

ICONICS 10.97.1

Critical Fixes Rollup 4

Resolved Issues **ICONICS Suite™**

|September 2023



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Release Notes for Version 10.97.1 Critical Fixes Rollup 4

The following issues and enhancements have been fixed in this release.

 **Notes:**

- 10.97.1 Critical Fixes Rollups aren't compatible with other 10.97.x products, such as 10.97.0 or 10.97.2.
- For information about security vulnerabilities, refer to iconics.com/cert.
- To view the changes that were made in Critical Fixes Rollup 3 or earlier, [click here](#).

Common and Platform Services

Reference ID	Description
91162	Various enhancements to improve the security of the software.
91413	The Platform Services Configuration dialog now prompts for a reboot when changing settings on the License tab.
91841	Updated various third-party components to the latest version for enhanced performance and security.
92206	Resolved an issue where a crash occurs when converting a null value in AE data.
92359	Configure System fails to run correctly in special Active Directory configurations because the domain user can't be validated.

FrameWorX

Reference ID	Description
91329	Resolved issues in the Data Explorer that can cause it to fail to show runtime data for certain tags.
92261	The FrameWorX Server might crash when browsing for tags under Diagnostics > Control and Diagnostics > Services > Platform Services.
94155	If the OPC UA pair times out and switches over to the other OPC UA server in the pair, FrameWorX doesn't close the sessions on the primary server in the OPC UA pair but does close them on the secondary server.
94267	Resolved a memory leak in FrameWorX64 caused by Global Search.

Licensing

Reference ID	Description
93253	When reserving Write clients (Genesis64Write), one Write client is unusable.

OData Connector

Reference ID	Description
94186	OData Connector occasionally crashes when requesting a data set.

Recipes

Reference ID	Description
91250	FrameWorX occasionally crashes when a client behaves unexpectedly when browsing points from the Recipe point manager.

Redundancy

Reference ID	Description
91525	When a Redundancy Node Pair is defined under Platform Services > Server Settings > GenBroker64 Settings, the alias node appears in the Data Browser but cannot be expanded.
94176	OPC HDA servers do not switch to the backup server when the primary server goes offline.

Security

Reference ID	Description
92227	When security has Web Login enabled, Workbench and GraphWorX64 applications fail to finish the log-in process and display an "Access Denied" dialog box instead.
92405	Users or groups that have Create file permission can now save new configuration files for TrendWorX64, AlarmWorX64, and GridWorX Viewers using a new file name.
92479	When security has Web Login enabled, the WPF WebHMI login dialog now opens as a browser pop-up window.

Unified Data Manager (UDM)


Reference ID	Description
92636	Expressions with Send Initial Update enabled ignore trigger tags.

Alarms and Notifications

AlarmWorX64 Logger

Reference ID	Description
91377	Resolved a conflict with special characters in SQL passwords.
91712	The AlarmWorX64 Logger does not maintain subscriptions and attributes after an upgrade.
92043	Previously, if the AlarmWorX64 Logger configuration contained two columns mapped to the same alarm or event field, that column did not appear in the list of fields for that logger subscription. Now, the first column appears in the list of fields.
92135	When viewing historical alarm data logged by the AlarmWorX64 Logger, the subscription name is shown instead of the source name if the source alarm or event came from an OPC UA server or an ICONICS point manager.
94007	Data from Hyper Alarm Logger loads slowly in AlarmWorX64 Viewer.

AlarmWorX64 MMX

Reference ID	Description
93985	Passwords for SQL Server database connections cannot contain an equal (=) sign.  The AlarmWorX64 MMX Call-In Agent doesn't support special characters.

AlarmWorX64 Server

Reference ID	Description
93383	The deadband of an alarm resets to zero when the alarm is disabled.
93984	Passwords for SQL Server database connections cannot contain an equal (=) sign.

AlertWorX

Reference ID	Description
91130	Previously, you could only send Gmail emails by configuring OAuth 2.0. Now, you can choose to use either OAuth 2.0 or an app password for authentication.
91340	Resolved a crash of AlertGSender.exe that can occur if the Gmail.config.xml file is corrupted or missing.
91476	Added the Only Use Targeted Alarms checkbox to the Email Settings tab in the Email Nodes pane.

Hyper Alarm Server

Reference ID	Description
91675	Resolved an issue that caused excessive and unnecessary error-level messages in TraceWorX for Hyper Alarm Server when adding a new field to an alarm type. The message was, "Object reference not set to an instance of an object." These messages did not indicate an issue, and they will no longer appear.
94285	An alarm with a delay doesn't activate after a reboot if it should immediately be in the alarm state.

AnalytiX

AnalytiX-BI

Reference ID	Description
91013	Constant predicates in a Where statement are ignored, which causes queries to return incorrect results.
91449	<p>The Models and Dataflows keywords (such as bi:Models or bi:Dataflows) are now case insensitive. In addition, spaces are trimmed from the beginning and end of individual parts of a tag. So, for example, these tags are now considered the same:</p> <pre>bi:Models/folder:Model.Table bi:Models/ folder : Model . Table</pre> <p>In the unlikely event that a configuration relies on having spaces at the front or end of a tag part (for example, if the configuration has two different folders, "Folder" with no space and "Folder " with a space at the end), you can turn off the trimming functionality by adding the following Point Manager parameter.</p> <pre><Param> <Name>DisableCompatibilityPointNameParsing</Name> <Value xsi:type="xsd:boolean">true</Value> </Param></pre>
91576	When refreshing the schema of a table, columns are incorrectly recreated, which causes the relationships between tables to be lost. This issue only happens with tables that are created from an import package or file.
91644	In the data flow Dimensions > Asset Properties step, if more than one asset path is added to the Data Sources list, only the most recently added path is used in the data flow.
91973	You can now use these keywords as a column name by enclosing them in square brackets:

Reference ID	Description																																				
	<table border="0"> <tr> <td>Avg</td> <td>Expression</td> <td>Min</td> <td>Stddev</td> </tr> <tr> <td>Boolean</td> <td>Following</td> <td>Offset</td> <td>Stdev</td> </tr> <tr> <td>Byte</td> <td>Guid</td> <td>Partition</td> <td>String</td> </tr> <tr> <td>Cast</td> <td>Int16</td> <td>Preceding</td> <td>Sum</td> </tr> <tr> <td>Count</td> <td>Int32</td> <td>Range</td> <td>Timespan</td> </tr> <tr> <td>Datetime</td> <td>Int64</td> <td>Row</td> <td>UInt16</td> </tr> <tr> <td>DatetimeOffset</td> <td>IsNull</td> <td>Rows</td> <td>UInt32</td> </tr> <tr> <td>Decimal</td> <td>Max</td> <td>SByte</td> <td>UInt64</td> </tr> <tr> <td>Double</td> <td>Median</td> <td>Single</td> <td>Unbounded</td> </tr> </table>	Avg	Expression	Min	Stddev	Boolean	Following	Offset	Stdev	Byte	Guid	Partition	String	Cast	Int16	Preceding	Sum	Count	Int32	Range	Timespan	Datetime	Int64	Row	UInt16	DatetimeOffset	IsNull	Rows	UInt32	Decimal	Max	SByte	UInt64	Double	Median	Single	Unbounded
Avg	Expression	Min	Stddev																																		
Boolean	Following	Offset	Stdev																																		
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92646	Double NaN values are incorrectly allowed as valid values and inserted in AnalytiX-BI tables.																																				
92714	Inconsistent results are returned when tables are joined on a string column that has the same values but in different cases (for example: "cat" and "CAT").																																				
94039	AnalytiX-BI Server may become unresponsive when connected to clients requesting a large number of process points.																																				

BridgeWorX64 and Workflow

Reference ID	Description
91936	In the Historical Input block, if the Aggregate field is set to anything other than "None" and the Point Name field contains an expression, the historical data is not read.
91996	<p>The TraceWorX logs for the ICONICS BridgeWorX64 Scheduling Service occasionally log several error-level messages on startup that do not actually indicate a problem. The product worked as designed despite these errors. The misleading error messages addressed by this change are:</p> <ul style="list-style-type: none"> ▪ Error creating FwxClient to net.tcp://localhost:8778/ with app.config. ▪ InvalidOperationException: Could not find endpoint element with name 'NetTcp_IAsyncServer' and contract 'Ico.Fwx.Communication.Core.IAsyncServer' in the ServiceModel client configuration section. This might be because no configuration file was found for your application or because no endpoint element matching this name could be found in the client element.
92070	Resolved a rare crash of the BridgeWorX64 and Workflows point managers.
92177	Transactions or Workflows end before finishing all activities, but the transaction status displays as Succeeded.
92204	A crash in the BridgeWorX64 scheduling service occurs when a triggering alarm source Related Value is set to an uninitialized array (for example, configured with an expression

Reference ID	Description
	x=createarray(1)).

CFSWorX

Reference ID	Description
91989	The TraceWorX logs for the ICONICS CFSWorX Workflows Scheduling Service occasionally log several error-level messages on startup that do not actually indicate a problem. The product worked as designed despite these errors. The misleading error messages are: <ul style="list-style-type: none"> ▪ Error creating FwxClient to net.tcp://localhost:8778/ with app.config. ▪ InvalidOperationException: Could not find endpoint element with name 'NetTcp_IAsyncServer' and contract 'Ico.Fwx.Communication.Core.IAsyncServer' in the ServiceModel client configuration section. This might be because no configuration file was found for your application or because no endpoint element matching this name could be found in the client element.
92070	Resolved a rare crash of the CFSWorX Workflows point manager.
92177	Transactions end before finishing all activities, but the transaction status displays as Succeeded.
92840	Text shortcuts, such as /T or /E, can now be escaped with an additional forward slash. For example, to include the literal characters /T in a message instead of the workflow name, use //T.

ReportWorX64

Reference ID	Description
91779	(ReportWorX64 Server) Reports that use a Generated Reports tag (visible under Reports in the Data Browser) cause the ReportWorX64 service to hang when attempting to run the report. When this problem occurs, the report stays in the queue and never finishes.
92219	(ReportWorX64 Server, ReportWorX64 Express) When multiple real-time tags are part of the same data source, the order of those tags in the generated report is inconsistent.
94193	Reports with a single tag data source execute very slowly.

AssetWorX

Reference ID	Description
94286	If you export AssetWorX data to Excel, sort the exported data, and then reimport the data into AssetWorX, the import fails. This occurs when the exported data can't fit into a single Excel cell due to Excel's character limit. The error message associated with this failure has been improved.

Controls

AlarmWorX64 Viewer

Reference ID	Description
89539	Resolved a rendering issue with the line connecting a label to a pie chart. In certain cases, the lines would be drawn extremely out of position.
91054	Exporting data to XML when cells contain "<" or ">" characters creates an invalid XML file.
91114	The counts that are shown in the details bar are incorrect when applying or changing a filter.
91550	CSV exports of data from the AlarmWorX64 Viewer don't display Unicode data when opened in Excel.
92117	The AlarmWorX64 Viewer's minimum column width has been reduced from 40 pixels to 20 pixels and is now consistent with the desktop (WPF) AlarmWorX64 Viewer. You can specify values that are less than 20 pixels for the column width, but the columns will be rendered at a minimum of 20 pixels in runtime.
93389	(MobileHMI and HTML5 WebHMI) The percent sign (%) is repeated twice in a hover message on a pie chart.
94269	AlarmWorX Viewer does not correctly display the colors of the rows in the Chinese localization of Windows.

Asset Navigator

Reference ID	Description
92125	The @@self placeholder does not include the remote prefix when Asset Navigator displays assets from a remote root.

Data Explorer

Reference ID	Description
94257	(MobileHMI and HTML5 WebHMI) Data Explorer displays no data after switching GridWorX configurations.
94264	Resolved a memory leak in Data Explorer.

GridWorX Viewer

Reference ID	Description
90944	A row or cell that previously met the criteria for any visual style but was modified to no longer match, does not return to the default style.
91054	Exporting data to XML when cells contain "<" or ">" characters creates an invalid XML file.
91550	CSV exports of data from the GridWorX Viewer don't display Unicode data when opened in Excel.
91855	(MobileHMI and HTML5 WebHMI) You can now hide the warning icon that appears in the bottom left corner of the GridWorX Viewer by setting <code>EnableSilentMode</code> to true.
91862	(MobileHMI and HTML5 WebHMI) Conditions on specific columns aren't properly applied if the cell value is updated and EnableRefreshOnApply is enabled.
92117	The GridWorX Viewer's minimum column width has been reduced from 40 pixels to 20 pixels and is now consistent with the desktop (WPF) GridWorX Viewer. You can specify values that are less than 20 pixels for the column width, but the columns will be rendered at a minimum of 20 pixels in runtime.
92147	After upgrading from version 10.95.5, virtual field commands don't work.
92308	When ResolveOPCTags is set to true in the GridWorX Viewer, the grid periodically jumps back to the top, losing the scroll position.
92423	Not all columns are populated after the data source tag changes in runtime, such as from global aliasing.
92606	(MobileHMI and HTML5 WebHMI) GridWorX chart tooltips render incorrectly when tooltip text contains a semicolon (;).

Table Control

Reference ID	Description
92697	The client crashes when scrolling through a Table control with a column styling rule that uses the <code>@@value</code> context variable. In addition, column styling does not update when the <code>@@resolvedvalue</code> context variable changes value.

TrendWorX64 Viewer

Reference ID	Description
91304	Resolved a memory leak in the TrendWorX64 Viewer when displaying data set data. The leak was most visible with large amounts of data.
91376	(MobileHMI and HTML5 WebHMI) Unable to drag more than 8 pens to an HTML5 TrendWorX64 Viewer. This isn't the case when adding pens via other methods, such as using the Add Pen command.
91550	CSV exports of data from the TrendWorX64 Viewer don't display Unicode data when opened in Excel.
91560	(MobileHMI and HTML5 WebHMI) The @@chart.timeinterval context property of the TimeRangeChanged event returns an incorrect value.
91645	Pens occasionally display as disconnected when they contain both global and local aliases.
91688	If a third-party OPC UA server returns historical data in batches, the TrendWorX64 Viewer only displays data from the first batch. As a result, the TrendWorX64 Viewer is only partially populated with data.
92103	When Simple Wheel Zoom is enabled (the default) and the Auto Scale Margin value of a Y-axis or range is not zero (zero is the default), the mouse wheel only zooms out, not in.
92624	Resolved an issue that caused the chart to drag instead of zoom when a box zoom was attempted.
92794	The foreground color is now applied to the loading icon. Previously, it was always black.
94229	(MobileHMI and HTML5 WebHMI) The Create Pen and Edit Pen commands don't work with the ShowInLegend property.

Data Connectivity

BACnet Classic

Reference ID	Description
91149	Editing a port in the BACnet Classic provider causes an "object reference not set to an instance of an object" error to be thrown when the system's NIC card does not provide the MAC address attribute.
94243	The BACnet point manager crashes when a BACnet object enters a fault state.

GridWorX (Databases)

Reference ID	Description
91110	Importing Management Information Base (MIB) files with duplicate entries causes an error and the MIB import process fails, importing no entries.
91124	When testing the command for a data source that includes parameters that are required to execute the command, it fails and an error message is displayed.

Mitsubishi Electric Factory Automation (FA)

Reference ID	Description
91665 91940	When using an iQ-R, iQ-F, or iQ-L device with registers whose addresses are outside the valid range, an exception occurs that crashes the Mitsubishi Electric FA point manager. This happens more frequently with large numbers of registers (~100,000 or more).

SNMP

Reference ID	Description
91110	Importing Management Information Base (MIB) files with duplicate entries causes an error and the MIB import process fails, importing no entries.
91479	Alarm clients can now subscribe to additional fields named "Attribute n_OID" (where n is the attribute number) in addition to Attributes 1–10. For example, "Attribute 3_OID." These fields include the full OID of the trap variable.
92368	Data sets coming from the SNMP point manager can now be used in AnalytiX-BI, BridgeWorX64, ReportWorX64, and Workflows.

GraphWorX64

Reference ID	Description
90904	(MobileHMI and HTML5 WebHMI) The cursor doesn't change from a pointer to a hand when hovering over objects that allow for data entry.
90919	(MobileHMI and HTML5 WebHMI) In HTML5 displays, pick actions with a global command do not fade when that action is denied by security. There is no visual indication that security prevented the user from taking the action.
91142	(MobileHMI and HTML5 WebHMI) If a location dynamic is connected to a dynamic data source (such as a global alias) when a display loads, the location isn't set correctly because the initial value hasn't arrived.
91147	(MobileHMI and HTML5 WebHMI) Layers that are nested in another layer disable the

Reference ID	Description
	NoZoom, NoPan and NoScrolling properties.
91310	(MobileHMI and HTML5 WebHMI) Pop-up menus that are configured with custom font settings (such as a different FontFamily or FontStyle property) but use the default FontSize property of 12, do not open in HTML5 displays.
91431	(Mobile HMI and HTML5 WebHMI) If a pop-up menu is configured for an object inside a group, and the menu position is set to MousePoint, the pop-up menu appears in the wrong location.
91721	(Mobile HMI and HTML5 WebHMI) Pop-up menus configured to appear at the mouse position appear in the wrong place if the display zoom level is anything other than 100%.
92262	(MobileHMI and HTML5 WebHMI) HTML5 now logs GenEvent messages when it loads displays.
92305	(Mobile HMI and HTML5 WebHMI) Bold and right- or center-aligned text is not correctly positioned.
92818	(MobileHMI and HTML5 WebHMI) If a smart symbol's description property is made into a smart property and bound to another property using advanced binding, the description does not resolve.
92891	For certain displays, if the runtime properties have Outer Border set to False, the display content is misaligned or doesn't completely fill the window in runtime.

Hyper Historian

Reference ID	Description
90318	When Minimum Time Extent and Maximum Total Size are selected as the condition for archiving a logger, the archiver only checks the time extent if the maximum total size has been reached first. This gives the impression that archiving is not working properly since the logged files exceed the configured total size when the time extent hasn't been reached. The archiver now simultaneously checks the size and time extent, and archives if either limit is reached.
92383	Hyper Historian does not log if one of the logged tags has a Data Type of Native and the data source reports a data type of "CustomSerializable."
92792	After running Hyper Historian Data Exporter, annotations (operator comments) are not being exported to SQL.

IoTWorX and Internet of Things

Reference ID	Description
92081	When publishing a real-time point that has Cloud Buffering and HDA selected, new clients that subscribe to that point have a different value from established clients until the first update is sent.

KPIWorX

Reference ID	Description
91275	When using Excel to open an export file that contains DateTime values, using the Share feature causes errors.
91766	Dashboards created in previous versions of KPIWorX do not correctly display configured vertical axes of a categorical chart widget in the latest KPIWorX runtime.
94241	Cannot load the KPIWorX dashboard.

MobileHMI and HTML5 WebHMI

Reference ID	Description
91861	Enhanced the performance of batch steps in HTML5 commands, speeding up the execution by approximately 200 milliseconds per step. This can increase the speed of batch commands that execute many steps.
91976	Sometimes, when HTML5 pages are loaded, the following error message appear in the TraceWorX log for the Anyglass Server multiple times: "Client command fail. type: unknown_id data." These messages do not indicate an actual error, and they have no impact on performance. These messages will no longer be logged.
92480	The time is incorrectly shifted for commands with DateTime parameters (Set Time Range and Edit Trend Chart) when those parameters use an expression.
94278	When a display-dependent or window-dependent popup window or main window is right-clicked, the popup window moves to the center of the window.

TrendWorX64 Logger

Reference ID	Description
94071 94074	Passwords for SQL Server database connections cannot contain an equal (=) sign.

Workbench

Reference ID	Description
91388	The ICONICS Workbench Configuration Service (or ICONICS FrameWorX, if the Workbench Configuration point manager is running in-process) crashes when restarting the service or when changing the currently active project in Workbench.
91418	Workbench now allows the use of up to 6 loggers.
94251	Workbench point manager (IcoConfigService) memory usage grows over time if there are a lot of events logged in Windows Logs > Security.
94175	A change has been made to improve Workbench performance issues in IoT projects. When a new IoT project or device group is created, the Device Group pane now opens so that you can select the devices to add to the group. Previously, all the devices that were available in the IoT Hub were automatically added to the device group.

Known Issues and Limitations

Reference ID	Description
52673	The AlarmWorX64 Multimedia Configurator (Workbench Classic) does not support upgrading AlarmWorX64 Multimedia configurations contained in databases along with other ICONICS configurations (such as unified configuration databases). These configurations can only be upgraded by the installation or the Configure System utility.
58862	The Classic BACnet trend buffer is not synchronized correctly (creating a gap in the historical trend) when the Hyper Historian Logger Service has been stopped for a period of time (at least 15 minutes, but it is more likely to occur the longer the logger has been stopped).
63359	Esri maps are currently not supported in HTML5.
79462	On Windows 7 and Server 2012 systems, the ICONICS services can take a long time starting (10 minutes or more). This can delay services that are necessary to allow connections via Remote Desktop or Hyper-V console, which means that it can take more than 10 minutes before the system can be accessed.

Reference ID	Description
	<p>The workaround for this issue is to change the start-up type for some services to Automatic (Delayed). Use the Services control panel or the Configure Services dialog in Workbench to change any ICONICS service running as Automatic to Automatic (Delayed). The ICONICS services still will be slow to become responsive, but you will be able to remote into the system in the meantime.</p>
81025	<p>When using PowerShell cmdlets to add energy calculations to meter tags, the related AssetWorX equipment properties (including their connection to Hyper Historian) are not automatically created. You will need to create these properties manually or with additional PowerShell cmdlets.</p>
83056	<p>Alarm acknowledgement may not succeed when acknowledging many alarms at once that originate from an IoTWorX device. Users encountering this issue can work around it by acknowledging alarms in smaller batches.</p>
83619	<p>Importing a CSV or XML file created in version 10.97 without any rollups applied can cause a warning if the export file included AssetWorX equipment classes that use the Alarms tab of an equipment property. The warning is:</p> <p style="padding-left: 40px;">"Cannot generate the entity at location X at line Y. Unknown entity 'AlmsAcEquipmentClassPropertySourceInput' in the import file. If the file was manually edited it may have been edited incorrectly. If it was not edited, then the entity may have been renamed in the software. Search the ICONICS Knowledgebase for 'AlmsAcEquipmentClassPropertySourceInput' or contact technical support for assistance correcting the file with the new entity name."</p> <p>The settings on the Alarms tab of these equipment classes will not be imported.</p> <p>To solve this issue, edit the CSV or XML file with a text editor and replace all instances of "AlmsAcEquipmentClassPropertySourceInput" with "AlmsAcEquipmentClassPropertySInput". Once edited, you should be able to import the file into a 10.97 system with Critical Fixes Rollup 1 or later. Make sure to run the import again after the file has been repaired to import the alarm settings.</p>
88327	<p>If you are using WCF communication and upgraded from a previous version to 10.97.1 using the secure installation option (which is the default), you will see keys and be unable to use the system. There are two possible solutions:</p> <ul style="list-style-type: none"> ▪ The preferred solution is to open the FrameWorX Server Location dialog and select Use WebSockets. ▪ You can re-enable WCF communication by editing a configuration file. This isn't recommended because Microsoft has obsoleted WCF communication, and it might be completely unavailable in future versions. If you decide to re-enable WCF communication,

Reference ID	Description
	follow the steps in this ICONICS knowledge base article .
88364	<p>Systems upgraded to 10.97.1 from 10.96.2 or 10.97 may not be able to use newly added point managers. Specifically, if this issue occurs, you can't browse the point managers in the Data Browser and no clients can use their points. These new point managers include: BACnet with SC, Mitsubishi Electric FA Connector, Hyper Alarm Logger, Hyper Historian Query Interface, Facility AnalytiX Query Interface, and IoT Publisher. Users who are still using the default configurations for their point managers will not encounter this issue.</p> <p>To resolve this issue, edit the FwxServer.PointManagers.config file. Follow the steps in this ICONICS knowledge base article to update this file.</p>



ICONICS, a group company of Mitsubishi Electric Corporation, serves as the software center of excellence for Mitsubishi Electric's Factory Automation Systems Group. Its visualization, analytics, mobile, IoT, and cloud solutions improve productivity, reduce integration time and operating costs, and optimize asset utilization. ICONICS solutions, combined with the knowledge and industry expertise of Mitsubishi Electric, maximize value to the customer by monitoring and controlling automation processes. ICONICS award-winning software boasts over 375,000 installations in Factory Automation, Process Automation, and Building Automation customers in over 100 countries worldwide.

ICONICS is leading the way in cloud-based solutions with its HMI/SCADA, analytics, mobile and data historian to help its customers embrace the Internet of Things (IoT). ICONICS products are used in manufacturing, building automation, oil and gas, renewable energy, utilities, water and wastewater, pharmaceuticals, automotive, and many other industries. Delivering information anytime, anywhere, ICONICS' solutions scale from the smallest standalone embedded projects to the largest enterprise applications.

ICONICS promotes an international culture of innovation, creativity, and excellence in product design, development, technical support, training, sales, and consulting services for end users, systems integrators, OEMs, and channel partners. ICONICS solutions are installed in 70 percent of the Global 500 companies around the world, helping customers to be more profitable, agile, efficient, to improve quality, and to be more sustainable.

ICONICS Sales Offices



World Headquarters

2 Hampshire Street
Foxborough, MA, USA, 02035
☎ +1 508 543 8600
✉ info@iconics.com



European Headquarters

Netherlands
☎ +31 252 228 588
✉ holland@iconics.com

Australia

✉ australia@iconics.com

Brazil

✉ brazil@iconics.com

Canada

✉ canada@iconics.com

China

✉ china@iconics.com

Czech Republic

✉ czech@iconics.com

France

✉ france@iconics.com

Germany

✉ germany@iconics.com

India

✉ india@iconics.com

Indonesia

✉ indonesia@iconics.com

Italy

✉ italy@iconics.com

Japan

✉ japan@iconics.com

Malaysia

✉ malaysia@iconics.com

Mexico

✉ mexico@iconics.com

Middle East

✉ middleeast@iconics.com

Netherlands

✉ holland@iconics.com

Philippines

✉ philippines@iconics.com

Singapore

✉ singapore@iconics.com

South Korea

✉ southkorea@iconics.com

Taiwan

✉ taiwan@iconics.com

Thailand

✉ thailand@iconics.com

UK

✉ uk@iconics.com

Vietnam

✉ vietnam@iconics.com

For more, visit iconics.com

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