



Getting Started | IoTWorX™

January 2024 | Version 10.97.3



Microsoft Partner



Make the Invisible Visible™

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Document No. UG-ITX-1097

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1 IoTWorX OVERVIEW

IoTWorX bridges the gap between an on-premises communications network and an Azure cloud-based deployment platform. The IoT gateway, which can be considered an edge device, provides data connectivity between on-premises end devices and the cloud. Targeting process, factory, and building automation as well as other industries, IoTWorX installs with on-premises communications including BACnet, SNMP, Modbus, and OPC. The cloud communication path is highly secure and is based on the Advanced Message Queuing Protocol (AMQP) and a publish/subscribe mechanism.

IoTWorX provides manufacturers and facility managers with a flexible platform to create Internet of Things applications. ICONICS offers several key IoT technologies, including rich connectivity to things (OPC, OPC UA, BACnet, SNMP, Modbus), secure cloud communications, and built-in real-time visualization and analytics. With simple setup and configuration, users can easily create remote monitoring and analytics solutions that meet their innovative business requirements for collaboration and shared insight across widely dispersed assets. The ICONICS IoT solution leverages the Azure cloud to provide global visibility, scalability, and reliability. Connect to standard ICONICS applications in the cloud such as GENESIS64, Hyper Historian, AnalytiX, and more. Optionally integrate Microsoft Azure services such as Power BI and Machine Learning to provide greater depth of analysis.

2 SYSTEM REQUIREMENTS

Your system must meet the following minimum requirements to install IoTWorX. These requirements are based on typical applications. Depending on your specific application, the minimum requirements may vary.

CPU	Intel Atom 38xx Dual Core, ARM32v7 Dual Core, or comparable processor
Memory	<p>2 GB of RAM</p> <p>We recommend that the:</p> <ul style="list-style-type: none"> • Swap space be, at a minimum, equal to the amount of RAM installed. • Virtual memory allotment be two times the amount of physical memory (RAM) on the system.
Storage	At least 32 GB SSD
Operating System	<p>Ubuntu 20.04 (AMD64)</p> <p>Ubuntu 22.04 (AMD64)</p> <p>Ubuntu Server 20.04 (AMD64)</p> <p>Ubuntu Server 22.04 (AMD64)</p> <p>Windows via EFLOW</p> <p>Notes:</p> <ul style="list-style-type: none"> • For more information on EFLOW, see this Microsoft documentation: https://docs.microsoft.com/en-us/windows/iot/iot-enterprise/azure-iot-edge-for-linux-on-windows • Suggested steps to configure EFLOW for IoTWorX can be found in the ICONICS Product Help: https://documentation.iconics.com
Azure Service	Azure IoT Hub (tier S1 or higher), Azure Storage account

Note: Installing Azure IoT Edge using the provided IoTWorX_inst_*.sh file in the IoTWorX Tools zip file installs version 1.4. This is the preferred version of Azure IoT Edge.

Required Hardware

- Ethernet adapter, Wi-Fi card, or cellular (at least 3G)

3 SOFTWARE LICENSING

3.1 Overview

ICONICS Product Suite licenses are registered and managed by the ICONICS Web Licensing Utility, which stores licenses on your PC and in the cloud.

DeviceXPlorerOPC Server (install from Additional Tools on the ICONICS Product Suite installation DVD) licenses are also registered and managed by the ICONICS Web Licensing Utility.

3.1.1 Types of Licenses

There are three types of licenses:

- Software key license
- Hardware key license
- Cloud license

Note: Only cloud licenses are supported in IoTWorX (view **3.7** "Cloud Licensing").

1. Software License

This license type is stored on the hard drive of the PC.

There are three different subcategories to the software license.

1. Production license

Full access to the license with no expiration date.

2. Trial license

Valid for 30 days during a GENESIS64 trial.

3. Emergency license

Valid for 60 days for:

- A failed license kill operation on the activated PC and subsequent reactivation.
- The license kill operation succeeds on the activated PC; however, the license killed on a separate PC is still activated.

2. Hardware License

This type of license is saved to a USB device.

There is only one subcategory of this license, called the production license, which provides full access to the license with no expiration date.

3. Cloud license

An ICONICS product license is designed specifically for applications running in public, private, or virtualized environments. The license is stored on the cloud.

There are two different subcategories to the cloud license.

1. Production license
2. Full access to the license with no expiration date.
3. Emergency license

Valid for 60 days for:

- A license kill operation that fails and reactivates on an activated cloud.
- The license kill operation succeeds on an activated cloud, and the license killed on a separate cloud is activated.

3.2 Demo Mode

Without a valid license installed on your PC, it is still possible to use ICONICS Suite. The software checks for a valid hardware or software license key on initialization. If none is found, ICONICS Suite runs in demo mode, which limits you to:

- 12 hours of runtime
- 64 licensed connections (points)

Running ICONICS Suite longer than the 12-hour limit generates a message stating that the demo time has been exceeded. The demo period can be restarted by opening Workbench and selecting the message at the bottom or by restarting the PC.

If there are more than 64 tags in use, the tags beyond 64 will display in point failure mode.

Software and Hardware Keys

ICONICS Suite licensing is handled by a software key license registration system that does not require a hardware protection key. However, ICONICS does offer an optional hardware key that you can purchase.

Software Licensing

The software key is a licensing key that resides on the hard drive of a computer. Each software key is used on a single, specific computer and is used only once. It is activated using a site key (license file) that is tied to the computer that is being licensed.

An activated license is required to use the software in full production mode. This license designates which products can be used, as well as the I/O point-count limit that controls the number of active data points (tags) that can be used by a system.

For important details about registering and activating software licenses for your ICONICS Suite installations, refer to the **ICONICS_Licensing_Readme.htm** file, which is available on your ICONICS Suite installation media.

3.3 Hardware Key

The optional hardware key is a USB thumb drive (or flash drive) that you can move from system to system. AnalytiX recognizes the hardware key on the system you have the key attached to. A hardware key is an easier and more reliable way of moving a license from one machine to another than a software key.

Upon insertion of the USB key into an available USB port, the necessary drivers are automatically loaded.

A green status light displays upon successful connection. If the USB key is missing or unplugged during operation of the ICONICS Suite software, plug the USB key back in within an hour of removal or upon system reboot; otherwise, the hardware-based license will not be immediately recognized.

If you need a replacement key, visit <https://licensing.iconics.com>. New users must create an account through the ICONICS Web Licensing Utility to request replacement keys.

3.4 License Utility

The Software License Utility provides full authorization for use of any purchased ICONICS Suite product and its available options.

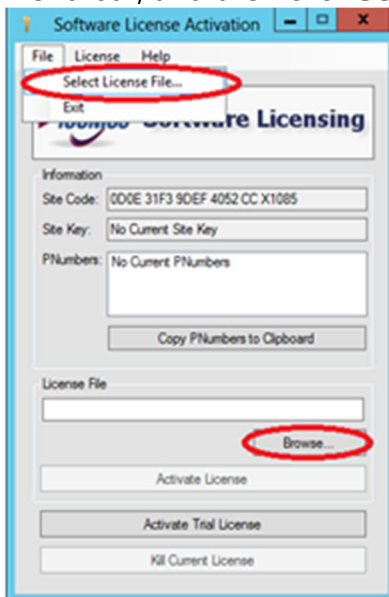
Running the License Utility

To launch the License Utility from the Windows Start menu, select **Programs > ICONICS .NET Licensing > License Utility**.



License File

Once you have opened the Software License Utility, you can browse for the Site Key (license file). Either click the **Browse** button in the License File section of the window **or** click **File** in the menu bar, and then click **Select License File**.



This displays Windows Explorer so that you can browse for the license file. Once you have located the file, double-click it, or click **Open** to proceed.

3.4.1 Activating the 30-Day Trial/Emergency License

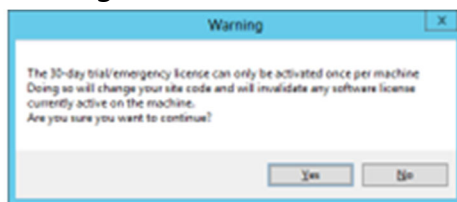
A trial or emergency license is intended for urgent back-up situations only. If you activate a trial license, it invalidates the existing license and permanently overwrites any existing license. We recommend that you use caution when deciding whether to activate a trial license.

Note: A trial license can be activated only **once per machine**.

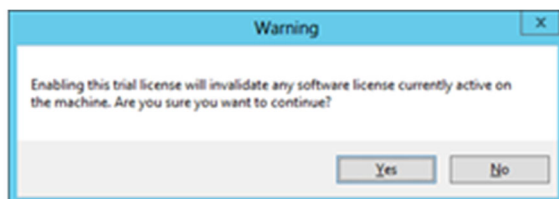
In the Software License Activation for .NET dialog, you can click the **Activate Trial License** button to activate a 30-day trial license.



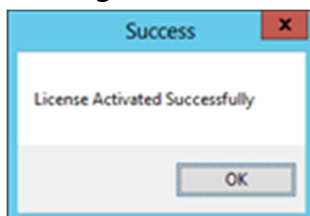
A warning message is displayed. Read the message and click **Yes** to confirm the action. Clicking **No** cancels the action and preserves the existing license.

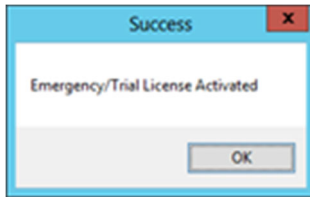


Another warning message is displayed. Click **Yes** to confirm that you understand the message and want to activate the trial license.



After you activate the trial license, the following messages are displayed. Click **OK** to close the message boxes.





The PC is now authorized to run for a one-time only, 30-day back-up period. If you purchase a license and you want to activate your license on the system, you can do it at any time. You don't need to wait for the trial period to end.

3.5 License Viewer

When you purchase licenses, the licenses are measured in a point count that determines the number of OPC tags that you can use in your application. One point count is used for most ICONICS Suite applications. There are three different modes for using tags in point counts:

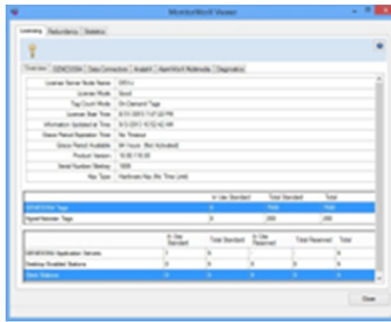
- **Advanced (On-Demand Tags).** A system for dynamically using licensed points. Points are only counted while they are actively in use. Points that are no longer being used are released and returned to the pool of available points.
- **Advanced (Configured Tags).** Like on-demand tags, except that licensed points are not released when they are no longer in use. Users are encouraged, but not required, to configure their tags in AssetWorX.
- **AssetWorX Tags.** A system in which all points are required to be configured as equipment properties in AssetWorX. This system is only in use with GENESIS64 Basic SCADA licenses—see the GENESIS64 Basic SCADA Help files or application notes for more information on the AssetWorX tags counting mode.

The modes are not interchangeable. You must buy a new license to upgrade your existing license.

At any time, you can use the License Viewer to review the license status of ICONICS products installed on that computer. To access the MonitorWorX Viewer:

- On the Windows Start menu, click **ICONICS .NET Licensing > MonitorWorX Viewer > Licensing** tab.
- From the Workbench, click the **Licensing** button on the **Tools** ribbon.

The License Viewer is displayed as shown in the following image.



The tab that displays initially is the **Overview** tab, where you can see general information about the license for the server that the node points to. You can view license information for **GENESIS64, Basic SCADA, Data Connectors, AnalytiX, and AlarmWorX64 Multimedia** product features by clicking the respective tab for those products.

The **Diagnostics** tab can be used to see where individual product features are being consumed.

Certain licenses have access to the **Simulator** tab, which lets you simulate having fewer features than your existing license. This tab can be useful for integrators who want to see how their configuration will run on an end user's license.

3.6 Web Licensing

You can use the ICONICS Web Licensing Utility to generate a new license, kill a license, or transfer a license. You can also use the ICONICS Web Licensing Utility to upgrade your license.

Using the utility requires internet access and a web browser. Internet Explorer or Edge running in Internet Explorer mode are required to program a hardware key.

3.6.1 Issuing a New Software License

1. On the machine where you want the ICONICS Suite license to reside, open the ICONICS Web Licensing Utility from the Windows Start menu by clicking **ICONICS .NET Licensing > License Utility**. This should open the Software License Activation for .NET dialog.

You will see a dialog come up with a Site Code and "No Current Site Key" in the Site Key box. Leave this window open.



2. Go to <https://licensing.iconics.com>.
3. The main page of the Web Licensing Utility will load. Enter your email address and password and click **LOGIN**. If you do not yet have an account, you can create one by clicking the **Create New Account** link near the bottom of the page.



4. Once you have logged into the website, click **Software** to access the Software License Options.



5. Click the **New License** link in the top navigation bar.
Enter your Product Registration Numbers and Customer Keys for the products to license, then click **Next**.

Note: Your Product Registration Number and Customer Key were emailed to you when your order was complete.



6. On the next screen, you will be requested to identify the end user for whom the license is being issued. You can look up a list of users that have been previously entered by clicking the **Existing End Users** link or enter a new one by clicking the **Create New** link.



7. Clicking the **Existing End Users** link will open a new window with a list of previously entered end users (either entered by you or tied to the product registration numbers entered in the previous screen). Select an end user from the list and click **Select** or double-click the selected end user.

If you are the end user yourself and you are not listed in the grid, you can click the **I am the End User** link to enter your data as a new end user. After identifying the end user, click **Next**.



8. On the next screen, you will see a list of the products that are available for you to license. Check all the products that you would like to license. Copy the Site Code from the license utility of the destination machine and paste it into the Site Code box of the current web page, then click **Next**.



9. Review the license information before proceeding. Click **Generate Key** to issue a new Site Key.

Home > Software License > New License

New License

You requested to have the products below be registered to the following Site Code:
54B3 AE27 40AD ADE7 D5

Product Key	Product Description	PHubNo	GHubNo
GEN64-v10.5 TEST LAB	v10.5 LICENSE	PH889113111111543	GNDE6005A03AB89F45

Total Buylz/GEN32 Point Counts: 0
 Total GEN64 Point Count: 100000
 Total Hyper Historian Point Count: 100000
 License Days: 30

10. The next screen will display a summary of what will be your license, as well as your Site Key and License File.

Home > Software License > New License

The following License File has been assigned to your system for use in license activation.
 Use the License File inside the ICONICS Software Licensing Utility.
 Please keep the Site Key for future reference purposes.

Site Code: 54B3 AE27 40AD ADE7 D5
Site Key: 1B44 954F E61A 79ED 5FFA 6610 7C

Download the following **LICENSE FILE** to authorize your license
[Click here to download](#)

Registered Products

Product Key	Product Description	Order Date	Order #	PHubNo	GHubNo	Customer Key
GEN64-v10.5 TEST LAB	v10.5 LICENSE	12February2010 225439H	PH889113111111543	GNDE6005A03AB89F45	CU002286	

We recommend that you print this screen for your records. Use the print friendly button on the left.
 An email has been sent to your email account with the above information.

Thank you for choosing ICONICS.

11. Download the license file (*.glic) by clicking the link. You will need this file to license the machine.
- Note:** If you misplace the file after receiving it, you can use the **View License** link with your Product Registration Number to download it again.
- In the Software License Activation Utility, click **Browse** and look for the license file that you downloaded from ICONICS website.
12. Once you have selected the file and the **License File** textbox displays the file path, click **Activate License**.
13. You should then receive a popup message indicating the status of the license activation. You can click **OK** to close the dialog.
14. The Software License Activation Utility should now show the current license information, similar to the following image.

Notice that the Site Code may change, as expected, but the Site Key should be the same that you saw on the website.

3.6.2 Adding to an Existing Software License

1. Go to <https://licensing.iconics.com>.
2. Once you have logged into the website and accessed the Software License main page, click the **Add to License** link in the top navigation bar.
3. Enter your Existing Site Key, Product Registration Numbers, and Customer Keys, then click **Next**.



4. On the next screen, you will see a summary of the current license and the list of products that are available for you to add to the existing license. Check all the products that you would like to license. Copy the Site Code from the License Utility of the destination machine and paste it into the Site Code text box of the current web page, then click **Next**.



5. Review the license information before proceeding. Select **Generate Key** as shown in the following image.



6. The next screen will display the new Site Key and the link to your license file. Follow steps 11 to 14 from **3.6.1 "Issuing a New Software License"** to complete the licensing process.

3.7 Cloud Licensing

3.7.1 How Cloud Licensing Works

ICONICS Cloud Licensing is a means of licensing ICONICS products that is specifically designed for applications running on public cloud, private cloud, or virtualized environments. Rather than maintaining the license locally on the machine, licenses are hosted by ICONICS on a publicly accessible data center.

During normal operations of the licensed machine, the first action it takes when starting up is to request the license information according to its License Pool ID. This request requires the machine to have access to the internet to request the information from the ICONICS cloud licensing server.

Once the license information has been successfully retrieved, the machine continues to operate using the licensing information retrieved from the web. The machine then periodically checks with the ICONICS Cloud Licensing server to validate the license. If it cannot validate the license for an extended period of time, the machine license will fail.

3.7.2 Issuing a New Cloud License

Follow these instructions to activate a license on a machine that currently has no license on it or has a license that you want to overwrite.

Note: If your machine already has a license on it, and you are looking to add another license, see the **Adding to an Existing Cloud License** section.

1. Go to <https://licensing.iconics.com>.
2. Select **Cloud** and log in with your username and password.

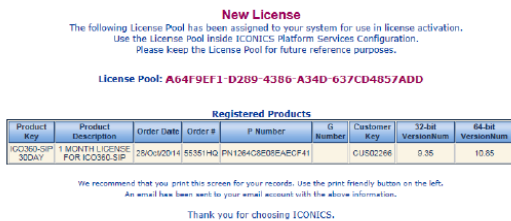


Note: If you do not have a username and password pair, you can register for one using the **Create New Account** link at the bottom of the window. If you have a username and password but have forgotten them, you can click the **Forgot Password** link at the bottom of the window.

3. Once you have logged into the website, click the **New License** link at the top.
4. Enter your Product Registration Number(s) and Customer Key(s) for the products.

Note: Your Product Registration Number and Customer Key were emailed to you when your order was complete.

- Click **Next** once you have entered all your Product Registration Number(s).
- Choose an existing end user or enter new end user information. Click **Next**.
- On the next screen, you see a list of the products that are available for you to license. Check all the products that you would like to license on this machine. Click **Next**.
- This page displays a summary of what is in your license. Make sure everything is correct, then click **Generate Key**. A page like the image below appears.



3.7.3 Activating the License

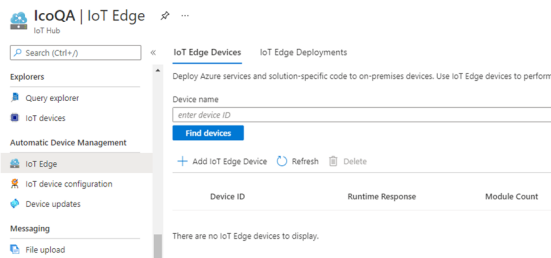
- Open the **Platform Services Configuration** application by going to **Start > ICONICS Tools > Platform Services Configuration**.
- Select the **License** tab.
- Select the radio button for **Cloud License** and enter the License Pool code that was provided by the Web License Utility. You can leave the **Password** field blank.
- Restart the FrameWorX Service.

3.7.4 Adding to an Existing Cloud License

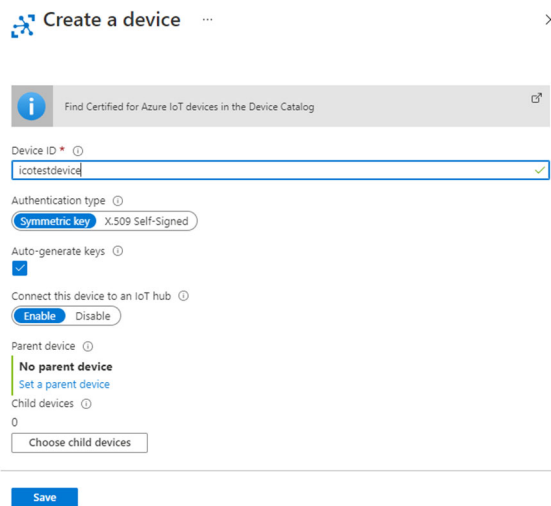
- Go to <https://licensing.iconics.com>.
- Select **Cloud** and log in with your username and password.
- Once you have logged into the website, click the **Add to License** link at the top.
Note: It is very important to select **Add to License** and not **New License**. Selecting **New License** overwrites any existing license already activated on this machine. Make sure to select **Add to License** if you are adding products to a machine that already has a license on it.
- Enter your existing License Pool ID and the Product Registration Number(s), and Customer Key(s) for the new products.
Note: Your Product Registration Number and Customer Key were emailed to you when your order was complete.
- Click **Next** once you have entered all your Product Registration Number(s).
- Choose an existing end user or enter new end user information.
Click **Next**.

7. In the next screen, you see a list of the products that are available for you to license. Check all the products that you would like to license on this machine.
Click **Next**.
8. This page displays a summary of what is in your license. Make sure everything is correct, then click **Generate Key**.

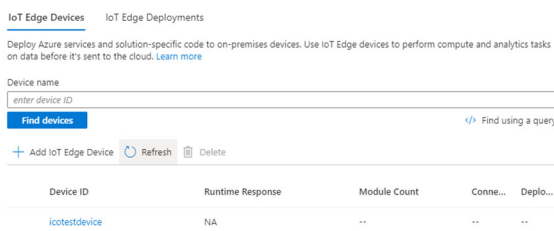
4. Now we are ready to create a device. Still on the **IoT Hub** page, select **IoT Edge** and then **Add IoT Edge device**.



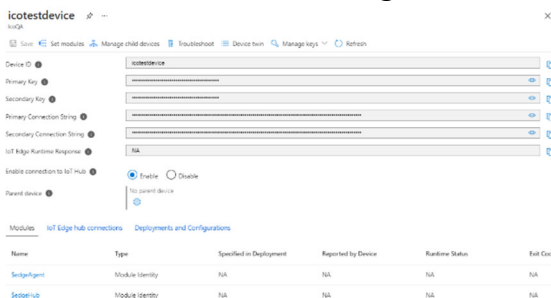
5. Name your device and then click **Save**.



6. The device will now be listed under **IoT Edge Devices**.



7. Click the device to be brought to the overview page.



8. Copy the **Connection String** and keep it handy.

4.3 Setting Up the IoTWorX Edge Device

IoTWorX doesn't require installation since the container will be deployed automatically by IoT Edge. However, the gateway must still be configured to host IoTWorX containers. It's possible to configure the gateway manually or automatically using the scripts available in the IoTWorX Tools ZIP package.

4.3.1 Download the IoTWorX Tools ZIP

The IoTWorX Tools ZIP can be obtained in several ways.

ICONICS customers with a current support plan can download the zip file from the **ICONICS Community Portal**:

- 1) Go to <https://iconics.force.com/community>.
- 2) Log in.
- 3) Select **Resources > Product Downloads**.
- 4) Download the **IoTWorX Tools** file.

Mitsubishi Electric customers can download the zip file from the **ICONICS Community Portal**:

- 1) Go to <https://iconics.force.com/community>.
- 2) Log in.
- 3) Select **Resources > Product Downloads**.
- 4) Download the **IoTWorX Tools (Mitsubishi Electric Version)** file.

New users looking to try IoTWorX can request an IoTWorX trial at <https://iconics.com/Products/IoTWorX>. You will be sent a link to download the IoTWorX Tools file.

4.3.2 Install IoTWorX on Ubuntu 64-bit Edge Device

Option 1: If you are using Ubuntu 20.04 or 22.04 (server or desktop version), use the following steps in Terminal to install IoTWorX on your device:

- 1) Unzip the IoTWorX Tools ZIP file.
- 2) Change the directory to the unzipped folder containing the **IoTWorX_inst_amd64.sh** script.
- 3) Run this command: **sudo chmod +x ./IoTWorX_inst_amd64.sh**.
- 4) Run this command: **sudo ./IoTWorX_inst_amd64.sh**.
- 5) If you run **sudo iotedge list** on the device, you will see that the edgeAgent module is running.
- 6) For production environments, update the Docker log file settings to limit the size (see: <https://docs.microsoft.com/en-us/azure/iot-edge/production-checklist>).

Option 2: On your IoT device, install **Azure IoT Edge runtime**. Directions for doing so can be found here:

<https://docs.microsoft.com/en-us/azure/iot-edge/how-to-install-iot-edge-linux>

4.3.3 Install IoTWorX on Windows

Option 1: For Windows operating systems, make sure to have Windows 10 Version 1809 or later; build 17763 or later, Professional, Enterprise, or Server editions. Use the following steps to prepare the device:

- 1) Unzip the IoTWorX Tools ZIP file.
- 2) Run Windows PowerShell as Administrator (note: PowerShell ISE is not supported for certain commands).
- 3) Enable running signed scripts by running this command: **Set-ExecutionPolicy - ExecutionPolicy AllSigned -Force**.
- 4) Change the directory to the unzipped folder containing the **IoTWorX_inst_win.sp1** script.
- 5) Run this command: **& '.\IoTWorX_inst_win.sp1'**.

Option 2: On your Windows device, install **EFLOW**. Directions for doing so can be found at the link below. Make sure to use the PowerShell option.

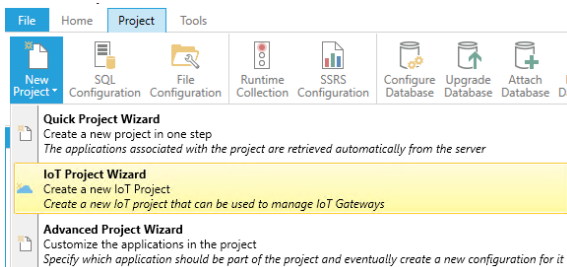
<https://docs.microsoft.com/en-us/azure/iot-edge/how-to-install-iot-edge-on-windows>

Note: Use the Edge Device connection string obtained in step 8 of the previous section when editing the /etc/iotedgedge/config.yaml file. For production systems, you should also install certificates for IoT Edge.

More information can be found here: <https://docs.microsoft.com/en-us/azure/iot-edge/how-to-create-transparent-gateway>

4.4 Creating an IoT Project

1. On the server where ICONICS Suite is installed, open **Workbench** and launch the **IoT Project Wizard**.



2. Give your project some name. In the **Storage Connection** field, enter the connection string obtained in the first step of this document. In the **Storage Folder** field, enter the folder within the storage where you would like your IoT device configurations stored.

3. Click the "+" button next to the **Subscriber Connection** field.
4. Enter a name for your subscription, and then enter the Event Hub connection string and IoT Hub owner connection string obtained in step 2 and step 3 of the first section of this document. Click **OK**.
5. Click **Next**.
6. Select your SQL Server, then enter the name of a NEW database where we will store the template configuration for our devices.

Connection Settings

SQL Server: (local)

Authentication: Use Windows NT Integrated Security

User name:

Password:

Database: IcoloTemplates

☒ Create a backup of the database

Please click "Next" to continue

Back Next Cancel

7. Click **Next**, then **Next** again.
8. Check the **Install/Overwrite** checkbox for each module that you plan to use on your IoT device.

Application Name	Installed	Install/Overwrite	Sample Data	Notes
FrameWorX	☒	☒	☐	
Internet of Things	☒	☒	☐	
Modbus	☒	☒	☐	
Project Files	☒	☒	☐	
Security	☒	☒	☐	
SNMP	☒	☒	☐	
Triggers	☒	☒	☐	
Web Services	☒	☒	☐	
Workflows	☒	☒	☐	

Note: All configurations installed in the database will be added to the project

☐ Show version details

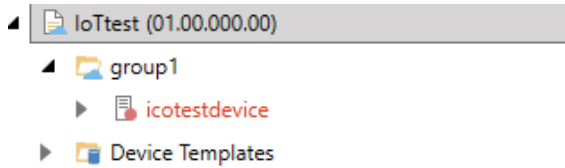
Back OK Cancel

Note: The sample data for several modules could be optionally generated in the new database. Check the **Sample Data** checkbox for each module that you want to generate them.

9. Click **OK** to create the project.

4.5 Deploying ICONICS Modules to the Device

1. Expand the new IoT project in **Workbench** to see the device listed:



2. The device appears red here to indicate we can't deploy new ICONICS configurations to the device yet. We first need ICONICS modules running on the device before we can update its configuration. To do this, right click on device and select **Configure Modules**.
3. On the next screen, you will see the status of any Edge modules running on the device. Click the **Click to configure modules** link in the **Available Modules** header.

Configure Modules for IoT Edge Device

Available Modules Click to configure modules				
Name	Device	Type	Status	Version
SedgeAgent	icotestdevice	System	Running	1.0.6
SedgeHub	icotestdevice	System	Running	1.0.6

4. Under the **Deployment Options** section, select the option from the **Version** drop-down that is applicable to your deployment.
5. Check the **Deploy** checkbox for each ICONICS module you would like to add to your IoT device.

Note: The minimum required modules are **IoT Publisher** and **Ico Edge Agent**.

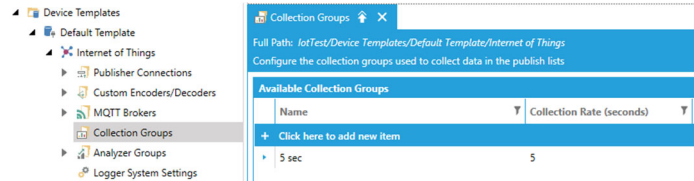
6. Click **Deploy**. You should see a **Deploy successfully completed** message, indicating that a new deployment has been queued for the device. Click **Close**.
7. At this point, ICONICS modules will begin downloading to the IoT device. Depending on the speed of your internet, this may take some time (ICONICS modules total about 1.6 GB).
8. After modules have finished downloading and have started on the device, if you refresh your device group in **Workbench**, you will see that the device no longer red. It now has a green status icon indicating that it is online and running.



4.6 Deploying Configurations to the Device

1. Now that ICONICS modules are running on the gateway, we can deploy configurations to it. First, we will define a collection group. Expand your **Default Template** and **Internet of Things** provider. Right click **Collection Groups** and select **Edit**.

2. Add a new **Collection Group** to the list. This defines how often tags will be collected on the device. Apply your changes and close the form.

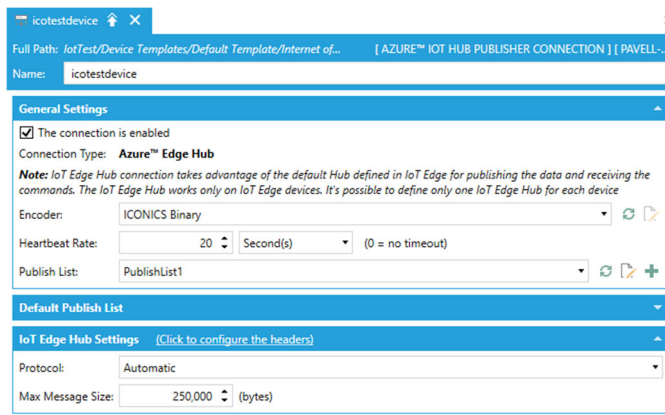


3. Next, we will define a publish list. Right click **Publish Lists** and select **Add Publish List**. Give your list a name and change the **Default Collection Group** to the group created in the previous step. Change the **Publish Rate** and **Refresh Rate** to values appropriate for your deployment.

Note: There is an upper limit of 50 tags in dynamic subscriptions. Users are strongly encouraged to use static publish lists for this reason. Dynamic subscriptions are intended for small ad hoc requests for data, not large sets of tags.

4. On the **Published Points** tab, add the points you would like to be published. As an example, you can enter **svrsim:ramp double fast -100 100** as a point name with a **Publish Name** of **ramp1**. Apply your changes and close the form.

5. Open the **Publisher Connection** form for your device. Specify the publish list you created in the previous step as the **Publish List**. Apply your changes and close the form.



6. Now we will deploy this configuration to the device. Right click your device and select **Deploy Device(s) Configuration. Workbench** will create a new task to accomplish this. What is happening under the hood is:
 - a. The configuration that has been created in Workbench and stored in SQL Server is exported and an SQLite file is created.
 - b. The SQLite file (and other configuration pieces such as custom KPI dashboards) are packaged and sent to the Azure Storage account.
 - c. The Edge device's module twin is updated with the location of the new configuration.
 - d. The device receives a notification that its twin was updated and will download and apply the new configuration.
7. To confirm the new configuration has been applied, open **Data Explorer**. Browse to your device and look at the **Published Data via Static List**. You should see the point(s) you had defined earlier.



4.7 Setting the Diagnostics and Configuration Admin Password

It's highly recommended to change the default password for the Diagnostics and Configuration pages.

1. Go to the **IoTWorX Landing Page** by browsing to `http://[device IP address]` where *device IP address* is the IP address of your IoT device.
2. Select **Diagnostics and Configuration**.
3. Log in as **admin** with the default password of **iconics**.
4. Follow the prompts to set a new admin password.

5 ONLINE HELP

ICONICS software provides online Help with descriptions and explanations of each application. Help is available throughout the ICONICS Suite. You can access Help in the following ways:

- Go to <https://documentation.iconics.com>.
- Click the Help  icon in Workbench or GraphWorX64. This opens the Help for that application.
- Press the **F1** key to display context-sensitive help.
- Click the **Help** button in any dialog to display context-sensitive Help.
- Hover over an icon and pause for a moment to display tool tips for quick help.
- From the Windows **Start** menu, select **ICONICS Help > Help**. (This option is available only if local Help is installed.)

Global Support Offices

Americas

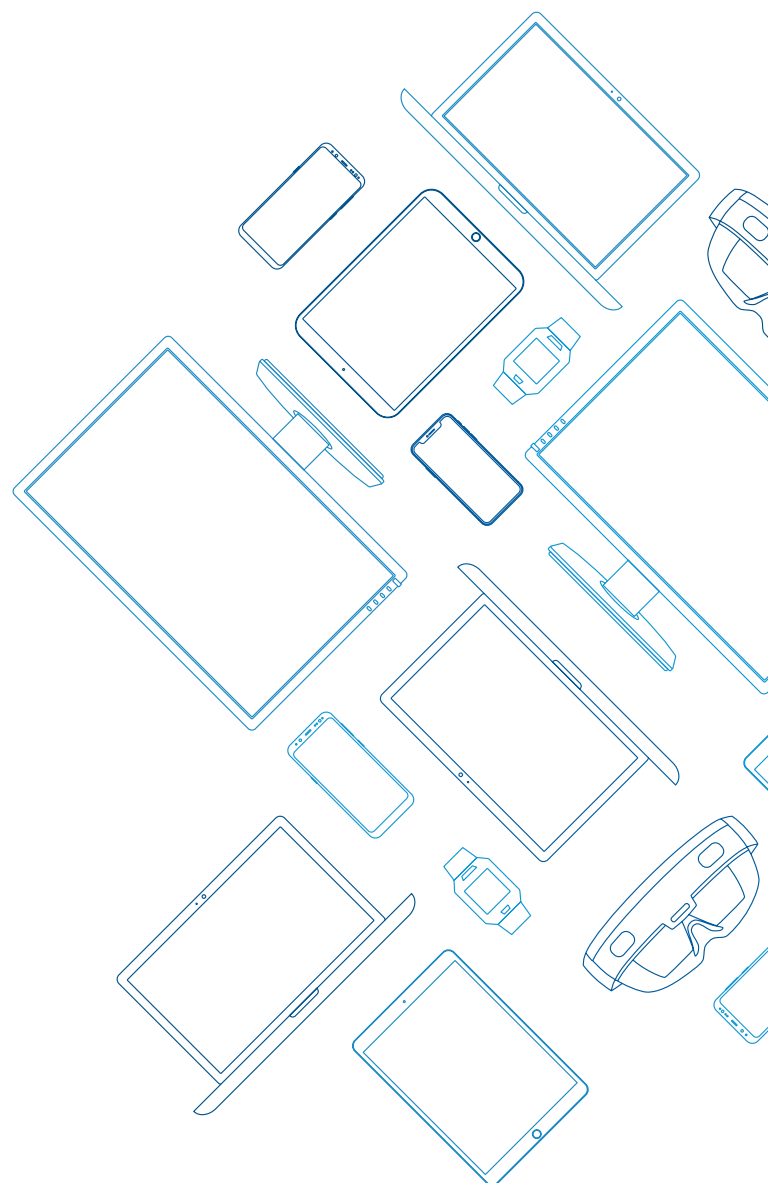
✉ support@iconics.com

Asia Pacific

✉ asiapacificsupport@iconics.com

Europe

✉ europesupport@iconics.com



To open a support case, please visit our ICONICS Community Portal at partners.iconics.com



For more, visit iconics.com

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