

# CEE Library Changes

Cloud Execution Environment (CEE) 6.6

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# 1 Introduction

This document shows the changes in the Cloud Execution Environment (CEE) library between the following releases:

**From** Cloud Execution Environment (CEE) 6.5.1, EN/LZN 792 0001/8, R7C  
**To** Cloud Execution Environment (CEE) 6.6, EN/LZN 792 0001/8, R8A

The following changes are shown:

- Documents added
- Documents changed
- Documents removed

The reason for a change is described, for example, new, updated, or removed features, as well as corrected faults and responses to change requests.

Minor changes, however, such as language corrections, link errors, and editorial improvements are not shown in the tables below unless these are the only corrections in the update.

## 2 Description of Changes

The structure in this section reflects the structure of the current library.

### 2.1 New and Changed Documents

#### 2.1.1 Library Overview

Table 1 Library Overview

Title	Identity	Change
CEE Library Changes	109 45-EN/LZN 792 0001/8 Uen D2	Updated for CEE 6.6



Table 1 Library Overview

Title	Identity	Change
CEE Library Overview	1/1551-EN/LZN 792 0001/8 Uen L	Library parameters updated for CEE 6.6. Added: Region Scale-in, SW RAID Array Degradation, Remote File System Is Not Accessible, CEE Update and Rollback Guide, CEE 6.6 SW Update and Rollback, NeLS Server Communication Problem, CEE Alarm List. Deleted: CEE SW Update and Rollback, Cinder Backup. Dell EMC ScaleIO Version 2.x Security Configuration Guide, Dell EMC ScaleIO Version 2.x CLI Reference Guide, Dell EMC ScaleIO Version 2.x User Guide renamed. Dell EMC ScaleIO Version 2.x Deployment Guide added.
Glossary of Terms and Acronyms	3/0033-AZE 102 01 Uen J	Added to terms section: TB, TiB. Added to glossary section: NVM, GiB, UID, SI, NFS, PMAPI, ESC. Units of measurement added.

## 2.1.2 Product Overview

Table 2 Product Overview

Title	Identity	Change
CEE Technical Description	221 02-FGC 101 3270 Uen J1	<p>Certified HW configuration and reference HW configuration changes: Sections 2.1 "CEE", 2.1.1 "Hardware" and 4.13 "Switching Fabric" updated.</p> <p>Updated Figure 3 'OpenStack in CEE': added Mistral.</p> <p>Moved SW versions section from the CEE Architecture Description, versions updated..</p> <p>Cinder Backup added to section 4.7.</p> <p>DPDK version added to section 2.2 'Software Versions in CEE'.</p> <p>Updated usage of not supported, aligned with existing terms and phrases.</p> <p>4.18 Licensing section added.</p>
ScaleIO Architecture Description	1/155 53-CNA 403 3308/5 Uen D	Editorial changes.
Backup and Restore Overview	1/1551-CSA 113 085/5 Uen B	<p>Sections 2.5 "Exporting Fuel VM Image", 2.6 "Exporting vCIC VM Images", and 9.2.4 "Transferring Files between a Host and the FTPS Server" updated.</p> <p>Backup sizes and transfer times for vCIC and vFuel VM images, Fuel image size updated.</p> <p>Reference to update documentation removed from vCIC and vFuel image backup sections.</p>
Free and Open Source Software	2/0962-CSA 113 085/5 Uen M	Added Apache Thrift to FOSS Products, backports-ssl match to FOSS Products, and Versions table.



## 2.1.3 Planning

Table 3 Planning

Title	Identity	Change
CEE 6 Network Impact Report	2/109 48-AZE 102 01 Uen K	<p>New section 4.33: Region Scale-in added.</p> <p>CEE current release updated to 6.6 (R8A).</p> <p>Section 4.13 "VLAN Restore in CEE on BSP" added.</p> <p>Table 2 updated with new and enhanced features.</p> <p>4.29 'Support for Fortville NICs 10/25/40G': Note for i40 driver version update removed.</p> <p>Section 4.34 Cinder Backup in CEE added.</p> <p>2.2 Hardware: section updated.</p> <p>4.15 CEE Reference Configurations section updated.</p> <p>Section 4.35 License Management added.</p> <p>Updated usage of "not supported".</p> <p>2.1.1 'Capacity and Dimensioning Guidelines' section updated.</p> <p>2.7 'Deprecated Features' section updated.</p> <p>2.8 'Removed Features' section replaced by 'Obsolete Features' section, content moved and restructured.</p> <p>CSS4 designation changed to CSS, version omitted.</p> <p>New section 4.36 'Automated Health Check' added.</p> <p>New section 4.37 'Automated Data Collection' added.</p> <p>CEE update path changed to: from 6.5 and from 6.5.1 to 6.6.</p> <p>Certified terminology replaced with verified in section 4.5.2.2.</p> <p>Section 2.1.2 'Performance': OVS and DPDK versions updated, CSS performance configuration added.</p>



Table 3 Planning

Title	Identity	Change
Multi-Server System Dimensioning Guide, CEE 6	4/192 02-AZE 102 01/5 Uen H	<p>Table 13 and Table 19 updated, vCIC backup dimensioning values removed.</p> <p>4.5.1.2 Database Partition Calculation for vCIC updated with new MongoDB formula, section restructured. Certified HW configuration and reference HW configuration removal: Updated Sections 1 "Introduction", 3.1 "System Configurations", 4 "Hardware Requirements", 4.2 "Network Configuration", 5.1 "General System Limits", removed Sections 3.1.1 "Reference Configurations", 3.1.2 "Certified Configurations", 4.1.2 "Summary of BSP Hardware Configuration", Table 22 "General System Limits on BSP Hardware" in Section 5.1 "General System Limits".</p> <p>Section 6 "Hardware Platform Limitations" removed, list items about diskless compute blades moved to table note 1 in Table 16 "Compute Host, GEP Boards".</p> <p>4.1 Summary of Server Configuration section removed.</p> <p>4.3.2 Compute Host Examples on BSP Hardware Platform: Intel Xeon processor references removed, Table 3 and Table 4 updated, editorial changes applied. Figure 5 and Figure 6 updated.</p> <p>4.5.1 Centralized Storage section removed.</p> <p>4.5.3 Local Storage Disk Space on BSP Hardware Platforms updated, specific BSP blade types removed.</p> <p>5.4.1.2.2 Custom CPU Allocation Option section removed.</p> <p>5.4.1.9 BIOS Settings section created.</p> <p>5.5.1 Limitations When Using Local Storage section updated, BSP-specific limitations merged.</p> <p>5.5.2 VM Migration with "managed-on-host" HA Policy section removed and merged with 5.5.1.</p> <p>5.5.4 Centralized Storage Limits section removed.</p> <p>4.2.2 Compute Host Examples on BSP Hardware Platform: example clarification added.</p> <p>Table 3 and Table 4: CSS performance configuration note added.</p> <p>4.4.2 Local Storage Disk Space on BSP Hardware Platforms: GEP board designations corrected.</p> <p>Figure 1 'CEE Hardware Environment with Optional Centralized Storage' and accompanying paragraph removed.</p> <p>Section 4.3.1 Introduction updated with NUMA and hugepages logic.</p> <p>Section 4.2.1.1 Host OS Cores added.</p>





Table 3 Planning

Title	Identity	Change
Single Server System Dimensioning Guide, CEE 6	3/192 02-AZE 102 01/5 Uen H	<p>Section 2: R630 removed as specific server type.</p> <p>Section 3: Editorial changes, Table 1 Supported Hardware removed.</p> <p>Section 3.1: title changed, Table 2 Intel NIC specified.</p> <p>Section 3.2: DPDK requirement and iLO and iDRAC compatibility requirement added.</p> <p>Section 3.3: NUMA requirement added, CPU model specified, Table 3 CPU pinning updated, Figure 2 updated.</p> <p>Section 3.3.1 Host OS Cores section added</p> <p>Section 3.3.1 removed.</p> <p>Section 3.4: minimum RAM requirement added.</p> <p>Section 3.5: minimum disk requirement added.</p> <p>Section 4.4.1 removed, reference added to Multi-Server System Dimensioning Guide, CEE 6.</p> <p>"Not supported" statements revised and updated.</p>
Customer Acceptance Test Object List	1/152 82-AZE 102 01/5 Uen F	Aligned with Customer Acceptance Test Specification: Added sections: Verify Scale-In on Compute Hosting vFuel, Verify Scale-In on Compute Hosting vCIC.
Customer Acceptance Test Specification	1/192 12-AZE 102 01/5 Uen F	<p>Section 2.12 'Restart Host Where Atlas Executes': replaced "rsyslogd" with "rsyslog" and "rabbitmq" with "rabbitmq-server".</p> <p>Section 2.15 'Restart Atlas VM': replaced "rsyslogd" with "rsyslog" and "rabbitmq" with "rabbitmq-server".</p> <p>New sections 2.32 'Check Scale-In Functionality on Compute Hosting vFuel' and 2.33 'Check Scale-In Functionality on Compute Hosting vCIC' added.</p> <p>Document updated with automatic health check procedure. Note added about successful health check being the pre- and postcondition of test cases.</p>

## 2.1.4 Installation

Table 4 Installation

Title	Identity	Change
CEE Installation	1/1531-AZE 102 01/5 Uen K	Fuel sync is not applicable on SiSe changed to not possible in section 4 "Post-Installation Activities".
Preparation of Kickstart Server	4/1531-CSA 113 085/5 Uen L	<p>New figures added to section 4 'Connect to DC': Figure 1 - 'Connector Orientation, Dell PowerEdge, Back' and Figure 2 - 'Networks in the Single Server Control Switching Domain'.</p> <p>For BSP HW in section 4 'Connect to DC', fuel_ctrl_sp configuration statement added.</p> <p>New SDN Fuel plugin (CSC Tools Package) added to section 3.7.2 'SDN Fuel Plugins'.</p>
SW Installation in Single Server Deployment	9/1531-CSA 113 085/5-V1 Uen A	<p>New document</p> <p>New document for CEE 6.6 based on 8/1531-CSA 113 085/5 Uen A.</p>
SW Installation in Multi-Server Deployment	9/1531-CSA 113 085/5-V2 Uen A	<p>New document</p> <p>New document for CEE 6.6 based on 8/1531-CSA 113 085/5 Uen A.</p>



Table 4 Installation

Title	Identity	Change
CEE on HDS Installation	1/1531-CNA 403 3305/2 Uen G	New document for CEE 6 R8A based on R7C document 7/1531-CSA 113 085/5 Uen A.
Extreme x460 Configuration	3/1531-CRA 119 1862/5 Uen F	Reference removed.
Atlas SW Installation	1/1531-CRA 119 1873/5 Uen L	Added ENABLE_BACKUP, BACKUP_INTERVAL, and L2 GW parameters to Section 3 "Install Atlas", step 1 and 3. A new note added to section 1 (Introduction) on the use of KB/MB/GB.

## 2.1.5 Initial Configuration

Table 5 Initial Configuration

Title	Identity	Change
Configuration File Guide	3/1553-CSA 113 085/5 Uen S1	New sections added: PCI Passthrough, Local Disk Partition Sizes, Location of Logs, Cloud Management, CM-HA, Neutron Configuration Options, Advanced CPU Allocation, SDN Blade Configuration, Server Configuration.  Sections updated: Deployment Debugging Information, License Management Configuration.  Information on HW verification updated.  Editorial changes, references updated.
Fuel Plugin Configuration Guide	7/1553-CSA 113 085/5 Uen H	Section 3.7.1 Ericsson OpenStack Configuration: Cinder backup configuration options added.  3.9 'License Management' section added.  CEE versions: R designations removed in accordance with Network Impact Report.

## 2.1.6 Operation and Maintenance

Table 6 Operation and Maintenance

Title	Identity	Change
CEE Connectivity User Guide	6/1553-CSA 113 085/5 Uen H	Limitation on unnecessary security warnings added to section 3 "Introduction to the CEE Interfaces". Note added on limitations of using OS CLI from Atlas in section "Interfaces for CEE Users".  Limitation on unnecessary security warnings added to section 3 "Introduction to the CEE Interfaces". Note added on limitations of using OS CLI from Atlas in section "Interfaces for CEE Users". Editorial changes.

Table 7 Operation and Maintenance/Fault Management

Title	Identity	Change
Data Collection Guideline	7/1543-AZE 102 01 Uen L	Document restructured for the automatic log collection process. Prerequisite in Section 1.3.1 "Conditions" updated. Updated Section 3 "Collect Data". Data collection on compute hosts updated. Added name and location of generated file in Section 4 "Submit CSR". Updated commands and added example in Section 5.1 "Split Files before Adding to CSR".



Table 8 Operation and Maintenance/Fault Management/Alarms

Title	Identity	Change
CEE Alarm List	1/006 51-CSA 113 085/5 Uen A	New document New document for CEE 6.
Bandwidth Overallocated due to Race Condition	1/1543-CNA 403 2948/5 Uen D	Step 7 in section 2.1 "Actions" modified in sync with the automated Data Collection Guide (reference to the table in the Data Collection Guide deleted).
BGP Control Path Failure	1/1543-CNA 403 3339/5 Uen B	Step 4 in section 2.1 "Actions" modified in sync with the automated Data Collection Guideline (reference to the table in the Data Collection Guideline deleted). References updated.
CIC Failed	2/1543-CRA 119 1959/5 Uen D	Updated Table 1 "Alarm Causes" and Section 1.1 "Alarm Description" with information about MM.
CIC Restarted	13/1543-CRA 119 1959/5 Uen C	Updated Section 1.1 "Alert Description" with information about MM. Step 1 in section 2.1 "Actions" modified in sync with the automated Data Collection Guideline (reference to the table in the Data Collection Guideline deleted).
CM-HA Services Restarted	9/1543-CRA 119 1861/5 Uen C	Step 1 in section 2.1 "Actions" modified in sync with the automated Data Collection Guide (reference to the table in the Data Collection Guide deleted).
Complete CIC Service Restarted	1/1543-CRA 119 1959/5 Uen D	Log collection step added in section 2.1 "Actions".
Compute Host Failed	8/1543-CRA 119 1959/5 Uen F	Step 6 in section 2.1 "Actions" modified in sync with the automated Data Collection Guide (reference to the table in the Data Collection Guide deleted).
Compute Host Restarted	14/1543-CRA 119 1959/5 Uen F	Step 1 in section 2.1 "Actions" modified in sync with the automated Data Collection Guide (reference to the table in the Data Collection Guide deleted).
Control Path Connection Failure	2/1543-CNA 403 3339/5 Uen B	Step 5 in section 2.1 "Actions" modified in sync with the automated Data Collection Guide (reference to the table in the Data Collection Guide deleted). References updated.
Core Dump Generated	8/1543-CRA 119 1861/5 Uen C	Info added on core dump generated when CIC or Fuel host is restarted.
Data Path Connection Failure	3/1543-CNA 403 3339/5 Uen B	Updated based on SDN document 1/198 22-AXD 101 08/6-V1. Section 2 "Procedure" updated, procedure includes 3 subsection corresponding the 3 connection failures that trigger the alarm. Step 3 in Section 2.1 "Actions" modified in sync with the automated Data Collection Guideline, reference to the table in the Data Collection Guideline deleted. References updated.
Distributed Storage Alarm	3/1543-CNA 403 3308/5 Uen D	Editorial changes.
Ethernet Port Aggregator Fault	2/1543-CRA 119 1862/5 Uen E	Step 3 in section 2.1 "Analyzing the Alarm" and step 3 in section 2.2 "Actions" modified in sync with the automated Data Collection Guide (reference to the table in the Data Collection Guide deleted).
Ethernet Port Fault	1/1543-CRA 119 1862/5 Uen F	Step 9 in section 2.1 "Analyzing the Alarm", step 1 in section 2.2 "Troubleshooting the Server", step 3 in section 2.3 "Troubleshooting the Switch" modified in sync with the automated Data Collection Guide (reference to the table in the Data Collection Guide deleted).
Ethernet Switch Port Fault	6/1543-CRA 119 1862/5 Uen E	Step 7 in section 2.1 "Actions" modified in sync with the automated Data Collection Guideline (reference to the table in the Data Collection Guideline deleted).
Expiring Certificate	2/1543-CRA 119 1864/5 Uen H	Updated section 2 "Procedure" and 2.1 "Replace NBI Certificate on vCIC". Updated section 2.2 "Replace NBI Certificate on Atlas" and added new step 10 for copying atlas.crt file. Added license management information and NeLS alarm document link.



Table 8 Operation and Maintenance/Fault Management/Alarms

Title	Identity	Change
Fan Failure	4/1543-CRA 119 1862/5 Uen D	Step 5 in section 2.1 "Actions" modified in sync with the automated Data Collection Guide (reference to the table in the Data Collection Guide deleted).
Fencing Failed	19/1543-CRA 119 1959/5 Uen F	Step 7 in section 2.1 "Actions" modified in sync with the automated Data Collection Guide (reference to the table in the Data Collection Guide deleted).
Fuel Failed	11/1543-CRA 119 1959/5 Uen C	Editorial changes.
Fuel Restarted	12/1543-CRA 119 1959/5 Uen C	Editorial change.  Step 1 in section 2.1 "Actions" modified in sync with the automated Data Collection Guide (reference to the table in the Data Collection Guide deleted).
High CPU Load	1/1543-CRA 119 1861/5 Uen G	Step 8 in section 2.2.1 "Procedure for Compute Nodes", and step 4 in section 2.2.2 "Procedure for vCIC Nodes" modified in sync with the automated Data Collection Guide (reference to the table in the Data Collection Guide deleted).
High Local Disk Utilization	3/1543-CRA 119 1861/5 Uen E	Added table note about alarm threshold in table 1 "Alarm Causes".  Step 5 in section 2 "Procedure" modified in sync with the automated Data Collection Guide (reference to the table in the Data Collection Guide deleted).
High Memory Utilization	2/1543-CRA 119 1861/5 Uen F	Step 11 in section 2.2.1 "Procedure for Compute Node" and step 1b in section 2.2.2 "Procedure for vCIC Node" modified in sync with the automated Data Collection Guide (reference to the table in the Data Collection Guide deleted). Sentence on collecting "sosreport" removed from sections 2.2.1 ("Procedure for Compute Node", step 12), and 2.2.2 ("Procedure for vCIC Node", step 13).
Module Failure	4/1543-CNA 403 3339/5 Uen B	Step 7 in section 2.1 "Actions" modified in sync with the automated Data Collection Guideline (reference to the table in the Data Collection Guideline deleted). References updated.
NeLS Server Communication Problem	1/1543-CRA 119 2261/5 Uen A	New document  New document for CEE 6.
NTP Authentication Failure	4/1543-CRA 119 1861/5 Uen C	Step 6 in section 2.1 "Actions for Solving the Alarm" modified in sync with the automated Data Collection Guideline (reference to the table in the Data Collection Guideline deleted).
NTP Stratum Level Failure	5/1543-CRA 119 1861/5 Uen C	Step 5 in section 2.1 "Actions for Solving the Alarm" modified in sync with the automated Data Collection Guideline (reference to the table in the Data Collection Guideline deleted).
NTP Upstream Server Failure	6/1543-CRA 119 1861/5 Uen C	Step 8 in section 2.1 "Actions for Solving the Alarm" modified in sync with the automated Data Collection Guideline (reference to the table in the Data Collection Guideline deleted).
Power Supply Failure	5/1543-CRA 119 1862/5 Uen D	Step 5 in section 2.1 "Actions" modified in sync with the automated Data Collection Guideline (reference to the table in the Data Collection Guideline deleted).
Remote File System Is Not Accessible	12/1543-CRA 119 1863/5 Uen A	New document  New document for CEE 6.
Service Permanently Stopped	2/1543-CSA 113 085/5 Uen D	Added sheriff in section 3 "Additional Information".
Service Stopped	1/1543-CSA 113 085/5 Uen C	Step 3 in section 2.2 "Actions" modified in sync with the automated Data Collection Guideline. Added sheriff process in section 3 "Additional Information".



Table 8 Operation and Maintenance/Fault Management/Alarms

Title	Identity	Change
SW RAID Array Degradation	20/1543-CRA 119 1959/5 Uen A	New document New document for CEE 6.
VM Evacuation Failed	5/1543-CRA 119 1959/5 Uen E	Step 5 in section 2.2 "Actions" modified in sync with the automated Data Collection Guideline (reference to the table in the Data Collection Guideline deleted).
VMs Restarted due to vSwitch Restart	7/1543-CRA 119 1861/5 Uen C	Step 1 in section 2.1 "Actions" modified in sync with the automated Data Collection Guideline (reference to the table in the Data Collection Guideline deleted).

Table 9 Operation and Maintenance/Configuration Management

Title	Identity	Change
Atlas Dashboard End User Guide	1/1553-CRA 119 1873/5 Uen L	Usage of "not supported" updated throughout the document. Updated Figures 5 "Nested HOT Application Container Upload", 12 "Scale out Data", 13 "Start Scale Out", 16 "Start Scale In", 30 "Flavors Window". Updated Section 5.8 "Export Application". A paragraph added to section 3 (GIU Description) on the use of KB/MB/GB.
Atlas Dashboard Administrator User Guide	2/1553-CRA 119 1873/5 Uen M	New section 'Instance States'. Updated figures 4 'Overview of the Compute Environment Screen', 5 'Active Alarms Screen' and 8 'Alarm and Alert History'. Updated sections 'View Available Hosts', 'Filter and Sort Available Hosts', 'View Active Alarms' and 'View Alarm and Alert History'. Usage of "not supported" updated throughout the document. Removed limitation: "For creating a subnet, IPv6 is not allowed". A paragraph on the use of KB/MB/GB inserted into section 2.
Atlas On Demand Use	2/1543-CRA 119 1873/5 Uen C	Note added to section 1 (Introduction) on the use of KB/MB/GB. Updated Data Image Size in Section 2.1.1 Atlas Minimum Configuration. Updated output of the command 'heat stack-list' in Section 2.2 'Check Application VM. Added note in step 4 and updated Atlas backup name in Section 2.3 "Create Backup".
Dell EMC ScaleIO Version 2.x User Guide	1/1553-CNA 403 3308/5 Uen B	Document updated to version 2.x.
Fault Management Configuration Guide	1/1553-CRA 119 1860/5 Uen D	Main command syntax updated in section 3.1 "Syntax". Note in section 3.1.1. "Optional Arguments" removed.



Table 9 Operation and Maintenance/Configuration Management

Title	Identity	Change
Runtime Configuration Guide	5/1553-CSA 113 085/5 Uen H	<p>Step 3 with bad links removed from all config.yaml update steplists, replaced with rephrased config.yaml validation step.</p> <p>CSS CPU reconfiguration added.</p> <p>css_mode changes</p> <p>Table 1 and Table 2 updated with auto configuration values for cinder drivers.</p> <p>Configure Connection to NeLS Server updated, steps to copy certs to vCICs added.</p> <p>NeLS cert info added as Appendix from NeLS Server Communication Problem OPI.</p> <p>Updated step 5 in section 4.1 "Change Legal Text in Multi-Server Deployment".</p> <p>Added step 2 and 3 for config validation in section 5 "Change GRUB Password".</p> <p>Section 7 Configure Cinder Backup added.</p> <p>Section 9: section renamed to "Configure license Management"; missing commands added; manual license copy step removed, steps updated.</p> <p>Removed information about hardcoded NeLS CA certificate from Section 10.1 "NeLS Certificates".</p>
Swift Store on ScaleIO Activation	1/1543-CNA 403 3308/5 Uen E	Section 3 "Check Available Capacity on ScaleIO": scli login command updated.
Swift Store on ScaleIO Expansion	2/1543-CNA 403 3308/5 Uen E	Section 3 "Check Available Capacity on ScaleIO": scli login updated in command.

Table 10 Operation and Maintenance/Security Management

Title	Identity	Change
Security User Guide	1/1553-CRA 119 1864/5 Uen L	Moved Cinder backup information from Cinder Backup document (2/1553-CRA 119 1863/5): Added Kerberos in section 2.3 "Protocols and Encryption". Added TLS in section 2.3 "Protocols and Encryption". Added licensing information: Updated figure 1 with licensing, added new section 3.1.6 "NeLS User Management", added sheriff user group in section 3.5 "Privileged Access". Added table for local and LDAP user groups in section 3.5 "Privileged Access". Added note about IPv6 listener implying IPv4 connectivity in section 9 "Services, Ports, and Protocols". Appendix added with section 11 "Command Descriptions". ScaleIO document references updated.
System Hardening Guideline	2/1553-CRA 119 1864/5 Uen H	Added AppArmor in new section 2.3 "Access Control". Added NeLS logs in section 3.2.6 "Location of Logs". Section 3.3.2.2 "Change Fuel Web GUI Certificate" step 4 updated. Added new section 3.3.9 "NeLS Access Control", added Configuration File Guide reference. Updated reference items "Cloud SDN Hardening Guideline". Added new section "Infrastructure Network Hardening for SDN TI"
CEE Hardening Checklist	1/153 11-CRA 119 1864/5 Uen F	Added NeLS access control in Table 1 "Assessment of Hardening Activities" and Table 2 "List of Hardening Activities".
Infrastructure Administrator Management Guide	3/1553-CRA 119 1864/5 Uen F	Reason added for no support of pwdSafeModify=TRUE in table "Password Policy Parameters and Default Values". ScaleIO document reference updated.
Dell EMC ScaleIO Version 2.x Security Configuration Guide	2/1553-CNA 403 3308/5 Uen B	Document updated to version 2.x.



Table 11 Operation and Maintenance/HW Management

Title	Identity	Change
Region Expansion	5/1543-CSA 113 125/5 Uen G	<p>New information:</p> <ul style="list-style-type: none"> <li>OVSDB Interface and Controller reconfiguration after HDS leaf cluster expansion added in new section and in section "Expansion of HDS-based Systems".</li> <li>Added step about <code>cd /opt/ecs-fuel-utils</code> in Section 2.2 "Executing Installation Command".</li> </ul> <p>Information updated:</p> <ul style="list-style-type: none"> <li>Note in Section 2.1.1 "Expansion of HDS-Based System" updated: L2 Interface changed to Ethernet Interface.</li> <li>Procedure for HDS leaf switch cluster expansion updated.</li> <li>Limitations and Workarounds reference updated.</li> <li>Removed CM-HA stop/start: Section 2.1 "Hardware Installation and Server Configuration" step 1, Section 2.2 "Executing Installation Command" step 8.</li> <li>Removed paragraph about CICs going into maintenance mode in Section 1.2.4 "Conditions and Limitations".</li> <li>Updating OVSDB controller removed.</li> </ul>
Region Scale-in	6/1543-CSA 113 125/5 Uen A	<p>New document</p> <p>New document for CEE 6.</p>
Server Replacement	4/1543-CSA 113 125/5 Uen G	<p>Note on expanding multiple nodes (contact next level of support) removed.</p> <p>Section 1.2.3 'Data': added information about SDN CLI password and Note about password change in Table 2 "Other Variables Used".</p> <p>Section 2.1 'Preparations for Server Removal': added note on repairing multiple faulty servers.</p> <p>Removed CM-HA stop/start: Section 2.1 "Preparations for Server Removal" step 3, Section 2.3 "Executing Installation Command" step 7.</p> <p>Replaced "Tight Integrated CEE" with "tightly integrated SDN" in steps 6 and 8 in Section 2.6 "Concluding Routine".</p> <p>Limitations and Workarounds reference updated.</p> <p>Note added in section 2.3 regarding vCIC host and new replacement repair procedure.</p>



Table 12 Operation and Maintenance/SW Management

Title	Identity	Change
Atlas Software Management Guide	7/1553-CRA 119 1873/5 Uen F	<p>Added parameters 'disable-heat' and 'periodic-backup' to Table 1 "Atlas Command and Parameters" in Section 2.1 "Atlas Command and Parameters".</p> <p>Updated examples:</p> <ul style="list-style-type: none"><li>• example 8 "Atlas Help" in Section 2.8 "Help"</li><li>• example 12 "Swift Download Backup" in Section 3.2 "Download Backup Files"</li><li>• example 13 "Swift List Backup" in Section 3.3 "List Backup Files"</li></ul> <p>Added new sections:</p> <ul style="list-style-type: none"><li>• 2.13 "Disable Atlas Heat"</li><li>• 2.14 "Periodic Backups"</li><li>• 2.14.1 "Enable Periodic Backups"</li><li>• 2.14.2 "Disable Periodic Backups"</li><li>• 2.14.3 "Configure Time Period to Take Periodic Backup"</li><li>• 2.14.4 "Change Periodic Backup Password"</li></ul> <p>Section 2.13 'Disable Atlas Heat': Added note on it only being supported during installation, and also replaced "not supported" with "not recommended".</p> <p>Updated section 2.2 'Create Backups' command.</p> <p>Updated Section 2.4 'Restore Backups' command and example.</p>
Atlas SW Upgrade	1/1543-CRA 119 1873/5 Uen H	<p>Note added to section 1 (Introduction) on the use of KB/MB/GB.</p> <p>Added L2 GW parameters to Section 3 "Upgrade Atlas SW" step 1. Added ENABLE_BACKUP and BACKUP_INTERVAL to Section 3 "Upgrade Atlas SW" step 4.</p>
Atlas Backup	3/1553-CRA 119 1873/5 Uen G	<p>Section 3 'Deleting Backup': updated deleting from Swift command.</p> <p>Note updated in Section 1 "Introduction".</p>
Atlas Restore	4/1553-CRA 119 1873/5 Uen G	<p>Section 2 'Downloading Backup files from Swift' Updated steps 4/b, 4/c and 5. Section 3 'Atlas Restore' updated examples.</p>
CEE Update and Rollback Guide	10/1553-CSA 113 085/5-V1 Uen B1	<p>New document</p> <p>New document for CEE 6.6.</p>
CEE 6.6 SW Update and Rollback	10/1553-CSA 113 085/5-V2 Uen B1	<p>New document</p> <p>New document for CEE 6.6.</p>
CEE Graceful Shutdown and Power-On	9/1553-CSA 113 085/5 Uen E	<p>Section 6 'Starting of Atlas VM' replaced command 'monit summary' with 'systemctl'.</p>
Disaster Recovery	8/1553-CSA 113 085/5 Uen E	<p>Support definitions updated.</p>
Fuel Synchronization	18/1543-CRA 119 1959/5 Uen G	<p>Support definitions updated. Example printouts updated. Section 'Create virsh Domain for Fuel VM on the Repaired Host': Updated step 6 to include all vCICs. Section 'Find Active and Standby Fuel Hosts': note updated to include identifying active Fuel. Editorial changes.</p>

Table 13 Operation and Maintenance/Health Check

Title	Identity	Change
Health Check Procedure	8/1543-AZE 102 01 Uen A	<p>New document</p> <p>New document for CEE 6.6 release.</p>





## 2.1.7 Interface

Table 14 Interface

Title	Identity	Change
Dell EMC ScaleIO Version 2.x CLI Reference Guide	1/190 77-CNA 403 3308/5 Uen B	Document updated to version 2.x.
Dell EMC ScaleIO Version 2.x Deployment Guide	1/1531-CNA 403 3308/5 Uen A	New document New document for CEE 6.
CEE CLI Guide	1/190 77-CSA 113 085/5 Uen D	Added '--name' to Mandatory Arguments in section 2 "ceescalein". Added cACDC.py and healthcheck.py. Added ceescalein command. Description and argument for 'expandcee' updated; vcic repair is only possible with host. Updated document references "Using the CLI" and "CSC Application Command List".
OpenStack Orchestration API in CEE	1/155 19-CRA 119 1873/5 Uen C	Section 1 'Introduction': Specified that OpenStack Orchestration is Newton. Example 1 'Delay Policy Template' Updated Ericsson::DelayPolicy to Ericsson::Heat::DelayPolicy. Table 2 'Ericsson::Neutron::Port Properties' Updated the list of properties.
Atlas OVFT API	4/155 19-CRA 119 1873/5 Uen D	Editorial changes.
Atlas OVF to HOT Mapping	6/155 19-CRA 119 1873/5 Uen G	Usage of "not supported" updated throughout the document. Section 3 'Heat Orchestration Template' updated heat_template_version to 2016-10-14. Section 4.1.9 'StartupSection Interpretation' and Section 6.8 'startupSection Details' updated to OS::Heat::TestResource. Section 6.6 'VirtualNetworkRouterInterfaceSection Details': added Example 2. A new note added to section 1 (Introduction) on the use of KB/MB/GB
Atlas CLI End User Guide	11/1553-CRA 119 1873/5 Uen F	Information on the limitations of using OS CLI from Atlas added to section "Introduction". Updated Example 40 'cApp Personalize Command for Adding Properties'. Note added to section 1 (Introduction) on the use of KB/MB/GB.
Fault Management Northbound API	8/155 19-CRA 119 1860/5 Uen H	Section 5.1 SNMP: Active Alarm List updated Section 5.1.2.2 "snmpwalk": Changed "not supported" to "not possible". Section 6 "Additional Information": Updated Figure 1 "Main System Components Sending Alarms and Alerts to FM" with LM alarm. Note on argument 'os-token' removed throughout document. Note in section "Optional Arguments" removed.
Audit and Security Logging	1/155 19-CRA 119 1864/5 Uen G	Added audittrail and sheriff logs in section 5.3 "Log Files Written by rsyslog". Added auditlog_remote in section 5.5 "Remote Logging". Added var/log/audittrail in section 5.6 "Audit Logging". Updated 'Logging' SDN document reference.



Table 14 Interface

Title	Identity	Change
OpenStack Compute API in CEE	1/155 19-CRA 119 1861/5 Uen L	Note on units of measurement added to sections "Introduction" and "Bandwidth Based Scheduling".  Section 4.1 'Limitations for Multi-Server Deployment': <ul style="list-style-type: none"><li>• updated 'multiple VMs are booted from volume in parallel' limitation</li><li>• added limitations on multiple VM boots failing</li><li>• added limitation about NUMA scheduling with PCI devices</li><li>• added limitation about RabbitMQ Mnesia core dumps</li><li>• added limitation about manually recovering VMs after failed evacuation</li></ul> Output example corrected in Section 4.2 "Limitations for Single Server Deployment".
OpenStack Networking API in CEE in Dell Multi-Server Deployment	11/155 19-CRA 119 1862/5 Uen A	New document  Removed "not supported" throughout the document.  Figure 1 in section 5.3.1 "Trunkport": explanatory part removed.
OpenStack Networking API in CEE in Single Server Deployment	12/155 19-CRA 119 1862/5 Uen A	New document  Removed the expression "not supported" throughout the document.
OpenStack Networking API in CEE in BSP Deployment	13/155 19-CRA 119 1862/5 Uen A	New document  Removed the expression "not supported" throughout the document.  Figure 1 in section 5.1.1 "Trunkport": explanatory part removed, as it was not necessary.
OpenStack Networking API in CEE with SDN	8/155 19-CRA 119 1862/5 Uen F	Updated reference item "RESTCONF Interfaces" to latest version.  Usage of "Not supported" statements revised throughout the document.  Section 4.1 Partly Supported Operations - Security Groups updated with trunk and support logic.  Section 4.1 Partly Supported Operations - Network Provider Extended Attributes (networks): flat configuration multi-segment and L2-GW limitation removed.  Section 5.1.1: Editorial changes.
OpenStack Networking API in CEE in HDS Deployment	10/155 19-CRA 119 1862/5 Uen C	Usage of "Not supported" statements revised throughout the document.  Figure 1 updated and replaced.  Section 5.1.1: VXLAN removed, editorial changes.
OpenStack Block Storage API in CEE	1/155 19-CRA 119 1863/5 Uen G	4.16 'Backup of OpenStack Block Storage Volume Not Supported' removed, as Cinder backup feature is introduced.  4.1.7 'Cinder Backup Storage Backend' limitation added.  4.1.8 'Parallel Backup and Restore of OpenStack Block Storage Volumes' limitation added.  Support definitions updated.
OpenStack Telemetry API in CEE	1/155 19-CRA 119 1860/5 Uen J	Updated SDN document reference.



## 2.2 Removed Documents

Table 15 Documents Removed from Library

Title	Identity	Comment
SW Installation in Single Server Deployment	8/1531-CSA 113 085/5-V1 Uen A	
SW Installation in Multi-Server Deployment	8/1531-CSA 113 085/5-V2 Uen A	
CEE SW Update and Rollback	1/1553-CRA 119 1866/5 Uen A	
Health Check Procedure	6/1543-AZE 102 01 Uen G	
OpenStack Networking API in CEE in Dell Multi-Server Deployment	7/155 19-CRA 119 1862/5-V1 Uen F	
OpenStack Networking API in CEE in Single Server Deployment	7/155 19-CRA 119 1862/5-V2 Uen F	
OpenStack Networking API in CEE in BSP Deployment	7/155 19-CRA 119 1862/5-V3 Uen F	