



# HP Cloud System Enterprise Add-on: Platform, Applications and Analytics Suite at a Glance

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## Legal Notices

### Warranty

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

The information contained herein is subject to change without notice.

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This product includes an interface of the 'zlib' general purpose compression library, which is Copyright © 1995-2002 Jean-loup Gailly and Mark Adler.

## 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.

To check for recent updates or to verify that you are using the most recent edition of a document, go to:

**<http://h20230.www2.hp.com/selfsolve/manuals>**

This site requires that you register for an HP Passport and sign in. To register for an HP Passport ID, go to:

**<http://h20229.www2.hp.com/passport-registration.html>**

Or click the **New users - please register** link on the HP Passport login page.

You will also receive updated or new editions if you subscribe to the appropriate product support service. Contact your HP sales representative for details.

## Support

Visit the HP Software Support Online web site at:

**<http://www.hp.com/go/hpssoftwaresupport>**

This web site provides contact information and details about the products, services, and support that HP Software offers.

HP Software online support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by using the support web site to:

- Search for knowledge documents of interest
- Submit and track support cases and enhancement requests
- Download software patches
- Manage support contracts
- Look up HP support contacts
- Review information about available services
- Enter into discussions with other software customers
- Research and register for software training

Most of the support areas require that you register as an HP Passport user and sign in. Many also require a support contract. To register for an HP Passport ID, go to:

**<http://h20229.www2.hp.com/passport-registration.html>**

To find more information about access levels, go to:

**[http://h20230.www2.hp.com/new\\_access\\_levels.jsp](http://h20230.www2.hp.com/new_access_levels.jsp)**

## Support Matrices

For complete support and compatibility information, see the support matrix for the relevant product releases:

- HP Server Automation (HP SA 10.00)
- HP Database and Middleware Automation (HP DMA 10.20)
- HP IT Executive Scorecard (HP XS 9.41)

All support matrices and product manuals are available here on the HP Software Support Online website:

**[http://support.openview.hp.com/sc/support\\_matrices.jsp](http://support.openview.hp.com/sc/support_matrices.jsp)**

## Known Restrictions/Limitations

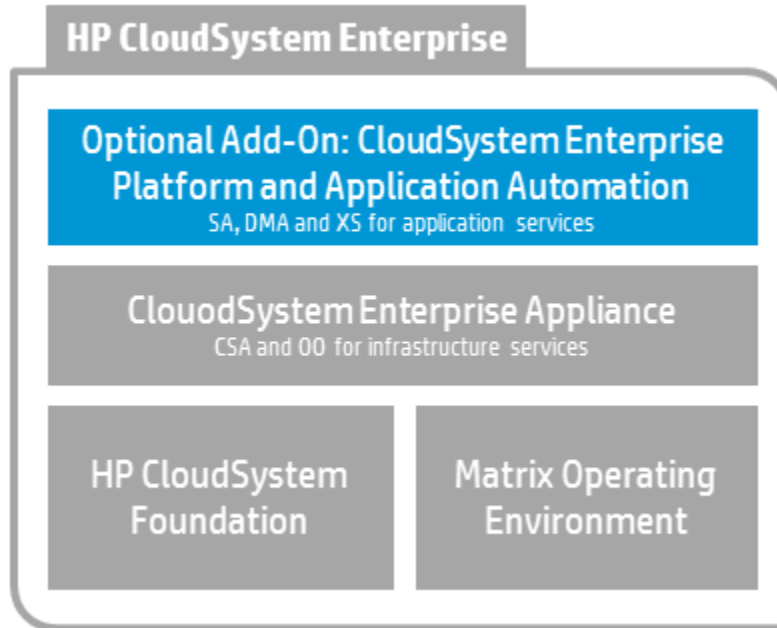
The following restrictions and limitations apply to the HP CloudSystem Enterprise Add-on: Platform, Applications and Analytics Suite:

- The pricing information will be inaccurate if CloudSystem Enterprise 8 flexing does not go through the HP Cloud Service Automation (HP CSA) 'modify service'. This is because HP IT Executive Scorecard uses pricing information from HP CSA and not from CloudSystem Enterprise 8.
- HP CSA 4.0 appliance can only currently communicate to CloudSystem Enterprise 8 foundation with Topology Designer but not with Sequential Designer. For a solution see [Using HP Server Automation & HP Database & Middleware Automation with CloudSystem Enterprise 8.0.](#)

## HP Cloud System Enterprise Add-on: Platform, Applications and Analytics Suite

The HP CloudSystem Enterprise Add-on: Platform, Applications and Analytics Suite provides CloudSystem Enterprise customers with the ability to do application provisioning, Platform as a service (PaaS)—including Database as a service (DBaaS)—and Cloud Analytics.

The following diagram shows how this add-on fits in with the CloudSystem Enterprise:



This suite includes the following products:

- [HP Server Automation \(HP SA 10.00 Enterprise Edition\)](#)
- [HP Database and Middleware Automation \(HP DMA 10.20\)](#)
- [HP IT Executive Scorecard \(HP XS 9.41\)](#)

The pages that follow provide information for each product, including a description and available documentation.

## **Using HP Server Automation & HP Database & Middleware Automation with CloudSystem Enterprise 8.0**

HP Server Automation (HP SA) and HP Database and Middleware Automation (HP DMA) can be integrated with the HP Cloud Service Automation (HP CSA) and HP Operations Orchestration (HP OO) components in HP CloudSystem Enterprise 8.0 to provide additional functionality such as provisioning platforms and software onto provisioned infrastructure.

At this time, HP SA and HP DMA can integrate with HP CSA /HP OO through the HP CSA Sequential Service Designer. This supports a number of different infrastructure providers, such as HP Matrix Operating Environment, VMware vCenter for vSphere virtual machines, and more. HP CSA only integrates with HP CloudSystem 8 infrastructure using the HP CSA Topology Designer.

To use HP SA to deploy software onto infrastructure created using HP CloudSystem 8 and the HP CSA Topology Designer, please refer to the white paper *Software-as-a-Service with HP CloudSystem Enterprise v8.0: Integrating HP Server Automation with CloudSystem*, available at:

**<http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=4AA5-2815ENW&cc=us&lc=en>**

## HP Server Automation (HP SA 10.00 Enterprise Edition)

HP Server Automation (SA) is data center automation software that centralizes and streamlines many data center functions and automates critical areas of your data center's server management including the following: server discovery, operating system provisioning, operating system patching, software provisioning, audit and compliance, application configuration, application deployment, software compliance, and reporting. You can also manage your heterogeneous virtual environment including Virtualization Services (VSs), virtual machines (VMs) and VM template. You can provision, patch, configure, and audit all your virtual machines the same way as you manage your physical servers.

SA enables you to make changes more safely and consistently because you can model and validate changes before you actually commit the changes to a managed server. SA also provides methods to ensure that modifications you plan for your managed servers work because they have been tested before being applied, thereby reducing downtime.

### Videos

You can access a library of Quick Start videos for SA by going to the HP Software Documentation Portal and selecting **QuickStart.html** from the SA 10.00 documentation list. The Quick Start video library is also available directly from the SA Client Online Help.

### Technical Manuals and White Papers

The *HP Server Automation (SA) Documentation Library* provides the most up-to-date version of SA documents available on the HP Software Documentation Portal. Use the *SA Documentation Library* (docLibrary\_SA\_10.pdf) to access any document in the set or to download the complete set to a local directory. For additional information, see [How to Find Information Resources](#).

The following information resources for SA are available for download in PDF format:

- Documentation Library
- Release Documents:
  - Release Notes (includes What's New)
  - Compatibility and Support Matrix
  - Compatibility and Support Matrix for Storage Visibility and Automation
  - All Manuals Download (cataloged zipped documentation set)
- Installation/Upgrade Documents:
  - Overview and Architecture Guide
  - Standard/Advanced Installation Guide
  - Installation Requirements Quick Reference
  - Oracle Setup for the Model Repository
  - Upgrade Guide
  - Storage Visibility and Automation Installation & Administration
- SA Administration:
  - Administration Guide
  - Integration Guide
- User Guides:
  - Application Configuration
  - Application Deployment Manager
  - Audit and Compliance
  - OS Provisioning
  - Reports
  - Server Automation
  - Server Patching
  - Server Automation Visualizer
  - Software Management
  - Storage Visibility and Automation
  - Virtualization Management
- Additional Reference Guides:
  - Content Utilities Guide
  - Platform Developer Guide



**Note:** To find additional white papers that have been released since SA 10.0 GA, see the SA Documentation Library on the HP Software Documentation Portal at:

**[http://support.openview.hp.com/selfsolve/document/KM00417675/binary/docLibrary\\_SA\\_10x.html](http://support.openview.hp.com/selfsolve/document/KM00417675/binary/docLibrary_SA_10x.html)**

HP Passport credentials are required.

## HP Database and Middleware Automation (HP DMA 10.20)

HP Database and Middleware Automation (HP DMA) software automates administrative tasks like provisioning and configuration, compliance, patching, and release management for databases and application servers. When performed manually, these day-to-day operations are error-prone, time consuming, and difficult to scale.

HP DMA automates these administration tasks that take up 60-70% of a database or application server administrator's day. Automating these tasks enables greater efficiency and faster change delivery with higher quality and better predictability. HP DMA provides role-based access to automation content. This enables you to better utilize resources at every level:

- End users can deliver routine, yet complex, DBA and middleware tasks.
- Operators can execute expert level tasks across multiple servers including provisioning, patching, configuration and compliance checking.
- Subject matter experts can define, enforce, and audit full stack automation across network, storage, server, database, and middleware.

An HP DMA workflow performs a specific automated task—such as provisioning database or application servers, patching database or application servers, or checking a database or application server for compliance with a specific standard. You specify environment-specific information that the workflow requires by configuring its parameters. Related HP DMA workflows are grouped together in solution packs.

**Important Note:** In order to ensure the latest HP DMA content, all applicable patches are recommended. To find the latest patches, go to SSO → Downloads → Software Patches or <http://support.openview.hp.com/selfsolve/patches>, select Database and Middleware Automation, scroll down to find and select version 10.20, and then click Search.

Since HP DMA directly incorporates most patches you can streamline the installation process if you download the latest patch prior to installing DMA 10.20—requiring only a single install rather than an install followed by an upgrade.

The recommended procedure to install HP DMA with all applicable patches: Follow the “How to Install HP DMA” instructions in the *Installation Guide* version for the latest patch.

An alternative procedure to install HP DMA with all applicable patches: Follow the “How to Install HP DMA” instructions in the *Installation Guide* version 10.20 and then follow the “How to Upgrade HP DMA” instructions in the *Installation Guide* version for the latest patch.

### WebHelp

The API Reference Guide is available on all HP DMA servers at: <https://<server>:8443/dma/api>

### Technical Manuals and White Papers

The *HP Database and Middleware Automation (DMA) Documentation Library* provides the most up-to-date version of DMA documents available on the HP Software Documentation Portal. For additional information, see [How to Find Information Resources](#).

The following information resources for HP DMA are available for download in PDF format:

- Documentation Library
- Manuals Download (cataloged zipped documentation sets):
  - All Manuals Download
  - Platform, Integration, and Release Documents
  - Database Content Documents
  - Middleware Content Documents
- Core Documents:
  - Release Notes (includes What's New) - 10.20 and patch versions
  - Support Matrix - 10.20 and patch versions
  - Installation Guide (includes Upgrade information) - 10.20 and patch versions
  - Troubleshooting Guide
  - Administrator Guide
  - Quick Start Tutorial

- User Guide
- Promote
- Open Source and Third Party Licenses
- User Guides:
  - Oracle Database Patching
  - Advanced Oracle Database Patching
  - Oracle Database Refresh
  - SQL Server Database Refresh
  - Sybase ASE Database Refresh
  - Database Release Management
  - Database Compliance
  - WebSphere 7 Provisioning
  - WebSphere 8.0 and 8.5.x Provisioning
  - WebSphere 8.0 and 8.5.x Patching
  - WebSphere Configuration Management
  - WebLogic Provisioning
  - WebLogic Patching
  - JBoss Provisioning
- White Papers:
  - Standardize Oracle Grid Standalone Provisioning Using HP DMA
  - Standardize Oracle RAC Provisioning Using HP DMA
  - Standardize Oracle Data Guard Provisioning Using HP DMA
  - Achieve Patch Related Compliance for Oracle Standalone Environments Using HP DMA
  - Achieve Patch Related Compliance for Oracle Grid Standalone Environments Using HP DMA
  - Achieve Patch Related Compliance for Oracle RAC Environments Using HP DMA
  - Standardize Microsoft SQL Server Standalone Provisioning Using HP DMA
  - Standardize Microsoft SQL Server Cluster Provisioning Using HP DMA
  - Achieve Patch Currency for Microsoft SQL Server Environments Using HP DMA
  - Configure HP DMA and SA to Use the SA Gateway Network as a Proxy Network
  - Standardize Microsoft SQL Server Standalone Provisioning Using HP DMA
  - Standardize Microsoft SQL Server Clustered Provisioning Using HP DMA
  - Achieve Patch Currency for Microsoft SQL Server Environments Using HP DMA
- Integration Guides:
  - Integration Guide for HP Operations Orchestration 10.01
  - Integration Guide for HP Operations Orchestration (9.07)

## HP IT Executive Scorecard (HP XS 9.41)

HP IT Executive Scorecard (XS) is a strategy enabler that enables executives to continuously improve their business. XS measures what happened and what is happening, analyzes that information, and helps plan and execute new strategies using the gathered information, resulting in a reduction of cost and risk, and an increase in quality and value. XS provides managers with business-friendly Scorecards and Dashboard pages where they can get insights that can help to convey the value of IT.

Before XS, IT tried to pull together reports using manual processes that were slow, difficult, and with little or no governance. With XS, the process is automated and includes the gathering of information from diverse sources, its consolidation, linking it to a service hierarchy, and presenting it in near real time.

The XS Cloud optimization and analytics module enjoys XS benefits, and applies XS experience and best practices in the Cloud Management domain to get the needed cloud state transparency and optimize it. This is achieved by integrating with a large number of HP and non-HP products related to Cloud optimization (HP Cloud Service Automation, HP Server Automation, Amazon Web Services, Amazon Web Service CloudWatch, Hyper-V, and vCenter), analyzing the data, and providing different users with detailed pages related to their roles. For example, the Service Business Manager uses the Business View to understand the business state of the cloud services and the Organization View to get showback view on the services used by the different organizations and how much they are being charged. Note that if you are using a data source that is not supported out-of-the-box, it can be extended and the data can be integrated into XS.

In addition, the customer can enjoy the Cloud Analytics app for tablet that presents a 360 view of a Cloud-based environment through the management of 6 different aspects: Vendors, Financials, Elasticity, Reliability, Agility, and Data Privacy.

With a license upgrade, your enterprise can enjoy the additional benefits of:

- XS integration capabilities with a larger number of HP and non-HP products: HP Application Lifecycle Management, HP Asset Manager, HP Application Portfolio Management, HP Business Service Management, HP Data Protector, HP Insight Control, HP Network Automation, HP Network Node Manager, HP Operation Orchestration, HP Project and Portfolio Management, HP Storage Essentials, HP Service Manager, and HP Universal Configuration Management Database.
- Out-of-the box KPIs and Metrics, Dashboard pages, components to customize your Dashboard pages, Content Acceleration Packs, access to the raw data used to calculate KPIs and Metrics, Scorecards, Perspectives, and Objectives, and more.
- A Service Costing capability that enables to calculate on-premise service costs by using the Allocation module of the ITFM module.

**Important Note:** With this Add-On suite product, you will receive both XS 9.40 and XS 9.41 as two downloads as part of the initial software delivery.

If you are installing the XS product for the first time, install XS 9.40 first and then apply the XS 9.41 patch.

If you already have XS 9.40 installed, apply the XS 9.41 patch using the downloaded image. XS 9.41 is also available in the SSO Patch Hub: <http://support.openview.hp.com/selfsolve/patches>, select Executive Scorecard, scroll down to find and select version 9.41, and then click Search.

### Videos

You can access a library of Quick Start videos for XS by:

- Going to the application, clicking Help in the top right corner, and selecting the Movies option (you need Internet Explorer 9 or Chrome to display the contents).
- Going to <http://www.youtube.com/user/eScorecard>

### Technical Manuals and White Papers

The *HP IT Executive Scorecard (XS) Documentation Library* provides the most up-to-date version of XS documents available on the HP Software Documentation Portal. For additional information, see [How to Find Information Resources](#).

The following information resources for XS are available for download in PDF format:

- Documentation Library
- All Manuals Download
- Release Notes (including What's New)
- Support Matrix
- Upgrade Guide
- Getting Started Guide
- Administrator Guide
- User Guides:
  - Business Analyst Guide
  - Financial Analyst Guide
  - Content Reference Guides
  - Reports Reference Guide
  - Getting Started with the Cloud Analytics for Tablet App.
- Additional Helpful Documents:
  - XS Data Usage Overview
  - XS ETL Process and Architectural Overview
  - KPIs and Metrics Library in Excel Format
  - List of Entities in XS Format
  - XS Open Source Guide
  - XS Knowledgebase Reference Guide (includes troubleshooting, error messages, and knowledgebase articles) – now also available in the SSO Knowledgebase site for XS.
  - Getting Started with XS for Smartphone
  - Getting Started with XS for Tablet
  - Getting Started with IT Financial Management for Tablet
  - Content Extension Guide
  - FBI Extractor SDK Guide

## How to Find Information Resources

This guide includes all technical information resources for each product in the suite.

To access the information resources for the included products, use any of the following methods:

- **Method 1** - Access individual documents by title and version with Documentation Libraries.
- **Method 2** - Use the complete documentation set in a local directory with All Manuals Downloads.
- **Method 3** - Find documents on the HP Software Documentation Portal.

### To access individual documents:

1. Go to the Documentation Library for the pertinent product:
  - **SA Documentation Library 10.0x**
  - **DMA Documentation Library 10.x**
  - **XS Documentation Library 9.4x**
2. Log in using your HP Passport credentials.
3. Locate the desired document title and version and then click the [go](#) link.

### To use the complete documentation set in a local directory:

1. To download the complete documentation set to a local directory:
  - a. Go to the All Manuals Download for the pertinent product:
    - **SA All Manuals Download 10.0x**
    - **DMA All Manuals Download 10.20.x**
    - **XS All Manuals Download 9.41**
  - b. Log in using your HP Passport credentials.
  - c. Download the ZIP file to a local directory.
  - d. Unzip the file to a local directory.
2. To locate a document in the local directory, search through the filenames to identify the desired document.
3. To search for a keyword across all documents in the documentation set:
  - a. Open any PDF document in the local directory.
  - b. Select **Edit > Advanced Search** (or Shift+Ctrl\_F).
  - c. Select the **All PDF Documents** option and browse for the local directory.
  - d. Enter your keyword and click **Search**.

### To find documents on the HP Software Documentation Portal:

1. Go to **<http://support.openview.hp.com/selfsolve/manuals>**
2. Log in using your HP Passport credentials.
3. Enter your selection criteria: Product, Product version, Operating system, Optional keyword(s) or phrases, and any others.
4. Click **Select**.  
All available documentation for the selected product release will be listed with download links for you to use.
5. Identify the desired document in the list of documents.