Release Notes for Fabric Performance Monitoring, 1.1.0

These release notes document information about Oracle's Fabric Performance Monitoring application for Oracle's Fabric Manager GUI.

Additional release notes exist for:

- Oracle's Xsigo Windows host drivers
- Oracle's XgOS and Oracle's Fabric Director
- Oracle's Fabric Manager
- Oracle's Xsigo ESXi 5.0 host drivers
- Oracle's Xsigo Linux host drivers
- Oracle's Xsigo OVM host drivers

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Overview

Oracle's Fabric Performance Monitoring is a separately purchaseable application for Oracle's Fabric Manager GUI. When Fabric Performance Monitoring is installed, it gathers and displays historical (not live) information about host servers, Fabric Directors, and clouds in your data center. Fabric Performance Monitoring provides an easy-to-use and understand tool that enables you to:

- View I/O traffic across all servers

- Monitor both Ethernet and Fibre Channel traffic

- Select data granularity, from specific ports to entire servers

- Graph historical results over time-scales that range from minutes to months

Because Fabric Performance Monitoring is a separate application, it has few requirements of its own. Instead, its requirements are mostly determined by the requirements of the underlying version of Fabric Manager GUI. To have a complete picture of Performance Manger, use the Fabric Performance Monitoring documentation along with the Fabric Manger documentation.

Customers and partners are requested to send comments and report bugs to Xsigo by filing a customer case through the Xsigo Technical Support web portal (http://support.xsigo.com). Xsigo is fully committed to responding to all feedback regarding our product and greatly appreciates customer involvement. If you need to contact Xsigo Technical Support, you can facilitate your interaction with Technical Support by first gathering some troubleshooting information. See .

What's New in This Release

The following new features, enhancements, or behavior changes are in this release:

- Performance Monitoring has been updated with resource domain functionality. With this enhancement, the Performance Monitoring plug-in is now context-sensitive for individual domains you create instead of reporting for only one large domain. For information about the new functionality of Performance Monitoring, see the *Fabric Manager Performance Monitoring User Guide, Version 1.1.0*.

Note

This plug-in is not backward compatible, so be aware that if you downgrade Fabric Manager, or upgrade to a version of Fabric Manager lower than 4.1.0, this version of the plug-in will not work in the lower version of Fabric Manager software.

System Requirements

This section documents system requirements for Fabric Performance Monitoring. Because Fabric Performance Monitoring is an application that plugs in to Fabric Manager, the requirements for Fabric Manager must also be met.

Fabric Manager Requirements

For information about the requirements for Fabric Manager, see the release notes for the version of Fabric Manager that accompanied your Fabric Performance Monitoring software.

Fabric Performance Monitoring Requirements

To install and use Fabric Performance Monitoring, the following requirements must be met:

- Fabric Manager version 4.1.0 installed and collecting data in your environment.

  Fabric Performance Monitoring is supported on Fabric Manager 4.1.0, and it will not run on earlier versions of Fabric Manager. If you downgrade to an earlier version of Fabric Manager, and you want Fabric Performance Monitoring to work, you will need to uninstall Fabric Performance Monitoring 1.1.0, and install the version of Fabric Performance Monitoring that is supported on the earlier version of Fabric Manager.

![Note]
Note

- Fabric Performance Monitoring application package
- For Linux, Red Hat Enterprise Linux 5 update 4 or higher with no PostgreSQL database installed
- For Windows:
  — Windows Server 2008 32-bit or 64-bit, or Windows Server 2008 R2, with no PostgreSQL database installed.
  — Windows Server 2003 32-bit or 64-bit, with no PostgreSQL database installed.

![Note]
Note

For a fresh install of Linux (for example, form the distribution media), install the OS first, but do not install the PostgreSQL database. Then install PostgreSQL 9.1 from the Fabric Performance Monitoring tar ball. PostgreSQL 9.1 is packaged into the Fabric Performance Monitoring tar file, but is **not** installed as part of the PM installer. Follow the instructions in "Installing and Configuring Fabric Performance Monitoring" in the *Fabric Performance Monitoring User Guide* to correctly install the PostgreSQL database **before** running the Fabric Performance Monitoring installer.

- The PostgreSQL database version that is supplied with the Fabric Performance Monitoring in the tar file.

> **Note** If you have and existing Red Hat 5.x server (or are upgrading to Red Hat 5.x), and you already have PostgreSQL server installed, if the version PostgreSQL is not 9.1 or later, you must remove this "old" PostgreSQL database first, and then install the PostgreSQL 9.1 database that is shipped with the Performance Manger software.
>
> To delete the "old" PostgreSQL database, issue the **rpm -e** <postgres-name> command, then install the PostgreSQL 9.1 packaged from the PM tar ball, as described in "Installing and Configuring Fabric Performance Monitoring" in the *Fabric Performance Monitoring User Guide*.
>
> After installing PostgreSQL 9.1, you can install the Fabric Performance Monitoring software.

- Adobe Flash Player for Fusion Charts (Version 10.3.181.32 or later)

Browsers

Fabric Performance Monitoring has no specific browser requirements. Instead, it relies on the required browsers for Fabric Manager, which are given below for your reference:

- Mozilla® Firefox 2.0 and later, with all cumulative security updates
- Microsoft® Internet Explorer 7.0 and later, with all cumulative security updates. Any version of Internet Explorer less than 7.0 is not supported.
- For best results, Xsigo recommends a minimum screen resolution of 1280 x 900 DPI when using Fabric Manager 3.0.0 or later
- Javascript with cookies enabled

System Limitations and Restrictions

This section documents system limitations and restrictions for this release of Fabric Performance Monitoring.

Restarting the Fabric Manager Service Clears Slow-Loading or Empty Graphs

Very rarely graphs will take too long to load, or actually won't load in Internet Explorer. You can restart the Fabric Manager service to clear this issue and have graphs display in a timely manner.

```
service xms restart
```

After Fabric Performance Monitoring Install or Upgrade on Windows, Restart Fabric Manager Service

After Fabric Performance Monitoring is installed or upgraded on a Windows Fabric Manager Server, the Fabric Manager Service is stopped. Make sure to manually restart the Fabric Manager service after any upgrade or fresh install on a Windows server.

User Guides

User guides are available on CD for shipments to new customers, and by download from the Xsigo Technical Support site.

Xsigo Systems provides the following Fabric Director product documentation in PDF format:

- *Fabric Director Hardware and Host Drivers Installation Guide*
- *XgOS Software Upgrade Guide*
- *XgOS Command-Line User Guide*
- *XgOS Remote Booting Guide*
- *Fabric Accelerator Quick Start Guide*
- *Fabric Manager User's Guide*
- *XgOS vNIC Switching Configuration Guide*

You can download these manuals by going to the Xsigo Support page (www.xsigo.com/support) and clicking the "Documentation" tab on the toolbar at the top of the page. You will need a login and password before downloading the manuals. See page 7.

Documentation Additions And Erratum

The following text supplements the text in the *Fabric Performance Monitoring User Guide, Version 1.1.0*.

Documentation Erratum

The *Fabric Performance Monitoring User Guide* contains the following error.

Need to Download Either Windows Installer or Linux RPMs

The "Installation" chapter of the *Fabric Performance Monitoring User Guide* documents that a single TAR file is available for download. After downloading that file, you extract the archive and within it, two separate installation programs exist—the installer (`.exe` file) for Windows, or the package (`.rpm` file) for Linux.

This text is in error. The installation programs are not contained within a single downloadable TAR ball. Instead, each installation program is available for download. To obtain your Fabric Performance Monitoring software, you will need to choose the correct operating system type for your Fabric Performance Monitoring/Fabric Manager server, and download it:

- Choose the `.exe` file if Fabric Performance Monitoring will be running on a Windows Fabric Manager server
- Choose the `.rpm` file if Fabric Performance Monitoring will be running on a Linux Fabric Manager server

Documentation Addition

The following text is an addition to the existing Fabric Performance Monitoring documentation.

Upgrading or Installing the Latest Fabric Performance Monitoring Software is a Two-Step Process

If you are installing or upgrading to Fabric Performance Monitoring 1.1.0, the process has two steps involving installing the new software, and installing the Fabric Performance Monitoring application into Fabric Manager. Be aware that you

must explicitly install the plug in. Fabric Performance Monitoring is not available if you simply upgrade to the newest version.

Follow this procedure:

Step 1   Install the new version of Performance Manger by using either of the following methods:

- For Fabric Performance Monitoring on Linux, use the **rpm -Uvh** command
- For Fabric Performance Monitoring on Windows, run the installer program again. If a previous version exists, any detected files will be updated (not overwritten), so no data will be lost.

Step 2   When the new Fabric Performance Monitoring bits are installed (or updated), log in to Fabric Manager.

Step 3   Select *Apps->Application Manager* to display the Installed Applications Summary as shown in Figure 1

Figure 1 Installed Apps Summary in Fabric Manager

Step 4   Click xmsperfmgr to select it. This step activates the ***Upgrade App Already on Fabric Manager Server*** button.

Step 5   Select the correct option:

- To install, click the ***Add a New Application*** (+) and complete the dialog.
- To upgrade, click ***Upgrade App Already on Fabric Manager Server*** (as shown in Figure 1). When you click this button you are logged out of Fabric Manager.

Step 6   Log back into Fabric Manager. The new version of Fabric Performance Monitoring is now installed and ready for use.

Downloading Fabric Performance Monitoring Software

Fabric Performance Monitoring is distributed as separate files for Windows and Linux versions of the software:

- For Windows, you will use the executable file (for example, `install-xms-1.1.0-pm.exe`)
- For Linux, you will use the RPM package (for example, `xsigo-xms-pm-1.1.0_PM.rpm`)

Downloading Software

You can get software for this version of XgOS from Oracle's Software Delivery Cloud.

Oracle's Software Delivery Cloud

You can download this version of Fabric Performance Monitoring through Oracle's Software Delivery Cloud (also called "edelivery").

> **Note**
>
> To access the Oracle Software Delivery Cloud, you will first need to get a user account and password. To get a user account and password, please follow the instructions on https://edelivery.oracle.com which is the Oracle Software Delivery Cloud website.

Software is available through this method, but not documentation. For release notes for this release, see Getting Documentation.

To get the software:

Step 1 Point your browser to https://edelivery.oracle.com

Step 2 Log in with your account name and password.

Step 3 Accept the terms and conditions of usage (if prompted) and click *Continue* to display the Media Pack Search page as shown in Figure 2.

Figure 2 Searching for Oracle Virtual Networking Software

Step 4 From the *Select a Product Pack* dropdown menu, select Oracle Virtual Network.

Step 5 From the *Platform* dropdown menu, select any value. For Fabric Performance Monitoring software, the platform does not matter.

Step 6 Click *Go* to display the result of your search.

Step 7 On the resulting page, locate `Oracle Fabric Monitor - 1.1.0` and select either the Windows or Linux version (whichever is needed for your environment). Figure 3 shows the downloadable Fabric Performance Monitoring software for version 1.1.0.
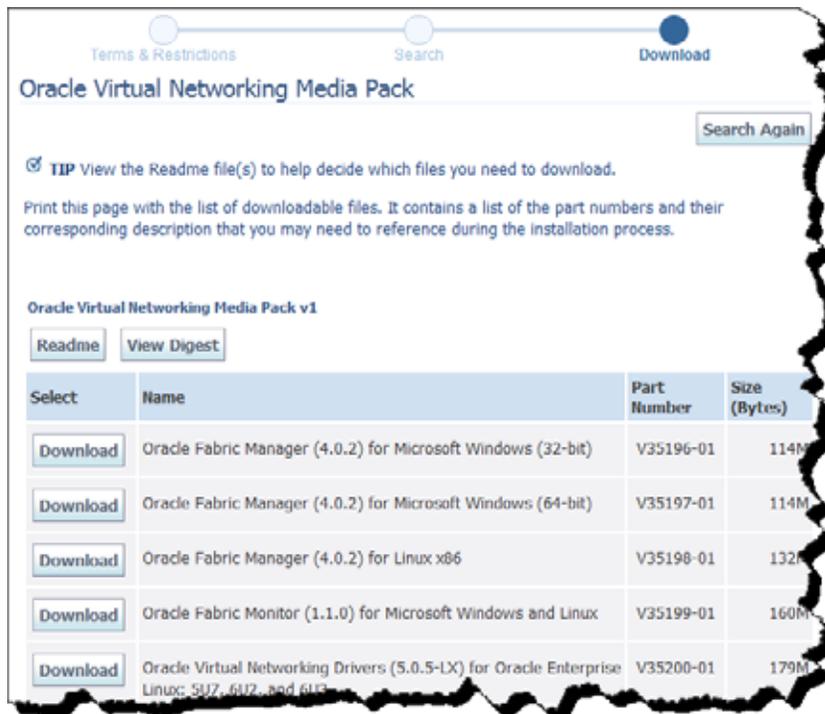
Figure 3 Oracle's eDelivery Cloud — Fabric Monitor Software

Step 8   Click the ***Download*** button to get the Fabric Performance Monitoring software. Download it to a network-accessible node in your network.

Step 9   Using file copy, SCP, or another file transfer protocol, copy the Fabric Monitor software from the network-accessible node to the Fabric Manager server(s).

Step 10 When the new Fabric Performance Monitoring software is on the Fabric Manager server(s), install it by running the **rpm -ivh** command (Linux), or double-clicking the setup.exe (Windows). Additional information can be found in the "Installation" chapter of the *Fabric Performance Monitoring User Guide, Release 1.1.0*.

Getting Documentation

Xsigo documentation for this release is on the Xsigo ServiceWorks website. If you are looking for software, you will need to download it by using the procedure documented in either of the previous sections.

To download documentation:

Step 1   Point your browser to http://www.xsigo.com/supportdlc/

Step 2   On the left navigation panel, click the *Oracle – Xsigo Product Documentation* link as shown in figure Figure 4.
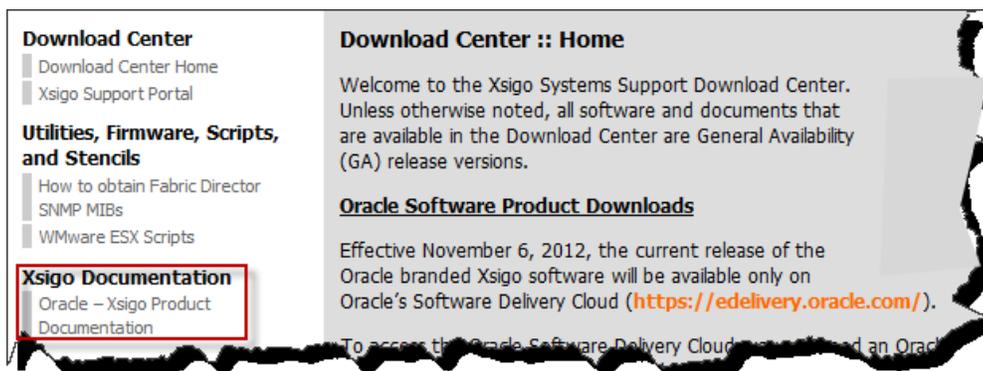

Figure 4 Getting Documentation for Software

Step 3   On the resulting page, scroll down to the *Release Notes* section.

Step 4   Find the documentation for this version of software, and click the link to display the PDF.

Known Issues

Table 1 shows the known issues in this release of Fabric Performance Monitoring.

Table 1   Known Problems in Fabric Performance Monitoring 1.1.0

Number	Description
23063	A problem in Fabric Performance Monitoring prevents getting historical data for a time period greater than approximately 4 weeks. At present, by picking a specific date range, you can get only 3 weeks of historical data.

Table 1   (continued) Known Problems in Fabric Performance Monitoring 1.1.0

Number	Description
21214	On Linux Fabric Manager servers, a very rare problem sometimes causes the user-mode bits on the `/tmp` directory get changed to `644`. As a result, when you install Fabric Performance Monitoring and need to initialize the PostgreSQL database and start the PostgreSQL server, you cannot. Instead, when you run the `/etc/init.d/postgres-9.1-openscg start` command, the following error occurs:

```
Configuring PostgreSQL server startup scripts
Starting PostgreSQL 9.1:
waiting for server to start........ stopped waiting
pg_ctl: could not start server
Examine the log output.
The PostgreSQL server start seems to have some problems, please see
logs for details.
```

You can work around this issue by using the following procedure:

Step 1   Log in to the Fabric Manager Server as root user.

Step 2   Make a temp directory:

`mkdir /tmp/tmp`

Step 3   Change directory to `/tmp/tmp`

Step 4   Set the mode bits on `/tmp/tmp` to 1777:

`chmod -R 1777 /tmp/tmp`

Step 5   Extract the bits into the `/tmp/tmp` directory.

Step 6   Restart the PostgreSQL database:

`/etc/init.d/postgres-9.1-openscg start`

Number	Description
21213	Fabric Performance Monitoring does not run correctly if multiple versions of the previous PostgreSQL database exist. Currently, the installer for Fabric Performance Monitoring does not check for an existing version of PostgreSQL database, so if PostgreSQL already exists on the Fabric Manager Server, and it is not the current version supported by Fabric Manager (PostgreSQL 9.1), you will need to uninstall the previous version of database (for example, 8.1), and upgrade to PostgreSQL 9.1.

The procedure for uninstalling the older database is out of the scope of this documentation, but should be available in the public domain through various web sites. After the old database is removed, you can install the new version of database by following the instructions in the "Installation" chapter of the *Fabric Performance Monitoring User Guide*. |

Fixed Problems

This version of Fabric Performance Monitoring contains the following fixes. Fabric Performance Monitoring also contains fixes from previous release of software. Such fixes are indicated in text.

Table 2   Known Problems in Fabric Performance Monitoring 1.1.0

Number	Description
21467	For the three Historical Throughput graphs on the Fabric Performance Monitoring Overview page, if you selected a one-hour time period and data was gathered for less than an hour, Fabric Performance Monitoring showed a smaller throughput value than it should have for that one-hour time period. This problem is fixed in Fabric Performance Monitoring release 1.1.0.
21392	When you installed Fabric Performance Monitoring on a Windows Fabric Manger Server, a problem caused the PostgreSQL user password to fail. The problem occurred because the PerfMgr.exe did not run an embedded script during installation. This problem is fixed in Fabric Performance Monitoring release 1.1.0.
21191	A problem sometimes caused the Fabric Manager server to take too long to respond to a request to display the Network Clouds page through the Fabric Performance Monitoring application. As a result, the request timed out, and the Fabric Performance Monitoring Network Clouds page was not displayed. This problem is fixed in Fabric Performance Monitoring release 1.0.2.
20687	Sometimes the text heading of graphs in Fabric Performance Monitoring overlapped to the point that you could not see individual datum for servers. This problem is fixed in Fabric Performance Monitoring release 1.0.2.
20469	After Fabric Performance Monitoring was gathering data for an extended period of time, a browser cookie error sometimes caused data to no longer load into the application, or after logging out of the application, the login and password fields were not displayed which prevented logging back into the application. Users were forced to clear the cookies in their browser. This problem is fixed in Fabric Performance Monitoring release 1.1.0.

Contacting Xsigo Systems Support

Xsigo is a wholly owned subsidiary of Oracle. Xsigo customers may contact support via the Xsigo website, telephone or e-mail. In order to expedite troubleshooting, all new support requests must be submitted via the Xsigo self-service portal at: http://support.xsigo.com. In addition to opening cases, the Xsigo Support Portal will allow you to update your support cases, download software, search for and view knowledge-base articles, and access technical documentation.

In order to access the customer support portal, you will need to have a Xsigo Support Portal login.   Your account team will provide you with the necessary login information to access the support portal. If you need additional logins for your staff, please contact your account team for assistance.

For all Critical (P1) cases, please call the Xsigo support center at **866-974-4647** (toll free) or **1 408-736-3013** (international). Alternatively, you can email supportP1@xsigo.com and you will be responded to within 30 minutes.

Gathering Information for Xsigo Technical Support

If the Oracle Fabric Manager Server encounters a problem, please gather the following information from the affected Fabric Manager Server(s) before contacting Xsigo Technical Support or filing a case through the support website:

- Information from the log files on the Linux Oracle Fabric Manager Sever, which reside in `/opt/xsigo/xms/logs`

- Information from the log files on the Windows Oracle Fabric Manager Server, which reside in `Program Files\Xsigo\XMS\logs`