iFIX 6.1

Important Product Information
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Important Product Information for iFI 6.1

Refer to the following sections for key information on using iFIX:

- What's New in iFIX 6.1
- Release Notes for iFIX 6.1
- Known Issues in iFIX 6.1
- Fixed Defects in iFIX 6.1
- System Requirements for iFIX 6.1

What's New in iFIX 6.1

Welcome to the newest version of iFIX! The features of iFIX 6.1 include:

- OPC UA Client Driver
- New OPC UA Client Configuration Tool
- Alarm Limit Support for High Performance Dynamos
- Common Historian Server Configuration
- Auto-Login Support for Windows Users
- New Experts for Alarm Shelving
- iFIX for IoT
- Upgraded Windows Support
- Additional Configuration Settings Available through OPCAConfig.ini
- Updates to FIXVBA
- Updated Third-party Applications
- Support for Recently Updated GE Products

OPC UA Client Driver

iFIX 6.1 includes support for an OPC Unified Architecture (UA) Client Driver. Use this driver to connect to an OPC UA Server and allow access to the data from that OPC UA Server in iFIX.

You can add and configure this driver in the same way you configure other drivers in iFIX. From the System Configuration Utility (SCU) in the SCADA Configuration dialog box (accessed by selecting SCADA > Configuration), add the OUA - OPC UA Client Driver v1.0 in the tool. After you add the driver, you can configure your server, groups, and driver tags using the new HTML5 Browser Based configuration tool.

New OPC UA Client Configuration Tool

iFIX 6.1 includes a powerful new HTML5 native web client that allows users to configure connection to OPC UA Server, browse for data sources, and automatically populate the iFIX database with new tags. Use of the tool will require you to enable security in iFIX.

The supported browsers for the OPC UA Client Configuration tool are Microsoft Edge, Google Chrome, and Mozilla Firefox.

This tool contains the following tabs:

- **Server Configuration**: Here you specify the OPC UA Server name, endpoint URL, security mode (signing options), security policy (encryption type), and authentication settings (anonymous or a specified user).
• **Groups:** Lists groups added or associated with each server, and the publishing interval.
• **Driver Tags:** Lists any data points defined for this OPC UA Server, along with the node ID and group name.

After you configure your driver, you will need to restart iFIX for your changes to get applied.

**NOTE:** Be aware that iFIX self-signed certificates for OPC UA expire in 5 years by default. No warning message will appear when a certificate expires. When expired, you will not be able to make a connection in the OPC UA Client tool or view data coming from the iFIX OPC UA Server. You can regenerate your certificates after an expiration period using the steps described in the "Certificate Management" topic in the OPC UA Client Driver help.

For more information on using this tool, refer to the I/O Driver section of the iFIX e-book.

**Alarm Limit Support for High Performance Dynamos**

The High Performance (HP) HPLinearGauges Dynamos now include support for working with alarm operating limits. From the configuration screen for the HP Dynamo, there are two new options: Display Alarm Limits and Enable Smart Limits.

The Display Alarm Limits feature allows you to display labels for the defined alarm limits in run mode. The optional Enable Smart Limits feature allows you show only the alarm limits that you are approaching on the gauge. Smart Limits help if you have multiple of these Dynamos on screen. In this case, the Alarm Limits labels can crowd the picture and could possibly cause confusion. Smart labels provide the situational awareness with less clutter.

Be aware that if you are upgrading from a previous release, and want to upgrade the HPLinearGauges Dynamo in your picture, be sure to run the Dynamo Updater wizard on the picture to get the new updates.

For more information on using the High Performance Dynamos, refer to the Creating High Performance Pictures e-book.

**Common Historian Server Configuration**

iFIX 6.1 provides the ability to create a common Historian server configuration that can be used across multiple Windows user accounts. The common Historian server configuration is available in any session type including the: iClient, iClientTS, and Webspace Client.

To enable this option in the iFIX WorkSpace, go to the Administration tab, click Configure Historian and then Configure Historian Server. Select the "Enable Historian aliases for all sessions" option. Close the dialog box to save your settings. Restart iFIX Workspace to apply your change.

For more information on configuring Historian servers for use in iFIX, search the iFIX documentation for the "Configuring GE Historian and iFIX" topic. For more information on using iFIX with Historian, see the Getting Started guide.

**Auto-Login Support for Windows Users**

This feature allows iFIX users (both native and Windows users) to automatically log in to iFIX. Previously this feature only applied to iFIX users not connected to Windows security. Now, in iFIX 6.1, you can use Windows domain security to log into iFIX and bypass the iFIX Login screen.
To configure auto-login in iFIX, use the Security Configuration tool. iFIX must be running to access this tool. From the Security Configuration program, on the Edit menu, select Auto Login. The Automatic Login Node dialog box appears. From here you can select the node you automatically want to log in and the user you want logged in. When the Windows user is selected, another dialog box appears requesting the password.

The current implementation only allows one user to be automatically logged in at a time. The auto-login information is stored in encrypted format on the iFIX node. Automatic Login will only work if you are logged onto the computer with the same Windows Domain user as you defined for the iFIX Auto Login feature. For information on auto-login, search the e-books for “Automatic Login” to view additional content.

New Experts for Alarm Shelving

Two new experts were added to the iFIX WorkSpace:

- Shelve Alarm Expert
- Unshelve Alarm Expert

You can access these experts from the Experts toolbar in the iFIX WorkSpace, or the Multiple Command Script Wizard available in the Basic Animation dialog box, Key Macro Editor, or Scheduler.

Alarm Shelving is a feature in iFIX that allows you to temporarily suppress selected alarms from the active alarms list in the Alarm Summary object for a fixed period of time. For an overview on Alarm Shelving, search the e-books for “About Alarm Shelving” for help.

For a complete list of Experts available in iFIX, search the e-books for “Experts Summary” to display the list.

iFIX for IoT

iFIX Embedded is renamed iFIX for IoT and provides a new starter level system, providing a lower-level entry point with a full HMI/SCADA run-time experience. iFIX for IoT will run only on either Windows 7 Embedded or Windows operating systems released under the Long Term Service Channel. Use of iFIX for IoT is further restricted by your End User License Agreement (EULA), please see your EULA for details.

Upgraded Windows Support

iFIX 6.1 includes support for the following new Windows operating systems:


For a complete list of all supported operating systems, refer to the System Requirements tab.

Additional Configuration Settings Available through OPCAEConfig.ini

The iFIX OPC A&E Server includes new settings (DisableStartupAlarms, WhenToSysAck, and LogLevel) that can be enabled through the OPCAEConfig.ini file in the iFIX LOCAL folder. These settings provide assistance in alarm startup, system acknowledgements, and troubleshooting for the OPC
A&E Server. The settings configured in the OPCAECfg.ini file are not included in the UI, and only can be set through this .INI file. The iFIX OPC A&E Server must be restarted after changing any of these settings.

Search the iFIX documentation for the "Configuration Available through the OPCAECfg.ini" topic for more information.

**Updates to FIXVBA**

The iFIX Automation References includes the following method updates. These changes implement a better naming conventions for the specified methods. Old method references will continue to work unchanged.

- GetStatusColor Method has been deprecated and replaced with GetAlarmForegroundColor Method.
- SetStatusColor Method has been deprecated and replaced with SetAlarmForegroundColor Method.
- GetPriorityColor Method has been deprecated and replaced with GetAlarmBackgroundColor Method.
- SetPriorityColor Method has been deprecated and replaced with SetAlarmBackgroundColor Method.

For more information, refer to the iFIX Automation Reference e-book.

**Updated Third-party Applications**

The following applications were updated to support the iFIX 6.1 release:

- iFIX Productivity Tools from Catapult (included on the iFIX install media). Includes updates to support the latest version of iFIX.
- Dream Report 5.0.
- Win911 version 3.18.18.
- Industrial Gateway Server (IGS) 7.66. Includes support for all the latest driver fixes.

**Support for Recently Updated GE Products**

iFIX 6.1 includes support for the following recently updated GE products:

- Webspace 6.0.
- Historian 8.0.
- Plant Applications 8.0.

For a complete list of products and versions tested to work with the iFIX 6.1 product, go to the System Requirements tab and scroll to the Compatibility with Other GE Products section.

**Release Notes for iFIX 6.1**

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If You Are a First-time User...

Run in Demo Mode to Experiment with iFIX Projects First
If this is your first time using the iFIX product, try using iFIX in Demo mode. In Demo mode, you can run iFIX applications for 2 hours. To start in Demo mode, start iFIX from command line using the parameter, like this:

Launch.exe /t

Where to Go First for More Information
Check out the Getting Started with iFIX guide first. The first few chapters of this guide contains detailed information about installing and upgrading iFIX, as well as supported configurations.

For a general overview of iFIX and the WorkSpace, refer to the Understanding iFIX electronic book.

For an overview of how to configure your iFIX system, refer to the Setting up the Environment electronic book.

Licensing on Microsoft Common Controls Installed with iFIX
iFIX installs Microsoft common controls as part of the iFIX installation. These controls are used internally by iFIX. You cannot use them directly unless you have installed a product that provides the license to these controls, such as Microsoft Visual C++ or Visual Basic or have an Microsoft Office product installed. Otherwise, you can download the appropriate distribution package from Microsoft's Knowledge Base.

Installation

Installing as an Administrator
You must install iFIX with a local Windows user account with administrator rights. See your Windows manuals or online Help for information on creating this account.
Installing iFIX

Without an iFIX license, you can run iFIX applications for 2 hours in Demo mode.

**NOTE:** When configured for WebSpace, none of the iFIX SCUs on WebSpace Server should be configured to start iFIX as service, as this is a unsupported configuration.

To install the product:

1. Log in as a user with Administrator rights.
2. Shut down any GE applications or services that run on startup. For instance, if you have Historian Collectors configured to start when you start Windows, use the Services window to shut them down.
3. Follow the steps on your screen. For more detailed information on installing your iFIX product, see the “Installing the iFIX Software” section in the Getting Started with iFIX guide.
5. Make sure that you restart your computer after you finish the install steps.

**TIP:** If you get a message that a necessary Windows security update for the Universal C Runtime component is missing on this computer, be sure to install the Microsoft Update, KB2999226, and then try installing iFIX again. To install KB2999226, you may need to install other updates first. Refer to the Microsoft web site for details. If you get any other Windows error when you try to install iFIX, perform a Windows Update and then try to install iFIX again.

**IMPORTANT:** Be aware that if you do not already have .NET 4.6.1 installed and you choose to install iFIX, the .NET 4.6.1 install will run first. After it installs, you will be prompted to restart your computer. After the restart, the iFIX install continues. The install media must be available or connected to the target machine the entire time for the install to finish.

Installing iFIX with Terminal Services Enabled

**IMPORTANT:** Be aware that all Terminal Server client users should be a member of the Remote Desktop Users group.

Upgrade Notes

**Before You Upgrade or Reinstall...**

Before you upgrade the iFIX product installed on your computer, make sure you shut down all GE applications. It is important that no GE products are running when you run the iFIX installation program.

**IMPORTANT:** Direct upgrades from iFIX 3.5 to the latest version of iFIX are not supported. To upgrade iFIX in this case, upgrade to 5.8 first and then upgrade to the latest version of iFIX.

**NOTE:** iFIX WebSpace must be uninstalled before/after the upgrade to iFIX 6.1. Instead of iFIX WebSpace, WebSpace 5.0 needs to be installed and configured to work with iFIX.
**IMPORTANT:** If you are upgrading from a previous version of iFIX with failover enabled, and you want to use the Enhanced Failover feature in iFIX 5.0 or greater, there are a number of issues that you must be aware of. For detailed information and steps describing how to upgrade your failover system, see the Enhanced Failover and Upgrading* section on the New Features tab.

Save copies of your existing .INI files with your application preferences and any custom files you create; customized files may be overwritten during an upgrade. As such, you may need to integrate your custom changes into the newer versions of these files after you upgrade.

Back up your existing iFIX projects. This includes the files in your LOCAL, Config Files Backup, PIC, and PDB folders.

It is also recommended that you create a backup copy of your Alarm ODBC configuration file(s).

Export a report of your system configuration (SCU), for reference. (In the SCU, on the File menu, click Report.)

Export a report of your security configuration, for reference. (In the Security Configuration application, on the File menu, click Export.)

If you have an application created by an Integration Toolkit, Database Dynamo Toolkit, or System Extension Toolkit from iFIX 2.5 or earlier, and you want to use this application with iFIX 6.1, do not uninstall iFIX. You must install iFIX 6.1 over your existing iFIX configuration. Your toolkit application will not run if you uninstall your previous version of iFIX.

Be sure to obtain any toolkit updates that you need, prior to installing iFIX.

**CAUTION:** If you choose to integrate Historian with iFIX, make sure that your database tags have unique names. If both your iFIX and Historian databases have the same tag name, when you import an iFIX tag into the Historian database, the Historian tag will be overwritten with the tag of the same name from the iFIX database. For more information, see Using iFIX with Historian and Troubleshooting Historian and iFIX.

**Upgrade Steps**

To upgrade to the latest version of iFIX, perform the following steps:

1. Confirm that you backed up all the applicable files. Refer to the Before You Upgrade or Reinstall... section above for more details.
2. Shut down any GE applications or Proficy services that are running. For instance, if you have Historian Collectors configured to start when you start Windows, use the Services window to shut them down.
3. Run the iFIX product install. A message box appears asking you if you want to upgrade your system.
4. Click Yes to continue.
5. Follow the instructions on your screen.

**Standard Chart Upgrade Notes**

Be aware that after an upgrade, if you have Standard Charts with Classic Historian data for data sources, that you may need to modify these data sources after an upgrade. When configured for use by pens in the Standard Chart, single quotes in Classic Historian data sources are not stripped out after an upgrade.
Pictures and the Upgrade

Prior to iFIX 6.1, when you opened a picture from a previous version of iFIX in the newer version, and saved it, your picture was automatically updated to the newest version of iFIX. Pictures created with iFIX 5.5 (or earlier) were created with a Logical Coordinate System, which uses logical units for screen measurements. The Logical Coordinate System allowed this automatic upgrading.

With iFIX 6.1, pictures are not automatically upgraded because this version uses the Enhanced Coordinate System for screen measurements. An expert is provided to easily upgrade pictures you select from the legacy Logical Coordinate System to the new Enhanced Coordinate System.

You can use both the Logical and Enhanced Coordinate Systems with iFIX. For example, you can edit a legacy picture before you upgrade it. By default, the Enhanced Coordinate System is enabled for new picture creation. For more information on this expert and on coordinate systems, refer to the Creating Pictures e-book

NOTE: Be aware that pictures with Enhanced Charts containing tag groups will display a message on upgrade. However, pictures with Historical datalinks and Historical animations with tag groups will not.

Due to the design of the VisiconX objects in iFIX 5.0 and greater, it is recommended that you manually replace your older VisiconX objects with the newer versions (if you are upgrading from a version of iFIX prior to iFIX 5.0).

The Database and the Upgrade

Be aware that when you upgrade to iFIX 6.1, the file size of your process database file will increase.

When you upgrade your database, the high and low engineering units (EGU) fields are converted from single precision to double precision floats. This means the degree of accuracy (the Epsilon value) changes from +/-0.00000012 to +/-0.0000000000000022. If you are using extreme ranges (very large or very low values) for your EGU limits, you may possibly experience issues after an upgrade. To resolve these issues, open the Database Manager, export your database and then re-import it. This procedure resets the block values.

DDA Drivers and the Upgrade

If you are using DDA drivers, such as ROC, BR3 or MBR, you must reinstall them after upgrade. If the driver installation files are unavailable, you can use a copy of your existing FIX.INI file to compare to the one created after the upgrade. Then, copy the missing lines from your old FIX.INI file to your new FIX.INI file.

Custom *.fxg Files and the Upgrade

Be aware that if you use custom .fxg files with iFIX and you choose to upgrade, you will need to re-register these .fxg files after the iFIX upgrade. For more information on how to re-register the WorkSpace, refer to the "Adding Files to the System Tree" topic in the Mastering iFIX e-book.
**Restoring the Settings in the iFIX .INI Files**

As you install iFIX, the product install program places a new version of the startup control file, FIX.INI, into your iFIX Local folder. The previous version of this file is copied to the Config Files Backup folder, along with the other configuration files.

If you configured Database Dynamos, also known as loadable blocks, or other custom programs to run as part of iFIX startup, you should compare the new FIX.INI file in the Local folder against the FIX.INI file stored in the Config Files Backup folder. If you find any changes between the two files, add the necessary lines to the FIX.INI stored in the Local path.

Additionally, you should restore other .INI files as necessary, using the same process.

**Upgrading Database Dynamos**

Database Dynamos, also known as loadable blocks, will require updates to work with iFIX 6.1. If you have old Database Dynamos on your system, the iFIX install program will detect them, and generate a warning message.

The GE Digital web site contains updated versions of the Database Dynamos supplied by GE Digital. To obtain updated version of other dynamos, contact the vendor of that dynamo. To obtain the current version of the Database Dynamo Toolkit, contact your local iFIX sales representative.

**Upgrading Application Toolkit files**

If you have an application created by an Integration Toolkit, Database Dynamo Toolkit, or System Extension Toolkit, and you want to use this application with iFIX 6.1, do not uninstall iFIX. You must install iFIX 6.1 over your existing iFIX configuration. After installing iFIX, rebuild your existing applications with the newest toolkit available to ensure compatibility with iFIX 6.1.

**Supporting VBA 6.5 After an Upgrade**

In VBA 6.5, certain event parameter data types are interpreted differently than in earlier VBA version. For instance, one of these data types is the VBA ErrObject. The VisiconX Data Control uses the ErrObject data type in two of its events.

If a picture created with an earlier version of iFIX contains a VisiconX Data Control, and also contains VBA 5.5 scripts added for the VisiconX Data Control's ErrorOccurred event or ExecuteComplete event, when the picture is opened in iFIX 6.1, it will generate a compiler error indicating an invalid character '_'.

This occurs because the ErrObject in VBA 5.5 is declared as type "VBA._ErrObject", and in VBA 6.5, it is declared simply as "ErrObject".

To correct the compiler problem and make the scripts function correctly, make the following changes to the event declarations:

**iFIX 2.21 and earlier with VBA 5.5:**

Private Sub vxData1_ErrorOccurred(pError As VBA._ErrObject)
End Sub

**iFIX 6.1 with VBA 6.5:**
Private Sub vxData1_ErrorOccurred(pError As ErrObject)
End Sub

**iFIX 2.21 and earlier with VBA 5.5:**

Private Sub vxData1_ExecuteComplete(pStatus As VBA._ErrObject, sQuery As String)
End Sub

**iFIX 6.1 with VBA 6.35:**

Private Sub vxData1_ExecuteComplete(pStatus As VBA._ErrObject, sQuery As String)
End Sub

**NOTE:** This problem may occur with other ActiveX controls and data types that GE has not directly encountered. If you see problems, you should insert the control into a new picture, go to the VBA Editor, and examine the syntax used to declare events for the control in the new picture. Use the information provided in this section to edit the event declarations in the existing picture.

**Important Information for Windows Users**

**Accessing Remote OPC Servers in Windows**

Before you can access remote OPC servers in iFIX, such as through the Discovery and Auto-Assembly Component (DAC) and the OPC Client driver, you must make sure that your firewall settings are correct, and that the DCOM settings for your operating system are correct. For detailed steps on how to do this, refer to the "Setting up for Remote OPC Server Access" chapter in the Getting Started with iFIX book.

**Disabling Fast Startup in Microsoft Windows 8.1**

In Windows 8.1, there is a functionality available in the Power Options called Fast startup (Power Options are accessible from the Settings > Control Panel). When Fast startup is enabled as a Power Option (the default) and you power down your computer or tablet, Windows will save the current state of the system. The next time you restart Windows, your previous state is restored. This is because, by default, Microsoft Windows 8 and 8.1 shuts down by logging off all users and then hibernating. In this case, any service that was running will continue to run on the next startup.

When iFIX is running as a service, you may want to avoid this "Fast Startup" functionality. To revert to the full shutdown on Windows 8.1, in the Power Options on the SCADA Server, select "Choose what the power buttons do." Select the Change settings that are currently unavailable option and then scroll down to the Shutdown Settings area, and clear the Turn on Fast startup option.

(The "Fast Startup" feature is not available on Microsoft Windows Server 2012.)

**Troubleshooting iFIX Product Issues After the Install**

**My-T-Soft Window Display Issues**

If you install the My-T-Soft on screen keyboard for use with iFIX and experience window display issues, such as the Minimize button being hidden off-screen, you can use the MYTSOFT.ini file to adjust the settings of the application.
For example, when you have the WorkSpace in Ribbon view (the default), the caption bar with the Minimize icon is displayed off screen. It’s there, but you cannot view it. My-T-Soft allows you to customize where the Minimize button positions itself through the MYTSOFT.ini file located in the iFIX install folder. By changing the ButtonOffsetY=0 setting to a positive number, you can move the button down a specified number of pixels, allowing the Minimize button and caption bar to show in full screen, when in ribbon view. After this value is configured, the My-T-Soft keyboard will always display in that specified offset position.

**iFIX Does Not Start After an Upgrade**

Be aware that when you install iFIX over an existing version, the security privileges for the iFIX folder may allow Read and Execute permissions only. Limited permissions can cause various problems, such as the inability to open the STARTUP.LOG file or to write to the Alarm Area Database files.

To change the security permissions on this folder, follow these steps:

1. Open Windows Explorer by clicking the Start button, and pointing to Programs, Accessories, and then Windows Explorer.
2. Locate the folder to which you installed iFIX. (For example: C:\Program Files (x86)\Proficy\Proficy iFIX).
3. Right-click the IFIX folder and select Properties from the right-click menu. The Properties dialog box appears.
4. Click the Security tab.
5. Select the Users group in the top half of the dialog box.
6. Select the Allow check box for the Modify, Read and Execute, List Folder Contents, Read, and Write permissions in the bottom half of the dialog box.
7. Click OK.

**Unsupported Items and Recommendations**

**Enhanced Failover and Legacy Clients**

An iFIX network that contains iFIX version 5.9 Enhanced Failover SCADA nodes and also contains older iFIX client nodes may not be supported:

- An iFIX client node, installed with iFIX version 5.5 or later, is fully compatible with iFIX version 5.9 Enhanced Failover SCADA nodes.
- An iFIX client node, installed with iFIX version 5.1 and updated with the iFix51_Pulse10_Workspace_019 SIM (Software Improvement Module), is fully compatible with iFIX version 5.9 Enhanced Failover SCADA nodes.
- An iFIX client node, installed with iFIX version 5.1 and not updated with the iFix51_Pulse10_Workspace_019 SIM is **not** compatible with iFIX version 5.9 Enhanced Failover SCADA nodes.
- An iFIX client node, installed with iFIX version 5.0 or earlier, is not compatible with iFIX version 5.9 Enhanced Failover SCADA nodes.

**IMPORTANT:** In an Enhanced Failover pair, both SCADA nodes must have the same iFIX version installed with all SIMs.
Microsoft Office Document References in the iFIX WorkSpace System Tree

You can no longer open new Microsoft Office documents (such as Microsoft Excel or Word 2013 or 2016) inside the iFIX WorkSpace. These documents will now launch separate in the associated Microsoft application, outside of the WorkSpace.

If you want to archive these Microsoft applications along with your project with Backup and Restore or Change Management, the Excel and Word documents must be saved to "App" sub-folder in the WorkSpace system tree.

Ribbon View and Unsupported Microsoft Windows Themes

High Contrast themes are not supported when running the iFIX WorkSpace in Ribbon view.

iFIX Screen Saver

The iFIX Screen Saver only supported on Microsoft Windows 7.

UNC Paths and Install

Installing the product from UNC paths is not supported or recommended.

Running SCADA Nodes on Wireless Devices

It is strongly recommended that you do not run SCADA nodes on wireless devices. Running an iFIX SCADA on a wireless device may impact performance, as most available wireless protocols fall below the recommended bandwidth requirements.

Intel Itanium Processor

The Intel Itanium Processor is not supported for iFIX on 64-bit operating systems.

Alarm Viewer

The Alarm Viewer is no longer installed as part of iFIX. If you are upgrading from a previous version of iFIX, your pictures with Alarm Viewer objects will continue to work. At the time of this release, however, the Alarm Viewer is not supported on a Windows 64-bit enabled operating system.

Migration Tools are Removed from iFIX 6.1

Migration tools are not supported from iFIX 6.1, if ODF files exist then user must use older versions of iFIX to upgrade screens.

FIX Desktop

iFIX no longer supports FIX Desktop.
**Classic Historian**

As of 6.1, iFIX no longer supports Classic Historian and it has been removed from the program. Updating to iFIX 6.1 (or later) from a previous version will remove the Classic Historian binaries. Before updating, make sure you have a plan to migrate your historical data to Historian Essentials, or some other permanent storage.

**Migration Tools**

iFIX 6.1 does not support the FIX32 migration tools. If an .ODF files exists, that you want to convert, you must use an older version of iFIX to upgrade screens first before opening the picture in iFIX 6.1.

**Historian 4.5 and Earlier**

Historian 4.5 and earlier are not supported.

**Historian for SCADA**

Historian for SCADA version 4.5, 5.0, 5.5 are not supported with iFIX 6.1. Users with Historian for SCADA 4.5, 5.0, 5.5 will be required to upgrade to Historian Essentials.

**Speedstep Technology**

SpeedStep technology is not supported and must not be enabled.

**IPv6**

FIX does not make use of any IPv6 functionality.

If you disable IPv6 to use WebSpace, make sure that your local HOSTS file does not contain any IPv6 references. For example, remove the "::1 localhost" lines from the HOSTS file, and replace them a line that references the IP address and the local host name (if necessary).

**Unsupported Windows Operating Systems**

The following are no longer a supported operating system for iFIX:

- Microsoft Windows Server 2008 R2
- Microsoft Windows 2003
- Microsoft Windows XP
- Microsoft Windows XP Embedded
- Microsoft Windows 2000
Drivers and Operating System Compatibility

Be sure to check with the vendor of your driver software to confirm that your driver supports the operating system you want to run it on.

DAC and Operating System Compatibility

Be sure to check with the vendor of your driver software to confirm that your driver supports the operating system you want to run it on. If your driver is not supported on the specified operating system, you may experience issues with the Discover and Auto Configure (DAC) tool since it interfaces with the driver.

OPC and Running as a Service and on Some Operating Systems

If you want to run the OPC Client driver as a service, iFIX must also run as a service. Likewise, if you want to run iFIX as a service, the OPC Client driver must run as a service. You cannot run one as a service, without the other also running as a service.

If you want to run the OPC Client driver on a specified operating system, be sure to check with the vendor of your OPC Server software to confirm that your OPC Server supports the operating system you want to run it on.

It is recommended that you install the latest OPC Core Components from the Downloads section of the OPC Foundation web site: http://www.opcfoundation.org. The latest OPC Core components are designed for use on a 64-bit OS.

Backwards Portability of Alarm ODBC Configuration

Once you open or create an Alarm ODBC configuration file in iFIX 6.1, you cannot open that file on a node running iFIX 2.6 or earlier. Opening the file on a node running iFIX 2.6 or earlier will cause unpredictable results. It is recommended that you create a backup copy of your Alarm ODBC configuration file before installing the latest iFIX version.

Backwards Portability of Process Databases

To ensure a secure signing environment, GE Digital strongly discourages editing an iFIX 6.1 process database on an older-version node. If you open a 6.1 database on an older-version node, such as 2.6, you cannot add or modify individual tags, although it is possible to modify the database, such as to delete and duplicate tags. Do not do this.

Backwards Compatibility of 5.9 Pictures

The iFIX 6.1 pictures are not backwards compatible in earlier versions of iFIX, such as iFIX 5.9, 5.8, 5.5, 5.1, 5.0, 4.5, 4.0, 3.5, 3.0, or 2.5. If you try to open an iFIX 6.1 picture in an earlier version of the iFIX WorkSpace, an error message appears stating that you need to upgrade your software to the newer
release, and the file does not load. If you use multiple versions of iFIX, store your pictures locally or use a separate shared pictures path for each version of iFIX.

**OPC Servers that Require an Access Path**

The iFIX WorkSpace does not support OPC servers that require an Access Path, such as RSLinx. To use an OPC Server like RSLinx with iFIX, configure the server so that it does not require a value for the access path. In order to do this with RSLinx, use the following syntax: [topic]item.

**Mission Control's Datascope Screen with 7.x Drivers**

The Datascope screen in Mission Control does not work with version 7.x drivers. If you select a version 7.x driver in Mission Control, you cannot use the Datascope button.

**Using the Virtual Keyboard to Enter Large Amounts of Data**

The virtual keyboard is designed for password and data entry. Avoid using this virtual keyboard for entering large amounts of text in Windows, as unexpected behavior may result. Certain combinations of key-strokes may cause the virtual keyboard to display incorrect characters. The virtual keyboard should behave as expected if you restrict its use to entering passwords and other data entry.

**Using iFIX Objects in Other Applications**

iFIX ships with several objects that are for internal use only. Please refrain from using these objects in external applications. Some examples of these objects are:

- iFIX Alarm Summary Control
- iFIX Color Button Control
- iFIX Expression Editor Control
- iFIX WorkSpace Expression Editor

**Modifying the ExpertGlobal.fxg or ExpertGlobals2.fxg**

It is strongly recommended that you do not modify ExpertGlobal.fxg or ExpertGlobals2.fxg. If you do modify either of these files, you may experience problems installing a subsequent SIM. If the modified ExpertGlobal.fxg or ExpertGlobals2.fxg file has a newer date than the one in the SIM, the SIM installation will fail. You will either need to remove the modified file or rename it to successfully install a SIM.

Instead of modifying the file, you can copy any of the experts from this file and incorporate them into your own custom toolbar.

**Data Bound Controls**

Do not use Visual Basic Data Bound controls with iFIX. These controls are not supported by VBA.

**Quit Method's SaveChanges Parameter**

The SaveChanges parameter for the Quit method is not supported at this time. Regardless of the parameter you enter, you are prompted whether or not you want the option to save changes. If you select
Yes, you are prompted to switch to the Configure environment to save changes. If you select No, the WorkSpace closes without saving changes.

Find and Replace Object Outside of the WorkSpace
The Find and Replace object is not accessible from clients that reside in a process outside the WorkSpace. Any programs you create using Visual Basic will not support the Find and Replace feature.

VisiconX and Large Databases
Caution is advised when using VisiconX and large databases. VisiconX controls do not perform well with really large databases.

Microsoft Windows Related Issues

Updating Root Certificates
If you are unable to run My-T-Soft, install the update for the root certificates. For more information and for the update, see Microsoft knowledge base article KB931125.

Incorrect Icons Appear in Start Menu or Desktop Shortcuts
Windows saves a cached copy of all icons. If the icon cache becomes corrupt, incorrect icons may appear.

To fix this issue, display hidden files in Explorer, delete the icon cache file, and restart Windows. This action restores the icon cache.

iFIX WorkSpace Related Issues

WorkSpace Startup
After starting the operating system, the first time the WorkSpace is started, you may notice that it takes longer for the WorkSpace to start up. Subsequent WorkSpace startups will not experience the delay. The delay is related to the number of pictures in the picture folder, so smaller projects may not experience the delay.

Print to File Option Not Working Properly For Pictures or Schedules
From the iFIX WorkSpace, when you open a picture or schedule and then click Print, the Print dialog box provides a "Print to File" option. If you select this check box, the file is not created. A dialog box does not appear requesting a file name. And, the file is sent to the printer, even though you selected the Print to File check box. There is no known workaround for this issue.

Changing the System Year to 2038 Causes Unpredictable Behavior
If you change the system year to 2038, the iFIX WorkSpace may behave unpredictably and shutdown. This is a C programming language Y2K issue and is caused by the standard time library in C. There is no
known workaround for this issue.

**Clicking the Calendar Control Shuts Down the WorkSpace**

If you double-click a calendar control in the iFIX WorkSpace configure mode, or if you single-click it in WorkSpace run mode, it may shut down the WorkSpace. The Microsoft Calendar control causes similar issues in other Microsoft Office products. This is a known Microsoft issue.

**A Picture or Dynamo Appears Distorted in Logical Coordinate System**

It is possible that when a picture or Dynamo set is created with the Logical Coordinate System at one resolution, it will appear distorted when viewed on a monitor with a different resolution. This may occur because the default display properties of Windows are causing the autoscale function of iFIX to function improperly, or are making a VBA form that prevents the picture or Dynamo from updating properly.

To correct this problem:

1. Open the Windows Control Panel.
2. Click the Appearance and Personalization link.
3. In the Personalization category, click the Customize Colors link.
4. Click the "Open classic appearance properties for more color options" link. The Appearance Settings dialog box appears.
5. Click the Effects button.
6. Clear the Show window contents while dragging check box.

**NOTE:** The TrueColor graphic display option also distorts some Dynamos. We recommend that you avoid using it.

**Guidelines for Using the iFIX Cross Reference Tool**

**Avoid Missing References in your Pictures**

When you use the Cross Reference Tool Report Wizard to generate a report on a .GRF file that has a missing reference, an error message appears in the background, and the Cross Reference Tool report generation is halted.

The report generation remains halted until you click on the Cross Reference Tool. This causes the following message to appear: "An action cannot be completed because a component (iFIX WorkSpace (Configure) is not responding. Choose "Switch To" to activate the component and correct the problem."

Use the Switch To button and acknowledge the several dialog boxes that appear. To avoid this problem altogether, check for missing references before running the report wizard.

**Close All Dialog Boxes in the WorkSpace Before Running the Report Wizard**

If you try use the Cross Reference Tool Report Wizard when certain dialog boxes are open in the WorkSpace, such as the User Preferences or the Find and Replace dialog boxes, an error may occur.

For instance, the following message may display: "The Cross Reference application could not export VBA script files. Your ExpertGlobal may be corrupted. Cross Reference is exiting."
Click OK to acknowledge this message and allow the Cross Reference application to exit. To prevent this message from occurring in the first place, close all dialog boxes in the WorkSpace before you run the Report Wizard in the Cross Reference Tool.

Avoid Running the Report Wizard with Read-Only Files

When you use the Cross Reference Tool Report Wizard to generate a report, the following message appears if one or more of the files is read-only: "An action cannot be completed because a component (iFIX WorkSpace (Configure)) is not responding. Choose “Switch To” to activate the component and correct the problem."

When you switch to the WorkSpace, this error appears: "Error number -214721306. The file you are attempting to open has been renamed outside the WorkSpace. Please make sure you have write access to the file and try again."

Once you clear these messages, run the report again. Additionally, you can also use either of these techniques to resolve this issue:

Remove the read-only attribute - Identify all files being searched for that have a read-only attribute. Remove the read-only attribute.

Upgrade the file - Upgrade the file if you choose to leave the read-only attribute. To upgrade the file, remove the read-only attribute on the file, open the file in the WorkSpace configuration mode, and close the file. The file is automatically upgraded. You then have to add the read-only attribute to the file.

Working with Other GE Products

Using Historian with iFIX

Security Considerations

If security is enabled for Historian, and you do not have the necessary security group memberships, you will not be able to use Mission Control to start or stop Historian collectors. To give the iFIX WorkSpace and Mission Control access to the Historian collectors, configure a user name and password in one of the following Historian dialog boxes:

- Configure the Historian Server(s) Access this dialog box by clicking Configure Historian Server on the Historian toolbar.
- Historian Administrator Login Access this dialog box by opening the Historian Administrator and clicking Main.

Be sure to read the Historian IPI (Important Product Information) document for tips about using the product in general.

Please refer to the KB web site, https://digitalsupport.ge.com/, and look for article ID: 15129 for authentication information for WebSpace and Historian

Regional Settings Considerations

The iFIX Scheduler and charts can use Historian data that supports Daylight Savings Time. However, before allowing automatic Daylight Saving Time to be used in a production environment, you should test your application under each of the following scenarios for proper behavior:
• While in Standard Time.
• While in Daylight Time.
• During the transition from Standard Time to Daylight Time.
• During the transition from Daylight Time to Standard Time.

Working with iFIX Drivers

Using the PowerTool after Installing iFIX
Each 7.x driver has a PowerTool. If you want to run the PowerTool configuration program of a 7.x driver without running iFIX, you must have an iFIX key installed.

Starting 7.x Drivers Automatically in iFIX
The startup list in the SCU typically has the /A command line parameter in the IOCNTRL.EXE program. The /A parameter is used to start all I/O drivers identified in the SCADA configuration of the SCU.

Use the Advanced tab of the PowerTool dialog box to set the Auto Start for each driver. If you do not use the /A parameter and:
• the Auto Start setting in the PowerTool is set to On, 7.x driver starts automatically.
• the Auto Start setting in the PowerTool is set to Off, 7.x driver does not start automatically.

Issues with Remote OPC Servers and the WorkSpace
When remotely connected to some OPC servers, the iFIX WorkSpace does not shut down after exiting. You may experience this issue with the following drivers:

• ABR
• GE9
• M32
• MBE
• OPC
• SI5
• SL4
• SI7

Refer to the GlobalCare web site for software downloads for I/O driver updates:

https://digitalsupport.ge.com

Using Third-Party Products with iFIX

Upgrade Older Versions of Third-Party Controls
Be aware that using an older version of some third-party controls, such as AMOVIE.OCX, may cause memory overwrites. These overwrites may in turn cause iFIX to perform unpredictably. To avoid problems with third-party controls, be sure to use the most recent version of all third-party controls.
Use the MSFlexGrid Control Effectively

If you use the MSFlexGrid control in an iFIX picture, you may encounter slow performance when you try to open or save your picture, or when you try to switch environments. To resolve this issue:

1. Open a new picture.
2. Drag and drop the MSFlexGrid control from the old picture into the new picture.
3. Delete the MSFlexGrid control from the old picture.
4. Save the old picture.
5. Drag and drop the MSFlexGrid control back into the old picture and re-save it.
6. Delete the new picture.

Licensing Issues with MSFlexGrid Control

When inserting an MSFlexGrid control into the WorkSpace, you may receive an error message indicating that you do not have a license to use this control. If this occurs, you need to either install Visual Basic on the computer where you are running WorkSpace, or add the licensing keys to the registry.

For more information, refer to the Microsoft Knowledge Base article 318597.

Register Third-Party OPC Data Sources Properly

Certain third-party OPC servers do not support the ValidateItems call. If you try to connect to items in that third-party OPC server through the iFIX Animations dialog box, you will get an error for items that exist in your OPC server: "ItemName Source does not exist. Create or Use Anyway?"

To eliminate this error, you need to make the following registry change for the OPC data source.

1. Add the string value "ValidateItemsNotSupported" to \HKEY_CLASSES_
   \ROOT\FIX32\DataSources\OPCERVERNAME key.
2. Set the string value to "true".

For example, if your third-party OPC server is installed as SOMEOPCERVER, then you would add the string value "ValidateItemsNotSupported" to \HKEY_CLASSES_
\ROOT\FIX32\DataSources\SOMEOPCERVER key, setting the string value to "true." This change verifies that data items on OPC Servers not implementing the ValidateItems call can be read.

Optimizing iFIX Performance

Activate Duplicated Tags by Reloading the Database

When you duplicate a tag in Database Manager, the new tag will only return a value once, unless you save and reload your database. For example, if you have a link in a picture that monitors the current value of an AI tag connected to a SIM register, you can duplicate this tag, rename it, and add a link to the picture that monitors this new tag. However, after the first read, subsequent reads will not work until you save and reload the database.
For More Tips on Optimizing iFIX...

Look up "optimization, introduction" in the online help Index. This link brings you to an Introduction in the Optimizing Your iFIX System guide. This guide lists tips and strategies you can use while developing pictures, writing scripts, and implementing your iFIX system.

**iFIX VBA Tips and Tricks**

Visual Basic for Applications, or VBA, is the standard scripting language built into iFIX. VBA can be used to customize and extend the functionality of iFIX. Use these guidelines when creating applications in the Visual Basic Editor from iFIX:

- Refrain from using punctuation marks, pound sign (#), and VBA reserved words within VBA file names.
- Avoid generating a script within a script, that is currently executing. This causes unpredictable results.
- Do not use the WM_CLOSE SendMessage to close a user form; the object does not get destroyed properly. If you must close a form with a script, use the WM_DESTROY SendMessage.
- Avoid referencing the Intellution iFIX Find and Replace Mechanism v1.0 Type Library in your project. It causes an error when you compile your script.
- Be aware that a script based on an object’s event should not call the DestroyObject method on the parent of the same object. Doing so causes unpredictable results.
- If you are using any of the iFIX subroutines to write data back to the database, use the F.CV field as the data link. Using the A.CV field may cause unpredictable results.
- Do not use the DblClick event when you configure a Data link for "In-Place" data entry. If you do, the DblClick event does not execute.
- Do not access class modules that are declared as PRIVATE in an out of process environment, such as user.fxg, expert globals, or any Global pages. This is not allowed.
- Be aware that when you change a source tag in iFIX, an automation error displays if you do not allow iFIX enough time to establish the new connection before you read the InputValue property. The wait time depends on the scan time of the event object source tag.
- If you set a tag with a static value as the source tag twice in a row, you will cause an automation error.

For more information on using VBA in your iFIX projects, look up "summaries" or "scripting, in iFIX" in the online help Index.

**Code Example: Checking for a Null Value with the iFIX RealTime ODBC Driver**

The iFIX RealTime ODBC driver was built to allow NULL values to be returned. For example, when checking iFIX real time data for a tag that does not exist, a value of NULL is returned when the tag is not found. In some instances, it may be helpful to check for the NULL value so that it is not counted as one string returned. The following is an example of code that will allow you to check for the NULL value:

```vbnet
If Record.ID "" Then
    MSG = "A valid record exists"
Else
    MSG = "A null situation exists"
End If
MsgBox MSG
```
Code Example: Creating a VB Client Application Properly

Creating a VB client application that accesses the WorkSpace.Application object through early binding causes unpredictable results. For example, the following sample script, which uses early binding, causes the WorkSpace to terminate unexpectedly:

Private Sub Form_Load()
    Dim iApp As CFixApp
    Dim iSystem As Object
    Set iApp = CreateObject("WorkSpace.Application")
    Set iSystem = iApp.System
End Sub

To avoid this problem, replace the second line in the above sample script with the following line:

Dim iApp As Object

Uninstall and Reinstall Issues

If iFIX is used by multiple users, and you uninstall and then reinstall it to a different folder, you may experience issues with some users. These user issues can also occur in other versions of iFIX.

For example, say UserA installs iFIX to C:\LocationA, and then both UserA and UserB make use of iFIX. If UserA uninstalls iFIX and then reinstalls iFIX to another location, say D:\LocationB, without deleting C:\LocationA, UserB may experience issues. Although UserA will be able to use iFIX in its new location without any problems, UserB will see several error messages if he tries to launch iFIX or the SCU, since his registry paths still point to C:\LocationA.

As a workaround, open the Windows Registry and delete the HKEY_USERS\USERID\Software\Proficy\iFIX\ProjectPaths key which contains the old paths. For example, deleting the HKEY_USERS\S-1-5-21-3882306234-4042192530-3641380709-1028\Software\Proficy\Proficy iFIX\ProjectPaths key would alleviate this issue for a user with an ID of S-1-5-21-3882306234-4042192530-3641380709-1028. After updating the Registry, be sure to restart iFIX.

IMPORTANT Add/Remove Information for Historian

If you choose to remove Historian from the Add or Remove Programs in the Control Panel, do not remove Microsoft system files if prompted to do so. This could cause critical operating system issues.

Company Name References

All references to the entity formerly known as GE Intelligent Platforms or GEIP now refers to GE Digital.

Fixed Defects in iFIX 6.1

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<thead>
<tr>
<th>Case#</th>
<th>Area</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DE66272</td>
<td>Historian</td>
<td>Long Tag Names Added through iFIX Collector Show Bad Value - No Values Updated or Logged in Historian</td>
</tr>
<tr>
<td></td>
<td></td>
<td>When using iFIX 6.1 with Historian 7.1, this issue is resolved. Long</td>
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<tr>
<td>Case#</td>
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<tr>
<td></td>
<td>tag names (256 characters) are supported. When using with GE Historian 7.0 SP6 or earlier, you must limit iFIX tag names to 199 characters or less to support the Historian iFIX Collector and Historian Administrator interface. Using tags longer than 199 characters with Historian will result in an unstable system.</td>
<td></td>
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<tr>
<td>CS0151285</td>
<td>Chart Group Wizard</td>
<td>Chart Group Wizard Does Not Allow More than 2 Decimal Places for High and Low Limits.</td>
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<tr>
<td>SF00477594</td>
<td>Standard Chart</td>
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<tr>
<td>SF00647070</td>
<td>Security Synchronizer</td>
<td>Security Synchronizer error when running iFIX Backup and Restore.</td>
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<tr>
<td>SF00473642</td>
<td>Dynamos</td>
<td>On Dynamo update, new instance is not holding the togglesource property setting of the FixLookup objects.</td>
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<tr>
<td>SF00375839,</td>
<td>Dynamos</td>
<td>On Dynamo update, when Dynamo's internal component is used as Animation source, it keeps link to older version.</td>
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<tr>
<td>SF00383259</td>
<td></td>
<td>This issue is resolved in iFIX 6.1.</td>
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<tr>
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<td>Historical Data ODBC Driver</td>
<td>Applications crash when using FIX Dynamics Historical Data ODBC Driver.</td>
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<td>New Webspace client is unable to connect to and access archived data from Historian Mirror system when Primary Historian server is down.</td>
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<tr>
<td>CS0001880</td>
<td>WorkSpace</td>
<td>Third-party ActiveX controls, such as Calendar Control 8.0, are not scaled properly when the Workspace is switched to run mode.</td>
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<tr>
<td>CS0002995</td>
<td>Historian</td>
<td>Changes made in Historian Admin UI are not getting updated in iFIX PDB on Reload.</td>
</tr>
<tr>
<td>CS0137735</td>
<td>WorkSpace</td>
<td>Workspace crashes when creating Data Source on-the-fly for Text object animations.</td>
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<tr>
<td>CS0083916</td>
<td>Standard Chart</td>
<td>The Standard Chart time cursor shows &quot;No Data&quot; when the pen is in a time zone different from the local one.</td>
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<table>
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<tr>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>CS0089534</td>
<td>Dynamos</td>
<td>Dynamo connects to wrong object when double-clicked. This issue is resolved in iFIX 6.1.</td>
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<tr>
<td>SF00597157</td>
<td>Enhanced Failover</td>
<td>The DataSyncMonitor Health field shows incorrect total memory size. This issue is resolved in iFIX 6.1.</td>
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<td>SF00595047</td>
<td>Enhanced Failover</td>
<td>Primary SCADA becomes Active when it should remain Standby. This issue is resolved in iFIX 6.1.</td>
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<tr>
<td>SF00685774</td>
<td>Electronic Signatures</td>
<td>Help button in Electronic Signature dialog is not needed in run mode. This issue is resolved in iFIX 6.1.</td>
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<tr>
<td>SF00386062</td>
<td>Enhanced Failover</td>
<td>Recipe download causes Active SCADA to switch to Standby. This issue is resolved in iFIX 6.1.</td>
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<tr>
<td>CS0089009</td>
<td>Event Messaging</td>
<td>Event Messaging (Suspend mode) is missing in Dbbfld.ini for non-English iFIX. The appropriate fields also are not assigned to Column display name for fields listed after the Event Messaging (Suspend mode) entry in the Dbbfld.ini. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>CS0196553</td>
<td>Database Manager</td>
<td>AA HI Pri&quot;, AA HI Contact&quot;, &quot;AA HI Status&quot;, and &quot;Al HI Alarm&quot; are not translated correctly in German in the DbbFld.ini. This issue is resolved in iFIX 6.1.</td>
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<tr>
<td>SF00664113</td>
<td>Enhanced Failover</td>
<td>iFIX OPC A&amp;E Server does not remove alarms from AE client after use of Maintenance Mode. This issue is resolved in iFIX 6.1.</td>
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<tr>
<td>SF00536177</td>
<td>iFIX OPC A&amp;E Server</td>
<td>iFIX OPC A&amp;E Server Needs a user configurable parameter to disable Startup Alarms. This issue is resolved in iFIX 6.1.</td>
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<tr>
<td>CS0073751</td>
<td>iFIX OPC A&amp;E Server</td>
<td>iFixOPCAESrv.exe crashes while processing alarm acknowledgment messages containing long tag names. This issue is resolved in iFIX 6.1.</td>
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<tr>
<td>SF00726156</td>
<td>WorkSpace</td>
<td>WorkSpace sometimes shrinks to a Single Monitor in a Dual Monitor Set up when a user logs out and logs in. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00572118</td>
<td>Terminal Server</td>
<td>On a multiple monitor setup, Workspace no longer extends to second monitor in a Remote Desktop session after a network disconnect. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00553851</td>
<td>WorkSpace</td>
<td>In a single monitor setup, Workspace Title Bar incorrectly displays</td>
</tr>
<tr>
<td>Case#</td>
<td>Area</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------</td>
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<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>SF00552393, SF00552037, SF00587010</td>
<td>WorkSpace</td>
<td>When running in Full Screen mode after unplugging and plugging in monitor. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00178610</td>
<td>WorkSpace</td>
<td>When the Picture Property &quot;Resizable&quot; and &quot;Titlebar&quot; are set to false, viewport ratio varies on recalculation. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00474765</td>
<td>WorkSpace</td>
<td>A thick border displays when Workspace runs in Full Screen mode on a system with the Windows Aero theme. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00360509</td>
<td>WorkSpace</td>
<td>Workspace extends to second monitor despite the &quot;Extend Workspace to multiple monitors support&quot; option is cleared in User Preferences. When the Workspace application is set to Full Screen in Run mode, it extended to the second monitor despite the &quot;Extend Workspace to multiple monitors support&quot; option not being selected in the User Preferences. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00649834, SF00662492</td>
<td>WorkSpace</td>
<td>No prompt to change a password after the password has expired. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00620489</td>
<td>Standard Chart</td>
<td>Standard chart XYHitTest function does not work. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00621100</td>
<td>WorkSpace</td>
<td>No security violation is logged when a long password is entered in Login application. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00624396</td>
<td>WorkSpace</td>
<td>Change Password button in Login dialog box is disabled. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00625081</td>
<td>WorkSpace</td>
<td>Intermittent Workspace crash This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00550211, SF00588964, SF00630130</td>
<td>Networking</td>
<td>Even when &quot;Enforce Trusted Computing&quot; is disabled, Network Password is reset. You are were also prompted with a warning message on iFIX startup and on opening the SCU file, if the SCU file was moved or copied from a different iFIX node. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00601759</td>
<td>Cross Reference Tool</td>
<td>CrossReference Tool crashes if Productivity Tools or iPower is installed. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>Case#</td>
<td>Area</td>
<td>Description</td>
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<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>SF00538846</td>
<td>WorkSpace</td>
<td>Memory leak when opening and closing pictures with Picture Caching disabled. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00588870</td>
<td>Security Config-</td>
<td>Invalid group displayed in the Security Configuration after export of security report. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00180529</td>
<td>Security Config-</td>
<td>A user who does not have security privileges is able to modify and save the security configuration. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00666403</td>
<td>Database Manage-</td>
<td>Suspended AA tag does not generate alarm after a newly configured delay time. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00616912</td>
<td>SM2 Driver</td>
<td>SM2 Driver function call SetAnalogAlarm does not work. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00623419</td>
<td>Alarms</td>
<td>AlmStat.exe incorrectly displays the error message: Error: Is Alarm Client Task running? This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00675250, SF00675174, SF00675030, SF00679542, SF00679420, SF00679194</td>
<td>iFIX Service Mode</td>
<td>When iFIX is running in service mode, some applications do not start. The iFIX Background Scheduler, the iFIX OPC Alarm and Events Server, and the iFIX OPC Data Access Server did not get started. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00675174, SF00675030, SF00679420, SF00679542, SF00679194</td>
<td>WorkSpace</td>
<td>Objects within a group are not fetching initial data unless the group object is animated. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00679194</td>
<td>Enhanced Failover</td>
<td>Additional alarm records are created by iFIX AE Collector when redundant SCADAs change roles. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00752846</td>
<td>iFIX OPC A&amp;E Server</td>
<td>iFIX OPC A&amp;E Server crashes due to buffer overflow when tag description exceeds 40 characters. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00652173</td>
<td>WorkSpace</td>
<td>Login error messages changed. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>00732552</td>
<td>WorkSpace</td>
<td>Change Password button in Login dialog is disabled. This occurred when the domain is set to the local machine name in the iFIX Security Configuration. This issue was resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00180529</td>
<td>Security Config-</td>
<td>A user who does not have security privileges is able to modify and save the security configuration. This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>Case#</td>
<td>Area</td>
<td>Description</td>
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</tr>
<tr>
<td>SF00769296</td>
<td>Configuration</td>
<td>save the security configuration.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00745815</td>
<td>Alarms</td>
<td>Alarm message is blank after the tag name.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00721907</td>
<td>Alarm ODBC Service</td>
<td>Alarm ODBC Service does not log alarm messages in an Oracle database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>This issue occurred when one of the Native Date/Time columns was enabled. It was resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00743504</td>
<td>Client</td>
<td>Operator message from newer client is blank on iFIX 5.8 SCADA.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>This issue is resolved in iFIX 6.1.</td>
</tr>
<tr>
<td>SF00645875</td>
<td>iFIX OPC UA Server</td>
<td>iFIX OPC UA Server does not send operator message when a database write is performed by an OPC UA client.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>This issue is resolved in iFIX 6.1.</td>
</tr>
</tbody>
</table>

**Known Issues in iFIX 6.1**

<table>
<thead>
<tr>
<th>Defect#</th>
<th>Area</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DE124575</td>
<td>Upgrade</td>
<td>OPC UA Client Configuration Tool Does Not Start</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If you have iFIX with Productivity Tools installed and you upgrade to iFIX 6.1, then the FIX.INI file does not contain an entry for the iFIX OPC UA Client Configuration Tool. As a workaround, manually update the FIX.INI to include this entry at the end of the [SCADA] section: RUN=%IFIX_CONFIG_SERVICE.EXE run-config ifix_config_service.json. Restart iFIX after you save your changes.</td>
</tr>
<tr>
<td>DE118716</td>
<td>OPC UA</td>
<td>OPC UA Clients Do Not Discover OPC UA Server on VMWare Image</td>
</tr>
<tr>
<td></td>
<td></td>
<td>When running iFIX with its OPC UA Server enabled on a computer that has VMWare installed, you may find that you cannot discover the OPC UA Server from clients on the local machine. In this case, you may repeatedly see the following error in the iFixUaServer.log file: Error: &quot;Registration with Discovery Server failed.&quot; This occurs because the VMWare virtual network adapter fails to respond during Discovery Server registration, which causes the entire registration operation to time out. In order to work around this, you can disable the VMWare network adapter (if it is not used) in Control Panel. Otherwise, you will need to manually enter</td>
</tr>
<tr>
<td>Defect#</td>
<td>Area</td>
<td>Description</td>
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<td>---------</td>
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</tr>
<tr>
<td>DE122938</td>
<td>Install</td>
<td>OPC Core Components subinstall displays a request to install a VC 2013 Redistributable (version 12.0.30501) This error occurs only on a fresh install. It occurs because the target system already has the Microsoft VC++ 2013 Redistributable Update 5 (12.0.40660) installed. Acknowledge the message and continue. The install will run properly despite the message.</td>
</tr>
<tr>
<td>DE120941</td>
<td>OPC UA Client Driver</td>
<td>Cannot open OPC UA Client Configuration Tool When the Windows Firewall is Enabled Add port 9444 to the Windows firewall exception list, along with any other port associated with this driver that you want to include, such as ports 4855, 4856, and 4857.</td>
</tr>
<tr>
<td>TA626596</td>
<td>iFIX OPC UA Client</td>
<td>iFIX UA client will not fully work with OPC UA Aggregators that change server namespaces dynamically This is not supported in iFIX 6.1.</td>
</tr>
<tr>
<td>TA592883</td>
<td>Discover and Auto Configure</td>
<td>Discover and Auto Configure Does not Support Long Tags Names or OPC UA These items are not supported in iFIX 6.1.</td>
</tr>
<tr>
<td>DE114780</td>
<td>WorkSpace</td>
<td>Size of HPLinearGauge Dynamo Not Maintained After Upgrade This is a known issue in iFIX 6.1. When the HPLinearGauge Dynamo in picture is upgraded with the iFIX 6.1 Master Dynamo, then the updated Dynamo will be reduced in length. There is no workaround for this issue except to manually resize the upgraded Dynamo.</td>
</tr>
<tr>
<td>DE92547</td>
<td>Historian Integration</td>
<td>iFIX Collector Fails When Browsing iFIX Tags in the Historian Administrator If you try to browse tags, for instance from the Add Multiple Tags from Collector dialog box in the Historian Administrator, the iFIX Collector will fail. Be aware that you can still add tags, up to 199 characters long, for collection using FixToHist.exe. This is a known issue with the Historian Collector in Historian 7.0 and has been addressed in newer versions.</td>
</tr>
<tr>
<td>DE91265</td>
<td>WorkSpace</td>
<td>Bad WebHMI Server Name Entered Into User Preferences or Web HMI Publish Screen Causes WorkSpace to Be Unresponsive This is a known issue in iFIX 6.1 and only occurs if a you enter a bad server name.</td>
</tr>
<tr>
<td>DE90938</td>
<td>Upgrade</td>
<td>OPC UA Server Does Not Start If you have iFIX with Productivity Tools installed and you upgrade to iFIX 6.1, then the FIX.INI file does not contain an entry for the iFIX OPC UA Server. As a workaround, manually update the FIX.INI to include this</td>
</tr>
<tr>
<td>Defect#</td>
<td>Area</td>
<td>Description</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>entry at the end of the [SCADA] section: RUN=%IFIXUASERVER.EXE. Restart iFIX after you save your changes.</td>
</tr>
<tr>
<td>DE90685</td>
<td>Mission Control</td>
<td>HTC Tab is not Working With Historian Installed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>In iFIX 6.1, Historical Collector actions are no longer supported from the iFIX Mission control application, mission.exe. Please use the Historian Administrator UI instead.</td>
</tr>
<tr>
<td>DE89991</td>
<td>Change Management</td>
<td>Alarm Shelving Related Fields Are Not Shown in the Text Compare Report</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Alarm Shelving related fields are not shown in the Text Compare Report in the Change Management History window.</td>
</tr>
<tr>
<td>DE84751</td>
<td>Alarm Shelving</td>
<td>Alarm Shelving Status Incorrect When Alarms Are Sent Over AAM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>When using the Auto Alarm Manager (AAM) with Alarm Shelving, be aware that the Alarm Shelving Status is incorrect when alarms are sent via AAM.</td>
</tr>
<tr>
<td>DE87524</td>
<td>Upgrade</td>
<td>Altered Table Failing for Microsoft Access Database Due to Long Tag Names and Descriptions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>After upgrading to iFIX 6.1, when using Microsoft Access to log Alarms using ODBC, an error occurs. To use iFIX after an upgrade with Microsoft Access requires a manual update to the Registry and an update of the Microsoft Access database in Design View. The ALM_TAGNAME and ALM_TAGDESC (if it exists) rows needs to be formatted as a LONGTEXT (MEMO) field. Use these steps: 1. In the Windows Registry, make the following entries for the MaxLocksLimit key: REG_DWORD and 0x00030d40 (200000). To find the MaxLocksLimit key, look to the Microsoft Office version-specific Registry entry under HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft. 2. Open Microsoft Access. 3. In Microsoft Access, open the database previously configured for Alarm ODBC in iFIX prior to 6.1. 4. Right-click the table and select Design View. 5. Select the ALM_TAGNAME row, Data Type column, and then change Text to Memo. 6. Repeat the previous step with the ALM_TAGDESC row, if it exists in the table. 7. Save the Access database.</td>
</tr>
<tr>
<td>US244795</td>
<td>VisiconX</td>
<td>VisiconX Returns Oracle Error</td>
</tr>
</tbody>
</table>
|        |                    | When using VisiconX, be aware that you must configure your environment variables correctly for Oracle. If you select the Microsoft OLE DB Provider for ODBC Drivers as your data source, when you try to select an Oracle table, you will experience an error. On the Oracle Client machine where iFIX is installed, set the ORACLE_HOME environment variable to point to the Oracle Admin Client installation directory. For example: 1. Right-click My Computer and select Properties. 2. Click Advanced system Settings > Environment Variables. 3. In the System Variables panel, click New. 4. Add the ORACLE_HOME variable to the New System Variable box, then click OK. For example: ORACLE_HOME-E=C:\app\Administrator\product\12.1.0\client_1 5. Select the PATH vari-
<table>
<thead>
<tr>
<th>Defect#</th>
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<th>Description</th>
</tr>
</thead>
</table>
| DE30309 | Terminal Server/Remote Desktop | Alarm Summary Blink Rate/Refresh Interval is overridden by the Terminal Server Throttle Configured in FixUserPreference.ini  
The Alarm Summary Blink Rate/Refresh Interval is overridden by the Terminal Server throttle configured in FixUserPreference.ini when running the Alarm Summary on a Terminal Server Client or via the general Remote Desktop connection.                                                                                                                                                                                                                     |
| DE68669 | Alarm Shelving                | Alarm Shelve Duration is Based on System Time  
Be aware that the durations are based off the system clock and not a timer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| DE85273 | Database Manager              | Alarm Area Mismatches for CTR, GAB, ITM, PAR, and P12 Loadable Blocks  
For the CTR, GAB, ITM, PAR, and P12 blocks, an upgrade to iFIX 6.1 does not fix issues with the Alarm Area 2 and Alarm Area 3 ordering. As a workaround, you need to export the database to a .CSV file, edit the Alarm Area 2 and Alarm Area 3 values, and then reimport the database back into iFIX 6.1 to fix the designated Alarm Areas. If the blocks are created using iFIX 6.1, there is no issue with alarm areas.                                                                                                                                                                                                 |
| DE86292 | iFIX-SOA Service Provider     | Tags Created After Connection Established to the SOA Server Appear Missing When Browsing Tag Properties on SOA Node  
The workaround is to restart iFIX each time you add a new block type to the existing iFIX database.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| DE71528 | WorkSpace                    | Identifier Too Long Error for Long Tag Name on Script Behind Event  
Microsoft Visual Basic limits character identifiers to a maximum of 255 characters.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| DE75993 | Recipes                      | Recipe Report Limits Tag Identifier to 100 Characters  
This is a known limitation in iFIX 6.1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| DE81968 | WorkSpace                    | Quick Trend and Tag Control Panel Have Tag Length Limitations  
Tag Control Panel and Quick Trend Screens are limited to tag names of 234 characters.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| DE82453 | Upgrade                      | Alarm Shelving and OPC UA Configuration Tool Security Features Not Added to iFIX Administrative User on Upgrade  
This is as designed for security purposes. After an upgrade, if you want to update your administrative groups to include the new security features, you will need to add them manually.                                                                                                                                                                                                                                                                                                                                                                          |
<p>| DE79939 | WorkSpace                    | ToolTip Does Not Display Full 256 Character Tag Length in Command Script Wizard for Schedules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |</p>
<table>
<thead>
<tr>
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</thead>
</table>
| DE82077  | WorkSpace  | Tag Status Screens Have Tag Length Limitations  
There are limitations on screen that will not allow the full tag name to be displayed in Tag Status pictures. Even with the use of tooltips, you are restricted to 160 characters. |
| DE69641  | WorkSpace  | New Document Option Is Disabled in the System tree for Microsoft Word and Excel Files  
As a workaround, you can create the registry keys as described in the following articles. Restart the IFIX WorkSpace after doing making your changes. https://answers.microsoft.com/en-us/office/forum/msoffice adequately/why-docobject-registry-keys-with-a-value-of-16-are/24cd9c98-46a9-4c10-8ca1-cb3933bd7817 https://communityqlik.com/docs/DOC-46a9-4c10-8ca1-cb3933bd7817 |
| DE80338  | WorkSpace  | Tag Lookup Takes Longer Than Expected  
When browsing tags in the Expression Editor on a view node (iClient), it may take 50% longer to perform the initial tag lookup. |
| DE66431  | Enhanced Charts  | Long Tag Name Not Readable or Shrinks in Enhanced Charts  
After inserting a Line Chart or XY Chart, a long tag name is not readable or shrinks on the chart display. |
| N/A      | Historian Integration  | iFIX Charts (with Historian data) Not Working on a System with Historian 7.0 Mirroring when Primary Historian Server is Unavailable  
iFIX 6.1 currently does not support Historian 7.0 mirrored systems. |
| DE17435  | Dynamos    | Sometimes the Values Displayed on the HPTanksAnim and HPLinearGauges Dynamos Are Cut Off.  
Try saving the picture before switching to run mode or run the WorkSpace in Full screen mode. Disabling Zoom to Fit may also display the values correctly. |
| DE14743  | Web HMI Export  | When Shape objects are aligned to each other with the Edge Width property set to 0, the objects display a white line within GE Web HMI browser client.  
When a picture is created in iFIX with Shape objects that are aligned to each other and the Edge Width property is set to 0, the objects in the exported picture display a white line when viewed within GE Web HMI. Workaround: If the Edge Width property is 0, set the Edge Style property to "EdgeStyleNone" in the object's property window, or set Edge Style to "No Edge" via the object's Right Mouse Menu option. Confirm that the objects look correct in iFIX Configure mode. Then, save and export the picture for Web HMI. |
| DE29895  | WorkSpace  | Some Anti-Aliased Lines that are Near Horizontal Appear Fuzzy  
With SmoothShapes (anti-aliasing) enabled, edge lines of some objects... |
<table>
<thead>
<tr>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DE26574</td>
<td>WorkSpace</td>
<td>Some Text Objects Draw Lighter than Normal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Text objects with a font size of 13 or smaller will draw without anti-aliasing regardless of the SmoothShapes setting in the picture. Size 13 fonts with the bold property set will draw with anti-aliasing. Text draws more clearly with SmoothShapes enabled at higher resolutions. Pictures that contain many text objects viewed at low resolution may display more clearly with the SmoothShapes property set to False. Changing the font style from Regular to Bold, or increasing the font size improves the readability of the text. Dynamo sets with text objects that use small fonts may need to be edited in pictures where SmoothShapes is enabled. Changing the font style from regular to bold or increasing the font size improves the appearance of the text within the Dynamo.</td>
</tr>
<tr>
<td>DE25183</td>
<td>WorkSpace</td>
<td>Anti-aliased Objects with Edge Style = 6 (inside frame) will See Color Outside the Object Frame</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Anti-aliased objects with edge style = 6 (inside frame) will see pixels for the background color or fill color outside the object’s frame. There is currently no workaround.</td>
</tr>
<tr>
<td>DE29588</td>
<td>WorkSpace</td>
<td>LineChartPopUpHist.grf and LineChartPopUpReal.grf Pictures Display an Error when Switching from Configure to Run Mode</td>
</tr>
<tr>
<td></td>
<td></td>
<td>These popup pictures are meant for the associated Dynamo objects (Chart_LineHist and Chart_LineRealTime). When the Chart_LineHist or Chart_LineRealTime Dynamo is dropped onto a picture, it displays the associated popup screen to set the plot styles and time definitions. These pictures are not meant to be edited directly.</td>
</tr>
<tr>
<td>DE28601</td>
<td>My-T-Soft</td>
<td>An Error Message Appears when Trying to Start My-T-Soft after Installing iFIX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If you see a &quot;server not licensed&quot; error message from IMG, start the service manually. From Start menu, select My-T-Soft &gt; License Information to open the IMG application, and click the Start Service button. You can also use the command line to start the service: Manage.exe START. After the service starts, try to run My-T-Soft again.</td>
</tr>
<tr>
<td>DE113972</td>
<td>VisconX</td>
<td>VisconX dialog boxes display a few headings with clipped text (in Configure mode only)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>When using the VisconX controls, be aware that the Database and Record Source tabs may contain some subheadings with clipped text. This is a known issue due to a Microsoft coding limitation on text allowed on frames used within frames. There is no known workaround at this time.</td>
</tr>
</tbody>
</table>

**System Requirements for iFIX 6.1**
Software Requirements

GE recommends using the latest service packs for Windows operating systems. The minimum iFIX software requirements include:

- One of the following operating systems:
  - Microsoft Windows 10 (32-bit or 64-bit) Professional or Enterprise Edition.
  - Microsoft Windows 8.1 (32-bit or 64-bit), Professional or Enterprise Edition.
  - Microsoft Windows 7 (32-bit or 64-bit), Service Pack 1, Professional, Enterprise or Ultimate Edition.
  - Microsoft Windows 7 Embedded, or an operating system released under Long Term Service Channel for iFIX for IoT. Use of iFIX for IoT is further restricted by your End User License Agreement (EULA), please see your EULA for details.
  - Microsoft Windows Server 2012 R2.

**NOTE:** Only English Windows IoT, with English regional settings, is supported with English iFIX; other language operating systems or regional settings for Windows IoT are not supported.

**TIPS:** Since Microsoft Windows has continuous updates, you should run the Windows update feature to get the latest Windows software for use with iFIX. Some operating systems require Microsoft KB2999226 to be installed before you can install iFIX. For Windows 7, you must have SP1 installed before you can install KB2999226. For Windows Server 2012 R2, you must have KB2919442 and then KB2919355 installed before installing KB2999226. For Windows 8.1, you just need KB2999226.

- Network interface software for TCP/IP network communication and certain I/O drivers.
- If you are using third-party software along with iFIX, make sure that the third-party software is also supported for the operating system you are running iFIX on. For instance, if you are running iFIX on Microsoft Windows Server 2019, your third-party software must also be supported on Windows Server 2019.
- An I/O driver for iFIX SCADA servers. GE supplies I/O drivers for many programmable controllers or you may purchase a driver separately.

**IMPORTANT:** Be certain that before you purchase an I/O driver, that the driver is compatible with the hardware and operating system that you intend to run it on. For example, if the driver is not supported on a specific operating system, then you cannot use that driver with iFIX running on that operating system. For more information on iFIX supported drivers and their respective operating systems, refer to the GE Digital support web site at: http://ge-ip.force.com/communitys/.
• If using VisiconX and Historian, you must install the Historian OLE DB driver.
• If using the OPC UA Client driver, the following browsers are supported:
  • Google Chrome
  • Microsoft Edge
• One of the following relational database applications, if relational database software is used with iFIX:
  • Microsoft SQL Server 2017
  • Microsoft SQL Server 2016
  • Oracle 12c R2
  • Oracle 18c
  • Microsoft Access 2000 (or higher). Microsoft Access is supported for local installs only

Hardware Requirements - iFIX without Enhanced Failover or Historian

For iFIX computers, the recommended minimum hardware requirements are:

• A 3.0 GHz Intel Core i3 Processor or equivalent with 4GB of memory.


• SpeedStep technology is not supported and must not be enabled.
• For time synchronization, the Windows Net Time and W32tm commands are both supported. However, if using the W32tm command, be sure to use the /nowait instruction when resynchronizing the clock. For example: W32tm /resync /nowait. The /nowait parameter instructs the operating system to make a stepping adjustment against the time server.

**NOTE:** With virtual machines, the host and guest operating system need to synchronize against an external physical Network Time Protocol (NTP) Server.

• The power save settings on your computer must be disabled. Do not use any power setting features that affect CPU clock speed.
• A minimum of 10 GB of free hard drive space for iFIX pictures, databases, alarm files, and other data files. Even after allowing for an extra GB for iFIX, it is strongly recommended that many GBs of additional free space exist on the hard drive to avoid performance issues.

Be aware that iFIX alarm and historical data files grow dynamically. If you plan to perform extensive alarm or data collection on a node, you may need more disk space on that particular node.

• Other GE products, such as Plant Applications and Historian, impose additional requirements. Refer to the Important Product Information (IPI) topic in the product’s electronic books for specific system requirements. Click the System Req. tab in that product’s IPI for details.
• 100 MBit or faster Full Duplex TCP/IP-compatible network interface adapter for iFIX network communication between SCADA and Client nodes.

**NOTE:** iFIX no longer supports NetBIOS.

**NOTE:** iFIX does not support IPv6.

• One free direct-connect USB port. Some touch screens, pointing devices, and I/O drivers require a serial port. Additional ports for I/O hardware should be ordered with the computer.
• SVGA or better color monitor with a 24-bit (16,777,216 colors) graphics card capable of at least 1024x768 resolution. For Windows 7, the graphics cards should be Windows 7 (certified).
- Two-button mouse or compatible pointing device (such as a touch screen) that can open a context menu.

**Hardware Requirements - iFIX with Enhanced Failover Enabled**

For iFIX computers with SCADA Enhanced Failover features enabled, the recommended minimum hardware requirements are (for both primary and secondary computers):

**IMPORTANT:** The minimum requirements below assume that you are running only a SCADA server without additional applications, such as EDA applications. If you want to run more applications, you will need to increase your hardware support for better performance.

- A 3.0 GHz Intel Core i5 Processor or equivalent with 4GB of memory. For better performance, please consider using more memory.
  

- SpeedStep technology is not supported and must not be enabled.
- For time synchronization, the Windows Net Time and W32tm commands are both supported. However, if using the W32tm command, be sure to use the /nowait instruction when resynchronizing the clock. For example: W32tm /resync /nowait. The /nowait parameter instructs the operating system to make a stepping adjustment against the time server.
  
  **NOTE:** With virtual machines, the host and guest operating system need to synchronize against an external physical Network Time Protocol (NTP) Server.

- The power save settings on your computers and dedicated network card (NIC) must be disabled. Do not use any power setting features that affect CPU clock speed.
- One additional Gigabit-Ethernet card (or better) dedicated for SCADA-to-SCADA traffic (for a total of at least 2 network cards). The dedicated SCADA-to-SCADA network card should be excluded from the iFIX-to-iFIX network (not enabled for LAN redundancy), and used exclusively for Enhanced Failover synchronization. Both network cards must be of the same speed, and appear on the compatibility list for each card. It is strongly recommended that the cards be of the same make and model number, and use the same drivers.
  
  **IMPORTANT:** You must use a direct connection via a Cat6 crossover cable, without going through any switches, hubs, or routers. Due to limited bandwidth and latency, wireless networking technology should not be considered.

- The wake-up upon receiving a socket or/and request feature must be disabled on the dedicated SCADA-to-SCADA network card.
- Jumbo Frames technology must be used on the dedicated network for Enhanced Failover. Jumbo Frames technology allows for an Ethernet frame of 9000 MTU for the payload, compared to a frame of 1500 bytes without the Jumbo Frames.
- A minimum of 40 GB of free hard drive space, in addition to the free disk space required by the operating system for Windows Updates. Even after allowing for an extra GB for iFIX, it is strongly recommended that many GBs of additional free space exist on the hard drive to avoid performance issues.

Be aware that iFIX alarm and historical data files grow dynamically. If you plan to perform extensive alarm or data collection on a node, you may need more disk space on that
other node.

- Other GE products, such as Plant Applications and Historian, impose additional requirements. Refer to the Important Product Information (IPI) topic in the product’s electronic books for specific system requirements. Click the System Req. tab in that product’s IPI for details.
- Primary and Secondary SCADA computers located physically next to each other, in the same location/room.
- One free direct-connect USB port. Some touch screens, pointing devices, and I/O drivers require a serial port. Additional ports for I/O hardware should be ordered with the computer.
- SVGA or better color monitor with a 24-bit (16,777,216 colors) graphics card capable of at least 1024x768 resolution. For Windows 7, the graphics cards should be "Windows 7 (certified)".
- Two-button mouse or compatible pointing device (such as a touch screen) that can open a context menu.

Wireless Devices and iFIX

It is strongly recommended that you do not run SCADA nodes on wireless devices. Running an iFIX SCADA on a wireless device may impact performance, as most available wireless protocols fall below the recommended bandwidth requirements.

Virtual Machine Support

As part of our development testing and qualification, we make extensive use of virtualized environments. iFIX does not target any specific hardware or virtualized platform.

GE Digital will support the functional operation of the product that is running on a supported Operating System in a virtualized environment and will address any functional issues related to the software.

GE Digital cannot guarantee performance of the software in the virtualized environment due to the wide range of parameters associated to the hardware, configuration, memory settings, 3rd party software, and the number of virtual sessions running on the same hardware, all of which can affect performance.

GE Digital can only provide best possible support related to the performance of the software running on a VMWare based system or configuration of VMWare system.

It is the responsibility of you, the customer, to ensure that the performance of the GE HMI/SCADA software and application are adequate to meet the needs of their runtime environment. GE does not support issues related to functionality that is not available as a result of running in a virtual machine. Examples include the functionality of card level drivers such as Genius, RMX, SA85 and functions requiring direct video access, or functionality of other software running in the same environment. It is your responsibility to check with the vendor of those applications for their ability to run in a virtualized environment.

Each virtual machine instance that is using our software is required to have a valid license. The licensing in a virtualized environment will depend on the access to a hardware key or a license server depending on the selected license type.

Remote Desktop (Terminal Server) Support


The following Remote Desktop Client configurations were tested with iFIX:
• Microsoft Windows 7: Remote Desktop Connection Version 6.1.7601 - Remote Desktop Protocol 7.1
• Microsoft Windows 7: Remote Desktop Connection Version 6.39600 - Remote Desktop Protocol 8.1
• Microsoft Windows Server 2016: Remote Desktop Connection Version 10.0.14393 - Remote Desktop Protocol 10.2

Compatibility with other GE Products

Several GE products work with iFIX. The following is a general set of versions tested to work with the iFIX 6.1 product:

<table>
<thead>
<tr>
<th>Product</th>
<th>Required Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant Applications Dynamos</td>
<td>7.0 SP4, 8.0</td>
</tr>
<tr>
<td>Batch Execution</td>
<td>5.6</td>
</tr>
<tr>
<td>CIMPLICITY Historian</td>
<td>10 and 11.</td>
</tr>
<tr>
<td>Change Management (PCM)</td>
<td>9.5</td>
</tr>
<tr>
<td>Task List</td>
<td>2.5 SP4, 2.6 SP1.</td>
</tr>
<tr>
<td>Workflow</td>
<td>2.5 SP4, 2.6 SP1.</td>
</tr>
<tr>
<td>Webspace</td>
<td>5.0 and 6.0.</td>
</tr>
<tr>
<td>Win911</td>
<td>3.18.18</td>
</tr>
<tr>
<td>DreamReport</td>
<td>5.0</td>
</tr>
<tr>
<td>IGS</td>
<td>7.66 or later</td>
</tr>
</tbody>
</table>

**NOTE:** If you are using VisiconX with Historian, you must install the Historian OLE DB driver.

**NOTE:** When configured for WebSpace, none of the iFIX SCUs on WebSpace Server should be configured to start iFIX as service, as this is a unsupported configuration.

**NOTE:** For information on product compatibility with critical Microsoft security patches, go to the GE Digital support web site:

You will need a customer login to access this page.
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