exposed\_headers add headers

### Required Minimum Privilege Level: Ordinary

This command adds given list of headers to the exposed header list.

### Command Syntax

**utils live-data cors exposed\_headers add *headers***

headers

Comma separated list of headers that has to be added to the exposed headers list.

## utils live-data cors exposed\_headers delete

### Required Minimum Privilege Level: Ordinary

This command deletes a particular header entry or all the header entries from the exposed headers list. The header names are case-insensitive, any duplicate header name will be ignored.

### Command Syntax

**utils live-data cors exposed\_headers delete**

There are no required parameters. This command will prompt for a choice to delete a particular entry or all header entries from exposed headers list.

### Example

Utils live-data cors exposed\_headers delete.

1. Header1
  2. Header2
- a: all  
q: quit

## Transport Layer Security CLI Commands




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**Note** These CLI commands are only for VOS systems. They are not available for VMs running Windows Server.

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## TLS Server Minimum Version

### set tls server min-version

Use this command to set the current TLS minimum version for inbound connections.

#### Command Syntax

```
set tls server min-version 1.2
1.2
```

Specifies the TLS server minimum version 1.2 for inbound connections.

### show tls server min-version

Use this command to display the current TLS minimum version for inbound connections.

#### Command Syntax

```
show tls server min-version
```

## TLS Client Minimum Version

### set tls client min-version

Use this command to set the current TLS minimum version for outbound connections.

#### Command Syntax

```
set tls client min-version 1.2  
1.2
```

Specifies the TLS client minimum version 1.2 for outbound connections.

### show tls client min-version

Use this command to display the current TLS minimum version for outbound connections.

#### Command Syntax

```
show tls client min-version
```

## Cloud Connect CLI Command

### set cloudconnect subscriber

**Required Minimum Privilege Level:** Advanced

#### Command Default

Use this command to configure the cloud connect subscriber node in the cluster. The command verifies if the hostname is valid or not. Ensure to run this command only from publisher node.

#### Command Syntax

```
set cloudconnect subscriber [ name ]  
name
```

Specifies the FQDN or IP address of the Cloud Connect subscriber node (maximum 255 characters).

When you run this command, it configures the Cloud Connect subscriber node in the cluster.

### show cloudconnect subscriber

**Required Minimum Privilege Level:** Ordinary

#### Command Default

Use this command to display the Cloud Connect subscriber node details.

#### Command Syntax

```
show cloudconnect subscriber
```

When you run this command, it displays the Cloud Connect subscriber node details.

## unset cloudconnect subscriber

**Required Minimum Privilege Level:** Advanced

### Command Default

Use this command to remove the Cloud Connect subscriber node configuration from the cluster. Ensure to run this command only from publisher node.

### Command Syntax

**unset cloudconnect subscriber**

When you run this command, it remove the Cloud Connect subscriber node configuration from the cluster.

## set cloudconnect cherrypoint config

**Required Minimum Privilege Level:** Advanced

### Command Default

Run this command to update the Cloud Connect Cherry point connector configuration details.



**Note** When you run this command, you are prompted to enter new configuration details. The current configuration details are displayed within [ / ]. You can enter the new configuration details or retain the existing configuration.



**Note** User input for Web URL Prefix must be a valid http or https URL. The default value is https://nps.bz . For users upgrading Cloud Connect, if the Web URL prefix does not have a valid http or https URL prefix, they must reconfigure Cloud Connect Cherry point to provide a valid URL for Web URL prefix.

When reconfiguring the Web URL prefix, ensure all the inputs are re-entered again.



**Note** **Voice PIN Prefix, SIP URI Domain** are no more applicable and the user will not be prompted for the same and will not be shown in the CLI command output.

### Command Syntax

**set cloudconnect cherrypoint config**

When you run this command, the current Cloud Connect Cherry point connector configuration is fetched and is displayed. You are prompted to enter new configuration details. The current configuration details are displayed within [ / ]. You can enter the new configuration details or retain the existing configuration.

Example:

```
admin:set cloudconnect cherrypoint config
Fetching existing configuration...
Enter the Config details to be saved:
Desktop User (with Read Only Privileges): readonlyusername
Desktop User API Key []: apikey-ABCD1234EFGH5789!dummy
System User (with Read and Write Privileges): reawriteusername
System User API Key []: apikey-JKMLN012345OPQRST6789!dummy
Web URL Prefix: https://nps.bz
Deployment ID: CCE_Deployment_Bangalore_Site
```



```
Proxy Enabled(true/false) [false]: true
Proxy Host: proxyhost.domain.com
Proxy Port [0]: 5678
The config details updated successfully.
```

## show cloudconnect cherrypoint config

**Required Minimum Privilege Level:** Advanced

---

**Command Default** Use this command to display the Cherry point connector configuration details.

**Command Syntax**

**show cloudconnect cherrypoint config**

When you run this command, the Cherry point connector configuration details are displayed.

## utils cloudconnect cherrypoint test-connectivity

**Required Minimum Privilege Level:** Advanced

---

**Command Default** Use this command to test the connectivity to Cloud Cheery server.

**Command Syntax**

**utils cloudconnect cherrypoint test-connectivity**

When you run this command, the connectivity to Cloud Cheery server is checked.

## utils cloudconnect reinit services

**Required Minimum Privilege Level:** Advanced

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**Command Default** Use this command to reinitialize Cloud Connect services.

**Command Syntax**

**utils cloudconnect reinit services**

This command stops all the Micro services(Containers) that are running on Cloud Connect, removes the services, and recreates them with new configuration.



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**Note** The changes to the timezone take effect on the Cloud Connect services only after you run this command successfully.

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utils cloudconnect reinit services