

Oracle® Life Sciences InForm

System Requirements



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ORACLE®

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Preface

This preface contains the following sections:

- [Documentation accessibility](#)
- [Diversity and Inclusion](#)
- [Related resources](#)
- [Access to Oracle Support](#)
- [Additional copyright information](#)

Documentation accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Related resources

All documentation and other supporting materials are available on the [Oracle Help Center](#).

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through Support Cloud.

Contact our Oracle Customer Support Services team by logging requests in one of the following locations:

- English interface Customer Support Portal (<https://hsgbu.custhelp.com/>)
- Japanese interface Customer Support Portal (<https://hsgbu-jp.custhelp.com/>)

You can also call our 24x7 help desk. For information, visit <https://www.oracle.com/life-sciences/support/> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

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1

Client requirements

Client requirements for this Oracle InForm release.

- [Client computers—Microsoft Windows](#)
Client requirements for Windows computers.
- [Client computers—Macintosh](#)
Client requirements for Macintosh computers.
- [Client computers—Tablets](#)
Client requirements for tablets.

Client computers—Microsoft Windows

Client requirements for Windows computers.

This Oracle InForm release was validated using Microsoft Windows 11. For more information, see the *Installation Guide*.

Browsers	<ul style="list-style-type: none">• Microsoft Edge 114.0.1823.86 or higher• Mozilla Firefox 115.0.2 or higher (64-bit)• Google Chrome 113.0.5672.64 or higher
Display resolution	<ul style="list-style-type: none">• Minimum: 800 x 600• Recommended: 1024 x 768 or higher• Required for Data Viewer: 1024 x 768
Microsoft Excel	A version compatible with your operating system is required to view reports exported from the Data Viewer or Cognos Reporting.
Adobe Acrobat	Adobe Acrobat Reader DC or higher to view reports in PDF format.

Client computers—Macintosh

Client requirements for Macintosh computers.

Operating system	OS 10.13 (64-bit) or higher
Browsers	Apple Safari 16.5 or higher (not supported for Cognos Reporting)
Display resolution	<ul style="list-style-type: none">• Minimum: 800 x 600• Recommended: 1024 x 768 or higher

	<ul style="list-style-type: none"> Required for Data Viewer: 1024 x 768
Microsoft Excel	A version compatible with your operating system is required to view reports exported from the Data Viewer.
Adobe Acrobat	Adobe Acrobat Reader DC or higher to view reports in PDF format.

Client computers—Tablets

Client requirements for tablets.

You can access the Oracle InForm application from the following tablets:

- **iOS**—iPad running 15.7.5 or higher.
- **Android**—Running Android 12 or higher.



Note:

Tablets are not supported for Cognos Reporting.

2

Server requirements

Server requirements for this Oracle InForm release.

- [Minimum hardware requirements](#)
Minimum hardware requirements for the Oracle InForm server environment.
- [Software requirements](#)
Software requirements for this Oracle InForm release.

Minimum hardware requirements

Minimum hardware requirements for the Oracle InForm server environment.

The following tables identify the minimum hardware requirements for an Oracle InForm server environment, with the Reporting and Analysis module, that supports a single, small-study deployment or a study test environment. The environment consists of three servers: an Oracle InForm application server, a Cognos Analytics 11 Reporting application server, and a combined Oracle database server.

For additional information on sizing guidelines and recommendations, see the *Installation Guide*.

- [Oracle InForm application server](#)
Oracle InForm application server minimum hardware requirements.
- [Cognos Reporting application server](#)
Cognos Reporting application server hardware requirements.
- [Oracle database server](#)
Oracle database server hardware requirements.

Oracle InForm application server

Oracle InForm application server minimum hardware requirements.

Component	Description
Processor	Two or more 3.3 GHz Intel Xeon class (or higher) processors. Recommended.
Memory	4 GB RAM.
Disk storage	15 GB minimum free space (10 GB swap space and 5 GB for the InForm application and Oracle client files).

Cognos Reporting application server

Cognos Reporting application server hardware requirements.

Component	Description
Processor	Two or more 3.3 GHz Intel Xeon class or higher (in minimum 4 core CPUs). Recommended.
Memory	Minimum 10 GB RAM.
Disk storage	A minimum of 7 GB of free space is required to install the software and 5 GB of free space on the drive that contains the temporary directory used by IBM Cognos components.

Oracle database server

Oracle database server hardware requirements.

Component	Description
Processor	Eight or more 3.3 GHz Intel Xeon class (or higher) processor cores. Recommended.
Memory	A minimum of 12 GB RAM (dependent on the study size).
Disk storage	A minimum of 20 GB free space for the Oracle database application files, plus sufficient storage capacity for the study and Reporting and Analysis database (dependent on the study size).


Software requirements




Software requirements for this Oracle InForm release.



- [Oracle InForm application server](#)
Oracle InForm application server software requirements.
- [Cognos Reporting application server](#)
Cognos Reporting application server software requirements.
- [Oracle database server](#)
Oracle database server software requirements.

Oracle InForm application server

Oracle InForm application server software requirements.

Component	Description
Operating system	<p>Supported Microsoft Windows platforms: Windows Server 2019 Standard (64-bit). You must install the server on an English (United States) operating system.</p> <div> Note: This Oracle InForm release does not support Japanese operating systems. For Japanese language support, install InForm in an English (United States) operating system with Japanese language browser settings (ja-JP locale).</div> <p>For the recommended patches for Windows operating systems, see Windows patch recommendations for the Oracle InForm software.</p>

Component	Description
Web server	<p>Microsoft Internet Information Server 10.0 (IIS 10.0).</p> <div>  Note: The IIS configuration must include the following: <ul style="list-style-type: none"> The DefaultAppPool Managed Pipeline Mode is set to Integrated. IIS 6.0 Compatibility is Enabled. </div> <div>  Note: IIS must be installed before you install the Oracle InForm software. For more information, see Roles and features for the Oracle InForm application server. </div>
Database Client	<p>Supported Oracle versions: Oracle Database Client 19.19.0.0 (64-bit) or higher.</p> <div>  Note: This Oracle InForm release application server was validated using Oracle Enterprise Edition 19.19.0.0. </div> <p>For details on required components and patchsets, see Oracle client component and patch requirements for the Oracle InForm application server.</p> <p>For optimal performance, Oracle recommends always being up to date with Oracle Critical Patch Updates. For more information, see the <i>Critical Patch Updates, Security Alerts and Bulletins</i> list at oracle.com/security-alerts.</p>

Component	Description
Other	<ul style="list-style-type: none"> Microsoft .NET Framework 4.8. <div>  Note: You must install .NET Framework before you install the database client. </div> <ul style="list-style-type: none"> Microsoft Visual C++ 2015-2022 Redistributable (x64). The following services must be installed, enabled, and running as part of the Windows 2019 Application Server role: <ul style="list-style-type: none"> COM+ Event System. COM+ System Application. Configured SMTP server. <div>  Note: The SMTP server sends email notifications from the study server. These emails send Password Reset notifications and links to report outputs from the Reporting and Analysis module. For these features to work as expected, you must configure the SMTP server to use the default mail folder locations. </div>

- [Roles and features for the Oracle InForm application server](#)
Server roles and features to be added in the Server Manager console.

Roles and features for the Oracle InForm application server

Server roles and features to be added in the Server Manager console.

Select the following server roles and features using Add roles and features in the Server Manager console:

Server roles

- File and Storage Services
 - Storage Services
- Web Server (IIS)
 - Web Server
 - * Common HTTP features
 - * Default Document
 - * Directory Browsing
 - * HTTP Errors

- * Static Content
- * HTTP Redirection
- * Health and Diagnostics
 - * HTTP Logging
 - * Logging Tools
 - * Request Monitor
- * Performance
 - * Static Content Compression
 - * Dynamic Content Compression
- * Security
 - * Request Filtering
 - * Basic Authentication
 - * Client Certificate Mapping Authentication
 - * Digest Authentication
 - * IIS Client Certificate Mapping Authentication
 - * IP and Domain Restrictions
 - * URL Authorization
 - * Windows Authentication
- * Application Development:
 - * .NET Extensibility 4.7
 - * Application Initialization
 - * ASP
 - * ASP.NET 4.7
 - * ISAPI Extensions
 - * ISAPI Filters
 - * Server Side Includes
- * Management Tools:
 - * IIS Management Console
 - * IIS 6 Management Compatibility
 - * IIS 6 Metabase Compatibility
 - * IIS 6 Management Console
 - * IIS 6 Scripting Tools
 - * IIS 6 WMI Compatibility
 - * IIS Management Scripts and Tools
 - * Management Service

Server features



- .NET Framework 4.7 Features



- .NET Framework 4.7
- ASP.NET 4.7
- WCF Services
 - * HTTP Activation
- Remote Server Administration Tools
 - Feature Administration Tools
 - * SMTP Server Tools
- SMTP Server
- Windows PowerShell
 - Windows PowerShell 5.1
- Windows Process Activation Service
 - Process Model
 - Configuration APIs
- WoW64 Support

Cognos Reporting application server

Cognos Reporting application server software requirements.

Component	Description
Operating systems	Supported Microsoft Windows platforms: Windows Server 2019 Standard (64-bit). For the recommended patches for Windows operating systems, see Windows patch recommendations for the Oracle InForm software .

Component	Description
Reporting	<p>For information on the supported Cognos versions and patch numbers, see the <i>Oracle InForm Reporting Cognos Installation Guide</i> on the Oracle Help Center.</p> <div data-bbox="1149 436 1442 1165"> <p> Note:</p> <p>Note: For a list of the historical Cognos versions supported, see the Reporting & Analysis tab in the Oracle Phase Forward Product Technology Compatibility Matrix available for download from MOS Article 180430.1 (Oracle Life Sciences Applications Supported Technology Stack). For Oracle InForm documentation relating to a version of Cognos listed as supported, contact Oracle Global Support.</p> </div>
LDAP	<p>Oracle Directory Server Enterprise Edition 11g. Release 1 (11.1.1.7.2).</p> <div data-bbox="1149 1360 1442 1816"> <p> Note:</p> <p>The Oracle Directory Server can be installed on either the Microsoft Windows or the Linux operating system. For more information, see the Oracle website, the Oracle Directory Server Enterprise Edition documentation, or your Oracle database documentation.</p> </div>

Component	Description
Database Client	<p>Supported Oracle versions:</p> <p>Oracle Database Client 19.12.0.0 (32-bit) or higher (19.16.0.0 (32-bit) recommended).</p> <p>For details on required components and patchsets, see Oracle client component and patch requirements for the Oracle InForm application server.</p> <p>For optimal performance, Oracle recommends always being up to date with Oracle Critical Patch Updates. For more information, see the <i>Critical Patch Updates, Security Alerts and Bulletins</i> list at oracle.com/security-alerts.</p> <p>Required for the Cognos Report Server and the Cognos Content Manager.</p>
	<p> Note:</p> <p>Note: The Cognos Analytics 11 Reporting application server was validated using Oracle Enterprise Edition 19.16.0.0.</p>
Other	<ul style="list-style-type: none"> • Microsoft .NET Framework 4.8. Required for the Cognos Report Server and the Cognos Content Manager. <p> Note:</p> <p>You must install .NET Framework before you install the database client.</p> <ul style="list-style-type: none"> • Microsoft Visual C++ 2010 Redistributable (32-bit). Required for installing the 32-bit version of the Oracle Database Client on the Cognos Report Server and Content Manager. • IIS 10.0. The IIS configuration must include the Application Request Routing extension (ARR). If you configure IIS to use HTTPS, disable SSL and enable TLS 1.2 or higher. • ASP.NET v4.0.30319 Required for the Cognos Gateway Server. • Java Runtime Environment (JRE 1.8 winx64)

**Note:**

Because the Cognos Analytics 11 Reporting application server requires the 32-bit Oracle database client, you cannot install all the Oracle InForm software components on a single development server. For information about supported deployment options, see the *Installation Guide*.

Oracle database server

Oracle database server software requirements.

Component	Description
Operating system	Supported Unix platforms: See your Oracle database documentation for the supported versions of the following operating systems for the Oracle database: <ul style="list-style-type: none">• Oracle Enterprise Linux 8.5.
Database	Supported Oracle versions: <ul style="list-style-type: none">• Oracle Database Server 19.19.0.0 or higher. For details on required components and patchsets, see Oracle database server component and patch requirements for the Oracle InForm study database and Reporting and Analysis database servers . No additional components for the database instance are required. For optimal performance, Oracle recommends always being up to date with Oracle Critical Patch Updates. For more information, see the <i>Critical Patch Updates, Security Alerts and Bulletins</i> list at oracle.com/security-alerts .

**Note:**

The database servers were validated using the Oracle Enterprise Edition 19.19.0.0

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Hardware recommendations for enhanced performance

In practice, an appropriate hardware architecture must be developed based on the workload that will be generated by the studies that are hosted in the environment. This often means allocating additional memory, processor cores, and appropriate storage infrastructure to each server.

For multi-study environments, the study and Reporting and Analysis databases may be segmented onto independent, appropriately scaled Oracle database servers. Depending on Reporting and Analysis usage and requirements, the Cognos Analytics 11 Reporting application components (Content Manager, Report Server, and Gateway Server) may also be segmented onto independent, appropriately scaled application servers.

For additional information on sizing guidelines and recommendations, see the *Installation Guide*.

4

Windows patch recommendations for the Oracle InForm software

- [English Windows operating system patches for the Oracle InForm and Cognos application servers](#)

English Windows operating system patches for the Oracle InForm and Cognos application servers

The recommended Windows patch list applies to Microsoft Windows Server 2019 Standard Edition 64-bit-English. The Oracle InForm and Cognos application servers with the recommended patches were used for validation of this version of the InForm software.

- [English Windows operating system patches—Oracle InForm application server](#)
English Windows operating system patches—Oracle InForm application server
- [English Windows operating system patches—Cognos application server](#)
English Windows operating system patches—Cognos application server

English Windows operating system patches—Oracle InForm application server

English Windows operating system patches—Oracle InForm application server

Description	Hot Fix ID
Update	KB5016593
Security Update	KB4470788
Update	KB4480056
Update	KB4486153
Update	KB4494174
Security Update	KB4509095
Security Update	KB4535680
Security Update	KB4562562
Update	KB4577586
Update	KB4589208
Security Update	KB5001404
Security Update	KB5003243
Security Update	KB5005112
Security Update	KB5012170
Security Update	KB5017315
Update	KB5009642
Security Update	KB5005701

English Windows operating system patches—Cognos application server

English Windows operating system patches—Cognos application server

Description	Hot Fix ID
Update	KB5017263
Security update	KB4470788
Update	KB4480056
Update	KB4486153
Update	KB4494174
Security Update	KB4503308
Security Update	KB4509095
Security Update	KB4535680
Security Update	KB4561600
Security Update	KB4562562
Update	KB4577586
Security Update	KB4580325
Update	KB4589208
Security Update	KB5001404
Security Update	KB5003243
Security Update	KB5005112
Security Update	KB5012170
Security Update	KB5017315
Update	KB5009642
Update	KB5015896
Update	KB5017400
Security Update	KB5005701

5

Oracle client component and patch requirements for the Oracle InForm application server

Database and client patches required for this release of Oracle InForm.

The Oracle database patches apply to the Oracle InForm study database and the Reporting and Analysis database. The client patches apply to the Oracle client for the core Oracle InForm application.



Note:

The patches for the Oracle database server and the Oracle client are set so that both the database and the client use the same version of TSTZ (timestamp/timezone) files. The version of these files should always match. Take this into consideration when applying future patches to the database or client. If a future patch for either the database or client changes the version of these files, you must review the patches for both the client and database.

Oracle Windows patches

When a physical machine is more than one type of server, you need all the patches that are required for each type of server. For example, in a single-tier Oracle InForm installation, the machine that is both the Oracle InForm server and the database server requires all the patches listed under both the Oracle database and the Oracle client.

For more information, see [Software requirements](#).

- [Minimum Oracle client software components required for the Oracle InForm application server and Cognos Analytics 11 Reporting application servers](#)
List of components to install on the Oracle InForm and Cognos Analytics 11 Reporting application servers.
- [Minimum Oracle client patches required for the Oracle InForm application servers](#)
- [Minimum Oracle client patches required for the Cognos Analytics 11 Reporting application servers](#)

Minimum Oracle client software components required for the Oracle InForm application server and Cognos Analytics 11 Reporting application servers

List of components to install on the Oracle InForm and Cognos Analytics 11 Reporting application servers.

When the base release of Oracle database client software is installed on the Oracle InForm and Cognos Analytics 11 Reporting application servers, select the following components:
Oracle Client:

- Oracle SQLJ
- Oracle Database Utilities
- Oracle Java Client
- SQL*Plus
- Oracle JDBC/THIN Interfaces
- Oracle Net
- Oracle ODBC Driver
- Oracle Services for Microsoft Transaction Server
- Oracle Provider for OLE DB
- Oracle Data Provider for .NET (ODP.NET)
- Oracle Providers for ASP.NET

Minimum Oracle client patches required for the Oracle InForm application servers

Oracle database patches may require an updated version of OPatch before they can be installed. Refer to the patch README file on My Oracle Support (<http://support.oracle.com>) for OPatch requirements.

- [Oracle 19.19 for Windows 64-bit](#)
Oracle 19.19 client patches for Windows 64-bit.

Oracle 19.19 for Windows 64-bit

Oracle 19.19 client patches for Windows 64-bit.

Oracle version	Patch number	Patch application order	Notes
19.3	N/A	1	Patch set/Base install Oracle 19.3.0.0
19.19	35046439	2	Windows Database Bundle Patch: 19.19.0.0.230418 (64-bit)

Minimum Oracle client patches required for the Cognos Analytics 11 Reporting application servers

Oracle database patches may require an updated version of OPatch before they can be installed. Refer to the patch README file on My Oracle Support (<http://support.oracle.com>) for OPatch requirements.



Note:

The Cognos Analytics 11 Reporting application servers require the 32-bit version of the Oracle client.

- [Oracle 19.19 for Windows 32-bit](#)
Oracle 19.19 client patches for Windows 32-bit.

Oracle 19.19 for Windows 32-bit

Oracle 19.19 client patches for Windows 32-bit.

Oracle version	Patch number	Patch application order	Notes
19.3	N/A	1	Patch set/Base install Oracle 19.3.0.0
19.19	35046439	2	Windows Database Bundle Patch: 19.19.0.0.230418 (32-bit)

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Oracle database server component and patch requirements for the Oracle InForm study database and Reporting and Analysis database servers

- [Minimum Oracle database server components required for the database servers](#)
List of components to be selected when the base release of the Oracle database software is installed.
- [Minimum Oracle database server patches required for the database servers](#)

Minimum Oracle database server components required for the database servers

List of components to be selected when the base release of the Oracle database software is installed.

When the base release of the Oracle database software is installed, select the following components:

- Oracle Database
- Oracle Call Interface
- Oracle Net Services
- Oracle Net Listener

Minimum Oracle database server patches required for the database servers

- [Oracle 19.19 for Windows 64-bit and Linux 8.5-64.bit](#)

Oracle 19.19 for Windows 64-bit and Linux 8.5-64.bit

Oracle database patches may require an updated version of OPatch before they can be installed. Refer to the patch README file on My Oracle Support (<http://support.oracle.com>) for OPatch requirements.

- [Oracle 19.19 for Windows 64-bit](#)
Oracle 19.19 server patches for Windows 64-bit.
- [Oracle 19.19 for Linux 8.5-64](#)
Oracle 19.19 server patches for Linux 8.5-64.

Oracle 19.19 for Windows 64-bit

Oracle 19.19 server patches for Windows 64-bit.

Oracle version	Patch number	Patch application order	Notes
19.3	N/A	1	Patch set/Base install Oracle 19.3.0.0
19.19	5046439	2	Windows Database Bundle Patch: 19.19.0.0.230418 (64-bit)

Oracle 19.19 for Linux 8.5-64

Oracle 19.19 server patches for Linux 8.5-64.

Oracle version	Patch number	Patch application order	Notes
19.3	N/A	1	Patch set/Base install Oracle 19.3.0.0
19.19	35042068	2	Database release update: 19.19.0.0.230418
19.19	35050341	3	OJVM release update: 19.19.0.0.230418

7

Oracle InForm compatibility

Oracle maintains the following software compatibility matrices:

- *Product Compatibility Matrix*—Identifies Oracle InForm compatibility with other Oracle Life Sciences products.
- *Product Technology Compatibility Matrix*—Identifies Oracle InForm compatibility with other Oracle and external software products.

Both matrices can be downloaded from My Oracle Support in Article ID 180430.1: Oracle Life Sciences Applications Supported Technology Stack (<https://support.oracle.com/epmos/faces/DocumentDisplay?id=180430.1>).