

# In-Sight® OPC Server 5.7.3 Release Notes

© Copyright 1999-2019 Cognex Corporation. All rights reserved.

Revision: 5.7.3.5, 08/02/2019

## Overview

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

- [About The In-Sight OPC Server](#)
- [System Requirements](#)
- [Installation](#)
- [Sample Projects](#)
- [Changes & Fixes](#)
- [Known Issues](#)

## 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 or 2.0 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.

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

## System Requirements

This section describes system requirements for the In-Sight OPC Server.

### PC Hardware Minimum and Recommended Requirements

**Notes:**

- The following minimum hardware requirements are for PCs that are connected to a single low-resolution In-Sight vision system running at a slow production speed.
- The following recommended hardware requirements are for PCs that are simultaneously connected to up to four In-Sight vision systems.

Minimum	Recommended
Intel® Celeron® 1000M processor running at 1.8GHz (or equivalent)	Intel Core™ i7 processor running at 2.7GHz (or equivalent)
2GB of available RAM	4GB of available RAM

Minimum	Recommended
4GB of available hard-disk space	8GB of available hard-disk space
Video card that can display 1024 x 768 resolution at 24-bit color depth (the DPI Display setting must be set to 96 DPI)	Video card that can display 1920 x 1080 resolution at 32-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	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

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

## Firmware Version Support

In-Sight 5.7.3 software contains two firmware versions:

- In-Sight 5.7.3
- In-Sight 4.10.5 PR1

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 that run older firmware to the most recent, supported firmware versions. For a list of models and supported firmware versions, see the Firmware Versions topic in the *In-Sight® Explorer Help* file.

### In-Sight Firmware 5.7.3

- In-Sight 5705 and 5705C vision systems
- In-Sight 7000 Gen2 series vision systems
- In-Sight 8000 series vision systems
- In-Sight 9000 series vision systems
- In-Sight Advantage Engine

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

## In-Sight Firmware 4.10.5 PR1

- 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

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

**Note:** If you attempt to install the In-Sight OPC Server on a system with Microsoft .NET Framework 3.5 disabled while Windows updates are being installed, you may receive the following error message: Error installing Microsoft .NET Framework; Error code 0x800f081f. If this occurs, wait for the Windows updates to complete, reboot if necessary, and then install the In-Sight OPC Server.

### 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.

# Changes & Fixes

**Note:** The release notes include issue numbers (where applicable) to better track known issues reported by Cognex Technical Support.

Issue#	Change/Fix	Applicable Firmware Version
IS-525	Fixed an issue that caused an error when attempting to send a String data type from the In-Sight OPC Server to an In-Sight vision system.	5.7.3

# Known Issues

**Note:** The release notes include issue numbers (where applicable) to better track known issues reported by Cognex Technical Support.

Issue#	Issue
ES-22	The In-Sight OPC Server does not support OPC Data Access version 3.0 of the OPC Specification. The OPCNetApi assemblies provided by the OPC Foundation may detect the incorrect server version and fail to connect or sever an existing connection. <i>Workaround:</i> When creating an OPC client application that reference the OPCNetApi assemblies, you must create a new custom factory, where the OpcConnectData.AlwaysUseDA20 flag is honored.
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.