Standalone dashboard - installation requirements

General requirements

Hardware

Please see **CAST AIP for Dashboards - Hardware requirements** for more information.

Supported Application Servers for WAR file deployment

Application Server	Supported for 1.x WAR	Supported for 2.x WAR	Notes
Apache Tomcat 7.0.x 64-bit (where x 20)	✅	❌	Apache Tomcat is supported when installed on either **Microsoft Windows** or **Linux**.
Apache Tomcat 8.0.x 64-bit	✅	❌	
Apache Tomcat 8.5.x 64-bit	✅	✅	
Apache Tomcat 9.0.x 64-bit	✅ v. 1.17 only	✅	
IBM WebSphere Application Server 8.5.x	✅	❌	**Only supported** when installed on a **Linux Operating System** - see **Deployment on IBM WebSphere Application Server**.

The CAST Dashboards are developed using the following Java specifications. This information will help you decide whether the web applications will function on an application server other than Apache Tomcat/IBM WebSphere Application Server:

Item	1.x WAR	2.x WAR
Servlet API	3.0	3.1
Java	8	8

> ℹ️ Note that although the CAST Dashboards may function correctly on application servers other than those that are specifically supported (see above), CAST provides **no official support** for these application servers.

Supported Operating Systems for ZIP/JAR file deployment

Operating System	Supported
Microsoft Windows 2022	✅
Microsoft Windows 10 Pro	✅
CentOS 7.4	✅

Supported Java JRE/JDK

Whether you are installing CAST Dashboards using a WAR file for Apache Tomcat, or direct using the ZIP/JAR installations, a **Java JRE or JDK** must be installed on the host server. CAST only supports LTS releases as follows:

Java JRE / JDK	Supported for 1.x	Supported for 2.x
8 (LTS)	✅	✅
9	❌	❌
10	❌	❌
11 (LTS)	❌	✅

> ⓘ Note that **Java 11 (LTS) is only supported for CAST Dashboards 2.6.1** due to compatibility issues with the Lucene indexing system used in the Engineering Dashboard Advanced Search feature (see **Managing the Engineering Dashboard search indexes**).

Supported Browsers

This section lists the browsers supported by CAST to connect to a dashboard:

Browser	Supported	Deprecated support	Notes
Microsoft Internet Explorer 9		✅	
Microsoft Internet Explorer 10		✅	
Microsoft Internet Explorer 11	✅		
Microsoft Edge	✅		Minimum supported release: Windows 10 Creators Update (1703)
Mozilla Firefox	✅		Minimum supported release: 52 and above
Google Chrome	✅		Minimum supported release: most recent only
Safari (iOS 10)	✅		Only supported for the Health Dashboard

Engineering Dashboard requirements

✅	**Java JRE /JDK**	See **Supported Java JRE/JDK** above.
✅	**Application Server**	Only required when deploying a WAR file: must be installed on a compatible machine. See **Supported Application Servers for WAR file deployment** above.
✅	**Web browser**	Required for accessing the Engineering Dashboard.
✅	**Dashboard schema**	You can connect the Engineering Dashboard to one or multiple **Dashboard schemas** as follows: <table><tr><th>Dashboard schema version</th><th>Compatible Engineering Dashboard</th></tr><tr><td>CAST AIP 8.3.16</td><td>1.12.0 (standalone) 1.5.12 (WAR delivered with CAST AIP 8.3.16)</td></tr><tr><td>CAST AIP < 8.3.16</td><td>< 1.12.0 (standalone) < 1.5.12 (WAR delivered with CAST AIP < 8.3.16)</td></tr></table> ⓘ Each Dashboard schema must contain **at least one** snapshot**.**
✅	**License Key**	Access to data in the **Dashboard schema** is governed by a **license key** - see **Dashboard Service license key configuration**. You must have a valid license key in your possession before you begin.

✅	**Role s /auth oriza tions sche ma**	**Required only in 2.1.0-funcrel** In **2.1 only**, an interface exists to manage **User roles - 2.x and above** and **Data authorization - 2.x and above** - this interface stores all its records in a **dedicated schema** on a **CAST Storage Service/PostgreSQL instance**. This instance does not need to be the same as used for your AIP schemas (Dashboard/Measure schemas), however, the required schema is small and therefore CAST recommends using an **existing CAST Storage Service/PostgreSQL** instance to host it. The schema is created automatically when you start up your Dashboard deployment if it does not already exist.

Health Dashboard requirements

✅	**Java JRE**	See **Supported Java JRE/JDK** above.
✅	**Appl icati on Serv er**	Only required when deploying a WAR file: must be installed on a compatible machine. See **Supported Application Servers for WAR file deployment** above.
✅	**Web brow ser**	Required for accessing the Health Dashboard.
✅	**Mea sure ment sche ma**	A dedicated schema (the CAST Measurement Service) on a **CAST Storage Service/PostgreSQL instance**.
✅	**Das hboa rd sche mas**	You can consolidate data into the Measurement schema as follows: • from any number of Dashboard schemas (subject to the limit of 200 applications - see **Configure the Health Dashboard for large numbers of Applications**). • from any of the following Dashboard schemas (mixing data from different Dashboard schema releases is also supported): **CAST Dashboard Services** _table below_
✅	**Role s /auth oriza tions sche ma**	**Required only in 2.1.0-funcrel** In **2.1 only**, an interface exists to manage **User roles - 2.x and above** and **Data authorization - 2.x and above** - this interface stores all its records in a **dedicated schema** on a **CAST Storage Service/PostgreSQL instance**. This instance does not need to be the same as used for your AIP schemas (Dashboard/Measure schemas), however, the required schema is small and therefore CAST recommends using an **existing CAST Storage Service/PostgreSQL** instance to host it. The schema is created automatically when you start up your Dashboard deployment if it does not already exist.

AIP release	Supported
8.3.x	✅
8.2.x	✅
8.1.x	✅
8.0.x	✅
7.3.x	✅
7.2.x	✅
7.1.x	✅
7.0.x	✅

CAST-RESTAPI requirements

✅	**Java JRE**	See **Supported Java JRE/JDK** above.
✅	**Applica tion Server**	Only required when deploying a WAR file: must be installed on a compatible machine. See **Supported Application Servers for WAR file deployment** above.

ⓘ

✅	**Dashbo ard schema / Measur ement schema**	A **single** Dashboard schema or Measurement schema or **multiple** Dashboard / Measurement schemas. ⓘ When using the CAST-RestAPI with **CAST Report Generator**, CAST highly recommends configuring connections to the **CAST Dashboard Service** ONLY.
✅	**License Key**	Access to data in the Dashboard schema is governed by a **license key** - see **Dashboard Service license key configuration**. You must have a valid license key in your possession before you begin.
✅	**Roles /authori zations schema**	**Required only in 2.1.0-funcrel** In **2.1 only**, an interface exists to manage **User roles - 2.x and above** and **Data authorization - 2.x and above** - this interface stores all its records in a **dedicated schema** on a **CAST Storage Service/PostgreSQL instance**. This instance does not need to be the same as used for your AIP schemas (Dashboard/Measure schemas), however, the required schema is small and therefore CAST recommends using an **existing CAST Storage Service/PostgreSQL** instance to host it. The schema is created automatically when you start up your Dashboard deployment if it does not already exist.