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# EMC: VMAX PowerPack Release Notes

Version 101

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## Table of Contents

Overview .....	3
Before You Install or Upgrade .....	3
Installation and Upgrade Process .....	3
Included Features .....	4
Enhancements and Issues Addressed .....	4
Known Issues .....	5

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## Overview

Version 101 of the EMC: VMAX PowerPack adds the ability to discover and monitor VMAX storage groups (device masking groups), updates several Dynamic Applications, and adds Device Tier values to Device Classes.

- **Minimum Required Platform Version:** 8.2.0
- **Support Status:** GA

This document describes:

- [Pre-installation or pre-upgrade information](#)
- [The installation and upgrade process for the PowerPack](#)
- [The features included in version 101](#)
- [The enhancements and issues addressed in version 101](#)
- [The known issues that affect version 101](#)

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## Before You Install or Upgrade

Ensure that you are running version 8.2.0 or later of the ScienceLogic platform before installing the EMC: VMAX PowerPack version 101.

**NOTE:** For details on upgrading the ScienceLogic platform, see the appropriate ScienceLogic Release Notes.

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## Installation and Upgrade Process

To install the EMC: VMAX PowerPack for the first time or to upgrade from a previous version, perform the following steps:

**TIP:** By default, installing a new version of a PowerPack will overwrite all content in that PowerPack that has already been installed on the target system. You can use the **Enable Selective PowerPack Field Protection** setting in the **Behavior Settings** page (System > Settings > Behavior) to prevent local changes for some commonly customized fields from being overwritten.

**NOTE:** If you are currently using the Dynamic Applications in the EMC: VMAX PowerPack to monitor devices, collection errors might occur for one or two polling cycles during the installation of a new version. To prevent collection errors during an upgrade, you can optionally disable collection for monitored devices before performing the following steps and re-enable collection after the upgrade.

1. Familiarize yourself with the [Known Issues](#) for this release.
2. See the [Before You Install](#) section. If you have not done so already, upgrade your system to the 8.2.0 or later release.
3. Download version 101 of the *EMC: VMAX PowerPack* from the Customer Portal to a local computer.
4. Go to the **PowerPack Manager** page (System > Manage > PowerPacks). Click the **[Actions]** menu and choose *Import PowerPack*. When prompted, import version 101 of the PowerPack.
5. After importing the PowerPack, you will be prompted to install the PowerPack. Click the **Install** button to install the PowerPack.

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## Included Features

*EMC: VMAX PowerPack* version 101 includes the following features:

- Dynamic Applications to discover, model, and monitor performance metrics and collect configuration data for Dell EMC VMAX devices
- Device Classes for each type of VMAX device monitored
- Event Policies that are triggered when VMAX devices meet certain status criteria
- An example credential that you can use as a template to create a Basic/Snippet credential for connecting to VMAX devices

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## Enhancements and Issues Addressed

The following changes are included in version 101 of the *EMC: VMAX PowerPack*:

- The following Dynamic Applications were added to discover and monitor VMAX storage groups (device masking groups):
  - *EMC: VMAX Storage Group Discovery*
  - *EMC: VMAX Storage Group Stats*
  - *EMC: VMAX Storage Group LUN Config*
- A new "EMC: VMAX IO Ports Config" Dynamic Application was added to collect Fibre Channel and Ethernet port information.
- The following Dynamic Applications were updated to add collection labels to presentation objects:
  - *EMC: VMAX Array Capacity Stats*
  - *EMC: VMAX Array Stats*
  - *EMC: VMAX LUN Stats*
  - *EMC: VMAX Storage Pool Capacity Stats*

- The following Dynamic Applications were updated to add support for additional operational statuses:
  - EMC: VMAX LUN Configuration
  - EMC: VMAX LUN Discovery
  - EMC: VMAX Storage Pool Config
  - EMC: VMAX Storage Pool Discovery
- The "EMC: VMAX Statistics Cache" Dynamic Application was updated to improve exception handling and debug messaging.
- Device Tier values were added to the Device Classes in the PowerPack.
- An issue was addressed that was causing LUNs to change parent Storage Pools.

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## Known Issues

The following known issues affect version 101 of the *EMC: VMAXPowerPack*:

- A "BulkStatsNotSupportedError" error might periodically display for the "EMC: VMAX Statistics Cache" Dynamic Application. If this occurs, "CacheDatalsEmpty" errors might also display for the "EMC: VMAX Array Stats", "EMC: VMAX LUN Stats", and "EMC: VMAX Storage Group Stats" Dynamic Applications.
- When discovering a large number of component devices, the discovery process can cause the appearance of numerous critical events with the message, "Large backlog of asynchronous jobs detected".

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