

In-Sight® OPC Server 5.6.0 Release Notes

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Overview

This document describes the In-Sight OPC Server for Microsoft® Windows®, including the following topics:

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About The In-Sight OPC Server

The In-Sight OPC Server provides access to In-Sight spreadsheet cell data from OPC clients based on versions 1.0, 2.0 or 3.0 of the [OPC Specification](#). In order for In-Sight cell data to be visible to OPC clients, "OPC tags" are inserted into spreadsheet cells that contain data on an In-Sight vision system. Once a tag has been applied to a cell, the In-Sight OPC Server is then configured to publish the tag and its associated value so that OPC clients can access it.

See the *In-Sight® Explorer Help* file for details regarding the procedure of adding OPC tags to cells and configuring the server to publish these tags.

Visit the [In-Sight Online Support Center](#) to download the latest release notes and documentation, including localized versions.

System Requirements

PC Hardware Requirements

Minimum

Note: The minimum hardware requirements are for PCs that you connect to a single low-resolution In-Sight vision system running at a slow production speed.

- Intel® Celeron® 1000M processor running at 1.8GHz (or equivalent)
- 2GB of available RAM
- 4GB of available hard-disk space
- Video card capable of displaying 1024 x 768 resolution at 24-bit color depth (the DPI Display setting must be set to 96 DPI)
- Network interface card (at least 100Mbps) for connecting to an In-Sight vision system

Recommended

Note: The recommended hardware requirements are for PCs that you simultaneously connect to up to four In-Sight vision systems.

- Intel Core™ i7 processor running at 2.7GHz (or equivalent)
- 4GB of available RAM
- 8GB of available hard-disk space
- Video card capable of displaying 1920 x 1080 resolution at 32-bit color depth (the DPI Display setting must be set to 96 DPI)
- Gigabit network interface card for connecting to In-Sight vision systems

Operating System Requirements

In-Sight software has been tested on the following operating systems:

- Microsoft® Windows® 10 Professional (64-bit)
- Microsoft Windows 7 Professional, Service Pack 1 (64-bit)
- Microsoft Windows Server 2016

Although In-Sight OPC Server may function on other operating systems, systems not meeting the preceding requirements have not been tested and are not supported.

Supported Languages

- English
- Japanese
- French
- German
- Spanish (European)
- Korean
- Chinese (Simplified)

Supported In-Sight Vision Systems

Firmware Version Support

In-Sight 5.6.0 software contains three firmware versions:

- In-Sight 5.6.0
- In-Sight 5.2.2
- In-Sight 4.10.5

In-Sight vision systems that have older firmware versions might work properly; however, some features are unsupported with older firmware versions and are not fully tested. For optimal performance, update vision systems running older firmware to the most recent, supported firmware versions.

Note: For a complete list of models and supported firmware versions, see the Firmware Versions topic in the *In-Sight® Explorer Help* file.

- In-Sight 2000 series vision sensors
- In-Sight 5705 and 5705C vision systems
- In-Sight 7000 Gen2 series vision systems
- In-Sight 8000 series vision systems

Note: The In-Sight 2000 series is not supported with the In-Sight OPC server.

In-Sight Firmware 5.2.2

- In-Sight Advantage Engine

In-Sight Firmware 4.10.5

- In-Sight Micro 1000 series vision systems
- In-Sight 5000 series vision systems (except In-Sight 5705 and 5705C vision systems)
- In-Sight 7000 series vision systems (except In-Sight 7000 Gen2 series vision systems)

Installation

Administrative Privileges

You must be logged on as a user with full administrative privileges in order to install the In-Sight OPC Server.

Microsoft .NET Framework 4.5

In-Sight software requires Microsoft .NET Framework 4.5. If the In-Sight software installer fails to detect Microsoft .NET Framework 4.5, it will attempt to download and install it.

User Account Control

You must disable User Account Control (UAC) before installing the In-Sight OPC Server. For instructions on how to disable UAC, do the following:

- **Windows 7/Windows Server 2008 R2**
 1. Click **Start > Help and Support**.
 2. In the search box, type: **Turn off UAC**
 3. Press **ENTER**.
 4. View the first search result topic entitled "Turn User Account Control on or off".

- **Windows 10**

You must disable UAC from the Registry Editor by manually changing the value.

Note: Disabling UAC from the Control Panel (User Accounts) will not allow you to install the In-Sight OPC Server on Windows 10.

1. Press the **Windows+ R** on your keyboard. The Run dialog opens.
2. Type **regedit** and click **OK**. The Registry Editor opens.
3. Select **HKEY_LOCAL_MACHINE > SOFTWARE > Microsoft > Windows > Current Version > Policies > System**.
4. Right-click on **EnableLUA**, and select **Modify**. The Edit DWORD Value dialog opens.
5. Change the Value data to **0**.
6. Click **OK** to close the dialog.
7. Restart your PC. Now you can install the In-Sight OPC Server.

After installation, you may re-enable UAC; however, in order to uninstall the In-Sight OPC Server you will need to disable it temporarily again.

Windows Service

The In-Sight OPC Server (version 3.2.0 and later) runs as a Windows Service. Only one version of the service can be active at a time; if you have multiple versions of the In-Sight OPC Server installed, only one will function. To change the active

server, run the In-Sight OPC Service Manager located at C:\Program Files\Cognex\In-Sight\In-Sight OPC Server 5.x.x\OpcServiceManager.exe. This utility lists all versions of the OPC server installed on your PC and allows you to set the active version.

Sample Projects

In-Sight OPC Server Sample Projects are installed to the following folder:

- C:\Users\Public\Documents\Cognex\In-Sight\In-Sight Sample Projects 5.x.x

A shortcut on the Start Menu is available to open this location.

Known Issues

Note: The release notes include Change Request numbers (CR#) (where applicable) to improve tracking of Known Issues reported from Cognex Technical Support.

CR#	Issue
10378	If a standard user account attempts to start or stop the In-Sight OPC Service, it will silently fail. <i>Workaround:</i> Turn on User Account Control (UAC) from the Control Panel (User Accounts).
10315	When the In-Sight OPC Server is suspended by right-clicking the notification area icon, the status bar may indicate that the server is still in the Running state.
9869	If you have multiple versions of the In-Sight OPC Server installed (for example, 4.10.1 and 5.2.0), uninstalling the 4.10.1 version will cause the 5.2.0 OPC Server to no longer function. <i>Workaround:</i> Open the Windows Control Panel and Repair the In-Sight OPC Server 5.2.0 installation to restore the service. Alternatively, you can uninstall In-Sight OPC Server 5.2.0 and reinstall it.
7867	If you have both the In-Sight OPC Server 4.x and a 3.x version of the the In-Sight OPC Server installed, you may receive an error message stating "GetServicePath: InstallUtil returned an error code of -1" while uninstalling the 3.x version. <i>Workaround:</i> Uninstall the 3.x version of the In-Sight OPC Server before installing In-Sight OPC Server 4.x. If the In-Sight OPC Server 4.x is already installed, you may need to Repair the In-Sight OPC Server 4.x installation in the Windows Control Panel after uninstalling the 3.x version.