



Hewlett Packard
Enterprise

Codar

Software version: 1.70

Support and Compatibility Matrix

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Codar Software Setup

This document provides an overview of the setup requirements for HPE Codar Version 1.70. The Codar software package contains the following:

- Codar Management Console (administrative and operational control interface)
- Integrated Operation Orchestration (OO) 10.60

Codar Documentation

HPE Software product documentation can be found at <https://softwaresupport.hpe.com/>.

Sign in with your HPE Passport credentials and select **Manuals** from the Dashboards menu. Use the search and filter functions to find documentation, whitepapers, and other information sources. To access the full set of Codar documentation, refer to the [Codar Documentation Library](#) (HPE Passport required).

Content Capsules

Capsules are the new delivery format to create, publish and share Codar content. Capsules contain all the required artifacts such as Codar service offerings, service designs, OO content packs and any additional auxiliary files such as JSPs, scripts, and jar files. Each capsule contains PDF documentation that explains the capsule support matrix and software dependencies. Capsules are released often to address the need to support new technologies and new functionalities.

For deploying capsules in your Codar environment, you can consider any of the following options.

- (1) At the time of installation, Administrator can select a set of capsules that should be deployed
- (2) At any time, you can visit HPE Live Network, download the capsules, and use the content installer to deploy them manually. See the Content SDK documentation for more information.

Note: Content capsules obtained from the product Installer are stored in the `CSA_HOME/Tools/CSLContentInstaller/` folder.

For a complete set of capsules, please visit Live Network portal: <https://hpln.hpe.com/>. Access to this site is restricted to customers with an active HPE support agreement ID (SAID) for Codar and an HPE Passport. For more sample service designs and sample resource offerings, see your HPE Professional Services Representative. To find the content catalog for a product, go to HPE Live Network, select the product with the content you require, such as Codar.

Notes:

- Codar Content Catalog is available on HPE Live Network at this location: <https://hpln.hpe.com/product/hpe-codar/content>
- Codar Content SDK is available at: <https://hpln.hpe.com/contentoffering/hp-Codar-content-sdk>
- Operations Orchestration Content is available on HPE Live Network at this location: <https://hpln.hpe.com/product/operations-orchestration/content>

Codar Minimum System Requirements

Minimum Hardware Requirements for the Codar Application Server and Codar DB Server

	Codar Application Server	Codar DB
CPU	4 CPU, 3.0 GHz	8 CPU, 3.0 GHz

	Codar Application Server	Codar DB
RAM	8 GB	16 GB
Hard Drive	20 GB	50 GB

Codar Application Server and Codar DB server can be deployed on a virtual machine. It is recommended that they are on different virtual machines, however. Please make sure to reserve CPU and memory resources exclusively for Codar on a virtual machine, so that the product can function with reasonable throughput. The installation requires a minimum of 7GB of free disk space on the target installation directory.

Codar Software Coexistence Statement

Codar executes as a web application in a JBoss 8 application server container. Codar is supported on either a physical server or virtual server.

Codar IPv6 - B Support

Hewlett-Packard Software is committed to providing support of the network Internet Protocol version 6 (IPv6) level B for our enterprise software products and solutions. Codar supports installation on hosts implementing dual-stack (IPv4/IPv6) transport. Codar can deploy Cloud Server Services using network Internet Protocol version 6 (IPv6).

Codar Network Transport Support

Product	Support
Codar	Codar is supported for installation on the platforms listed below when configured for dual IPv4/IPv6 transport. Codar can communicate over both IPv4 and IPv6 transport. See Codar Supported Platforms .

Codar CAC Support

CAC is not supported on when Codar is deployed in an HA environment and in a deployment environment where a Proxy Server is configured in front of Codar Controller. Apache does not support CAC.

Codar Supported Platforms

Note: To use an Oracle database with Codar, you must download Oracle JDBC drivers:

- For Oracle 11g R2 JDBC drivers, go to:
<http://www.oracle.com/technetwork/database/enterprise-edition/jdbc-112010-090769.html>
- For Oracle 12c R1 JDBC drivers, go to:
<http://www.oracle.com/technetwork/database/features/jdbc/default-2280470.html>

Codar requires **ojdbc7.jar (or ojdbc6.jar)**, and **orai18n.jar** to be downloaded and stored in a common directory prior to product installation.

Microsoft Windows 2012 R2 Standalone

	Supported	Recommended *
Operating System	Microsoft Windows Server 2012 R2 Standard	Microsoft Windows Server 2012 R2 Standard
	.NET Framework v3.5 ⁽¹⁾	.NET Framework v3.5 ⁽¹⁾ - Required
Middleware	Oracle JRE 8 OpenJDK JRE 8	OpenJDK JRE 8
Microsoft SQL Database	Microsoft SQL Server 2012 Microsoft SQL Server 2014	Microsoft Enterprise SQL Server 2012 SP3
Oracle Database ⁽²⁾	Oracle Database 11g R2 Standard Edition	Oracle 12c R1 Enterprise Edition
	Oracle Database 11g R2 Enterprise Edition	
	Oracle Database 11g R2 Enterprise RAC	
	Oracle Database 12c R1 Standard Edition	
	Oracle Database 12c R1 Enterprise Edition	
	Oracle Database 12c R1 RAC	
Postgres Database	PostgreSQL Server, 9.4.x, 9.5.x 64-bit	
<p>* Recommended indicates the specific software version used for solution testing by Codar.</p> <p>(1) Enable .NET Framework 3.5, on Windows 2012 R2, even if you have a higher version of .NET framework installed on the system</p> <p>(2) Pluggable Data Base is not supported</p>		

Microsoft Windows 2012 R2 High Availability

	Supported	Recommended *
Operating System	Microsoft Windows Server 2012 R2 Standard	Microsoft Windows Server 2012 R2 Standard
	.NET Framework v3.5 ⁽¹⁾	.NET Framework v3.5 ⁽¹⁾ - Required
Middleware	JBoss Application Clustering (Wildfly 8.2.0 embedded)	
	Oracle JRE 8 OpenJDK JRE 8	OpenJDK JRE 8
Microsoft SQL Database	Microsoft SQL Server 2012 Microsoft SQL Server 2014	Microsoft Enterprise SQL Server (Always On with JDBC driver) 2012 SP2
Oracle Database ⁽²⁾	Oracle Database 11g R2 Enterprise RAC Oracle Database 12c R1 RAC	
Postgres Database	PostgreSQL Server 9.4.x, 9.5.x x 64-bit	
<p>* Recommended indicates the specific software version used for solution testing by Codar.</p> <p>(1) Enable .NET Framework 3.5, on Windows 2012 R2, even if you have a higher version of .NET framework installed on the system</p> <p>(2) Pluggable Data Base is not supported</p>		

Red Hat Enterprise Linux (RHEL)

	Supported	Recommended *
Operating System	RHEL 6.3 or above within the 6.x series 64-bit RHEL 7.0 or above within the 7.x series 64-bit	RHEL 7.2 64-bit
Middleware	Oracle JRE 8 OpenJDK JRE 8	OpenJDK JRE 8
Microsoft SQL Database	Microsoft SQL Server 2012 Microsoft SQL Server 2014	Microsoft Enterprise SQL Server 2012 SP3
Oracle Database ⁽¹⁾	Oracle Database 11g R2 Standard Edition Oracle Database 11g R2 Enterprise Edition Oracle Database 11g R2 Enterprise RAC Oracle Database 12c R1 Standard Edition Oracle Database 12c R1 Enterprise Edition Oracle Database 12c R1 RAC	Oracle Database 12c R1 Enterprise Edition
Postgres Database	PostgreSQL Server 9.4.x, 9.5.x 64-bit	PostgreSQL Server 9.5 64-bit
<p>* Recommended indicates the specific software version used for solution testing by Codar.</p> <p>(1) Pluggable Data Base is not supported</p>		

Red Hat Enterprise Linux (RHEL) High Availability

	Supported	Recommended *
Operating System	RHEL 6. 3 or above within the 6.x series 64-bit RHEL 7.0 or above within the 7.x series 64-bit	RHEL 7.2 64-bit
Middleware	JBoss Application Clustering Oracle JRE 8 OpenJDK JRE 8	JBoss Application Clustering OpenJDK JRE 8
Microsoft SQL Database	Microsoft Enterprise SQL Server 2012 SP2 Microsoft SQL Server 2014	
Oracle Database ⁽¹⁾	Oracle 11g R2 Enterprise RAC Oracle 12c R1 Enterprise RAC	
Postgres Database	PostgreSQL Server 9.4.x, 9.5.x 64-bit	PostgreSQL Server 9.5 64-bit
<p>* Recommended indicates the specific software version used for solution testing by Codar</p> <p>(1) Pluggable Data Base is not supported</p>		

Browser Support

Supported Browsers

- Microsoft® Internet Explorer 11 or higher
 - Requires <http://support.microsoft.com/kb/2496898> to be installed on the browser machine for displaying the Indian currency sign in proper format
- Google Chrome 49 or higher
- Mozilla Firefox 45 or higher

Additional Browser Support Information

- For Codar Organization Console only: Requires Adobe Flash Player 12 or higher.
- Future versions of browsers are supported, subject to the browser's backward-compatibility.

Screen Resolution

- The following screen resolution is recommended for Codar 1.70: Codar Management Console: minimum screen resolution of 1280x1024.

Integrated Process Execution Engine (Operations Orchestration)

IMPORTANT: Codar 1.70 requires Operations Orchestration 10.22 to support new capabilities, such as topology service designs. Customers using the older supported versions of Operations Orchestration (OO) cannot use topology service designs. OO 10.60 or higher versions support sequenced service designs.

For content pack requirements, go to: [Operations Orchestration Support Requirements](#).

Operations Orchestration Support

Product	Supported ***	Recommended *	Sequenced Support	Topology Support
Operations Orchestration Platform and OO Studio	10.22 or higher within the 10.2x family, 10.5x, 10.6x	10.6	✓	✓

* Recommended indicates the specific software version used for solution testing by Codar.

** Only on upgrades.

***Requires the use of the corresponding Codar Integration Packs, Content Capsules, and Codar Patches as required. For details, see the SSO Integration Catalog article for this integration:

<https://softwaresupport.hpe.com/km/KM01695116>

CSA Upgrade

CSA is available for upgrade from a Codar 1.60 installation, working with existing CSA functionality to facilitate continuous delivery automation.

The following license types are available:

- Codar permanent license only.

- CSA permanent license only.

If you install Codar, you must add a Codar permanent license first; if you install CSA, you must install a CSA license first. After you apply a base license, you can add an upgrade license, if desired.

In case of existing CSA 4.5 a new CSA license needs to be applied upon upgrading to CSA 4.7. The CSA 4.6 license works with CSA 4.7.

Upgrade Licensing Requirements

Existing installation	Upgrading to Codar 1.7 or CSA 4.7
Codar 1.6	Upgrade to Codar 1.7 using Codar 1.7 installer, then install CSA 4.7 license
Codar 1.6 with CSA 4.6 license	Upgrade to Codar 1.7 using Codar 1.7 installer (no need to install CSA license)
CSA 4.6	Upgrade to CSA 4.7 using CSA 4.7 installer, install Codar 1.7 license to upgrade to Codar 1.7
CSA 4.6 with Codar 1.6 license	Upgrade to CSA 4.7 using CSA 4.7 installer (no need to install Codar license)

For more information, see the Codar System and Software Support Matrix and other documentation at <https://softwaresupport.hpe.com/>.

Integration Compatibility

The integrations below have been demonstrated with Codar 1.70 and are supported by the corresponding product teams. Please review each product's release notes and contact the appropriate HPE product support team for details.

Cloud Provider integrated though the integrated through Plug Ins.

Product	Supported	Recommended (1)	Sequenced Support	Topology Support
Chef Server Enterprise (2)	11.0.11 or 12.1 or 12.3	12.3		✓
Server Automation (SA) Ultimate Edition	9.x with embedded DMA		✓	
	10.x with standalone DMA 10.x	10.21 with standalone DMA 10.30	✓	✓
Puppet	3.8 or 4.3	4.3		✓
Bamboo	5.11	5.11		
Mesosphere DCOS	1.7	1.7		
HPE Helion Stackato	3.6.2	3.6.2		
MS TFS	2014	2014		
HOS	2.x, 3.x	3.0		
Docker	1.11.x	1.11.2		

Product	Supported	Recommended (1)	Sequenced Support	Topology Support
<p>(1) Recommended indicates the specific software version used for solution testing by HPE Codar.</p> <p>(2) Chef Server can be downloaded from http://www.getchef.com/chef/install/ HPE Codar 1.70 Integration with Chef is supported on Chef Server installed on Ubuntu 12.04 and CentOS 6.4. Codar supports deployment of Chef Cookbooks and recipes on virtual machines running the CentOS or Ubuntu operating systems.</p>				

Upgrades from Previous Releases

IMPORTANT:

- 1) If you have only CSA, then use CSA installer.

Supported Upgrades

Codar Releases	Upgrade y/n?	For More Information
1.5 to 1.7	yes	See the Codar Upgrade Guide for platform and content upgrades.
1.6 to 1.7	yes	See the Codar Upgrade Guide for platform and content upgrades.

Reference Websites and Downloads

For More Information and Download Locations:

Product	Support Matrix and System Requirements	For More Information
Chef Server		https://www.chef.io
Operations Orchestration (OO)	Software Support	Software Support
Puppet		https://puppetlabs.com/ https://docs.puppetlabs.com/ https://learn.puppetlabs.com/
HPE Helion Stackato		https://docs.stackato.com/
Bamboo		https://www.atlassian.com/software/bamboo
Mesosphere DCOS		https://mesosphere.com/enterprise/

Operations Orchestration Support Requirements

Operations Orchestration Content

OO Release	Content Pack
9.07.0008	CP 13
10.6x	oo10-base-cp-1.8.0.jar
	oo10-cloud-cp-1.8.2.jar
	oo10-hp-solutions-cp-1.7.0.jar
	oo10-sa-cp-1.2.2.jar
	oo10.50-csa-integrations-cp-4.70.0000.jar
	oo10-sm-cp-1.0.3.jar
	oo10-virtualization-cp-1.8.0.jar

Server Automation/Operations Orchestration Content

Server Automation Release	OO release	OO - SA Content
9.x	9.07.0008	OO-SAS-9_00-08-ContentInstaller.jar
10.x	9.07.0008	OO-SAS-9_00-10-ContentInstaller.jar
10.x	10.6	oo10-sa-cp-1.2.2.jar

Service Manager/Operations Orchestration Content

Service Manager (SM) Release	OO release	OO - SM Content
9.40	9.07	OO_SM_Content_Pack_7_Installer (CP7)
9.40	10.6	oo10-sm-cp-1.0.3

Note: Operations Orchestration Content Pack 9.00.07 JPN if installed on a Japanese language system.

Language Support

Documentation

	English	Japanese	Simplified Chinese	French	German	Korean	Italian	Russian	Brazilian Portuguese	Spanish	Dutch	Arabic	Hebrew	Danish
Codar Documentation														
Codar Online Help	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Codar Concepts Guide	✓	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
Codar Installation Guide	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Codar Release Notes	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗

Product User Interface

	English	Japanese	Simplified Chinese	French	German	Korean	Italian	Russian	Brazilian Portuguese	Spanish	Dutch	Arabic	Hebrew	Danish
Codar User Interface														
Codar user interface	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗

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Documentation updates

The title page of this document contains the following identifying information:

- Software Version number, which indicates the software version.
- Document Release Date, which changes each time the document is updated.
- Software Release Date, which indicates the release date of this version of the software.

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