

CEE Library Overview

Cloud Execution Environment

DESCRIPTION

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1 Introduction

This Library Overview presents the information available for Cloud Execution Environment (CEE).

1.1 Product Numbers

The product numbers and delivery information is provided in Table 1.

Table 1 Product Numbers

Product Name	Product Number	Library
CEE 6.6	AZE 102 01/5 R8A	EN/LZN 792 0001/8 R8A

1.2 Library Distribution and Access

CPI libraries are distributed as follows:

- Online libraries on the Ericsson eBusiness portal – requires access privileges
- Online libraries on CPI Store on the Ericsson intranet
- Online libraries on CAL Store on the Ericsson intranet

1.3 Library Access

For information on how to access the library, refer to [How to Get Started with Active Library Explorer](#).

1.4 Library Structure

The library consists of documents grouped into the following main folders:

- Safety and Environment
- Library Overview
- Product Overview
- Planning
- Installation
- Initial Configuration



- Operation and Maintenance
- Emergency
- Interface

1.5 Document Types

The documents are grouped into the following three types:

- Descriptive documents contain descriptions of the product on different levels.
- Operational documents give instructions on how to operate or maintain the product.
- Reference documents contain more information to which a user needs to refer.

1.6 Related Information

Trademark information, typographic conventions, definition, and explanation of acronyms and terminology used in this library, refer to the following documents:

- Trademark Information
- Typographic Conventions
- Glossary of Terms and Acronyms



2 Cloud Execution Environment Library

This section describes the library contents for CEE.

2.1 Safety and Environment

Documents included in this area are listed in Table 2. These documents are intended for personnel who work with Ericsson products.

Table 2 Safety and Environment

Title	Description	Type
Personal Health and Safety Information	Information important for health and safety in the workplace and in the external environment.	Descriptive, Operative
System Safety Information	Information important for product safety.	Descriptive, Operative

2.2 Library Overview

Documents included in this area are listed in Table 3. These documents are intended for all personnel involved in work related to any aspect of the product.

Table 3 Library Overview

Title	Description	Type
CEE Library Changes	This document lists the changes compared to the previous official library.	Reference
CEE Library Overview	Overview of the library.	Reference
Glossary of Terms and Acronyms	Explanations of all terms, abbreviations, and acronyms that occur in the library.	Reference
Trademark Information	Trademark information used in the library.	Reference
Typographic Conventions	Typographic conventions used in the library.	Reference
How to Get Started with Active Library Explorer	Introduction to the use of Active Library Explorer to read Ericsson CPI.	Reference



2.3 Product Overview

Documents included in this area are listed in Table 4. These documents are intended as an introduction for all personnel who want to learn more about the product.

Table 4 Product Overview

Title	Description	Type
CEE Technical Description	This document is a technical description of the product.	Descriptive
ScaleIO Architecture Description	This document describes the architecture of EMC ScaleIO 2.0 introduced in CEE 6.	Descriptive
Backup and Restore Overview	This document describes the backup and restore options available in CEE.	Descriptive
Atlas Overview	This document describes the CEE management system Atlas. For detailed information about using the Atlas Dashboard, refer to Atlas Dashboard Administrator User Guide and Atlas Dashboard End User Guide .	Descriptive
Free and Open Source Software	This document contains notices and license documentation related to the Free and Open Source Software (FOSS) that is included in CEE.	Descriptive
CEE 6 License Package List	This document contains the 3PP license packages used by Mirantis OpenStack v9.	Descriptive

2.4 Planning

Documents included in this area are listed in Table 5. These documents are intended for personnel responsible for planning, implementation, and product handling.

Table 5 Planning

Title	Description	Type
CEE 6 Network Impact Report	This document describes the changes made in the CEE 6 release, compared to CEE 16A IRP releases, and the impact on the overall network of the operator, including affected products and functions.	Descriptive



Table 5 Planning

Title	Description	Type
Multi-Server System Dimensioning Guide, CEE 6	This document describes the generic hardware requirements and characteristics and dimensioning of CEE. This document is valid for multi-server configuration.	Descriptive
Single Server System Dimensioning Guide, CEE 6	This document describes CEE hardware requirements and characteristics and dimensioning of CEE. This document is valid for single server deployment.	Descriptive
Customer Acceptance Test Object List	This document contains the list of test cases described in <i>Customer Acceptance Test Specification</i> and summarizes the results of the customer acceptance test.	Operative
Customer Acceptance Test Specification	This document provides cases to execute a customer acceptance test of the functionality of CEE 16A.	Operative

2.5 Installation

Documents included in this area are listed in Table 6. These documents are intended for personnel performing hardware installation, software installation, and configuration.

Table 6 Installation

Title	Description	Type
Common CEE Installation Documents		
CEE Installation	This document describes the complete procedure for deploying a CEE region.	Operative
Preparation of Kickstart Server	This document describes the preparation of the installation laptop that is used for the CEE software installation process.	Operative
SW Installation in Single Server Deployment	This document describes procedures for installing the software in a CEE region. This document is valid for single server deployment.	Operative
SW Installation in Multi-Server Deployment	This document describes procedures for installing the software in a CEE region. This document is valid for multi-server deployment.	Operative
HDS Installation		



Table 6 Installation

Title	Description	Type
CEE on HDS Installation	This document describes the creation of CEE region on a Hyperscale Datacenter System (HDS) Virtualized Performance Optimized Datacenter (vPOD), including CEE software installation.	Operative
Dell Installation		
Dell PowerEdge R630 HW Installation	This document describes procedures for installing Dell PowerEdge R630 for CEE.	Operative
Dell PowerEdge R630 Server Configuration	This document describes procedures for configuring Dell PowerEdge R630 server for CEE.	Operative
Dell PowerEdge R630 Server BIOS Configuration for CEE	This document describes procedures for configuring BIOS settings for a newly inserted Dell PowerEdge R630 server in CEE.	Operative
Extreme X670V Configuration	This document describes procedures for installing Extreme X670V Switches to be used as Traffic and Storage Switches.	Operative
Extreme X770 Configuration	This document describes procedures for installing Extreme X770 Switches to be used as Traffic and Storage Switches.	Operative
Extreme x460 Configuration	This document describes procedures for installing Extreme X460 Switches to be used as Control Switches.	Operative
Atlas Installation		
Atlas SW Installation	This document describes procedures for installing Atlas. Atlas is a cloud management tool, based on the OpenStack Dashboard, and delivered as a part of CEE.	Operative

2.6 Initial Configuration

Documents included in this area are listed in Table 7. These documents are intended for personnel performing software installation and initial configuration.



Table 7 Initial Configuration

Title	Description	Type
Configuration File Guide	This document describes the configuration file changes to be made when installing CEE.	Operative, Descriptive
Fuel Plugin Configuration Guide	This document describes the different Fuel plugins available for CEE, and the mandatory Fuel plugins for a supported CEE configuration.	Operative, Descriptive

2.7 Operation and Maintenance

Documents within this area are listed in the subsections below. These documents are intended as an introduction for personnel involved in any operation and maintenance activity.

Table 8 Operation and Maintenance

Title	Description	Type
CEE Connectivity User Guide	This document provides an overview of the available interfaces in CEE, and instructions on how to connect to these. The document covers the interfaces from both a CEE user and CEE administrator point of view.	Descriptive, Operative

2.7.1 Fault Management

Documents included in this area are listed in Table 9. These documents are intended for personnel performing fault handling, alarm handling, and troubleshooting.

Table 9 Fault Management

Title	Description	Type
Data Collection Guideline	This document provides step-by-step instructions required during data collecting activities.	Descriptive, Operative

2.7.1.1 Alarms

Documents included in this area are listed in Table 10. These documents are intended for personnel performing alarm handling.



Table 10 Alarms

Title	Description	Type
CEE Alarm List	This document contains the list of CEE alarms.	Descriptive
Bandwidth Overallocated due to Race Condition	The alarm is issued by the Managed Object (MO) Node when the periodic algorithm detects that the bandwidth requirement for the virtual machines (VMs) running on the node exceeds the available bandwidth.	Operative, Descriptive
BGP Control Path Failure	The alarm is issued by the MO BGP_Neighbor when the control connection with the BGP neighbor is down.	Operative, Descriptive
Centralized Storage Alert	This alert is issued when an alert happens in Centralized Storage Array during running of CEE.	Operative, Descriptive
CIC Failed	This alarm is issued when the periodic supervision algorithm detects that one of the three Cloud Infrastructure Controllers (CICs) has failed the availability test three consecutive times, and, after that, remains unavailable for more than five minutes.	Operative, Descriptive
CIC Restarted	This alert is issued in the following situations: <ul style="list-style-type: none">• The periodic supervision algorithm detects that one of the CICs has failed the availability test three consecutive times, and, following that, it passes the test and becomes available again.• A previously unknown CIC passes the availability test for the first time.	Operative, Descriptive
CM-HA Service Restarted	The alert is issued when during a periodic check the Continuous Monitoring High Availability (CM-HA) memory consumption reaches a certain threshold and CM-HA is restarted.	Operative, Descriptive
Complete CIC Service Restarted	This alert is issued for a region by the MO CtrlDomain when the periodic uptime measurements show that the uptime for all three CICs has decreased, which means that all CICs have been simultaneously unavailable.	Operative, Descriptive



Table 10 Alarms

Compute Host Failed	This alarm is issued by the MO ComputeHost when the periodic supervision algorithm detects that the Compute Host has failed the availability test three consecutive times, and, after that, remains unavailable for more than five minutes.	Operative, Descriptive
Compute Host Restarted	<p>This alert is issued in the following situations:</p> <ul style="list-style-type: none"> • The periodic supervision algorithm detects that one of the Compute Hosts has failed the availability test three consecutive times, and, following that, it passes the test and becomes available again. • A previously unknown Compute Host passes the availability test for the first time. 	Operative, Descriptive
Control Path Connection Failure	The alarm is issued by the MO DPN when the connection between the controller node of the Cloud SDN Controller (CSC) and the OpenFlow switch is lost.	Operative, Descriptive
Core Dump Generated	This alarm is issued when a process fails. This alarm is generated when the memory content of the failed process is saved in a core dump. When the Linux kernel fails, the dump is called a crash dump.	Operative, Descriptive
Data Path Connection Failure	The alarm is issued by the MO DstDPN when the data path connectivity between the Data Plane Nodes (DPNs) is lost.	Operative, Descriptive
Distributed Storage Alarm	Distributed storage alarms are issued for ScaleIO alarm events by the MO DistributedStorage.	Operative, Descriptive
Ethernet Port Aggregator Fault	This alarm is issued when the connection to the affected network is lost on both Ethernet ports.	Operative, Descriptive
Ethernet Port Fault	This alarm is issued when a network port on a server blade loses connectivity with the related network. The alarm remains active as long as the connectivity is missing. It is possible that the underlying fault requires site visit.	Operative, Descriptive
Ethernet Switch Port Fault	This alarm is issued by the MO EthernetPort when the connectivity is lost on an Ethernet switch in the “Top of Rack” switch.	Operative, Descriptive



Table 10 Alarms

Expiring Certificate	This alarm is issued by the MO CtrlDomain when the Certification Authority (CA) certificate is about to expire.	Operative, Descriptive
Fan Failure	This alarm is issued by the MO Fan when malfunction occurs in one or more cooling fans in the “Top of Rack” switch.	Operative, Descriptive
Fencing Failed	The alarm is issued by the MO Node when the periodic supervision algorithm detects that the compute host has failed the availability test three consecutive times, and fence_compute_before_evacuation was set to true (meaning that the compute will be fenced down), but fencing was not successful.	Operative, Descriptive
Fuel Failed	This alarm is issued when the periodic supervision algorithm detects that the Fuel host has failed the availability test three consecutive times, and, following that, remains unavailable for at least five minutes.	Operative, Descriptive
Fuel Restarted	<p>The alert is issued in the following situations:</p> <ul style="list-style-type: none">• The periodic supervision algorithm detects that the Fuel host has failed the availability test at least three consecutive times, and, following that, it passes the test and becomes available again.• A previously unknown Fuel host passes the availability test for the first time.	Operative, Descriptive
High CPU Load	This alarm is issued by the MO ServerBlade when the load on the CPU is high.	Operative, Descriptive
High Local Disk Utilization	This alarm is issued by the MO ServerBlade when the local disk utilization is high.	Operative, Descriptive
High Memory Utilization	This alarm is issued by the MO ServerBlade when the memory utilization is high and exceeds a set threshold level.	Operative, Descriptive
Module Failure	This alarm is issued by the MO Node. CSC generates the alarm when it detects that a sub-module of CSC has failed in any of the vCICs.	Operative, Descriptive
NeLS Server Communication Problem	This alarm is issued by the Managed Object (MO) License when the Network License Server (NeLS) is not available.	Operative, Descriptive



Table 10 Alarms

NTP Authentication Failure	This alarm is issued when NTP Authentication Failure occurs. NTP service on Controller is not able to communicate with one of the upstream NTP servers according to authentication failure.	Operative, Descriptive
NTP Stratum Level Failure	This alarm is issued when NTP Stratum Level Failure occurs. That is, NTP stratum level on any of the CICs are lower or equal to any of the stratum levels on the upstream NTP servers.	Operative, Descriptive
NTP Upstream Server Failure	This alarm is issued when NTP Upstream Server Failure occurs. Upstream failure means that NTP client on CIC hosts cannot reach one of the upstream servers in the NTP server list.	Operative, Descriptive
Power Supply Failure	This alarm is issued by the MO PowerSupply when one or more power supplies fail in the “Top of Rack” switch.	Operative, Descriptive
Remote File System Is Not Accessible	The alarm is issued when the distributed storage component is not accessible.	Operative, Descriptive
Service Permanently Stopped	This alarm is issued if a service operating at a vCIC or Compute node is stopped permanently.	Operative, Descriptive
Service Stopped	This alert is issued when a service operating at a host is stopped.	Operative, Descriptive
SW RAID Array Degradation	This alarm is issued when one or more disks within the SW RAID array are unavailable	Operative, Descriptive
VM Evacuation Failed	This alarm is issued for a VM in the following situations: <ul style="list-style-type: none"> • The automatic evacuation of the VM has failed. • The evacuation of the VM is not allowed due to the evacuation policy of the VM. 	Operative, Descriptive
VM Unavailable	This alarm is issued for a VM when the evacuation of the VM starts. The evacuation is triggered, and the alarm is issued, for all VMs that are hosted on the compute host that fails the periodical availability test three consecutive times.	Operative, Descriptive
VMs Restarted due to vSwitch Restart	This alert is issued when the VMs are restarted after a virtual Switch (vSwitch) failure in CEE. The alarm is issued by the MO Instance VM.	Operative, Descriptive



2.7.2 Configuration Management

Documents included in this area are listed in Table 11. These documents are intended for personnel performing configuration and fine-tuning. They are also intended for personnel performing provisioning.

Table 11 Configuration Management

Title	Description	Type
Atlas Dashboard End User Guide	This document describes the Ericsson Atlas Dashboard modifications, compared to the OpenStack Dashboard (Horizon). It also adds examples on features not described in the community user guide.	Operative, Descriptive
OpenStack End User Guide	This document is a user guide for OpenStack end users.	Operative, Descriptive
Atlas Dashboard Administrator User Guide	This document describes the Ericsson Atlas Dashboard modifications, compared to the OpenStack Dashboard (Horizon). It also adds examples on features not described in the community user guide.	Operative, Descriptive
OpenStack Administrator Guide	This document is a user guide for OpenStack administrators.	Operative, Descriptive
Atlas Multi-Region Configuration User Guide	This document describes procedures for enabling multiple CEE regions in Atlas.	Operative
Atlas On Demand Use	This document describes procedures for disabling Atlas in a single server CEE installation.	Operative, Descriptive
Dell EMC ScaleIO Version 2.x User Guide	This document is a user guide for the Dell EMC ² ScaleIO storage solution.	Operative, Descriptive
Fault Management Configuration Guide	This document describes procedures for configuring the Watchmen Fault Management in CEE.	Operative, Descriptive
Runtime Configuration Guide	This document describes procedures configuring or reconfiguring settings in a running CEE.	Operative, Descriptive
Swift Store on ScaleIO Activation	This document describes how to activate the feature Swift store on ScaleIO and move the location of the Swift store from the local disks to the distributed storage (EMC ScaleIO).	Operative



Table 11 Configuration Management

Title	Description	Type
Swift Store on ScaleIO Expansion	This document describes how to expand the existing Swift store on ScaleIO.	Operative
vFuel On Demand Use	This document describes procedures for disabling/enabling vFuel on a Single Server environment.	Operative, Descriptive

2.7.3 Security Management

Documents included in this area are listed in Table 12. These documents are intended for personnel performing security tasks, including supervision and user administration. They are also intended for personnel performing hardening of the product.

Table 12 Security Management

Title	Description	Type
Security User Guide	This document describes Security Management for the supported security services in CEE.	Operative, Descriptive
System Hardening Guideline	This document contains general information about the hardening processes, and helps to understand the purpose of product hardening. The document gives an overview of the hardening activities that are performed during the product development, and defines hardening activities that need to be performed during and after the installation.	Operative, Descriptive
CEE Hardening Checklist	This document describes procedures for hardening that must be performed to make CEE secure during its whole life cycle.	Operative, Descriptive
Infrastructure Administrator Management Guide	This document describes the CEE Identity and Access Management (IdAM) tool, that is used to manage identities and credentials for Cloud Infrastructure Administrators, and to provide authentication and access control services for user accesses.	Operative, Descriptive



Table 12 Security Management

Title	Description	Type
DC Firewall Hardening Guide	This document provides the connectivity and network description of the Data Center Firewall (DC-FW) to the CEE Network architecture. In the current system, FW is not part of the CEE region, therefore this user guide gives a high-level overview about the external hardware FW solution.	Operative, Descriptive
Dell EMC ScaleIO Version 2.x Security Configuration Guide	This document describes Security Management for the Dell EMC ScaleIO storage solution.	Operative, Descriptive

2.7.4 Hardware Management

Documents included in this area are listed in Table 13. These documents are intended for personnel performing preventive maintenance of the hardware and for personnel involved in troubleshooting.

Table 13 Hardware Management

Title	Description	Type
Replace Extreme X670V/X770 Switch	This document describes procedures for replacing the Extreme switch. The document is valid for both X670V and X770 switches.	Operative
Replace Extreme X460 Switch	This document describes procedures for replacing the Extreme X460 control switch.	Operative
Region Expansion	This document describes procedures for expanding CEE with one or more compute hosts.	Operative
Region Scale-in	This document describes how to remove one or more compute hosts from the CEE region.	Operative
Server Replacement	This document describes procedures for replacing a blade in CEE.	Operative

2.7.5 Software Management

Documents included in this area are listed in Table 14. These documents are intended for personnel performing preventive maintenance of the software and for personnel involved in troubleshooting. They are also intended for personnel performing backup and restoration.



Table 14 Software Management

Title	Description	Type
Atlas Software Management Guide	This document describes how to manage the Atlas software.	Descriptive, Operative
Atlas SW Upgrade	This document describes procedures for updating and upgrading the software in an existing CEE Atlas Server.	Operative
Atlas Backup	This document describes procedures for backing up the configuration of Atlas for CEE. For more information about the Atlas command used for the backup procedure, refer to Atlas Software Management Guide .	Descriptive, Operative
Atlas Restore	This document describes procedures for restoring the configuration of Atlas for CEE.	Descriptive, Operative
CEE Update and Rollback Guide	This document describes the generic flow of the update procedure in the CEE region.	Operative
CEE 6.6 SW Update and Rollback	This document is used for performing a software update and rollback between CEE 6.5 (R7B) and CEE 6.6 (R8A), or CEE 6.5.1 (R7C) and CEE 6.6 (R8A).	Operative
CEE Graceful Shutdown and Power-On	This document provides instructions on how to gracefully shut down and restore the CEE region.	Operative
CIC Domain Data Backup	This document describes procedures for backing up CIC domain configuration data for vCIC recovery.	Descriptive, Operative
CIC Domain Data Restore	This document describes procedures for restoring CIC domain configuration.	Descriptive, Operative
Disaster Recovery	This document describes the disaster recovery procedure. The purpose of this procedure is to create a backup of the CEE infrastructure for recovery purposes following a man-made or natural disaster (vis maior), such as hurricane, flood or similar.	Operative
Extreme Switch Firmware Upgrade	This document describes procedures for upgrading the firmware for the Extreme switch.	Operative
Fuel Synchronization	This document describes the manual Fuel synchronization procedure and the change to cold-stand-by vFuel.	Operative



2.7.6 Health Check

Documents included in this area are listed in Table 15. These documents are intended for personnel performing installation, preventive maintenance of the software, and provisioning tasks. They are also intended for personnel involved in troubleshooting.

Table 15 Health Check

Title	Description	Type
Health Check Procedure	This document is to help support engineers check that CEE operates in a fault-free state, and to detect issues that can affect normal operation.	Descriptive

2.8 Emergency

Documents included in this area are listed in Table 16. These documents are intended for personnel authorized to perform an emergency recovery.

Table 16 Emergency

Title	Description	Type
Emergency Recovery Procedure	This document provides a systematic approach for resolving a system emergency experienced in CEE.	Descriptive

2.9 Interface

Documents included in this area are shown are listed in Table 17. These documents are intended for personnel needing to understand the logical entity, including interfaces and protocols.

Table 17 Interface

Title	Description	Type
OpenStack API Complete Reference	This document is a complete reference of the Application Programming Interface (API) operations and extensions of OpenStack.	Descriptive, Reference
Command-Line Interface Reference	This document describes the OpenStack command-line clients.	Descriptive, Reference
Dell EMC ScaleIO Version 2.x CLI Reference Guide	This document describes the Dell EMC ScaleIO CLI.	Descriptive, Operative



Table 17 Interface

Title	Description	Type
Dell EMC ScaleIO Version 2.x Deployment Guide	This document describes the deployment procedure for unmanaged ScaleIO.	Descriptive, Operative
CEE CLI Guide	This document describes how to use specific CLI commands in CEE.	Descriptive, Operative
OpenStack Orchestration API in CEE	This document is an introduction to the API of the OpenStack Dashboard-based cloud management component Atlas in CEE.	Descriptive, Reference
OpenStack Heat	This document describes the OpenStack Heat service and contains the Heat Orchestration Template (HOT) guide.	Descriptive, Reference
Atlas OVFT API	This document describes the Atlas Open Virtualization Format Translator (OVFT) API used in CEE.	Descriptive
Atlas OVF to HOT Mapping	This document describes a mechanism for translation of OVF descriptors into HOT templates.	Descriptive
Atlas CLI End User Guide	This document describes the syntax descriptions and examples of the commands used for managing Atlas by using the CLI.	Descriptive, Operative
In Service Performance Northbound API	This document describes the structure and content of the In-Service Performance (ISP) Log File in CEE.	Descriptive
Fault Management Northbound API	This document describes the Fault Management (FM) northbound API used in CEE.	Descriptive
Performance Management Northbound API	This document describes the northbound interfaces of CEE used for Performance Management (PM).	Descriptive
Preconfigured Key Performance Indicators	This document describes the factory default key performance indicators (KPIs) available at the northbound interfaces of CEE used for performance management.	Descriptive
Audit and Security Logging	This document describes the Northbound Interface of the Log Aggregator that is part of CEE.	Descriptive



Table 17 Interface

Title	Description	Type
Security Information and Event Management	This document describes the interface between the external Security Information and Event Management (SIEM) systems and the Log Collector in Atlas.	Descriptive
OpenStack Identity API in CEE	This document is an introduction to using the API of the OpenStack component “Identity” (Keystone) in CEE.	Descriptive
OpenStack Identity API	This document describes the API operations and extensions of OpenStack Identity.	Descriptive, Reference
OpenStack Compute API in CEE	This document is an introduction to using the API of the OpenStack component “Compute” in CEE.	Descriptive
OpenStack Compute API	This document describes the API operations and extensions of OpenStack Compute.	Descriptive, Reference
OpenStack Networking API in CEE in Dell Multi-Server Deployment	This document describes how the API for networking is used in CEE in Dell Multi-server deployment. The API is based on the OpenStack component “Networking” (Neutron).	Descriptive
OpenStack Networking API in CEE in Single Server Deployment	This document describes how the API for networking is used in CEE in Single Server deployment. The API is based on the OpenStack component “Networking” (Neutron).	Descriptive
OpenStack Networking API in CEE in BSP Deployment	This document describes how the API for networking is used in CEE in BSP deployment. The API is based on the OpenStack component “Networking” (Neutron).	Descriptive
OpenStack Networking API in CEE with SDN	This document describes how the API for networking is used in CEE with SDN. The API is based on the OpenStack component “Networking” (Neutron).	Descriptive
OpenStack Networking API in CEE in HDS Deployment	This document describes how the API for networking is used in CEE in HDS deployment. The API is based on the OpenStack component “Networking” (Neutron).	Descriptive



Table 17 Interface

Title	Description	Type
OpenStack Networking API v2.0	This document describes the API operations of OpenStack Networking.	Descriptive, Reference
OpenStack Object Storage API in CEE	This document is an introduction to using the API of the OpenStack component “Object Storage” in CEE.	Descriptive
OpenStack Block Storage API in CEE	This document is an introduction to using the API of the OpenStack component “Block Storage” in CEE.	Descriptive
OpenStack Image Service API in CEE	This document is an introduction to using the API of the OpenStack component “Image Service” in CEE.	Descriptive
OpenStack Telemetry API in CEE	This document is an introduction to using the API of the OpenStack component “Telemetry” in CEE.	Descriptive