Article

Service Assurance Suite

Release number 9.4

SolutionPack for Optical Wavelength Services Summary Sheet

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Overview

Learn how to install and configure the SolutionPack for Optical Wavelength Services. This SolutionPack discovers and monitors TMF864-compliant Element Management Systems.

Use this SolutionPack as one component of your Optical Transport Manager (OTM) deployment. Other components include

- EMC Smarts 9.4 Optical Transport WDM-NG domain manager
- EMC Smarts 9.4 Service Assurance Manager
- EMC M&R 6.5u1 with SolutionPack for EMC Smarts installed

Data flow among the OTM components
The SolutionPack for Optical Wavelength Services uses a Stream Collector (SC) to poll TMF 864-compliant Element Management Systems (EMS) at a configurable polling interval. The information that is collected is persisted in the EMC M&R database so that the EMC Smarts WDM-NG domain manager can retrieve the data and build topology based on the property information. The SC makes SOAP WebService requests to the EMS to retrieve the topology and extract information. First the authentication / login request is sent and then the security ID is extracted. This security ID (session ID) is sent as part of the SOAP envelope in all the subsequent calls.

Technical specifications

SolutionPack version
1.0

Compatible EMC M&R versions
6.5u1 and later

Supported Element Management Systems (EMS)
TMF864-compliant Element Management Systems such as Coriant Intelligent Node Manager SR 6.0 SP2

Data collection method

- Stream collector (for data parsing)
- Stream listener (for event processing)

Main reports
There are no reports associated with this SolutionPack. You must install the SolutionPack for EMC Smarts to view reports and topology associated with data collected from TMF 864-compliant Element Management Systems. View Topology maps under **Explore** › **Network** and Notifications under **Operations** › **Notifications**.

Where to find the latest SolutionPack software

Install the latest core software update for your product suite. SolutionPacks distributed with core software have a 30-day free evaluation period. If you plan to use the software longer than 30 days, you must install a SolutionPack license before the trial period ends.

This 30-day free evaluation only applies to new installations and is not available for upgraded installations. If you upgrade the core software and want to try a new SolutionPack, you must request a license for that SolutionPack by completing a Support

Request (SR) form, which is available on the EMC Online Support website at http://support.emc.com.

Installing a SolutionPack

After you log in as an administrator, you can install a SolutionPack from Centralized Management.

Before you begin

- Determine whether you need a SolutionPack license file by checking the feature names and expiration dates listed in **Centralized Management › License Management**. If not listed, obtain a license by completing a Support Request (SR) form, which is available on the EMC support website http://support.emc.com.
- Ensure the core modules, such as the Module-Manager, are up-to-date on all servers since not all module dependencies are validated during the SolutionPack installation. See the *EMC M&R (Watch4net) Installation and Configuration Guide* for more information.
- Obtain the login credentials and protocol information for the TMF864-compliant Element Management System(s)
- Ensure all software for your EMC Smarts Optical Transport Manager deployment is installed with services running.

Table 1 Software components required when collecting data from optical networks

Software component	Purpose
EMC Smarts Optical Transport Manager installed with WDM-NG domain manager service	Analyzes the events collected by the SolutionPack for Optical Wavelength Services and determines the root cause of problems occurring in the optical network.
EMC Smarts Service Assurance Manager installed with Notification Cache Publishing	Converts events to notifications and sends the root cause and impact to the SolutionPack for EMC Smarts.
SolutionPack for EMC Smarts	Provides reports showing notifications and topology collected from the optical network.

Procedure

1. Log in to the EMC M&R platform with your user name and password.
2. Select **Administration**.
3. Select **Centralized Management**.
4. Select **SOLUTIONPACK CENTER**.
5. Select the SolutionPack in the **Browse and Install SolutionPacks** screen.
6. Read the summary information and click **Install**.
7. Select the components to install.
   a. Review the default instance name and edit if needed.

      You may install more than one instance of the SolutionPack. Each instance name must be unique and connected to different Element Management Systems.

   b. Select the EMC M&R servers in one or more list boxes. For example, select the collector host in the **Data collection** and the backend host in the **Events** list boxes.

c. Click **Next**.

8. For each list box you select, a screen appears.

   a. Click **Next** after you complete each screen.

      Default RabbitMQ credentials are **`admin`** and **`changeme`** when using SAM with Notification Cache Publishing enabled.

   b. Click **Install** after you complete the last screen.

   The installation process begins.

9. Select the maximize arrow next to each component to view the installation process.

   When the installation successfully completes, green checkmarks appear.

10. Select **Centralized Management** › **SolutionPack** to verify the installed SolutionPack.

Troubleshooting

Viewing collector errors in the Collector-Manager log files

Review the Collector-Manager log files to troubleshoot problems with data collection.

Procedure

1. Click **Administration**.
2. Click **Centralized Management**.
3. Expand **Collecting**.
4. Click the Collector-Manager for your collector instance.

   Collector-Manager::*‹Collector-Manager instance›* - ‹*physical_host_ID*›

5. Expand **Log Files** and click the **View File** icon to review the configuration error messages.

Viewing event errors in the Event-Processing-Manager log files

Review the Event-Processing-Manager log files to troubleshoot problems with events.

Procedure

1. Click **Administration**.
2. Click **Centralized Management**.
3. Expand **Events**.
4. Click the Event-Processing-Manager for your event instance.

   Event-Processing-Manager::*‹Event-Processing-Manager instance›* - ‹*physical_host_ID*›

5. Expand **Log Files** and click the **View File** icon to review the configuration error messages.

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