



# Angles Hub

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Release Notes

Version 22.4

November 30, 2022

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## Introduction

This document provides information about the fixed issues, and system requirements for installing and upgrading to Magnitude Angles Hub 22.4.

This document was released on November 30, 2022. Please go to [Article No. 000015854](#) (INFO: Documentation for Magnitude Angles Hub) on the Knowledge area of the Magnitude Support Community; an updated version of this document might be available.

We welcome your input on the quality, accuracy, and usefulness of this document. Please send your comments and suggestions to [documentation@magnitude.com](mailto:documentation@magnitude.com).

## System Requirements

The system requirements for Magnitude Angles Hub 22.4 are as follows.

**⚠ Important:** Make sure that you have the latest service packs and updates for Magnitude Angles Hub 22.4 and related products.

### Prerequisites

The prerequisite for installing and using Magnitude Angles Hub 22.4 is Magnitude NoetixViews (NoetixViews) (Global forms of the views) of Version 6.6 or later.

### Server Computer Requirements

The following table lists the hardware requirements.

Components	Recommended
Processor	Multiple processors or a single processor with multiple cores
RAM	16 GB
Disk Space	1-6 GB, depending on application size

The software requirements are as follows:

- **Microsoft Internet Information Services (IIS):** 10, 8.5, or 8.0

**ⓘ Note:** We recommend you enable Web Deploy and WebSocket Protocol in [IIS](#).

- **Web browser:** Google Chrome 79.0.3945.130 or later
- **Oracle client software:** Version 11.2 or later, including SQL\*Plus and Oracle Data Provider for .NET (ODP.NET)

**ⓘ Note:** We recommend Oracle client software version 12C. The bitness of the Oracle client must match with that of the operating system. The TNS\_ADMIN environment variable must be set to the location of the `tnsnames.ora` file.

- **PostgreSQL Database:** [Version 13.4](#)

- **ASP.NET Core Runtime 3.1:** Go to <https://dotnet.microsoft.com/> > Downloads > NET Core 3.1 > All .NET Core downloads > .Net Core 3.1 > 3.1.19 > ASP.NET Core 3.1 Runtime 3.1.19 -Windows x64 Installer
- **ASP.NET Core 3.1- Windows Hosting Bundle:** Go to <https://dotnet.microsoft.com/> > Downloads > NET Core 3.1 > All .NET Core downloads > .Net Core 3.1 > 3.1.19 > ASP.NET Core 3.1 Runtime 3.1.19 -Windows Hosting Bundle Installer
- Elasticsearch 6.8.22 (available as a part of the Angles Hub software installer)

**Note:** Install a compatible Java (JRE) and make sure the environment variables (`JAVA_HOME` and `PATH`) are updated correctly to avoid installation issues.

### Client Computer Requirements

The software requirements for Magnitude Angles Hub 22.4 are as follows:

- **Web browser:** Google Chrome 79.0.3945.130 or later
- **BI Tools:** Microsoft Power BI Desktop 2.79 or later, Tableau 2020.2.0 or later
- **Microsoft Excel:** Microsoft Excel 2019 or later

### Angles Gateway Requirements

- Windows Server 2019, Windows Server 2016, Windows Server 2012 R2, Windows Server 2012, Windows 10, or Windows 8.1
- 64 bit
- **Free hard drive space:** 1.3 GB
- **Microsoft updates:**

Windows Version	Knowledge Base Article Number
Windows 8.1	KB4054519
Windows 10	KB4103723
Windows Server 2012 R2	KB4054519
Windows Server 2016	KB4103723

**Important:** The Angles Gateway software must be installed by an administrator or a user with administrator rights.

## Fixed Issues

The fixed issues in Magnitude Angles Hub 22.4 are as follows:

### Notification for impact analysis

A message is displayed if there are no changes to views or reports after running an impact analysis report.

[ANGO-675]

### Impact Analysis Report

If you click any view or report more than once after creating an impact analysis report, the same view or report will appear more than once in the **Assessment** section, and the close icons will not be in alignment with the views or reports.

[ANGO-684, ANGO-685]

### Add Join Conditions

When adding join conditions for the business view, the search for a view join produced incorrect results, multikey joins were not considered, left outer joins were not effected, and self join views showed some inconsistencies.

[ANGO-430, ANGO-1367, ANGO-1368, ANGO-1369, ANGO-1370]

### Installing and Upgrading

For instructions on installing and configuring Magnitude Angles Hub 22.4, see the *Magnitude Angles Hub Installation Guide*.

You can upgrade Magnitude Angles Hub 22.4 from version 7.1 or later through the setup.

Make sure that your environment meets the system requirements for Magnitude Angles Hub 22.4.

For assistance, contact [Product Support](#) for help with installing Magnitude Angles Hub 22.4.