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# Dell EMC: VMAX & PowerMax Unisphere API PowerPack Release Notes

Version 203

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## Overview

Version 203 of the "Dell EMC: VMAX and PowerMax Unisphere API" PowerPack updates the PowerPack for Guided Discovery and Python 3 compatibility.

- **Minimum Required SL1 Version:** 12.1.0
- **Minimum Required Version of Unisphere for VMAX:** 8.4

<i>Before You Install or Upgrade</i> .....	2
<i>Installation or Upgrade Process</i> .....	2
<i>Features</i> .....	3
<i>Enhancements and Issues Addressed</i> .....	4
<i>Known Issues</i> .....	4

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## Before You Install or Upgrade

Ensure that you are running version 12.1 or later of SL1 before installing the "Dell EMC: VMAX and PowerMax Unisphere API" PowerPack.

**NOTE:** For details on upgrading SL1, see the relevant [SL1 Platform Release Notes](#).

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## Installation or Upgrade Process

To install version 203 of the "Dell EMC: VMAX and PowerMax Unisphere API" PowerPack, perform the following steps:

**CAUTION:** You cannot upgrade to Version 203 of the "Dell EMC: VMAX and PowerMax Unisphere API" PowerPack from the *Dell EMC: VMAXPowerPack*. You must freshly install this version and run a new discovery session.

To install this PowerPack:

1. Familiarize yourself with the [Known Issues](#) for this release.
2. See the [Before You Install or Upgrade](#) section. If you have not done so already, upgrade your system to the 12.1 or later release.
3. Download the "Dell EMC: VMAX and PowerMax Unisphere API" version 203 PowerPack from the Support Site 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 "Dell EMC: VMAX and PowerMax Unisphere API" version 203.
5. Click the **[Install]** button. For details on installing PowerPacks, see the chapter on *Installing a PowerPack* in the **PowerPacks** manual.

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## Features

This release includes the following features:

- The following Dynamic Applications to monitor core storage for Dell EMC: VMAX and PowerMax using its native REST API:
  - Dell EMC: VMAX Unisphere Array Capacity Stats
  - Dell EMC: VMAX Unisphere Array Config
  - Dell EMC: VMAX Unisphere Array Discovery
  - Dell EMC: VMAX Unisphere Components Config
  - Dell EMC: VMAX Unisphere Front End Director Discovery
  - Dell EMC: VMAX Unisphere Front End Director Stats
  - Dell EMC: VMAX Unisphere Front End Port Stats
  - Dell EMC: VMAX Unisphere SLO Array Capacity Stats
  - Dell EMC: VMAX Unisphere SLO Array Discovery
  - Dell EMC: VMAX Unisphere SLO Components Config
  - Dell EMC: VMAX Unisphere SLO Storage Group Discovery
  - Dell EMC: VMAX Unisphere SLO Storage Group LUN Config
  - Dell EMC: VMAX Unisphere Storage Group Discovery
  - Dell EMC: VMAX Unisphere Storage Group LUN Config
  - Dell EMC: VMAX Unisphere Storage Group SLO Config
  - Dell EMC: VMAX Unisphere Storage Group Stats
  - Dell EMC: VMAX Unisphere Storage Pool Capacity Stats
  - Dell EMC: VMAX Unisphere Storage Pool Discovery
  - Dell EMC: VMAX Unisphere Storage Resource Pool Capacity Stats
  - Dell EMC: VMAX Unisphere Storage Resource Pool Discovery
- Device Classes for each type of VMAX and PowerMax device monitored
- Event Policies that are triggered when VMAX and PowerMax devices meet certain status criteria

- An example credential that you can use as a template to create a SOAP/XML credential for connecting to a Unisphere

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## Enhancements and Issues Addressed

The following enhancements and addressed issues are included in this release:

- Added the Guided Discovery Workflow to monitor your devices.
- Updated the PowerPack for Python 3 compatibility.
- Addressed an issue that prevented users from properly discovering Dell EMC: VMax devices. For more information, see the following Knowledge Base article <https://support.sciencelogic.com/s/article/16579>.

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## Known Issues

This release has no known issues.

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