

# **OSS Analytics Foundation**

Release notes

Version 1.1.4

Edition 1.0 - December 2016



**Hewlett Packard**  
Enterprise

# Notices

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# Preface

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## About this guide

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This document presents the release notes of the HPE OSS Analytics Foundation software component.

Software component name: HPE OSS Analytics Foundation

Software component version: 1.1.4

Kit name: `ossa-server-1.1.4-MP.noarch.rpm`

Please read this document before installing or using this product.

## Audience

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This document is intended for solution architects, integrators administrators and users of HPE OSS Analytics Foundation.

## Software versions

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**The terms Unix and Linux are used as a generic reference to the operating system, unless otherwise specified. The software versions referred to in this document are as follows:**

**Table 1: Software versions**

Product version	Supported operating systems
HPE OSS Analytics Foundation version 1.1.4	Red Hat Enterprise Linux Server release 6.8
HPE Vertica version 7.2.3	Red Hat Enterprise Linux Server release 6.8

## Typographical Conventions

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*Courier* Font:

- Source code and examples of file contents.
- Commands that you enter on the screen.
- Pathnames
- Keyboard key names

*Italic* Text:

- Filenames, programs and parameters.
- The names of other documents referenced in this manual.

**Bold** Text:

- To introduce new terms and to emphasize important words.

## Associated Documents

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The following documents contain useful reference information:

*HPE OSS Analytics Foundation Installation, Configuration and Administration Guide*

*HPE OSS Analytics Foundation Integration Guide*

## Support

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Please visit our HPE Software Support Online Web site at <https://softwaresupport.hpe.com> for contact information, and details about HPE Software products, services, and support.

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

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

# Chapter 1

## Introduction

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The HPE OSS Analytics Foundation is part of the HPE OSS Analytics program. It provides a unified solution for external applications to access data and to perform analysis on data stored in data warehouses.

The HPE OSS Analytics Foundation is composed of:

- OSSA Server: a JEE application server (JBoss/Wildfly)
- A JEE application that can be deployed in the application server and provides the following functions:
  - Data Mart REST API
  - Batch system

## 1.1 OSSA Server introduction

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### 1.1.1 Data Mart REST API

The Data Mart REST API provides generic access to data warehouses.

The genericity of the Data Mart REST API comes from the usage of “metadata”.

Metadata allows one to describe the star schema for any set of database tables that implement a data mart. Concretely; the set of **Facts** and referenced **Dimensions** are described. Metadata can also specify the data aggregations available.

The possible aggregation types are:

- Pre-calculated
- On-the -fly

Once the metadata file is loaded into the OSSA Server, the server is able to reply to Dimensions-and-Facts client requests in order to perform multidimensional analysis.



**IMPORTANT:** HPE OSS Analytics Foundation does not provide any metadata instantiation. Please refer to your domain specific OSS Analytics solution documentation for domain specific metadata.

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### 1.1.2 Batch system

The Batch system aims at defining, scheduling, monitoring batch jobs.

What is a “batch job” in the context of OSS Analytics?

This is a process that generally handle and transform large amount of data, and for which you want an automatic and periodical execution.

The Batch system allows you to define your batch jobs based on some generic pre-defined but customizable tasks. Those tasks allow you to perform: loading of data to Vertica, SQL processing, summarization on data, or report generation and mailing.

For details about those tasks please refer to the *HPE OSS Analytics Foundation Integration guide*.

Then, the Batch system allows you to deploy, schedule and monitor your batch jobs.



**IMPORTANT:** HPE OSS Analytics Foundation does not provide any batch job instantiation. Please refer to your domain specific OSS Analytics solution documentation for domain specific batch jobs.

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# Chapter 2

## Installation, Configuration, and Administration

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Those sections describe the way to install the OSS Analytics Foundation.

Please refer to the first section if OSS Analytics Foundation has never been installed on your system; else, if you want to upgrade from a previous version please refer to the following sections.



**IMPORTANT:** In case of upgrade of OSS Analytics Foundation, you do not need to re-create the OSSA schema.

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### 2.1 First installation of OSS Analytics Foundation

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In case OSS Analytics Foundation has never been installed on your system, please refer to the *HPE OSS Analytics Foundation Installation, Configuration and Administration Guide* in order to understand how to install, configure, administrate, and troubleshoot the server.

### 2.2 Upgrade from OSSAF 1.1.3 to 1.1.4

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In case OSS Analytics Foundation 1.1.3 is already installed on your system and you want to upgrade to OSS Analytics Foundation 1.1.4, please follow those steps:

#### 1/ Stop OSS Analytics Foundation 1.1.3

As *ossa linux* user, execute:

```
$ source /opt/ossa/bin/ossa_env.sh
$ jbossstop
```

#### 2/ Uninstall OSS Analytics Foundation 1.1.3

As *root* user, execute:

```
# rpm -ev ossa-server-1.1.3-MP.noarch
```

#### 3/ Install OSS Analytics Foundation 1.1.4

```
# rpm -ivh ossa-server-1.1.4-MP.noarch.rpm
```

#### 4/ Modify your */opt/ossa/ossa.cfg* like this:

```
JBOSS_SERVER_OPTS="-Dossa.node.name=ossa-node-`hostname -s`-${JBOSS_HTTP_PORT} -
Dhibernate.dialect=com.hp.ossa.common.vertica.VerticaDialect7 -
Dossa.summ.vert.maxNbStmtsBeforeCommit=300"
```

#### 5/ Configure OSS Analytics Foundation 1.1.4

Open a new terminal as *ossa linux* user:

Source the new *ossa* environment:

```
$ source ${OSSA_HOME}/bin/ossa_env.sh
```



Then, reconfigure ossa:

```
$ ${OSSA_HOME}/bin/ossa_config.sh
```

If needed, please refer to the *HPE OSS Analytics Foundation Installation, Configuration and Administration Guide* for more details on uninstallation, installation and configuration.

## 2.3 Upgrade from OSSAF 1.1.2 to 1.1.3

In case OSS Analytics Foundation 1.1.2 is already installed on your system and you want to upgrade to OSS Analytics Foundation 1.1.3, please follow those steps:

### 1/ Stop OSS Analytics Foundation 1.1.2

As ossa linux user, execute:

```
$ source /opt/ossa/bin/ossa_env.sh
$ jbossstop
```

### 2/ Uninstall OSS Analytics Foundation 1.1.2

As root user, execute:

```
# rpm -ev ossa-server-1.1.2-MP.noarch
```

### 3/ Install OSS Analytics Foundation 1.1.3

```
# rpm -ivh ossa-server-1.1.3-MP.noarch.rpm
```

### 4/ Create new internal database tables:

As ossa linux user, in the terminal where you have sourced *ossa\_env.sh*, execute:

```
$ vsql -d ${OSSA_DB_NAME_01} -h ${OSSA_DB_HOST_01} -U ${OSSA_DB_USER_01} \
-w ${OSSA_DB_PASSWORD_01} -f ${OSSA_HOME}/ddl/ossa_schema_delta_113.sql
```

### 5/ Modify your */opt/ossa/ossa.cfg* by adding this line:

```
JBOSS_SERVER_OPTS="-Dossa.node.name=ossa-node-`hostname` -s`-${JBOSS_HTTP_PORT}`"
```

### 6/ Configure OSS Analytics Foundation 1.1.3

As ossa linux user, in the terminal where you have sourced *ossa\_env.sh*, execute:

```
$ ${OSSA_HOME}/bin/ossa_config.sh
```

If needed, please refer to the *HPE OSS Analytics Foundation Installation, Configuration and Administration Guide* for more details on uninstallation, installation and configuration.

## Chapter 3

# OSS Analytics Foundation 1.1.4 enhancements & CR fixes

## 3.1 Enhancements

The main enhancements provided by version 1.1.4 are the following:

- Two new batchlets added in the batchlets library in order to ease your data processing:
  - Transformation batchlet
  - SqlCDC batchlet
- Summarization batchlet **performance improvements**
- Rest API now supports access to a **generic / schema-less datamart**
- Rest API now supports *isnotnull, isnull conditional operators*
- **Json syntax validation** when loading your domain specific views, workspaces json files

Please refer to the *HPE OSS Analytics Integration Guide* for more details on these enhancements.

## 3.2 OSS Analytics Foundation 1.1.4 fixes

The main fixes provided by version 1.1.4 compared to version 1.1.3 are the following:

**Table 2: OSS Analytics Foundation 1.1.4 fixes**

Reference	Description of the problem	Status
CR#1133	BATCH: summarization: if src_maxHoursHandled parameter isn't provided, the first calculated CDC start will be a very large number, which makes no data loaded.	Fixed
CR#1149	When ssl is enabled, http must be inaccessible	Fixed
CR#1180	REST API: QueryGen: null values are ordered first in the result of a top X query (in a UOC chart using 'top', you might see fact null values displayed first)	Fixed
CR#1222	BATCH: summarization: bad performance when source table has billions of rows	Fixed
CR#1224	BATCH: summarization: hang when processing backlog of 80 million of alarms	Fixed

## Chapter 4

# Known problems and limitations

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This section lists problems discovered during the product test campaign which will be fixed in future versions.

**Table 3: Known problems**

Reference	Description	Suggested workaround
CR#969 Low	BATCH: ossa.run batchlet with command parameter and script parameter does not work	Do not use templated script but put the command directly in the <i>property name="command"</i> value
CR#1178 Low	BATCH: summarization: no errors raised in jboss server.log in case of permission denied on destination table	the relevant error can be found in vertica logs