FUJITSU Software

Infrastructure Manager Plug-in for VMware

vCenter Server 1.2



Setup Guide

For vCenter Server 6.5/6.7

CA92344-2592-01 August 2018

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Preface

Purpose

This Setup Guide describes the installation procedure, precautions on usage and information for FUJITSU Software Infrastructure Manager Plug-in for VMware vCenter Server 1.2 (hereafter referred to as "ISM Plug-in").

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- 1. Product Summary
- 2. Contents
- 3. Software Requirements
- 4. Installation Procedures
- 5. Folder Structure after Installation
- 6. <u>How to utilize ISM</u>
- 7. Uninstallation Procedure
- 8. Precautions
- 9. Latest Information

Intended Readers

This guide is designed for readers who have sufficient knowledge on hardware and software, such as system administrators, network administrators, facility administrators and related service providers.

Notation in this guide

Notation

Keyboard

Keystrokes with no printed characters are displayed by key icons, such as [Enter] or [F1]. For example, [Enter] means press key labeled [Enter].

Multiple lines

Thick multiple lines are ruled before the important information for each procedure as follows:

Point

Describes important information for each subject.

Note

Describes subjects where attention is necessary.

Variables: <xxx>

Represents variables that can be replaced by numerical values or text strings in accordance with the environment.

Example: <IP address>

Abbreviations

In this guide, the following abbreviations may be used.

Product Name	Abbreviation
FUJITSU Software Infrastructure Manager	ISM
FUJITSU Software Infrastructure Manager Plug-in for	ISM Plug-in
VMware vCenter Server	
VMware vCenter Server	vCenter

Terms

For the major terms and abbreviations used in this manual, see "Infrastructure Manager V2.3 Glossary."

High Risk Activity

The Customer acknowledges and agrees that the Product is designed, developed and manufactured as contemplated for general use, including without limitation, general office use, personal use, household use, and ordinary industrial use, but is not designed, developed and manufactured as contemplated for use accompanying fatal risks or dangers that, unless extremely high safety is secured, could lead directly to death, personal injury, severe physical damage or other loss (hereinafter "High Safety Required Use"), including without limitation, nuclear reaction control in nuclear facility, aircraft flight control, air traffic control, mass transport control, medical life support system, missile launch control in weapon system. The Customer shall not use the Product without securing the sufficient safety required for the High Safety Required Use. In addition, Fujitsu (or other affiliate's name) shall not be liable against the Customer and/or any third party for any claims or damages arising in connection with the High Safety Required Use of the Product.

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1. Product Summary

This plug-in software is designed to extend the user interface of VMware vCenter Server (hereafter referred to as "vCenter") to enable the use of the functions of FUJITSU Software Infrastructure Manager (hereafter referred to as "ISM") from vCenter console to integrate the infrastructure management. This plug-in software enables you to operate ISM directly from the vSphere Web Client.

2. Contents

This plug-in software is composed of the following five (5) files:

- ISMvCenter_INSTALL.exe
- Readme.txt
- Readme_en.txt
- Setup Guide (Japanese)
- Setup Guide (*this document)

3. Software Requirements

Applications that must be installed:

- FUJITSU Software Infrastructure Manager V2.0 and later
- VMware vCenter Server V6.5/6.7

Note

Because this plug-in does not support the HTML5 version, make sure to select the Flash version of vCenter6.5/6.7.

Minimum Browser Version Requirements:

- Microsoft Internet Explorer 11 or later
- * For the 3D view functions of ISM, you must install the latest version; 11.0.19 or later
- Mozilla Firefox 38 or later
- Google Chrome 43 or later

Please refer to the User's Manual of ISM for more information.

4. Installation Procedures

This section explains installation procedures of ISM Plug-in into vCenter.

Please execute the following four (5) steps:.

- 4.1 <u>Before installation</u>
- 4.2 <u>Execute the installation file</u>
- 4.3 Register the necessary information in ISM Plug-in
- 4.4 Import the SSL Server Certificates
- 4.5 How to use ISM Plug-in

4.1 Before installation

Note

- The version of OpenSSL in vCenter Server must be compatible with OpenSSL in ISM. Without compatibility, it does not work properly. Kindly check the version of vCenter Server before the installation. The versions of Open SLL must be version 1.0.x. Ex.) 1.0.1a,1.0.2a....etc
- Uninstall the ISM Plug-in (version 1.0) in advance if it is already applied in ISM.

4.2 Execute the install file

- 4.2.1 Double click [ISMvCenter_INSTALL.exe] and open the file.
- 4.2.2 Select language for the installation procedures.

FUJITSU	Software Infrastructure Manager Plug-in for vCenter S	×
ٹ	Select the language for the installation from the choices below.	
	English (United States)	~
	OK Cancel	

4.2.3 When the preparations are completed, the installation wizard is displayed. Click [Next].

J.	Welcome to the InstallShield Wizard for FUJITSU Software Infrastructure Manager Plug-in for vCenter Server The InstallShield(R) Wizard will install FUJITSU Software Infrastructure Manager Plug-in for vCenter Server on your computer. To continue, dick Next.
	WARNING: This program is protected by copyright law and international treaties.
	< Back Next > Cancel

4.2.4 The EULA is displayed. Read the contents and select [I accept the terms].

BUJITSU Software Infrastructure Manager Plug-in for vCenter Server - Ins	tallShield 🗙
License Agreement Please read the following license agreement carefully.	と
FUJITSU END USER SOFTWARE LICENSE AGREEMENT	^
For the purposes of this Fujitsu End User Software License Agreeme "Licensed Material" shall mean the software program ("Software") accompanying documentation, including "Read Me" file(s) contained Media ("Documentation"), which is identified on Exhibit A attached h The Software is copyrighted and owned by Fujitsu Limited or one of subsidiaries (collectively "Fujitsu") or a Fujitsu's licensor, and license sold to you ("you" or "You").	and the in the hereto. its ed, not
PLEASE READ THIS AGREEMENT CAREFULLY BEFORE USING	
 I accept the terms in the license agreement 	Print
\bigcirc I do not accept the terms in the license agreement	
InstallShield	
< Back Next >	Cancel

4.2.5 Specify the installation destination. To change the destination, click [Change].

🛃 FUJITSU Software Infrastructure Mar	ager Plug-in for vCenter Server -	InstallShield \times
Destination Folder Click Next to install to this folder, or clic	k Change to install to a different fold	der.
C:¥ISM vCenter Plugin¥	astructure Manager Plug-in for vCer	nter Server to: Change
InstallShield	< Back Next >	Cancel

4.2.6 $\,$ Specify the designated folder and click [Next].

😥 FUJITSU Software Infrastructure Manager Plug-in for	vCenter Server - InstallShield \times
Custom Setup Select the program features you want installed.	と
Click on an icon in the list below to change how a feature is in	nstalled. Feature Description
	This feature requires 0KB on your hard drive. It has 0 of 7 subfeatures selected. The subfeatures require 6256KB on your hard drive.
InstallShield	Next > Cancel

4.2.7	Click	[Install]	and	the	installation	starts	automatically.
-------	-------	-----------	-----	-----	--------------	--------	----------------

🖟 FUJITSU Software Infrastructure Mana	ager Plug-in for vCenter	Server - Instal	IShield $ imes$
Ready to Install the Program The wizard is ready to begin installation			と
Click Install to begin the installation.			
If you want to review or change any of exit the wizard.	your installation settings,	click Back. Click	Cancel to
InstallShield	< Back Ir	actall	Cancel
		nstall	Cancer

4.2.8 After the installation is completed, the message below is displayed. Click [Finish].



4.2.9 Restart the server OS where the ISM plug-in is installed.

4.3 Register the necessary information in ISM Plug-in

Register the necessary information in ISM Plug-in from command prompt.

4.3.1 Right click the Start menu and select [Command Prompt (Admin)].



4.3.2 Execute the following command.

<Install destination folder name>¥bin¥ismvCenterConfig.exe –a Example:



4.3.3 Follow the directions and enter the information below.

Welcome to the setup wizard for vCenter registration. Please enter the following information to register. Please enter a IP address or FQDN of vCenter Server : **<IP address or FQDN for vCenter>** Please enter a valid user name of vCenter Server : **<user name of vCenter>** Please enter a password for the user name : **<password of vCenter>** Registration completed successfully.

C:¥Windows¥system32>

Point

• Execute the following command to check the registered information.

<Install destination folder name>¥bin¥ismvCenterConfig.exe -I

Picked up JAVA_TOOL_OPTIONS: -Xms32M -Xmx128M

vCenter IP address or FQDN=<IP Address or FQDN for vCenter> Account=<

administrator@vsphere.local>

• To correct or replace the server information, delete the information using the following command. Then register the information again.

<Install destination folder name>¥bin¥ismvCenterConfig.exe -d <User name for vCenter>

Unregistration completed successfully.

• If ISM Plug-in is used among multiple vCenter users, register all the vCenter users planning to use ISM Plug-in by repeating procedure 4.3.3. If multiple users are registered, the information of vCenter Server is as follows.

```
<Install destination folder name>¥bin¥ismvCenterConfig.exe -I
Picked up JAVA_TOOL_OPTIONS: -Xms32M -Xmx128M
vCenter IP address or FQDN=<IP Address or FQDN for vCenter> Account=<
administrator@vsphere.local>
vCenter IP address or FQDN=<IP Address or FQDN for vCenter> Account=<
user1@vsphere.local>
vCenter IP address or FQDN=<IP Address or FQDN for vCenter> Account=<
user2@vsphere.local>
```

• When vCenter users without administrator privilege use ISM Plug-in, assign "Extension" permission to the users in vCenter. Refer to the product guides of VMware for more details.

4.3.4 Register the ISM server information in ISM Plug-in.



Point

• Execute the following command to check the registered information.

<Install destination folder name>¥bin¥ismServerConfig.exe -I

```
ISM IP address or FQDN=<192.168.1.100> ISM Port=<25566> ISM Account=<administrator>vCenter Account=<administrator@vsphere.local>
```

• To correct or replace the server information, delete the information using the following command. Then register the information again.

<Install destination folder name>¥bin¥ismServerConfig.exe -d <User name for ISM>
Unregistration completed successfully.

• If ISM Plug-in is used among multiple vCenter users, register all the vCenter users planning to use ISM Plug-in by repeating procedure 4.3.4. Create ISM users for each vCenter user you are planning to register, because an ISM user cannot be shared among multiple vCenter users. If multiple users are registered, the information of ISM Server is as follows.

```
<Install destination folder name>¥bin¥ismServerConfig.exe -I
Picked up JAVA_TOOL_OPTIONS: -Xms32M -Xmx128M
ISM IP address or FQDN=<192.168.1.100> ISM Port=<25566> ISM Account=<administrator>
vCenter Account=<administrator@vsphere.local>
ISM IP address or FQDN=<192.168.1.100> ISM Port=<25566> ISM Account=<ISMuser1>
vCenter Account=<user1@vsphere.local>
ISM IP address or FQDN=<192.168.1.100> ISM Port=<25566> ISM Account=<ISMuser2>
vCenter Account=<user1@vsphere.local>
```

4.4 Import the SSL Server Certificate

Import the SSL Server Certificate

Note

It is necessary to import the SSL Server Certificate in advance into the devices which should be connected to vCenter. **Without Certificate, an error message appears.

1. Prepare the SSL Server Certificate.

Point

• Prepare the SSL Server Certificate according to Chapter 4.7.1 "Deployment of SSL Server Certificates" in User's Manual of ISM.

Make sure to complete the certificate import on the intended devices.

- For the use of FireFox, refer to Chapter 2.1.1 "GUI" in User's Manual of ISM to complete the certificate import.
- 2. From the browser on the intended devices, select [Internet options] under [Settings].
- 3. Select [Contents] and click [Certificates].



4. Click [Import] and launch the import wizard.

с	ertificates	5				×
I	ntended p	urpose: <	All>			\sim
	Personal	Other People	Intermediate Certifi	cation Authorities	Trusted Root Certific	ation • •
	Issued	То	Issued By	Expiratio	Friendly Name	
	Import				A	dvanced
	Certificat	e intended purp	oses			
					V	įew
						Close

5. The import wizard appears. Click [Next].

4 .B	Certificate Import Wizard
	Welcome to the Certificate Import Wizard
	This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your datic to a certificate store.
	A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network corrections. A certificate store is the system area where certificates are kept.
	To continue, dick Next.

6. Select the downloaded file.

Erowen
stored in a single file in the following formats:
#12 (.PFx, .P12)
lard-PKCS #7 Certificates (.P78)
(.557)

- 7. Click [Next].
- 8. Check the [Place all certificates in the following store] box and click [Browse].

IF Certi	ficate Import Wizard		
Certific	cate Store		
Ce	rtificate stores are system an	nas where certificates a	ve loept.
Wi the	e certificate.		you can specify a location for
	O Automatically select the o		the type of certificate
	Flace all certificates in the	e following store	
	Certificate store:		1.1000000000000000000000000000000000000
	Personal		Browsen

9. Select [Trusted Root Certification Authorities] and click [OK].

Select Certificate Store	\times
Select the <u>c</u> ertificate store you want to use.	
Personal	^
Trusted Root Certification Authorities	
Enterprise Trust Intermediate Certification Authorities	
Active Directory User Object	•
< >	
Show physical stores	
OK Cancel	

- 10. Click [Next].
- 11. Click [Finish].

	ertificate Import Wizard
The certificate will be importe	nd after you click Pinish.
You have specified the follow	
Certificate Shore Selected I Content Pile Name	Certificate Certificate Cr\Lisers\operator_\Desktop\ca.crt.txt
Pile Name	Cillsenilpperator_Desktopics.ort.txt

12. Click [Yes] on the security alert dialog.

Security V	Varning	\times
	You are about to install a certificate from a certification authority (CA) claiming to represent:	
	ISM test CA	
	Windows cannot validate that the certificate is actually from "ISM test CA". You should confirm its origin by contacting "ISM test CA". The following number will assist you in this process:	
	Thumbprint (sha1): 85C89BB1 3B23E34B C847C4F3 45C66044 9A710E04	
	Warning: If you install this root certificate, Windows will automatically trust any certificate issued by this CA. Installing a certificate with an unconfirmed thumbprint is a security risk. If you click "Yes" you acknowledge this risk.	
	Do you want to install this certificate?	
	Yes No	

13. The message [The import was successful] appears. Click [OK] to close the dialog box.

Certificate Import Wizard	\times
The import was successful.	
ОК	

14. Login to ISM and confirm that there are no errors.

4.5 How to use ISM Plug-in

How to use ISM Plug-in

- 1. Start vSphere Web Client from your device.
- 2. Click [Hosts and Clusters], or select <designated node> under [Datacenter].

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3. Click the [Monitor] tab and select [Infrastructure Manager].

- If the SSL server certificate is not set on the browser correctly, the following error screen is displayed. Set the SSL server certificate correctly beforehand referring to <u>4.4 Import the SSL Server Certificate</u>.
- Depending on your using internet browser, the ISM login page may not be displayed correctly due to security settings. Please try the following procedures and logging in to ISM again:

(Example: Microsoft Internet Explorer)

[Internet Options] – [Security] – [Local intranet] – [Sites] – [Advanced] - Add the ISM's URL

 If the message below is displayed on "Infrastructure Manager" tab or nothing is displayed on the "Monitor" tab, the setting of ISM Plug-in may be wrong. Reconfigure referring to <u>4.3 Register the necessary information in ISM Plug-in</u>.

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4. After logging in, the following information is displayed according to the object:

- For the registered node in ISM: Node Information

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and a			Ξ			
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and a			Ξ			
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			E	Notices inter-tr t-to(N)		
			=	Notices inter-tr t-to(N)		
				Notices inter-tr t-to(N)		

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For the unregistered node in ISM/ the datacenter or cluster: Node List

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	and a second			
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If the ISM system guide dialog appears, scroll down to the bottom right and click [Close]. Change the settings from [Help]-[System Guide] in ISM.



5. Folder Structure after Installation

The following is the folder structure after installation.



6. How to utilize ISM

Please refer to the User's Manual of ISM for how to utilize each function of ISM.

7. Uninstallation Procedures

Go to the control panel and find "Infrastructure Manager Plug-in for VMware vCenter Server" from "Program and Features". Right click and select "Uninstall." Restart the server OS where the ISM plug-in is deleted.

8. Precautions

- 8.1 NOTE: To use ISM Plug-in, purchase and installation of ISM is required. Without installing ISM, this plug-in does not work properly. Refer to the ISM User's Manual for more details.
- 8.2 NOTE: To use ISM Plug-in, purchase and installation of vCenter is required. Without installing vCenter, this plug-in does not work properly. Refer to the product guides of VMware for more details.

9. Latest Information

For the latest information about ISM and ISM Plug-in, please contact your local support.

http://www.fujitsu.com/jp/products/software/infrastructure-software/infrastructure-software/infrastructure-software/ism/