



Cisco IAC 3.1.1 Test Report for Japanese

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Cisco IAC System Testing

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- [Cisco IAC 3.1.1 Components, page 1](#)
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Overview

This program validates and tests the Cisco Intelligent Automation for Cloud (Cisco IAC) solution on the Japanese environment.

This program addresses the needs of the Japanese customers on Cisco IAC solutions. Our testing mainly focuses on identifying the issues and the areas of enhancement on Cisco IAC solutions for the Japanese environment.

Cisco IAC 3.1.1 Components

Component Name	Version
Cisco Service Portal (CP)	9.4.1
Cisco Process Orchestrator (CPO)	2.3.5
Cisco Server Provisioner (CSP)	6.4

The preceding table lists the major components involved in Cisco IAC 3.1.1 System Testing. The following Sections give an overview of each IAC component.

Cisco Service Portal

Cisco Service Portal is a unified self-service IT portal that facilitates on-demand provisioning for private or Hybrid cloud computing.

In most IT organizations, the process for data center application and infrastructure service requests is complex and expensive. Each request is often treated as a separate project, requiring approvals and exceptions. The

result is a time-consuming and inefficient series of manual steps, involving requirements validation and architecture reviews.

With Cisco Service Portal, application and infrastructure requests can be processed in hours or even minutes, instead of weeks. The greater transparency and control help users to track and manage the lifecycle of a service, from initial request to decommissioning. The user gets greater agility, speed, and efficiency for a next-generation data center.

Cisco Process Orchestrator

Cisco Process Orchestrator is fundamentally an automation engine that advances processes that you build on it based upon IT process automation needs. User can develop automation workflows quickly because user can add automation content and adapters that provide best-practices process flows for various IT technologies.

Cisco Server Provisioner

Cisco Server Provisioner is software that automatically installs operating environments for physical and virtual servers and blades, a process known as bare metal provisioning. The Provisioner fits within the broader Cisco Intelligent Automation for Cloud offering.

Cisco IAC-J Testing Strategy

Cisco IAC-J Team will be validating the functionality of IAC components on Japanese Environments by installing the components on JOS base systems and integrating UCS Manager and Vcenter, etc.,

- Installation and Integration of IAC components on Japanese Environment
- Verifying Japanese locale on Cisco service portal
- Commissioning and de-commissioning the JOS Virtual and Physical servers
- Commissioning and de-commissioning the VDC's with Japanese Vcenter
- Integrating LDAP with CP 9.4.1 and verifying LDAP users can able to order for virtual or Physical server.
- Uncovering Japanese Environment Issues
- Reporting Issues to BU and getting it fixed in the upcoming release

This report is meant for the customers who are deploying the Cisco IAC 3.1.1 solution on Japanese Environment.

This report includes the Japanese specific issues in Cisco IAC 3.1.1

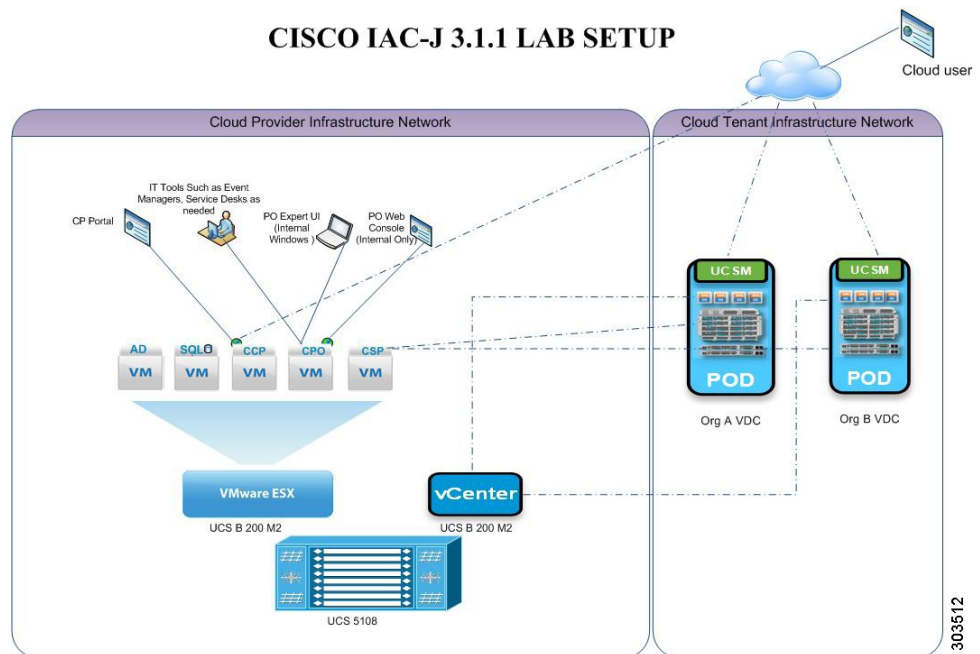


Test Topology and Environment Matrix

- [Test Topology, page 3](#)
- [Environment Matrix, page 4](#)

Test Topology

Figure 1: Topology In Use



Environment Matrix

Component	Server	ETSG Test Setup Details
Application Server OS Details	Cisco Process Orchestrator (CPO)	Microsoft Windows Server 2008 R2 SP1 (64 bit) (Japanese)
	Cisco Cloud Portal (CP)	Microsoft Windows Server 2008 R2 SP1 (64 bit) (Japanese)
	Cisco Server Provisioner (CSP)	Cent OS 5.8
Application Server Framework	Cisco Process Orchestrator (CPO)	NET Framework 4.0
	Cisco Cloud Portal (CP)	VMware vSphere Power CLI 5.0 Jboss 7.1.1 Final
Application Software	Cisco Process Orchestrator (CPO)	CPO 2.3.5
	Cisco Cloud Portal (CP)	9.4.1
	Cisco Server Provisioner (CSP)	6.4
LDAP Server	Cisco Process Orchestrator (CPO)	Microsoft Windows Server 2008 R2 SP1 (64 bit) (Japanese)
	Cisco Cloud Portal (CP)	Microsoft Windows Server 2008 R2 SP1 (64 bit) (Japanese)
Web Server	Cisco Process Orchestrator (CPO)	Microsoft Internet Information Services (IIS) 7.0 with 6.1 Compatibility
	Cisco Cloud Portal (CP)	Microsoft Internet Information Services (IIS) 7.5
Database	Cisco Process Orchestrator (CPO)	Microsoft SQL Server 2008 R2 SP1 Enterprise (Japanese)
	Cisco Cloud Portal (CP)	Microsoft SQL Server 2008 R2 SP1 Enterprise (Japanese)
Web Browser	Cisco Process Orchestrator (CPO)	Microsoft Internet Explorer® 6 or higher
		Mozilla Firefox 3.5x or 3.6x
	Cisco Cloud Portal (CP)	Mozilla Firefox 3.5x or 3.6x
		Microsoft Internet Explorer 8 or 9
Cisco Server Provisioner (CSP)	Mozilla Firefox 3.5x or 3.6x (recommended)	
Virtualization	Hypervisor	ESXi 5.0
	Hypervisor Manager	VMware vCenter / vSphere 5.1

Component	Server	ETSG Test Setup Details
Server Provisioning	UCS Manager Version	2.1(1a)
	Provisioning Blades Used	B200 M2
Java SE Runtime Environment	Cisco Process Orchestrator (CPO)	64-bit JRE 6 Update 1.6



Test Coverage and Features Tested

- [Cisco IAC-J 3.1.1 Test Coverage](#) , page 7
- [Feature Tested](#), page 7

Cisco IAC-J 3.1.1 Test Coverage

Cisco IAC Starter Edition 3.1.1	Test Coverage
Cisco IAC Components Validation on JOS	This test mainly covers the installation / integration of components in Cisco IAC 3.1.1. release and supported Process / operation validation on JOS.
Commissioning/De-Commissioning Virtual/Physical Server	This test covers the end-to-end solution test on Provisioning JOS in both Baremetal and VM for all supported OS.
Commissioning /De-Commissioning Virtual server in Vcenter Data store Cluster.	This test covers the Virtual server provisioning on Japanese Vcenter Data store Cluster.
Commissioning/De-Commissioning VDC	This test covers the end-to-end solution test on Provisioning VDC's with Japanese Vcenter.
Commissioning/De-Commissioning Hypervisor	This test covers the ESXi 5.0 & 5.1 Provisioning
Validating Upgrade of Cisco IAC Components	This test covers upgrading of the Cisco IAC components.
Integrating LDAP (Japanese) with Cisco Service Portal	This test covers the functionality of Cisco IAC 3.1.1with Japanese Active Directory users.

Feature Tested

Following are key features are tested on this execution:

Managing the Cloud System:

- Managing Resources
- Managing Virtual Machines
- Managing Virtual Data Centers
- Modifying the Shared Server Zone
- Managing Power on Physical Servers
- Managing Cisco UCS Blades and Blade Pools
- Managing Networks
- Managing Server Templates
- Modifying Email Notification Templates
- Managing Authorization and Review Escalation
- Setting Return Email Address

Managing Organizations and Users:

- Managing Organizations and Users With Directory Integration
- Managing Organizations
- Creating and Managing Users
- Managing User Roles
- Changing the nsAPI User Account Username and Password

Ordering Cloud Services:

- Commissioning a Virtual Machine and Installing an Operating System
- Commissioning a Virtual Machine from a Template
- Decommissioning a Virtual Machine
- Commissioning a Physical Server
- Decommissioning a Physical Server
- Creating a Virtual Data Center
- Approvals for Create Virtual Data Center
- Decommissioning a Virtual Data Center

Managing Services

- Managing Approval Requests
- Viewing Service Requisitions
- Adding, Modifying, or Deleting Standards for Service Options

- Managing Server Leases
- Handling Infrastructure Errors

Customer used case scenarios

- Modifying the CPO process for Custom OS
- Creating users in CP and importing users from AD
- Verify the AD users can order Virtual and Physical server
- Custom OS standards
- Custom Server Size
- Custom Lease Terms
- Authorization and Order on Behalf
- Single sign on
- Upgrades IAC components



CHAPTER

4

Cisco IAC-J 3.1.1 Test results

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Cisco IAC-J 3.1.1 Test results

Commissioning a Virtual Server from VM template:

OS	Japanese OS Version	Validation on CISCO IAC-J 3.1.1	Test Results	Remark
Windows Server	Windows 2008 R2(64 bit)	Yes	Pass	
Windows Client	Windows 7	Yes	Pass	
Linux	RHEL 5.6,6.1	Yes	Pass	
Ubuntu 10.4	Yes	Pass	Pass	
Cent OS 5.8	Yes	Pass	Pass	

Commissioning a Virtual/Physical Server and install an OS:

OS	Japanese OS Version	Validation on Cisco IAC-J 3.1.1	Test result	Remark
Windows Server	Windows 2008 R2(64 bit)	Yes	Passed	Refer Workaround to Provision Windows 2008 Server JOS using CSP
Linux	RHEL 5.6,6.1	Yes	Passed with WA	Refer Workaround
	Cent OS 5.8	Yes	Passed with WA	Refer Workaround
	Suse 11	Yes	Passed with WA	Refer Workaround

OS	Japanese OS Version	Validation on Cisco IAC-J 3.1.1	Test result	Remark
ESXi	4.1	Yes	Pass	

Commissioning the virtual/Physical servers with different lease time:

VM/Physical Server Lease Term	Validated on CISCO IAC-J 3.1.1	Test Result	Remark
1 Month	Yes	Pass	
3 Month	Yes	Pass	
6 Month	Yes	Pass	
9 Month	Yes	Pass	
12 Month	Yes	Pass	
No lease	Yes	Pass	

Customize Server Size Validation:

VM Server Size	CPU	Memory	Storage	Validation on Cisco IAC-J 3.1.1	Test result	Remark
Intermedium	3	3GB	30GB	Yes	Pass	

Customize OS standard Validation:

VM template OS Standards	JOS Types	Validation on Cisco IAC-J 3.1.1	Test result	Remark
Windows	Windows 7 64-bits	Yes	Pass	
Linux	Ubuntu 10.4 64-bits	Yes	Pass	
Linux	Suse 11 64-bit	Yes	Pass	

Customize Server lease term validation:

VM/Physical Server Lease Term	Validation on Cisco IAC-J 3.1.1	Test result	Remark
3 Days	Yes	Pass	
1 weeks	Yes	Pass	



Open Caveats and workaround

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- [Resolved Caveats](#), page 15
- [Japanese Environment Specific issues and Work-arounds](#), page 16
- [Related Documentation](#), page 19

Open Caveats

Defect ID	Issues Description	Status	Japanese Specific Issues
CSCue68107	Commission Virtual machine fails after IAC 3.1.1 upgrade	N	Yes
CSCue78142	Activity Create VM in Data store Cluster Appends Japanese Character in O/P	R	Yes

Resolved Caveats

Defect ID	Issues Description	Status	Japanese Specific issues
CSCud34602	Enumerate Datacenter Process Operation in CPO 2.3.4 Returns Japanese Character	R	Yes
CSCua99751	CPO installed content updates and hot-fix version not showing in JOS	V	Yes
CSCuc65338	Corruption issue in 'Service Portal' module page	O	Yes
CSCuc70909	Lease Expiration Date display corrupted	O	Yes
CSCuc76197	Help page showing error in Cloud portal	O	Yes

Defect ID	Issues Description	Status	Japanese Specific issues
CSCua41467	Not able to Create Folder in vCenter host and cluster from CPO	V	Yes

Japanese Environment Specific issues and Work-arounds

Workaround to Provision Windows 2008 Server JOS using CSP

To successfully provision a Windows 2008 server Japanese Operating system please follow the below steps.

Windows ISO Details

- 1 ja_windows_server_2008_x64_dvd_x14-26730.iso
- 2 ja_windows_server_2008_r2_with_sp1_x64_dvd_617387.iso

This ISO files are downloaded from MSDN

Procedure

- 1 Edit the unattended .xml file created during the template creation which is located in /home/tftpboot/pub/<tempalte_folder_name>/<template_name>.xml
e.g. /home/tftpboot/pub/Win2k8JOS/Win2k8JOS.xml

- 2 Modify the .xml file which is present in that directory with the following values:

```
<!-- default set to en-US -->
  <SetupUILanguage>
    <UILanguage>en-US</UILanguage> <!-- @@LANGUAGE_CODE -->
  </SetupUILanguage>
<!--
  InputLocale default set to 0409:00000409 match en-US,
  see link for other language values
  http://technet.microsoft.com/en-us/library/dd744319 (WS.10) .aspx
-->
<InputLocale>0411:00000409</InputLocale> <!-- @@LANGUAGE_CODE -->
<UserLocale>0411:00000409</UserLocale> <!-- @@LANGUAGE_CODE -->
<UILanguage>ja-JP</UILanguage> <!-- @@LANGUAGE_CODE -->
<SystemLocale>0411:00000409</SystemLocale> <!-- @@LANGUAGE_CODE -->
</component>
```

- 3 Save the .xml file
- 4 Try to provision the Server with the modified Provisioning template
- 5 The Server will be successfully provisioned in JOS.



Note

<http://technet.microsoft.com/en-us/library/dd744319%28WS.10%29.aspx>

<http://technet.microsoft.com/en-us/library/dd744369%28v=ws.10%29.aspx>

Unable to provision Virtual server using data store cluster after upgrading from IAC 3.1 to 3.1.1

Description

The Support for Datastore cluster is an added feature of IAC 3.1.1. When the IAC 3.1 is upgraded to IAC 3.1.1 this feature will not work.

Workaround

In order to provision virtual servers using datastore cluster we need to set the value for "Datastore cluster" manually.

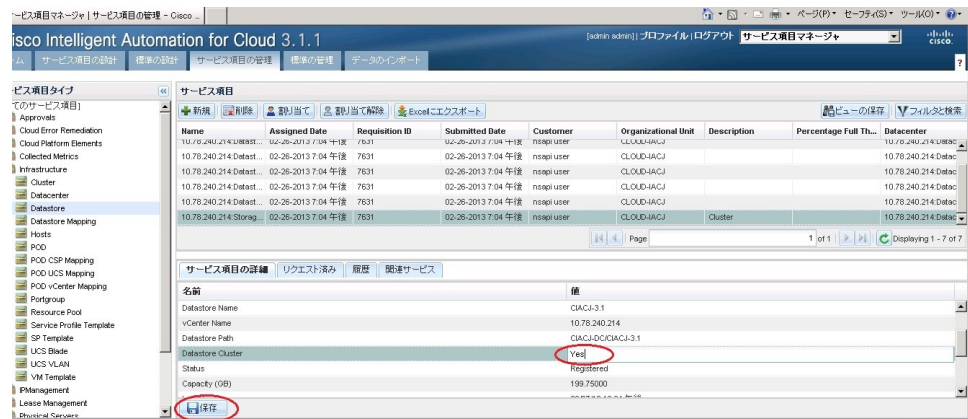
- 1 Login to CP as admin
- 2 Select **Service item Manager** from the drop down box



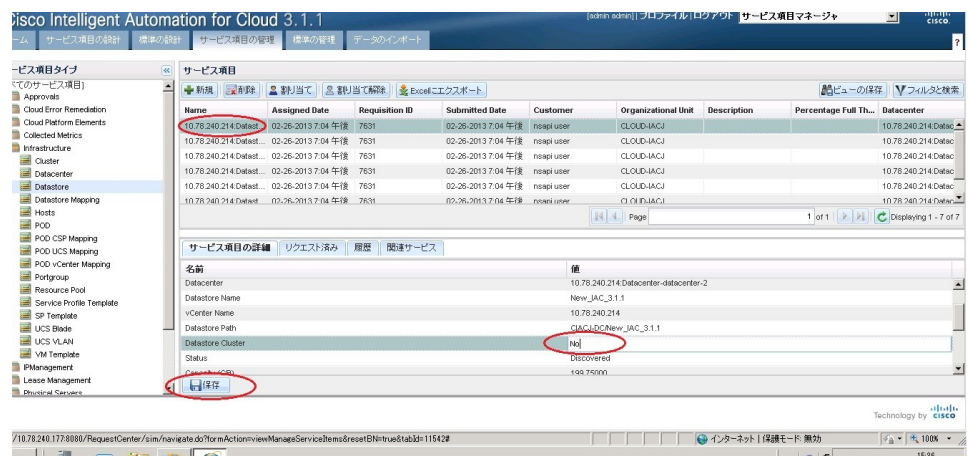
- 3 Select **Manage Service Items** tab
- 4 Expand **Infrastructure** from the Service item Types and select **Datastore**



- 5 On the Right hand side it displays the List of Datastore which is discovered by Cloudsync.
- 6 Select the datastore and scroll down the **Service Item Details**
- 7 Select the **Datastore cluster** option.



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8 Manually Enter the Value Yes/No

Yes - If the Datastore is a Cluster datastore(Figure 3)

No - If the Datastore is a Non-cluster Datastore(Figure 4)

9 Save the changes by clicking the Save button

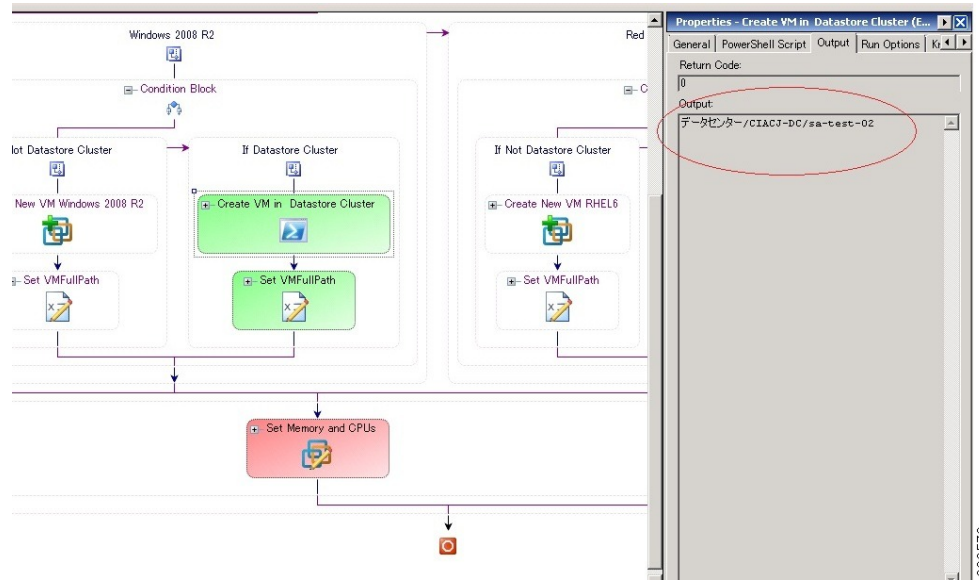
10 Once the above mentioned steps are completed successfully try to provision Virtual server using the Datastore cluster.

Create Virtual Server in Datastore Cluster Activity appends Japanese Character in the Output (CSCue78142)

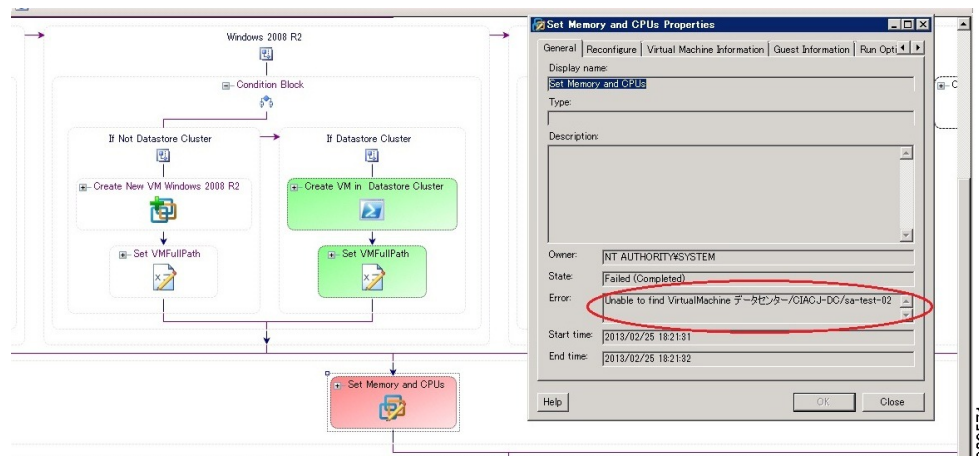
Description

Commission a Virtual server using a Cluster datastore is achieved by a PowerCLI script. This activity appends Japanese Character in its output.

The following screenshot shows the Japanese character get appended to the output.



Because of this issue, The Commission Virtual Server activity fails with the following error



This issue is fixed by the Engineering team and it will be available to the end customer with the next CPO Hotfix
 The Engineering team fixed this issue in our test setup internally. By remotely modifying the Power CLI script in our CPO.

Related Documentation

Cisco Intelligent Automation for Cloud 3.1.1. Configuration Guide:

http://www.cisco.com/en/US/docs/net_mgmt/datacenter_mgmt/Intelligent_Automation_for_Cloud/3.1.1/ConfigurationGuide/Part-OL-28882-02/Cisco-IAC-3.1.1-ConfigurationGuide-Part-OL-28882-02.pdf

Cisco Intelligent Automation for Cloud 3.1.1. User Guide:

http://www.cisco.com/en/US/docs/net_mgmt/datacenter_mgmt/Intelligent_Automation_for_Cloud/3.1.1/UserGuide/Cisco-IAC-3.1.1-UserGuide-Part-OL-28883-01.pdf

Cisco Server Provisioner User Documentation Links:

[http://www.cisco.com/en/US/partner/docs/net_mgmt/datacenter_mgmt/process_auto/teo/v2_3/Cisco IAC/starter_edition/csp_user_doc_links/cisco_server_provisioner_user_doc_links.html](http://www.cisco.com/en/US/partner/docs/net_mgmt/datacenter_mgmt/process_auto/teo/v2_3/Cisco_IAC/starter_edition/csp_user_doc_links/cisco_server_provisioner_user_doc_links.html)