



Hewlett Packard
Enterprise

Codar

Support and Compatibility Matrix

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Codar Software Setup

This document provides an overview of the setup requirements for HPE Codar Version 1.80. The Codar software package contains the following:

- Codar Management Console (administrative and operational control interface)
- Integrated OO 10.70

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. Each capsule contains 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. PDF documentation is also available and embedded in each capsule, and explains capsule support matrix and software dependencies. Capsules are released often to address the need to support new technologies and new functionalities.

You have a few options when it comes to deploying capsules in your Codar environment.

- (1) At installation time, Administrator can select a set of capsules that should be deployed.
- (2) At any time, you can visit HPE Live Network, download capsules and use the Codar Content SDK to deploy them manually. Refer to the Content SDK documentation for more information.
- (3) At any time, from the Codar Management Console, connect to the Content Store and deploy your capsules automatically. Read the Codar help for more information about the Content Store or the *Codar Configuration Guide* for more information setting up the Content Store.

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

For a complete set of capsules, visit HPE Live Network at <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 the HPE Live Network and select the product with the content you require, such as Codar.

Resources:

- Codar Content Catalog is available on HPE Live Network at this location: <https://hpln.hpe.com/product/hpe-codar/content>
- Cloud Service Automation Content SDK is available at: <https://hpln.hpe.com/contentoffering/hp-csa-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
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. 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 Coexistence Support

CSA Mode	Support
Codar (non-FIPS mode)	Codar is supported when running concurrently with other software products on the same physical or virtual server.

Codar Monitor with CO Support

HPE Cloud Optimizer (CO 3.01) integration is required for the Codar Monitor functionality to be realized.

SAML 2.0 Support

Codar as a service provider can be configured to support SAML (Security Assertion Markup Language) v2.0 by configuring the Identity Provider endpoint. See the *Codar Configuration Guide* for additional information.

Codar IPv6 - B Support

Hewlett Packard Enterprise 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 Supported Platforms

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	

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

(1) Enable .NET Framework 3.5, on Windows 2012 R2, even if you have a higher version of .NET framework installed on the system.

(2) Pluggable database is not supported.

Microsoft Windows 2012 R2 High Availability

	Supported	Recommended *
Operating System	Microsoft Windows Server 2012 R2 Standard	Microsoft Windows Server 2012 R2 Standard
	.NET Framework 3.5 ⁽¹⁾	.NET Framework 3.5 ⁽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 database 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 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	PostgreSQL Server 9.5 64-bit
<p>* Recommended indicates the specific software version used for solution testing by Codar.</p> <p>(1) Pluggable database is not supported.</p> <p>IMPORTANT: On a Linux system, Codar with embedded OO requires bzip2 data compressor to be installed.</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	JBoss Application Clustering
	Oracle JRE 8 OpenJDK JRE 8	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 database is not supported</p> <p>IMPORTANT: On a Linux system, Codar with embedded OO requires bzip2 data compressor to be installed.</p>		

Topology Design Generation

Codar supports generation of topology designs on machines with the following flavors of Unix and Microsoft SQL.

Unix: Both single-tier and two-tier designs supported with the following flavors:

- RHEL (7.x)
- Ubuntu (12.04 and 14.04)

Microsoft SQL: Only single-tier designs supported.

- Windows 2008 (64-bit machine)
- Windows server 2012 (64-bit machine)

Browser Support

Cloud Service Management Console Browser Support
Supported Browsers
<ul style="list-style-type: none">• Microsoft® Internet Explorer 11 or higher<ul style="list-style-type: none">◦ Requires the update to be installed on the browser machine for displaying the Indian currency sign in proper format. For update instructions, see http://support.microsoft.com/kb/2496898• Google Chrome 49 or higher• Mozilla Firefox 45 or higher
Additional Browser Support Information
<ul style="list-style-type: none">• For Cloud Service Management 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 1.80:

- Codar Management Console: minimum screen resolution of 1280x1024.

Integrated Process Execution Engine (Operations Orchestration)

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

Operations Orchestration Support

Product	Supported ⁽²⁾	Recommended ⁽¹⁾	Sequenced Support	Topology Support
Operations Orchestration Platform and OO Studio	OO 10.50 or higher within the 10.5x, 10.6x, 10.7x families	OO 10.7	✓	✓
CloudSlang and Web Designer	1.0.0	1.0.0	✓	✓**

(1) Recommended indicates the specific software version used for solution testing by Codar.

(2) 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/KM01663677>

3. **For topology, you need to follow certain guidelines as mentioned in the [Topology Components Guide](#).

IMPORTANT: On a Linux system, Codar with embedded OO requires bzip2 data compressor to be installed.

Codar Upgrade

Codar is available for upgrade from a Codar 1.70 installation, working with existing Codar 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 Codar 1.60, a new Codar license needs to be applied upon upgrading to Codar 1.80.

If you have the Codar 1.70 license, it works with Codar 1.80.

Upgrade Licensing Requirements

Existing installation	Upgrading to CSA 4.80 or Codar 1.80
Codar 1.70	Upgrade to Codar 1.80 using Codar 1.80 installer, then install CSA 4.80 license
Codar 1.70 with CSA 4.70 license	Upgrade to Codar 1.80 using Codar 1.80 installer (no need to install CSA license)
CSA 4.70	Upgrade to CSA 4.80 using CSA 4.80 installer, install Codar 1.80 license to upgrade to Codar 1.80
CSA 4.70 with Codar 1.70 license	Upgrade to CSA 4.80 using CSA 4.80 installer (no need to install Codar license)

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

Integration Compatibility

The integrations below have been demonstrated with Codar 1.80 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.

Note: For the latest HPE product integration compatibility information, see the SSO Integration Catalog article for the integration: <https://softwaresupport.hpe.com/km/KM01663677>

Cloud Providers integrated through plugins

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 (10.4) with standalone DMA 10.30 (?)	✓	✓
Puppet	3.8 or 4.3	4.3		✓
Bamboo	5.11	5.11 and Above		
Mesosphere DCOS	1.7	1.7		
Microsoft TFS	2015 Update 2 or later	2015 Update 2 or later	✓	✓
Jenkins	Latest	Latest	✓	✓
Application Lifecycle Management (ALM)	12.20	12.50	✓	✓
Dockers	1.11.x	1.11.2		

(1) Recommended indicates the specific software version used for solution testing by HPE Codar.

(2) Chef Server can be downloaded from <http://www.getchef.com/chef/install/>. HPE Codar 1.80 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.

Upgrades from Previous Releases

IMPORTANT: If users have Codar ONLY, then they must use Codar installer.

Supported Upgrades

Codar Releases	Upgrade y/n?	For More Information
Codar 1.60 to 1.80	Yes	See the Codar Upgrade Guide for platform and content upgrades.
Codar 1.70 to 1.80	Yes	See the Codar Upgrade Guide for platform and content upgrades.

Note: You can upgrade to up to 2 newer releases from the base release. For example, you can upgrade from 1.50 to 1.70 or 1.60 to 1.80. The patch release version does not matter here. Only the base release version is considered while upgrading to newer releases.

Reference Websites and Downloads

Product	Support Matrix and System Requirements	For More Information	Downloads
Chef Server		Chef documents	
Operations Orchestration (OO)	Software Support	Software Support	
Puppet		https://puppetlabs.com/ https://docs.puppetlabs.com/ https://learn.puppetlabs.com/	
Microsoft TFS		https://www.microsoft.com	
Jenkins (version: 2.32.1.war)		https://jenkins.io/	
Bamboo		https://www.atlassian.com/software/bamboo	

Operations Orchestration Support Requirements

Operations Orchestration Content

OO Release	Content Pack
OO 10.7x	oo10-base-cp-1.9.0.jar
	oo10-cloud-cp-2.1.0.jar
	oo10-hpe-solutions-cp-1.10.0.jar
	oo10-virtualization-cp-1.9.1.jar
	oo10-sa-cp-1.3.0.jar
	oo10-sm-cp-1.0.3.jar

Server Automation/Operations Orchestration Content

Server Automation Release	OO release	OO - SA Content
SA 10.x-10.2x	OO 10.7	oo10-sa-cp-1.2.2.jar

Service Manager/Operations Orchestration Content

Service Manager (SM) Release	OO release	OO - SM Content
SM 9.40	OO 10.7	oo10-sm-cp-1.0.3

Language Support

Documentation

Deliverable	Japanese	Simplified Chinese	French	German	Spanish	Korean	Arabic	Hebrew	Italian	Brazilian Portuguese	Dutch	Russian	Danish
Online Help (Codar)	No	No	No	No	No	No	No	No	No	No	No	No	No
Online Help (MPP)	No	No	No	No	No	No	No	No	No	No	No	No	No
Concepts Guide	No	No	No	No	No	No	No	No	No	No	No	No	No
Installation Guide	No	No	No	No	No	No	No	No	No	No	No	No	No
Release Notes	No	No	No	No	No	No	No	No	No	No	No	No	No

Product User Interface

Deliverable	Japanese	Simplified Chinese	French	German	Spanish	Korean	Arabic	Hebrew	Italian	Brazilian Portuguese	Dutch	Russian	Danish
User Interface (Codar)	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No
User Interface (MPP)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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