



# HPE Unified OSS Console

## Release Notes

Release 2.3.0

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# Notices

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# Preface

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## About this guide

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These Release Notes describe critical information related to the HPE Unified OSS Console product.

Please read this document before installing or using this Software

## Audience

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Here are some recommendations based on possible reader profiles:

- Administrator
- Operators
- Value Pack Designer
- Dashboards / Views Designer
- Integrator and Delivery teams
- Add-ons Developers

## Software Versions

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The term UNIX is used as a generic reference to the operating system, unless otherwise specified.

Product Version	Supported Operating systems
HPE Unified OSS Console V2.3	Red Hat Enterprise Linux Server release 6.5
	Red Hat Enterprise Linux Server release 7.2

**Table 1: Software Versions**

## Associated Documents

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The following documents contain useful reference information:

- HPE Unified OSS Console V2.3 – Installation Guide
- HPE Unified OSS Console V2.3 – User Guide
- HPE Unified OSS Console V2.3 – Development Guide
- HPE Unified OSS Console V2.3 – Integration Guide

## Support

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Please visit our HPE Software Support Online Web site at <https://softwaresupport.hp.com/>

For contact information, and details about HP and HPE Software products, services, and support.

The Software support area of the Software Web site includes the following:

- Downloadable documentation.
- Troubleshooting information.
- Patches and updates.
- Problem reporting.
- Training information.
- Support program information.

## Security Alert

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It is recommended to follow up the security alerts subscribing to dedicated newsletter. Do not forget that NodeJS, Apache CouchDB and Redis are pre-requisite not supported by HPE, and you are in charge of updating these products if needed. Many security web sites may help you, including:

- NodeJS: <https://nodejs.org/en/security/> and <http://blog.nodejs.org>
- NodeSecurity Project (<https://nodesecurity.io/> )
- Node.js Security Twitter: <https://twitter.com/nodesecurity>
- Google Group : <http://groups.google.com/group/nodejs-sec>
- Redis: <http://redis.io>



**NOTE:** Node JS (<http://nodejs.org> ), Apache CouchDB (<http://couchdb.apache.org> ) and Redis (<http://redis.io> ) are pre-requisite not supported by HPE.

Please go to official web sites for details, documentation, patches, updates, security alerts... it is strongly recommended to subscribe to Node Security news to monitor the security issues. If you cannot find the right package to install, please contact the support team that will help you.

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**IMPORTANT:** The customer is responsible for installing OS Security patches to secure the Unified OSS Console products. It is strongly recommended to subscribe to the Security Bulletins.

Please check the Security Guide chapter in the Installation and Configuration Guide.

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# Chapter 1

## What's new in V2.3?

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This new version integrates all the enhancements done in the V2.2.x versions and bring new many new features:

- **Support RHEL 6.5 and RHEL 7.2**
- **Support Microsoft EDGE** (Windows 10)
- **Support real-time notifications** (plugin, workspace, package, client, user, data...) and graphical effects (message, banner, toaster, alert, audible notifications...)
- **Security Enhancements** (X-Frame options, HTTP Strict Transport Security, cache control policy, limited privileges for each process, non-login user support, accountability)
- **Support private workspace**
- **Support Object Types / Operations** (synchronous or asynchronous)
- **Dynamic Package Update** per packages or per plugins
- **Platform Monitoring** (Identity provider, UOC servers, plugins, GUI database, Notification Server)
- **GUI Database recommendation and scripts** to ease:
  - **High Availability** (active-active, active-passive, replication...)
  - **Backup**
- **Migration script** to migrate the GUI database (V2.2.x -> V2.3)
- **API enhancements**
  - **Export CSV Data as a service** (REST API)
  - **Simple Health Check REST API** for UOC server or plugins (Load Balancer)
  - **Common Action Service API**
  - **Common Notification Service API**
  - **Support Advanced Filter tree** (Boolean operators AND / OR)
  - **JSON Schema** to describe all UOC objects
- **New widgets:**
  - **Widget Search**
  - **Widget Time Selector supports seconds**
  - **Widget Leaflet** (thresholds, clustering of markers, custom popup...)
  - **Widget Card** to summarize information (threshold support, custom tile...)
  - **Widget Meter** to display progress bar
  - **Widget Web Content** to manage web notes (WYSIWYG editor) in a widget
  - **Widget Donut**
  - **Widget Heat map** to summarize large set of data.
  - **Widget Tab** to provide dynamic tab management for widgets
  - **Widget Charts** – Support comparison of metrics on different periods of time
  - **Export CSV Manager** to manage on going export
  - **Widgets Notifications, Notifications Table, Notifications keywords**
  - **Widget Action supports toggle display**
  - **Widget Chat** to send receive message from other users.
  - **Form field supports toggle display**
  - **Form field supports data picker**

This version also enhance many enhancements on existing features:

- **Modern Technology Stack updated** (open sources upgrade, socket.io and redis)
- **Improved user experience:**
  - **Spinner** during loading time
  - **Show or hide Main menu bar** in user preferences
  - **Support slider view** in workspaces

- HPE pre-defined Template (notification center, notification slider...)
- Shortcuts to directly edit the slider, header, footer views from the workspace
- HPE Dark Theme enhancement
- Improved and homogeneous icons and color for status
- Dynamic Theme switch enhancement
- Configuration and initialization dialog boxes enhancement
- Style reworked for Widget Action Grid, Widget Action Menu, Widget Tab
- **Profile Management GUI enhancement**
- **Extends User/Platform preferences** to support tenant and/or roles conditional rules
- **Existing widgets enhancements:**
  - Automatic refresh at widget level
  - Support collapse or expand on any widget
  - Support Widget Charts in 3d (pie, donut, bars...)
  - Widget Charts – Use series as categories
  - Widget Charts – Support multiple type of charts on the same widget
  - Widget Table – Support conditional row color per criteria
  - Widget Action Grid manage its active selection
- **SDK Enhancements:**
  - Add-ons Development Guide
  - Add-ons Generators (plugin, widget, layout, menus, module...)
  - Widget Localization Inspector to troubleshoot L10N issues.
  - Widget Notifications Generator
- **Load Balancer** (recommendation for HA Proxy and NGINX)
- **Support of Apache CouchDB v1.6.1**

## Chapter 2 Getting Started

### 2.1 Hardware Requirements

#### 2.1.1 Unified Console Server

The table below lists the recommended hardware requirements for an UOC server installation. Recommended hardware is: **HP ProLiant BL465c or DL360p Gen8**

Appropriate sizing is of course subject to real volume of data, throughput and/or number of concurrent users. For an optimum sizing exercise, please contact the product manager.



**IMPORTANT:** The required Hardware will also be driven by the additional domain servers associated to the UOC Server.

Hardware	Recommended	Optimum
CPU	1x Intel® Xeon® E5-2640 2.5GHz/6-core	Needs sizing
RAM	16 GB	Needs sizing
Hard disk Size	100 GB	Needs sizing
Network	1x 10 Gbps Ethernet Ports on board/Dual Port FC HBA	Needs sizing

Figure 1: Hardware requirements for UOC V2.3 on Linux

#### 2.1.2 Client PC / Laptop Hardware Requirements

UOC is fully compliant with mobile device and provide responsive screens.

Requirements	Minimal	Recommended
CPU	2 cores	4 cores
RAM	1 GB	2 GB
WIFI	802.11b/g/n	802.11ac
Display Size	14"	24"

Figure 2: Hardware requirements for client PC

#### 2.1.3 Mobile Device Hardware Requirements

UOC is fully compliant with mobile device and provide responsive screens.

Requirements	Minimal	Recommended
CPU	2 cores	4 cores
RAM	1 GB	2 GB
WIFI	802.11b/g/n	802.11ac
Display Size	Any	Tablet 10"

Figure 3: Hardware requirements for mobile devices

## 2.2 Software Requirements

### 2.2.1 Supported Operating Systems

The HPE Unified Console software kit is targeted for Red Hat Enterprise Linux V6.5 and V7.2 (x86-64) only.

Operating system	Version
RedHat Enterprise Linux	6.5
RedHat Enterprise Linux	7.2

**Figure 4: Supported Operating Systems**

### 2.2.2 Supported Web Browsers

All modern Web Browser supporting HTML 5 / CSS 3 will be supported. The Unified Console have been especially validated on the following browsers:

Web Browser	Version	Web site
Microsoft Internet Explorer	11 or later	<a href="http://windows.microsoft.com/en-us/internet-explorer/download-ie">http://windows.microsoft.com/en-us/internet-explorer/download-ie</a>
Mozilla Firefox	V32 or later	<a href="https://www.mozilla.org/en-US/firefox">https://www.mozilla.org/en-US/firefox</a>
Google Chrome	V37 or later	<a href="https://www.google.com/chrome">https://www.google.com/chrome</a>
Microsoft Edge	V25 or later	<a href="https://www.microsoft.com/en-gb/windows/microsoft-edge">https://www.microsoft.com/en-gb/windows/microsoft-edge</a>

**Figure 5: Supported Web browsers**

## 2.3 Pre-requisites

HPE Unified Console requires pre-requisite installed and configured before installing the Unified Console kit. Please read the installation guide: Hardware and Software requirements

- **Node JS** v4.x (recommended is V4.60)
- **Apache CouchDB** v1.6.x (recommended for RHEL 6.5: V1.6.0, for RHEL 7.2: V1.6.1)
- **Redis** (optional). Required as a notification server only in case of multiple UOC instances deployment. (recommended for RHEL 6.5: V3.2.1, for RHEL 7.2: V3.2.4)

## 2.4 Start UOC

Using a web browser, you can start the Unified OSS Console with the following URL:

```
<Protocol>:<host>:<port>
```



**NOTE:** These parameter depends on the install and configuration done by the platform administrator. Protocol can be http or https (recommended)

Ex: <http://myhost.mydomain.com:3000>

The locale of the web browser will be detected and use for the UOC if this locale is available. If not, the platform preference set by an administrator will be used, and if non language are supported, English (En-us) will be used.



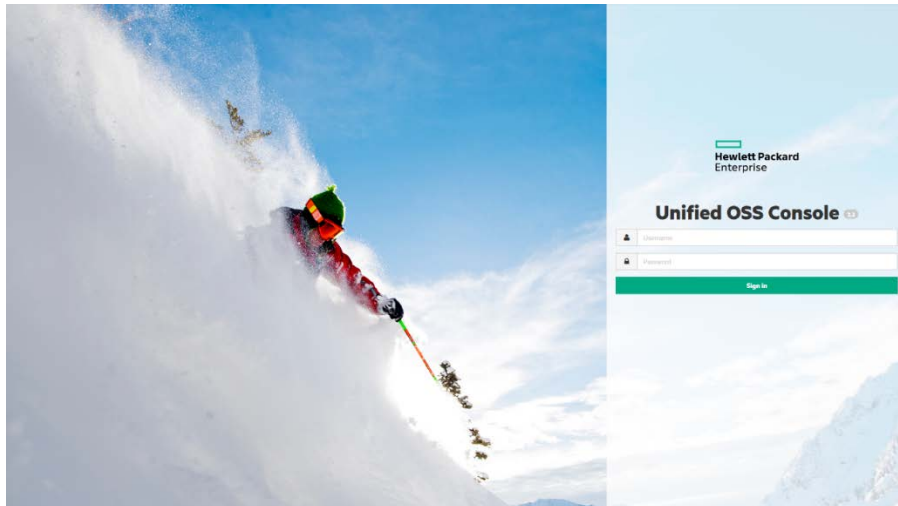
**NOTE:** Port 3000 is the default production setting and can be changed. Please refer to the installation and configuration guide to customize the UOC Server Protocol, port, and certificates



**NOTICE:** It is normal that the first time, it can take longer than usual to display the login. A lot of remote files will be cached for the next launch of the application. A spinner indicates the UOC is working

The first page is the authentication page. If you setup the authentication mode with SAML, your identity provider will display the login page.

If you used the built-in local authentication (without SSO support), you will have the internal login page.



**Figure 6 – Sign in page with the local authentication mode**

After entering the user name and your password, the user is authenticated and the UOC application uses the list of associated roles to customize the user interface with the appropriate rights.

## Chapter 3

# Fixed Problems

This section lists the customer's visible problems that have been fixed since the last release (V2.2.0).

Reference / Severity	Component	Description	Comment
806 Low	Widget Hpe-time-selector	TimeSelector - Date/Time selection with Start / From could be improved  Automatic synchronization between FROM / TO could be supported to ease the user experience	
818 Medium	Core / Startup	OSS Console can be slow the first time after installation.  Multiple http requests are done at startup to initialize all the dynamic libraries on the client side. These requests can below the startup of the web browser.	New configuration option are available to optimize the localization files at startup. Please refer to the Installation and Configuration Guide
948 Medium	Widget Hpe-ng-table	Widget hpe-table does not support localization. the "displayName" of a column cannot take a localization key	<i>Customize each column title with the right text if needed</i>
964 Medium	User Management (local)	User management page should be hidden in SAML mode	
1069 Medium	Installation / Security	JWT Token - passphrase should not be install by default with the same password	A passphrase is automatically generated at installation (only if the passphrase was not already set or customized).  This is a security to grant that all installation has a unique passphrase for encryption.
1088 High	Core	Changes in styles cause all navbar to be displayed in a fixed position on top of screen	CSS issue fixed.
1089 Medium	Core	UOC must manage inactivity timeout	The session inactivity timeout is customizable in the platform configuration file.
1097 Medium	Data Access Service	DataService should allow cross package filters when trying to apply only filters of widget selections	Widget Selection is able with an optional flag to support the multiple packages support when applying the data filter of widget selection  crossPackageFilters = true   false
1104 High	Core	user token can exceed max size of cookie (4K)	An add-on module can be used as callback to process these data and make sure the max size is valid.

Reference / Severity	Component	Description	Comment
1109 Medium	Core	handle special character for dimension filtering (&)	Characters have been escaped
1114 Medium	Widget Hpe-aggregation-table	Aggregation table and top table break the display of UOC when they are part of a view in the View Designer	
1115 Medium	OSSA Plugin	Query parameters escaping issue in ossa plugin	Characters have been escaped in the request sent to the OSSA Server
1117 Low	Core	Cannot change log levels	Fixed.
1123 Medium	Widget Hpe-action-grid	Widget Action Grid should manage the active selection	
1127 Medium	Core	Export CSV feature must use the locale date for filename generation	Fixed.  The filename uses the localized date time
1128 Medium	Workspace	Edit Workspace issue: setting a default and then unset it makes the workspace bug (404 http error code, even if the workspace still exist)	
1130 Medium	Widget Hpe-ng-map	hpe-map widget should refresh its data, not only based on filter (selection could be different), export new data selection, when click/drilldown especially if there is a data selection in the sub-map json configuration	
1131 Medium	Widget Hpe-ng-map	hpe-map widget should export widget selections when back operation is done, instead of exporting [] (empty array)	
1132 Medium	Core	Export CSV - CSV separator need to be customizable to support all the cases	Fixed.  Delimiter is comma but can be customized. All values are prefix and postfix by double quote.
1134 Medium	Core	Export CSV - Support formatter to display duration with value in seconds	Fixed.  A duration formatter is available
1135 Medium	Core	Export CSV - Support ability to export the table title instead of Fact Id in the file	
1136 Medium	Core	Export CSV – Make leading zeros option configurable	Fixed.  Extended duration formatter
1137 Medium	Core	Value Pack not displayed correctly (markup is broken)	

Reference / Severity	Component	Description	Comment
1143 Medium	Core	[hpe-ng-table] pagination control overlaps with the horizontal scroll bar in IE11	
1144 Medium	Core	Export CSV - Issue when dimension filter contains special characters &	
1146 Medium	Core	hpe-ng-table widget has trouble to toggle between id and display names	
1147 Medium	Core	[Export CSV] Show query parameters (from, to, granularity, filters...) in csv file	
1148 Medium	Core	Redefined lang part (e.g. "noData" message) in configuration of Highcharts widgets is ignored	
1170 Medium	Widget hpe-ng-table	Widget hpe-ng-table should keep its selected items	
1171 Medium	Widget hpe-web-content	Widget hpe-web-content does not handle correctly the 'restore' options in workspace	
1172 Medium	Core	Provide jointjs and dagre open sources in the UOC foundation to ease dependencies management	
1173 Low	Widget Charts	Compatibility fix to manage correctly the new format to define x-axis (list vs. object)	
1175 Low	Widget Hpe-search	Widget Search - Error on default value selected when the user navigates on different views	
1181 Medium	Widget hpe-ng-table	hpe-ng-table / hpe-notifications table - paginationPagesSizes add always the default values on top of customization	
1182 Medium	Security	Cannot change JWT signature algorithm	
1183 Medium	hpe-ng-table	Ng table does not listen time selector events	
1184 Low	Widget hpe-aggregation-table	Aggregation table does not listen to input parameters	
1195 High	Export	UOC - 'Export Report' function exports the default view, and not the modified view	Fixed.  Export all data has been enabled on the table for the client side pagination mode.
1196 High	Widgets	Regression: UOC 2.2.15: Top filter does not work for many widgets	Fixed.

Reference / Severity	Component	Description	Comment
			New versions of OSSA server have a new format for the "rank" column returned in case of "top" query. UOC now supports both old and new formats.
1198 Urgent	Export	export data in csv does not export filtered data	Fixed.  The open source on which the hpe-ng-table relies on could not support this, neither export data when sorting rules have been defined on columns.  An extension and fix of the open source is now used by the widget.
1199 High	Export	"export data in csv" disappear from drop down menu after a save	
1200 Medium	Web Browser	hpe-ng-table: export data to CSV is not working on Internet Explorer 10+	
1202 High	Security	Database ssl settings not taken into account	Fixed.  CouchDB can now be configured through UOC configuration file, in SSL mode.
1203 High	Export	Exclude hidden columns from export (server)	Fixed  Hidden columns of the hpe-ng-table are no longer part of the exported CSV (server)
1204 Medium	View Designer	Workspace designer removes slider view if the user edits the workspace through the workspace-manager page	
1205 Medium	Security	CATA: dbinit script should use the UOC configuration to get CouchDB user credentials	
1206 Medium	Security	CATA: Cookies should be sent over SSL	
1208 Medium	Widgets Heatmap	Heatmap widget does not support all options about the legends (show/hide...)	
1209 Medium	Security	CATA: Use X-Frame-Options header	New open source frameguard integrated
1210 Medium	Security	CATA: CATA: Use HTTP Strict Transport Policy	New open source hstp integrated
1213 Medium	Security	CATA: Add Cache-Control policy	

Reference / Severity	Component	Description	Comment
1216 Medium	Widget hpe-action	Action Widgets: Initialization popup, item permissions configuration does not work (wrong format)	
1225 Medium	Widget hpe-ng-table	Widget hpe-ng-table - Issue when Grid Footer option is enabled: last line of the table is hidden	Fixed.  Last row of the table is now displayed properly when gridFooter is enabled.
1228 Low	Widget hpe-heatmap	Issue on Heat Map chart of UOC, legend and data label are not getting hidden	
1229 Medium	Core	IoT - Add quick edit shortcut (edit footer view, edit header view, edit slider view as wks operation)	Fixed.  These shortcuts are now available in the dropdown part of the save button of workspaces (their access is restricted depending on the user roles/permissions and the workspace content)
1230 High	Core	Date format in pop-up form is in EPOC format	
1238 Medium	Notification Server	Publish subscribe service fails to initialize with TLS/SSL enabled	
1239 Low	Core	Language force in the URL (?=fr-fr) is not applied after login	Fixed.
1240 Low	Widget Hpe-heatmap	highcharts: heatmap datalabels are always displayed even if we disable them in the configuration	Fixed.  hpe-chart-heatmap legend can now be hidden by configuration.

Table 2: Fixed Problems

## Chapter 4

# Known Problems

This section lists problems discovered during the product test campaign and that still have to be fixed.

Reference / Severity	Component	Description	Solution/Suggested workaround
Medium 672	Chart Widgets	<p>Highcharts is unable to refresh properly chart configuration change in the case a property was deleted.</p> <p><b>How to reproduce:</b></p> <ul style="list-style-type: none"> <li>- choose a workspace with a basic hp-ng-highcharts line chart.</li> <li>- click on the configure widget button, and edit its title color (e.g. pink)</li> <li>- apply</li> <li>- click on the configure widget button again</li> <li>- click on "Reset" button in the bottom of the modal window</li> <li>- apply</li> <li>- the title color should be black, but is in fact pink</li> </ul>	<p>Force a refresh of the page to apply correctly the configuration changes if the issue occurs.</p> <p><i>Note: Bug from Highcharts graphical toolkit library</i></p>
760 Low	Widget Hpe-time-selector	<p>Time Selector - short date format does not work with Firefox.</p> <p>The selected date is not always the correct one</p>	<i>Use a different browser if you see such issue</i>
768 Low	Widget	<p>The export option does not allow the CSV export</p> <p>This issue exist only on Internet Explorer</p>	<i>Do not use Internet Explorer to enable this option</i>
777 Low	Widget Hpe-ng-table	Menu used to customize the column visibility / order /... does not overlap correctly the widget toolbar below when there is few result. It is only a graphical effect. The feature is fully functional.	
977 Medium	Widget Hpe-time-selector	TimeSelector - default date format is not driven by language	

Reference / Severity	Component	Description	Solution/Suggested workaround
1048 Medium	Authentication	Logout in SAML mode requires to login twice	
1176 Low	Widget hpe-ng-table	Widget ng-table: the column configuration is not set by default when the object type are used	
1212 Medium	Core	Support states for workspaces and views not fully functional	
1245 Medium	Core	The user can continue to navigate when the user is logout (but no data is displayed)	<p><i>In this case, you will not have access to a workspace but notice an empty workspace (rejected by uoc security)</i></p> <p><i>Workaround is to avoid multiple tabs in the same web browser linked to the same user session, or force a login to start from a fresh user session if happen.</i></p>

Table 3: Known Problems

## Chapter 5

# Known Limitations

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This section lists potential issue discovered during the product test campaign and seen as limitation and may not be fixed in the final kit.



**NOTE:** It is strongly recommended to remove or configure correctly **advertising blockers** from the web browser (AdBlock...). They can impact the loading of external modules like Highcharts graphical toolkit

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## 5.1 Lack of support for tooltip on mobile devices

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Attribute HTML title (widely used to display information as tooltips) is not very well supported by mobile web browser that do not expose this attribute in an accessible manner as required by the HTML5 specification. So, it may be not useful and not visible due to a lack of support (especially by touch devices).

See <http://www.w3.org/html/wg/drafts/html/master/dom.html#the-title-attribute>

As a limitation in Unified OSS Console, people can have different experience with user interfaces based on the web browser they are currently using and the pointing devices used (mouse, touch...). This is a limitation of current web browser implementation.