

# Fuel Plugin Configuration Guide

Cloud Execution Environment

USER GUIDE

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# 1 Introduction

This User Guide (UG) describes the different Fuel plugins available for the Cloud Execution Environment (CEE), and the mandatory Fuel plugins for a supported CEE configuration.

## 1.1 Target Group

Support organization personnel with a solid knowledge of Linux CLI, OpenStack, and CEE.

## 1.2 Prerequisites

This section states the prerequisites that have to be fulfilled.

### 1.2.1 Conditions

Ensure that the following condition is met:

- Access to the Fuel VM on the kickstart server

### 1.2.2 Documents

No document is needed as a prerequisite when using this UG.



## 2 Fuel Plugin Handling in CEE

This section describes the handling of Fuel plugins in a CEE region.

CEE software releases contain the officially supported Fuel plugins. To enable the officially supported plugins, see Section 2.2 on page 2.

**Note:** Additional software packages are required for Fuel plugins that are not part of the CEE software release bundle. For more information and installation instructions, refer to [Preparation of Kickstart Server](#).

To customize CEE with user specified Fuel plugins, see Section 2.1 on page 2.

### 2.1 Adding Fuel Plugins to CEE Region

The officially supported plugin packages are available in Fuel at the following location:

```
/var/www/nailgun/ericsson/fuel-plugins
```

CEE installation scripts will install and enable the plugins, listed in Section 2.2 on page 2, from this location. Customized Fuel plugins have to be added to this directory before starting the CEE installation in the CEE installation flow.

**Note:** Adding customized Fuel plugins to a CEE installation deviates from an officially supported CEE configuration. Support for lifecycle management functions, such as updates, are not guaranteed.

### 2.2 Enabling Fuel Plugins for CEE Region

Refer to section [Fuel Plugins in the Configuration File Guide](#) to enable a Fuel plugin in a CEE region.

To find the possible configuration attributes and their allowed values for the officially supported Fuel plugins in CEE, see the following sections:

- For the mandatory Fuel plugins, see Section 3 on page 3
- For the optional Fuel plugins, see Section 4 on page 17

The default values for the Fuel plugins are automatically set when no `config_attributes` are specified in the `config.yaml` file. Setting a user specified configuration value requires adding only the relevant line to the `config_attributes` section, and any additional non-specified attributes are automatically set to their default values.



## 3 Mandatory Fuel Plugins for CEE

This section describes the mandatory Fuel plugins for a supported CEE configuration.

### 3.1 Networking

#### 3.1.1 Ericsson CSS

This plugin enables the integration of Ericsson Cloud SDN Switch (CSS) with CEE.

**Plugin name:** `ericsson_css`

**Depends on:** None

**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later

**Configuration Attributes:**

Table 1 Ericsson CSS Configuration Attributes

Option = Default Value	(Type) Help String
<code>install_css_dpdk = true</code>	(BoolOpt) Install CSS with DPDK. Always expected to be the default value. Possible values: <ul style="list-style-type: none"><li>• <code>true</code></li><li>• <code>false</code></li></ul> Related options: <ul style="list-style-type: none"><li>• <code>dpdk_bond_mode</code></li></ul>
<code>redundant_traffic_interface = true</code>	(BoolOpt) Redundancy for traffic interfaces. For multi-server deployments the default value, <code>true</code> , is expected. For single server deployments, since only one traffic interface is present, the expected value is <code>false</code> . Possible values: <ul style="list-style-type: none"><li>• <code>true</code></li><li>• <code>false</code></li></ul> Related options: <ul style="list-style-type: none"><li>• <code>dpdk_bond_mode</code></li></ul>



Table 1 Ericsson CSS Configuration Attributes

Option = Default Value	(Type) Help String
<code>dpdk_bond_mode<sup>(1)</sup> = balance-slb</code>	<p>(StrOpt) Describes the mode of DPDK traffic bond configured by the CSS plugin. This value is suggested to be set as <b>active-backup</b> for BSP based deployments.</p> <p>Possible values:</p> <ul style="list-style-type: none"><li>• <b>active-backup</b></li><li>• <b>balance-slb</b></li><li>• <b>balance-tcp<sup>(2)</sup></b></li></ul> <p>Related options:</p> <ul style="list-style-type: none"><li>• <b>install_css_dpdk</b></li><li>• <b>redundant_traffic_interface</b></li></ul>
<code>bond-miimon-interval<sup>(3)</sup> = 100</code>	<p>(StrOpt) Configure <b>bond-miimon-interval</b> for link failure detection.</p> <p>Possible values:</p> <ul style="list-style-type: none"><li>• An optional string containing an integer.</li></ul> <p>Related options:</p> <ul style="list-style-type: none"><li>• <b>install_css_dpdk</b></li><li>• <b>redundant_traffic_interface</b></li><li>• <b>dpdk_bond_mode</b></li></ul>
<code>lacp<sup>(3)</sup> = passive</code>	<p>(StrOpt) LACP configuration</p> <p>Possible values:</p> <ul style="list-style-type: none"><li>• <b>active</b></li><li>• <b>passive</b></li><li>• <b>off</b></li></ul> <p>Related options:</p> <ul style="list-style-type: none"><li>• <b>install_css_dpdk</b></li><li>• <b>redundant_traffic_interface</b></li><li>• <b>dpdk_bond_mode</b></li></ul>
<code>lacp-time<sup>(4)</sup> = fast</code>	<p>(StrOpt) Configure LACP time for LACP configuration.</p> <p>Possible values:</p> <ul style="list-style-type: none"><li>• <b>slow</b></li><li>• <b>fast</b></li></ul> <p>Related options:</p> <ul style="list-style-type: none"><li>• <b>install_css_dpdk</b></li><li>• <b>redundant_traffic_interface</b></li><li>• <b>dpdk_bond_mode</b></li><li>• <b>lacp</b></li></ul>





Table 1 Ericsson CSS Configuration Attributes

Option = Default Value	(Type) Help String
<code>lacp-system-priority</code> <sup>(4)</sup> = 1024	(StrOpt) Configure <code>lacp-system-priority</code> for LACP configuration. Possible values: <ul style="list-style-type: none"> <li>Optional string, containing an integer, in range 1 to 65,535.</li> </ul> Related options: <ul style="list-style-type: none"> <li><code>install_css_dpdk</code></li> <li><code>redundant_traffic_interface</code></li> <li><code>dpdk_bond_mode</code></li> <li><code>lacp</code></li> </ul>
<code>global-mtu-size</code> <sup>(2)</sup> = 2140	(StrOpt) Global MTU size in the CSS. Possible values: Valid MTU sizes with a maximum value of 9000.

(1) `dpdk_bond_mode` is not available when `install_css_dpdk` or `redundant_traffic_interface` is set to `False`.

(2) Experimental configuration option

(3) This parameter is not available when `install_css_dpdk` or `redundant_traffic_interface` is set to `False` or if `dpdk_bond_mode` is set as `active-backup`.

(4) This parameter is not available when `install_css_dpdk` or `redundant_traffic_interface` is set to `False` or if `dpdk_bond_mode` is set as `active-backup` or if `lacp` is set as `off`.

## 3.2 High Availability

### 3.2.1 Ericsson CM-HA

This plugin enables the integration of Continuous Monitoring High Availability (CM-HA) with CEE.

**Plugin name:** `ericsson_cmha`

**Depends on:** `ericsson_watchmen`, `ericsson_ldap`, `ericsson_idam`

**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later

## 3.3 Security

### 3.3.1 Ericsson TLS

This plugin enables the integration of Ericsson TLS feature with CEE.

**Plugin name:** `ericsson_tls`



**Depends on:** None

**Conflicts with:** TLS feature provided by Mirantis OpenStack

**CEE Release Compatibility:** 6.4 and later

### 3.3.2

#### Ericsson LDAP

This plugin enables the integration of Ericsson LDAP setup with CEE.

**Plugin name:** `ericsson_ldap`

**Depends on:** None

**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later

### 3.3.3

#### Ericsson IdAM

This plugin enables the integration of Ericsson IdAM configuration with CEE.

**Plugin name:** `ericsson_idam`

**Depends on:** `ericsson_ldap`

**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later

## 3.4

### Fault Management

#### 3.4.1

##### Ericsson Watchmen

This plugin enables the integration of Ericsson Watchmen component with CEE.

**Plugin name:** `ericsson_watchmen`

**Depends on:** `ericsson_ldap`, `ericsson_idam`, `ericsson_hcframework`

**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later

**Configuration Attributes:**



Table 2 Ericsson Watchmen Configuration Attributes

Option = Default Value	(Type) Help String
galera_password	(StrOpt) Watchmen plugin requires Galera database password.

### 3.4.2 Ericsson HCFramework

This plugin enables the integration of Ericsson HCFramework component with CEE.

**Plugin name:** ericsson\_hcframework

**Depends on:** ericsson\_ldap, ericsson\_idam

**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later

### 3.4.3 Ericsson NdevAlarm

This plugin enables the integration of Ericsson NdevAlarm component with CEE.

**Plugin name:** ericsson\_ndevalarm

**Depends on:** ericsson\_infra\_setup

**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later

### 3.4.4 Ericsson Service Supervision

This plugin enables the integration of Ericsson service supervision with CEE.

**Plugin name:** ericsson\_service\_supervision

**Depends on:** None

**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later



## 3.5 Performance Management

### 3.5.1 Zabbix Monitoring

This plugin enables the integration of Zabbix component with CEE.

**Plugin name:** zabbix\_monitoring

**Depends on:** None

**Conflicts with:** None

**CEE Release Compatibility:** 6.0 and later

### 3.5.2 Ericsson Zabbix Configuration

This plugin enables the configuration of the Zabbix component as per CEE recommendations.

Only the alarm templates are enabled in Zabbix monitoring by default, which contain the Zabbix measurements that drive Watchmen alarms. The additional measurement or monitoring options are independent, and can be enabled or disabled in any combination through the configuration attributes.

**Note:** For using all PM file reporting functions, pmreports and islogs must be true. For using all Zabbix PM functions, pmreports, islogs, characteristics and rest must be true.

**Plugin name:** ericsson\_zabbix

**Depends on:** zabbix\_monitoring, ericsson\_hcframework, ericsson\_hardening, ericsson\_service\_supervision, ericsson\_watchmen, ericsson\_tls

**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later

**Configuration Attributes:**

Table 3 Ericsson Zabbix Configuration Attributes

Option = Default Value	(Type) Help String
zabbix_cee_user_password = Automatically generated password	(StrOpt) CEE user password for Zabbix.



Table 3 Ericsson Zabbix Configuration Attributes

Option = Default Value	(Type) Help String
pmreports = false	<p>(BoolOpt) Configure PMREPORT templates in Zabbix with Ericsson recommendations.</p> <p>Necessary to create a complete 3GPP XML PM Report. The baseline alarm templates already contain items that are part of the PM Reports. If set to <i>false</i>, PM Reports are generated with significantly reduced content.</p> <p>Possible values:</p> <ul style="list-style-type: none"> <li>• true</li> <li>• false</li> </ul>
isplogs = false	<p>(BoolOpt) Configure ISPLOG templates in Zabbix with Ericsson recommendations.</p> <p>Necessary to create a complete ISP Logs. The baseline alarm templates already contain items that are part of the ISP Logs. If set to <i>false</i>, ISP Logs are generated with significantly reduced content.</p> <p>Possible values:</p> <ul style="list-style-type: none"> <li>• true</li> <li>• false</li> </ul>



Table 3 Ericsson Zabbix Configuration Attributes

Option = Default Value	(Type) Help String
<code>characteristics = false</code>	<p>(BoolOpt) Configure characteristic measurement templates in Zabbix with Ericsson recommendations.</p> <p>Enable this option if debugging is needed. Setting the value to <code>true</code> significantly increases system load.</p> <p>Possible values:</p> <ul style="list-style-type: none"><li>• <code>true</code></li><li>• <code>false</code></li></ul>
<code>rest = false</code>	<p>(BoolOpt) Configure rest of the Ericsson recommended templates in Zabbix for additional monitoring.</p> <p>Contains measurement items that are not used in alarms, PM Reports or ISP logs. Enable this option with <code>pmreports</code> and <code>isplogs</code> to receive the standard measurement reports offered by CEE.</p> <p>Possible values:</p> <ul style="list-style-type: none"><li>• <code>true</code></li><li>• <code>false</code></li></ul>

### 3.5.3 Ericsson PM

This plugin enables the integration of PMAPI, PMReporter, ISPlogger and confhandler components with CEE.

**Plugin name:** `ericsson_pm`

**Depends on:** None

**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later



## 3.6 Infrastructure Management

### 3.6.1 Ericsson NTP

This plugin enables the integration of NTP service with CEE.

**Plugin name:** `ericsson_ntp`

**Depends on:** None

**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later

### 3.6.2 Ericsson Logging

This plugin enables the configuration of logging in CEE as per Ericsson recommendation.

**Plugin name:** `ericsson_logging`

**Depends on:** None

**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later

### 3.6.3 Ericsson Infrastructure Setup

This plugin enables the configuration of the infrastructure of a CEE region as per Ericsson recommendation.

**Plugin name:** `ericsson_infra_setup`

**Depends on:** None

**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later

### 3.6.4 Ericsson Hardening

This plugin enables the security hardening of infrastructure as per CEE recommendation.

**Plugin name:** `ericsson_hardening`

**Depends on:** None



**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later

## 3.7 OpenStack Configuration

### 3.7.1 Ericsson OpenStack Configuration

This plugin enables the integration of Nova, Neutron, Cinder and Ceilometer services with CEE.

**Plugin name:** `ericsson_openstack_config`

**Depends on:** None

**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later

**Configuration Attributes:**

Table 4 Ericsson OpenStack Configuration

Option = Default Value	(Type) Help String
<code>configure_neutron_ericsson = true</code>	(BoolOpt) Configure Neutron with Ericsson recommendations. Default value is recommended.  Possible values: <ul style="list-style-type: none"><li>• <code>true</code></li><li>• <code>false</code></li></ul> Related options: <ul style="list-style-type: none"><li>• <code>neutron_server_ha</code></li><li>• <code>neutron_ml2_ovs</code></li><li>• <code>neutron_server_crm</code></li></ul>
<code>configure_nova_ericsson = true</code>	(BoolOpt) Configure Nova with Ericsson recommendations. Default value is recommended.  Possible values: <ul style="list-style-type: none"><li>• <code>true</code></li><li>• <code>false</code></li></ul>





Table 4 Ericsson OpenStack Configuration

Option = Default Value	(Type) Help String
<code>configure_cinder_ericsson = true</code>	<p>(BoolOpt) Configure Cinder with Ericsson recommendations. Default value is recommended.</p> <p>Possible values:</p> <ul style="list-style-type: none"> <li>• true</li> <li>• false</li> </ul>
<code>configure_ceilometer_ericsson = false</code>	<p>(BoolOpt) Configure Ceilometer with Ericsson recommendations. Default value is recommended.</p> <p>Possible values:</p> <ul style="list-style-type: none"> <li>• true</li> <li>• false</li> </ul>
<code>neutron_ml2_ovs = true</code>	<p>(BoolOpt) Configure Open vSwitch agent for Neutron.</p> <p>Possible values:</p> <ul style="list-style-type: none"> <li>• true</li> <li>• false</li> </ul> <p>Related options:</p> <ul style="list-style-type: none"> <li>• <code>configure_neutron_ericsson</code></li> </ul>
<code>neutron_server_ha = true</code>	<p>(BoolOpt) Configure Neutron server in HA (active-active-active).</p> <p>Possible values:</p> <ul style="list-style-type: none"> <li>• true</li> <li>• false</li> </ul> <p>Related options:</p> <ul style="list-style-type: none"> <li>• <code>configure_neutron_ericsson</code></li> </ul>



Table 4 Ericsson OpenStack Configuration

Option = Default Value	(Type) Help String
<code>neutron_server_crm = true</code>	(BoolOpt) Configures Neutron server to be managed by Corosync/Pacemaker.  Possible values: <ul style="list-style-type: none"><li>• true</li><li>• false</li></ul> Related options: <ul style="list-style-type: none"><li>• <code>configure_neutron_ericsson</code></li></ul>
<code>sdn_counters = false</code>	(BoolOpt) Configure Ceilometer to enable the collection of performance counters from the SDN controller. Default values is recommended.  Possible values: <ul style="list-style-type: none"><li>• true</li><li>• false</li></ul>
<code>configure_cinder_backup = false<sup>(1)</sup></code>	(BoolOpt) Configure Cinder backup service in CEE using Swift or NFS back end.  Possible values: <ul style="list-style-type: none"><li>• true</li><li>• false</li></ul> Related options: <ul style="list-style-type: none"><li>• <code>cinder_backup_type</code></li><li>• <code>nfs_backup_share</code></li></ul>



Table 4 Ericsson OpenStack Configuration

Option = Default Value	(Type) Help String
<code>cinder_backup_type = swift<sup>(2)(3)</sup></code>	(StrOpt) Configure the Cinder backup storage back end.  Possible values: <ul style="list-style-type: none"> <li>• <code>swift</code></li> <li>• <code>nfs</code></li> </ul> Related options: <ul style="list-style-type: none"> <li>• <code>configure_cinder_backup</code></li> <li>• <code>nfs_backup_share</code></li> </ul>
<code>nfs_backup_share</code>	(StrOpt) Configure the NFS storage server IP address and share path.  Possible value:  "host:path", where host is the IP address ("ip4addr:path" or "[ipv6addr]:path") of the NFS storage server and path is the path to the share.

(1) For installation and configuration on a running CEE region, refer to the Runtime Configuration Guide.

(2) If `cinder_backup_type` is set to `nfs`, connection to the NFS storage server is established only when `nfs_backup_share` attribute is configured with a valid value.

(3) If `cinder_backup_type` is set to `nfs`, the `cinder` user (GID/UID) must have write access permissions on the NFS storage server. Refer to SW Installation in Multi-Server Deployment for more information.

## 3.8 Backup

### 3.8.1 Ericsson CEE Backup

This plugin enables the integration of Ericsson Backup with CEE.

**Plugin name:** `ericsson_cee_backup`

**Depends on:** None

**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later



## 3.9 License Management

### 3.9.1 Ericsson NeLS for CEE

This plugin enables the integration of the license management feature in CEE.

**Plugin name:** `ericsson_sheriff`

**Depends on:** None

**Conflicts with:** None

**CEE Release Compatibility:** 6.6 and later



## 4 Optional Fuel Plugins for CEE

This section describes the list of Fuel plugins which are optional for a CEE configuration.

**Note:** The plugins listed in this section are mandatory depending on hardware setup and configuration

### 4.1 Networking

#### 4.1.1 Ericsson SR-IOV

This plugin enables the integration of SR-IOV feature with CEE.

**Note:** This plugin is mandatory if SR-IOV is enabled for the node in `config.yaml`.

**Plugin name:** `ericsson_sriov`

**Depends on:** None

**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later

#### 4.1.2 Ericsson PCI Passthrough and SR-IOV Physical Function Passthrough

This plugin enables the PCI passthrough or the SR-IOV Physical Function passthrough feature with CEE.

**Note:** This plugin is mandatory if PCI passthrough or SR-IOV Physical Function passthrough is enabled for at least one node in `config.yaml`.

**Plugin name:** `ericsson_pci_passthrough`

**Depends on:** None

**Conflicts with:** None

**CEE Release Compatibility:** R7A and later

#### 4.1.3 Ericsson SDN Controller

This plugin enables the integration of Ericsson Cloud Software Defined Networking (SDN) controller with CEE.

**Plugin name:** `ericsson_sdnc`



**Depends on:** ericsson\_watchmen, ericsson\_css

**Conflicts with:** None

**CEE Release Compatibility:** R6B and later

**Configuration Attributes:**

Table 5 Ericsson SDN Controller Configuration Attributes

Option = Default Value	(Type) Help String
enable_l3_odl = true	(BoolOpt) Use ODL to manage L3 traffic. Default value is recommended.  Possible values: <ul style="list-style-type: none"><li>• true</li><li>• false</li></ul>
as_number = '100'	(IntgerOpt) Autonomous System number for BGP neighbors.  Default Value: 100
odl_username = cscadm	(StrOpt) ODL credentials needed to communicate with ODL over REST API or CLI.
odl_password = Ericsson1234	(StrOpt) ODL credentials needed to communicate with ODL over REST API or CLI.
jetty_port = '8181'	(IntgerOpt) Jetty port number.  Default value: 8181
rest_api_port = '8383'	(IntgerOpt) Port for ODL REST API availability.  Default value: 8383
enable_odl_debuglog = true	(BoolOpt) Enable or disable ODL debug logging.  Possible values: <ul style="list-style-type: none"><li>• true</li><li>• false</li></ul>

#### 4.1.4 Ericsson BGP VPN

This plugin enables the integration of BGP VPN functionality in Ericsson SDN controller with CEE.

**Plugin name:** bgvpn

**Depends on:** ericsson\_sdnc, ericsson\_css



**Conflicts with:** None

**CEE Release Compatibility:** R6B and later

#### 4.1.5 Ericsson L2GW

This plugin enables the integration of L2GW functionality in Ericsson SDN controller with CEE.

**Plugin name:** l2gw

**Depends on:** ericsson\_sdnc, ericsson\_css

**Conflicts with:** None

**CEE Release Compatibility:** R6B and later

**Configuration Attributes:**

Table 6 Ericsson L2GW Configuration Attributes

Option = Default Value	(Type) Help String
dcgw_vlan_physnet	<p>(ListOpt) List of L2 physical networks for DC-GW VLAN segments.</p> <p>Possible values:</p> <p>Optional list of strings of the physical network names.</p> <p>Example:</p> <pre>dcgw_vlan_physnet: - "DCGW_NET1" - "DCGW_NET2"</pre>

#### 4.1.6 Extreme

This plugin enables the integration of Extreme switches with CEE.

**Note:** This plugin is mandatory when in `config.yaml` file the parameter `neutron_config_yaml_file` is set to `neutron_ericsson_extreme.yaml` and `initial_setup` in `hw_switches` is set to `extreme`.

**Plugin name:** ericsson\_extreme

**Depends on:** None

**Conflicts with:** None



**CEE Release Compatibility:** 6.4 and later

#### 4.1.7 Ericsson BSP CMX

This plugin includes the OpenStack Neutron ML2 plugin for the CMX switches in order to manage them dynamically.

**Note:** This Plugin is mandatory if CEE is installed on BSP hardware.

**Plugin name:** `ericsson_bsp_cmx`

**Depends on:** `ericsson_openstack_config`

**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later

## 4.2 Storage

### 4.2.1 EMC ScaleIO

This plugin enables the integration of EMC ScaleIO with CEE.

**Note:** This plugin is mandatory if CEE-managed ScaleIO is configured in `config.yaml`.

**Plugin name:** `scaleio`

**Depends on:** `ericsson_ldap`, `ericsson_idam`

**Conflicts with:** None

**CEE Release Compatibility:** R6B and later

## 4.3 Infrastructure Management

### 4.3.1 Ericsson Performance Enhancements

This plugin enables the integration of Ericsson performance enhancement components with CEE.

The `ericsson_performance` plugin enables the update of the QEMU package that increases the `virtio_queue_size` parameter to 1024 from the default 256. Installation of the updated QEMU package has to be specified per blade in a CEE region through the `config.yaml` file. See the [Configuration File Guide](#) for more information.





**Plugin name:** ericsson\_performance

**Depends on:** None

**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later

#### 4.3.2 Ericsson HDS Agent

This plugin enables the integration of HDS Agent with CEE.

**Plugin name:** ericsson\_hds\_agent

**Depends on:** None

**Conflicts with:** None

**CEE Release Compatibility:** 6.4 and later

**Configuration Attributes:**

Table 7 Ericsson HDS Agent Configuration Attributes

Option = Default Value	(Type) Help String
server = 127.0.0.1	(StrOpt) HDS Command Center Manager (CCM) IP address
frequency = '10'	(StrOpt) HDS agent poll frequency in seconds
interface = br-hds-agent	(StrOpt) Host interface for HDS agent and CCM intercommunication



## 5 Appendix

This section contains example Fuel plugin configurations for the different CEE deployments.

**Note:** The configurations listed in this section are provided as a reference, and do not illustrate supported features for the specific CEE deployments.

## 5.1 Single Server Fuel Plugin Configuration

This section contains the Fuel plugin configuration for CEE deployments on Single Server platforms.

[illegible]

### Example 1 Fuel Plugins for Single Server Deployments

This section contains the Fuel plugin configuration for CEE deployments on Dell Multi-Server platforms.

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## Example 2 Fuel Plugins for Dell HW-Based CEE Deployments

This section contains the Fuel plugin configuration for CEE deployments on BSP platforms.

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### Example 3 Fuel Plugins for BSP HW-Based CEE Deployments



## 5.4

This section contains the Fuel plugin configuration for CEE deployments on HDS platforms.



1. The first step is to create a new project in the HDS console.

2. Next, you need to create a new deployment for the project.

3. Then, you need to create a new fuel plugin for the deployment.

4. Finally, you need to create a new CEE deployment for the fuel plugin.

#### Example 4 Fuel Plugins for HDS-Based CEE Deployments