

GENESIS32™

V9.1 Enhancements

V9.1
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1 GENESIS32™ V9.1 Enhancements

1.1 New in Version 9.1:

With the release of GENESIS32 V9.1 new modules have been added to the GENESIS32 Suite of applications. Some of the new components are included in the GENESIS32 Standard product others are sold optionally.

- **ScheduleWorX32 – Optional Product**

2 AlarmWorX™32 V9.1 Enhancements

Summary

- AlarmWorX32 was enhanced to be fully compatible with Microsoft Vista32 and Vista64 with or without UAC enabled.

AlarmWorX32 Viewer:

- Enhanced the AlarmWorX32 Viewer Filter Wizard adding (*.?) as quick help in the dialog box.
- Enhanced the AlarmWorX32 Viewer Filter Wizard adding support for browsing for Sources.
- Enhanced the AlarmWorX32 Viewer Filter Wizard adding support for an additional filter to show a combo-box from the "Alarm Tag" dialog box to select the attribute and to enter the string for the like statement as well.
- Revised the name of the Advanced Attribute Filter dialog to "Attribute Filter" from "Alarm Tag" giving it a clearer indication of its purpose.
- Improved the dialogs for editing an existing filter, removing the unneeded question "Yes to Edit Filter using Advanced Expression Editor. No to Delete Filter and use Filter Wizard. Cancel to maintain current filter."
- Enhanced the AlarmWorX32 Viewer to enumerate all INI entries into the INI file with default values.
- Enhanced the AlarmWorX32 Viewer adding support for an OLE Automation method for "Comparison Ack". The Comparison Ack could be used for logging only those alarms that are not already acknowledged.
- Enhanced the AlarmWorX32 Viewer adding a configurable option to disable scientific notation syntax.
- Enhanced the AlarmWorX32 Viewer OLE Automation Interface adding the ability to sort even though security does not allow this. The method SortEnable(False) makes it so the interactive user cannot sort, although sorting is still available via scripting.
- Enhanced the AlarmWorX32 Viewer to support the ability to disable sorting on a per instance basis.
- Enhanced the AlarmWorX32 Viewer adding a configurable option to disable flashing of the header.
- Enhanced the AlarmWorX32 Viewer OLE Automation Interface adding a method to suppress the beep. (ThisDisplay.AWXVIEW32OCX1.BeepEnable False/True)
- Improved the AlarmWorX32 Viewer's handling of AE Servers that are disconnected from the network. The length of time needed to determine if the AE Server is offline / not communicating has been shortened significantly.

AlarmWorX32 Alarm Indicator:

- Enhanced the AlarmWorX32 Alarm Indicator adding default subscriptions to the Alarm Server and Event Server

AlarmWorX32 Logger Configurator:

- Enhanced the AlarmWorX32 Logger Configurator adding support for Global (UDM-based) Filters.
- Updated the AlarmWorX32 Logger default configuration to define the default node as "localhost" and to apply GenEvent and AlarmWorX32 Server configurations to it.
- Enhanced the AlarmWorX32 Logger Configurator adding support for running

- on MS Windows Vista with UAC enabled.
- Enhanced the AlarmWorX32 Logger Configurator's support for new configurations so the new configurations now start with a default column list (so user doesn't have to re-create it).
- Enhanced the AlarmWorX32 Logger Configurator to change its icon to a question mark (to warn the user) if the configuration is not associated with any node (the same icon as for configuration that don't specify logging type). For newly created configurations, it auto-associates each configuration with "anonymous" node (it is created when missing) or "localhost" if it is already there.
- Enhanced the AlarmWorX32 Logger Configurator to Auto-create the logging database (with tuning parameters properly set).

AlarmWorX Logger:

- Enhanced the AlarmWorX32 Logger adding support for Global (UDM-based) Filters.
- Enhanced the AlarmWorX32 Logger adding support for configuring the processor affinity via the INI file entry "ProcessAffinityMask"
- Enhanced the AlarmWorX32 Logger adding support for using "localhost" to reflect local host (as well as "anonymous")
- Enhanced the AlarmWorX32 Logger adding support for running on MS Windows Vista with UAC enabled.

AlarmWorX32 Server Configurator:

- Enhanced the AlarmWorX32 Server Configurator adding a new Rate of Change alarm type with limits. The ROC alarm type supports alarming when the rate lower than the limit. In the past, alarms only went off when the rate of change was higher than the limit.
- Enhanced the AlarmWorX32 Server Configurator adding support for Change-of-Value alarms. This type of alarm allows the user to configure a special alarm such that any change in the OPC value at all will trigger the alarm.
- Enhanced the AlarmWorX32 Server adding support for configuring the processor affinity via the INI file entry "ProcessAffinityMask"

AlarmWorX32 Server:

- Enhanced the AlarmWorX32 Server adding support for configuring the processor affinity via the INI file entry "ProcessAffinityMask"
- Enhanced the AlarmWorX32 Server adding support to optionally make limit alarms inclusive.
- Enhanced the AlarmWorX32 Server to enumerate all INI entries into the INI file with default values.
- Enhanced the AlarmWorX32 Server to support OPC DA tags indicating the severity of the highest severity active alarm in an area. To support this, Tags "Area_MaxSeverity" and "Recursive_MaxSeverity" were added to Area objects.
- Enhanced the AlarmWorX32 Server to support OPC DA tags indicating the number of active alarms within an area. To support this, tags "Area_Active_Count" and "Recursive_Active_Count" were added to Area objects
- Enhanced the AlarmWorX32 Server improving the load times with SQL Server based configurations.
- Enhanced the AlarmWorX32 Server adding the ability to turn off the GenEvents that are ported on startup for missing tags / non-communicating OPC Servers. The OPC DA events can be shut off by adding the following ini

file setting :

[AWX32\AWXSvr32]

NotifyDAErrors=FALSE

- Enhanced the AlarmWorX32 Server OPC DA interface adding an Unack DA value for each tag state. It may be used to notify the user that the point was formerly in alarm state.
- Enhanced the performance of the AlarmWorX32 Server's OPC DA interface, lowering its CPU usage significantly.
- Enhanced the AlarmWorX32 Server adding a new Rate of Change alarm type with limits. The ROC alarm type supports alarming when the rate lower than the limit. In the past, alarms only went off when the rate of change was higher than the limit.
- Enhanced the AlarmWorX32 Server adding support for an optional state machine that allows the user to acknowledge the same alarm more than once. Alarms prefixed with "fa:" will not cause acknowledgement and will repost the message with actor id and comment. Additional changes will cause the comment to overwrite.
- Enhanced the AlarmWorX32 Server adding support for Change-of-Value alarms. This type of alarm allows the user to configure a special alarm such that any change in the OPC value at all will trigger the alarm.
- Enhanced the AlarmWorX32 Server to add support for an optional offset that gets applied when the alarm server calculates the time stamp for an alarm (in the case of communications timeout to the OPC Server). An INI file setting (TimeOffset) is used to turn this feature on and specifies the offset time, in seconds. The offset time is always subtracted from current time.

3 New Application Setup Utility V9.1

Summary

- The Application Setup Utility creates a new user and group and sets DCOM permissions for all applications in the ICONICS GENESIS32 application suite. Among its many capabilities and features are:
 - Simplifies DCOM Setup
 - Prompts for Account (Domain or Local)
 - Allows creation of New User
 - Gives user needed Permissions
 - Sets up ICONICS Servers to run as Services under selected identity
 - Sets DCOM Security on all ICONICS Servers Intelligently and Silently

4 AlarmWorX™32 MMX V9.1 Enhancements

Summary

- Enhanced the Default.awv file to include the additional attributes Area and Default Display.

AlarmWorX32 MMX Server:

- Enhanced the AlarmWorX32 MMX Server to support configuring the processor affinity via the INI file entry "ProcessAffinityMask"
- Enhanced the AlarmWorX32 MMX Server to work on multi-processor computers

AlarmWorX32 MMX Mail Agent:

- Enhanced the AlarmWorX32 MMX Mail Agent adding support for a configurable timeout and support for configuring the IP address to use for validation. The following INI file settings were added:
 - [AWXMMX32\MMXMail]
 - TimeOut=0
 - UseLocalIP=0
 - DefinedIPServer=12.15.133.9
- TimeOut=0 'sets timeout to wait for SMTP replay 0 = wait forever
- UseLocalIP=0 'If set to 1 system will use local ip name in HELO message. Only active if user name and password not set AND DefinedIPServer not set.
- DefinedIPServer=12.15.133.9 'If set will use string as name / local ip in HELO message. Only active if user name and password not set. Overwrites use of UseLocalIP setting.

AlarmWorX32 MMX Phone Agent:

- Enhanced the AlarmWorX32 MMX Phone Agent to support settings for pitch, volume and speed
- Enhanced the AlarmWorX32 MMX Phone Agent adding support to expose the complete dx_cap structure for phone configuration – to make trouble-shooting phone issues easier.
- Enhanced the AlarmWorX32 MMX Phone Agent adding the following new ini file settings:
 - #define GUID_CA_CNOSIG_T("ca_cnosisg")
 - #define GUID_CA_DTN_PRESENSE_T("ca_dtn_pres")
 - #define GUID_CA_DTN_NPRES_T("ca_dtn_npres")
 - #define GUID_CA_DTN_DEBOFF_T("ca_dtn_deboff")
 - #define GUID_CA_NOANSWER_T("ca_noanswer")
- ca_cnosisg: Continuous No Signal: The maximum time of silence (no signal) allowed immediately after Cadence Detection begins. If exceeded, a "no ringback" is returned. (CA) Length: 2. Default: 4000. Units: 10 ms.
- ca_dtn_pres: Dial Tone Present: Length of time that a dial tone must be continuously present. (CA: Enhanced only) Default: 100. Units: 10 ms.
- ca_dtn_npres: Dial Tone Not Present: Maximum length of time to wait before declaring dial tone failure. (CA: Enhanced only) Default: 300. Units: 10 ms.
- ca_dtn_deboff: Dial Tone Debounce: Maximum gap allowed in an otherwise continuous dial tone before it is considered invalid. (CA:

- Enhanced only) Default: 10. Units: 10 ms.
 - ca_noanswer: No Answer: Length of time to wait after first ringback before deciding that the call is not answered. (CA: Enhanced only)
Default: 3000. Units: 10 ms.
- Enhanced the AlarmWorX32 MMX Phone Agent to support an option for truncating values read with Call-In.

AlarmWorX32 MMX Sound Agent:

- Enhanced the AlarmWorX32 MMX Sound Agent to support settings for pitch, volume and speed

5 Data Mining V9.1 Enhancements

Summary

Data Mining ActiveX Control:

- Enhanced the Data Mining ActiveX Control adding the option to not have the background color change when a row is selected.
- Enhanced the Data Mining ActiveX Control adding the ability to change the color of a certain cell based on the value of a cell.
- Enhanced the Data Mining ActiveX Control adding support for a second level of column headers to sit above the first level, under which they can group multiple first-level headers.
- Enhanced the Data Mining ActiveX Control to automatically auto-fit the columns and rows after rendering the grid's data. This feature is turned off by default. To enable, set AutoFitColumns = True in the VBA Properties window.
- Enhanced the Data Mining ActiveX Control adding the ability to disable the sort functionality by individual grid object (similar to what is available in the Alarm Report ActiveX).
- Enhanced the Data Mining ActiveX Control adding a runtime toolbar similar to the Alarm Report ActiveX.

Data Mining OPC Server:

- Enhanced the Data Mining OPC Server to support configuring the processor affinity via the INI file entry "ProcessAffinityMask"
- Enhanced the Data Mining OPC Server to support running as a service.

Data Mining OPC Server Configurator:

- Enhanced the Data Mining OPC Server Configurator adding support to view the SQL statement for Data Manipulators in the same way as it had been supported for Data Sources.
- Enhanced the Data Mining OPC Server Configurator adding support for security.
- Enhanced the Data Mining OPC Server Configurator and runtime to separate the Data Sources from the Data Manipulators. This was done by creating separate read-only folders for them.

6 DataWorX™32 V9.1 Enhancements

Summary

- Enhanced DataWorX32 to support running on Microsoft Windows Vista with UAC (User Account Control) on.
- Improved the DataWorX32 support for the "Input update propagation" function to only change the register via the defined Input (all writes to the register are sent directly to the Output(s) but not reflected in the register).
- Enhanced DataWorX32 to enumerate all of its IcoSetup.ini entries into the INI file with Defaults.
- Enhanced DataWorX32 to support configuring the processor affinity via the INI file entry "ProcessAffinityMask"
- Enhanced DataWorX32 adding the ability to create a SQL Server-based configuration file.
- Enhanced DataWorX32 to allow the use of the dash character (i.e. "-") in folder names. (Note, this feature was supported in V7).
- Enhanced DataWorX32 to allow the "Disabling" of tags but keeping them configured. This can prevent GenClient from periodically re-requesting non-existent tags in a system.
- Enhanced DataWorX32 to support the forcing of specific quality. This feature was present in DataWorX32 V7 and wasn't available in V8 nor earlier V9 releases.

7 DataWorX™32 Professional V9.1 Enhancements

Summary

- Enhanced the DataWorX32 Professional MonitorWorX function to give the Primary node the capability to monitor and display the status of the OPC DA servers are running on the Secondary node.

8 GenBroker V9.1 Enhancements

Summary

- Enhanced GenBroker adding support for configuring the processor affinity via the INI file entry "ProcessAffinityMask"
- Improved the startup of GenBroker to add additional error checking and to prompt the user with a "file not found" message if the GenBroker configuration file is not found.
- Improved GenBroker's GUI for setting the Administrative servers, adding the reference to "node pairs" for consistency.
- Enhanced GenClient to support VCRWorX32 playback of Historical Trend data. With this enhancement, VCRWorX32 can playback TrendWorX32 HDA Trends.
- Revised the default configuration of GenBroker to be based on the TCP/IP channel option.

9 GenDemo V9.1 Enhancements

Summary

- Added GenDemo displays that demonstrate some of the ScheduleWorX32 capabilities.

10 GenRegistrar Server/Licensing V9.1 Enhancements

Summary

- GENESIS32 Licensing has better error descriptions and instructions on how to deal with CrypKey problems (CKERR)
- The GENESIS32 licensing was enhanced to include more troubleshooting information in the GenLog.dat file – for better troubleshooting information.

11 GenTray V9.1 Enhancements

Summary

- Enhanced GenTray to support running on Microsoft Windows Vista with UAC (User Account Control) on.
- Enhanced GenTray to support the starting and stopping of ScheduleWorX (i.e. the UDM Runtime component) and to support its running as a service.
- Enhanced GenTray to support the running of TrendWorX32 Report as a service.

12 Global Aliasing V9.1 Enhancements

Summary

- Enhanced the Global Aliasing Engine to support configuring the processor affinity via the INI file entry "ProcessAffinityMask"

13 GraphWorX™32 V9.1 Enhancements

Summary

- Enhanced GraphWorX32 adding an option to always show the custom tooltip text, regardless of whether or not the condition is active. An automation interface was added to GraphWorX32 for enabling this feature.
- Enhanced GraphWorX32 to store all of its settings into the IcoSetup.ini file after registration. Additionally, two new property pages have been added to the application preferences dialog to put the settings in GraphWorX32 dialogs. Also, the GraphWorX32 TraceWorX logging was enhanced to log messages when loading non-default values from the INI file.
- Enhanced the GraphWorX32 Automation Interface adding support for setting the Format and Engineering units of Process Points.
- The GraphWorX32 default scan rate for Application Preferences was changed to 1000ms.
- Enhanced GraphWorX32 adding Box Zoom functionality to the GraphWorX32 Viewer ActiveX
- Enhanced GraphWorX32 adding support for Dynamic Data Formatting for X number of significant digits. Called smart data format for float data, it works similar to the usual data format (when the data entry box is checked, the keypad appears) with the following modification: as opposed to the standard format, when the number of significant digits exceeds the one indicated in the Format field, the decimal point has to shift to accommodate for those digits until it is possible, i.e., until the number of significant digits in the incoming process point exceeds the total number of symbols defined in the Format field.
- Improved the performance of GraphWorX32 in the area of switching displays, optimizing this area of the GraphWorX32 performance.
- Enhanced GraphWorX32 adding support for second level aliasing for the LoadDisplay function. This can be implemented by passing the pick ID into LoadDisplay which passes it into a function CreateAliasMapForCurrentDisplay().

14 Language Aliasing V9.1 Enhancements

Summary

- Enhanced the Language Configurator to support a new default language processing option. When invoking this new option, the language will default to the default language of the client machine (which can be different than the default language of the (Language) server. To support this new feature, a "Server Settings" Page in the "Options" dialog and a new checkbox called "Use Client Locale Id as Default Language" has been added. The checkbox can be used to switch between old and new default language processing.
- Enhanced the Language (Server) Engine to add support for configuring the processor affinity via the INI file entry "ProcessAffinityMask"

15 Licensing V9.1 Enhancements

Summary

- Enhanced the GENESIS32 Licensing system adding support for a new (replacement) hardware key.
- Enhanced the GENESIS32 Software Licensing system adding support for running on the Windows Vista 32-bit Operating System and on several Windows 64-bit Operating Systems including:
 - Windows XP 64-bit
 - Windows Server 2003 64-bit
 - Windows Vista 64-bit

16 ProjectWorX™32 V9.1 Enhancements

Summary

- Added support for ScheduleWorX32
- Enhanced ProjectWorX32 adding caching for the display password so that the user does not get asked to re-enter the password for every display being published.
- Enhanced ProjectWorX32 adding support for Data Mining OPC Server SQL-based configurations.

17 Recipe Mgmt System V9.1 Enhancements

Summary

- Enhanced the Recipe Management system to provide more detailed event descriptions.
- Added Global and Language Alias browser buttons to the Recipe Tree Explorer
- Enhanced the Recipe Control to indicate when a recipe is disabled by showing a different icon when it is disabled.

18 ScriptWorX™ 2006 V9.1 Enhancements

Summary

- Enhanced the ScriptWorX2006 adding support for configuring the processor affinity via the INI file entry "ProcessAffinityMask"

19 Security V9.1 Enhancements

Summary

- Enhanced the Security Configurator, increasing NT synchronization period to more than 99 minutes.
- Enhanced the Security Server adding support for configuring the processor affinity via the INI file entry "ProcessAffinityMask"

20 SNMP Connectivity V9.1 Enhancements

Summary

- Enhanced the SNMP Connector adding support for configuring the processor affinity via the INI file entry "ProcessAffinityMask"

21 TrendWorX™32 V9.1 Enhancements

Summary

TrendWorX32 Logger:

- Enhanced the TrendWorX32 Logger to optionally allow logging using the local timestamp instead of the device timestamp.
- Enhanced the TrendWorX32 Logger to support larger Tag Names, increasing the number of characters from 60 to 255 character Tag Names.
- Enhanced the TrendWorX32 Logger to add support for configuring the processor affinity via the INI file entry "ProcessAffinityMask"

TrendWorX32 Logger Configurator:

- Enhanced the TrendWorX32 Logger Configurator to support larger Tag Names, increasing the number of characters from 60 to 255 character Tag Names.
- Enhanced the TrendWorX32 Logger Configurator to support auto-creation of the logging databases with tuned settings.

TrendWorX32 Viewer:

- Enhanced the TrendWorX32 Viewer to store all of its settings into the IcoSetup.ini file after registration.
- Enhanced the TrendWorX32 Viewer to show the percentage of range on the right side.
- Enhanced the TrendWorX32 Viewer adding the ability to use a single click to make a pen visible/invisible.
- Enhanced the TrendWorX32 Viewer to show all the text in the selected color in the details window (not just the Icon).
- Enhanced the TrendWorX32 Viewer adding a column on the display bottom to show the history value (value pertaining to where the cursor is positioned).
- Enhanced the TrendWorX32 Viewer adding the capability to zoom in the runtime mode, without having to freeze the screen.
- Enhanced the TrendWorX32 Viewer to support an option where it no longer shows flat lines going into future (ie; when there is no data available) for HDA pens.
- Enhanced the TrendWorX32 Viewer to support having Navigation Bar on top of the TrendViewer.
- Enhanced the TrendWorX32 Viewer adding the ability to show all historical values without having to go to freeze mode.
- Enhanced the TrendWorX32 Viewer adding the ability to change Pen's scales without extra dialogs. The ability to type over the current Pen scale values was added.
- Enhanced the TrendWorX32 Viewer to use security to not allow users to close out the Trend Viewer toolbar (as an option).
- Enhanced the TrendWorX32 Viewer to optionally allow the user to remove the times from the viewer and show only the dates.
- Enhanced the TrendWorX32 Viewer to allow users to specify alignment for the text in the Details area.
- Enhanced the TrendWorX32 Viewer adding the ability to disable the toolbar (prevent it from coming up). The MainToolbar property enables or disables the POSSIBILITY to have a toolbar. The MainToolbar property now closes the toolbar when set to False.

- Enhanced the TrendWorX32 Viewer adding the capability to use the cursor in runtime mode (and not only when the chart is in freeze mode).

TrendWorX32 Persistent Trend:

- Enhanced TrendWorX32 Persistent Trending with using default configuration instead of active

TrendWorX32 Report:

- Added ability to TrendWorX32 Report to run as NT Service
- Added Data management to TrendWorX32 Report when reporting to database

TrendWorX32 HDA Server:

- Enhanced the TrendWorX32 HDA Server to add support for configuring the processor affinity via the INI file entry "ProcessAffinityMask"

22 Unified Data Browser V9.1 Enhancements

Summary

- Enhanced Unified Data Browser by making visible all tabs at all times. The tabs are multi-lined now.
- Enhanced Unified Data Browser by adding one single tab for all UDM Triggers

23 Unified Data Manager V9.1 Enhancements

Summary

- Added support for the UDM Registers
- Enhanced the Unified Data Manager Configurator to provide a warning when a non-unique RecipeItemID is used, and to provide the option to turn it off.
- Enhanced the Unified Data Manager Configurator to allow moving up/down of the Recipe parameters.
- Enhanced the Unified Data Manager Configurator, increasing the item name size limit
- Enhanced the interaction in the Unified Data Manager Configurator
 - Added the capability to give OPC tags a logical label/name
 - Added the capability to give values sets not only a number but also a logical name
 - Added the capability to show the value sets in a grid with the logical tag labels/names across the top
 - Added the capability of in grid editing of the value set
 - Added the capability such that when selecting the appropriate value set, that you can choose the label.
- Enhanced the Unified Data Manager Configurator, setting the Output Tag as an optional checkbox

24 VCRWorX™32 V9.1 Enhancements

Summary

- Enhanced GenClient to support VCRWorX32 playback of Historical Trend data. With this enhancement, VCRWorX32 can playback TrendWorX32 HDA Trends.

25 WebHMI™ V9.1 Enhancements

Summary

- SQL Express 2005 SP2 was added to the WebHMI installation

26 Other V9.1 Enhancements

Summary

- Enhanced the GraphWorX32 Help system adding TrendWorX32 ActiveX subfolders, improved the documentation on the the BitTest() and Bitwise Functions Range, and improved the description of the Database Pick Action.
- Enhanced the GenClient help file adding documentation on the GenClientWrapper.OPCHelper class.
- Enhanced the MonitorWorX help file adding information on the statistics that the GENESIS32 Servers provide to MonitorWorX for display.
- Integrated various Quick Start Guides into the GraphWorX, AlarmWorX, TrendWorX, and GenLicensing help systems.
- Enhanced the Security Server help file adding information about the encryption mechanism.
- Enhanced the Data Mining help file adding information about the support for MySQL version 5.0.

About ICONICS

ICONICS is a leading provider of award-winning enterprise manufacturing intelligence and automation software solutions.

ICONICS' solutions deliver real-time visibility into all enterprise operations and systems, helping companies to be more profitable, more agile, and more efficient. As a Microsoft Gold Certified Partner, ICONICS designs its solutions from the ground up to take maximum advantage of Microsoft .NET and SharePoint Portal Server technology, offering an unprecedented level of performance and ease of use.

Our award-winning GENESIS32 automation software solutions can improve productivity, reduce integration and operating costs, and optimize your asset utilization, giving your organization a competitive edge. All ICONICS products are based on "open standards," using OPC-to-the-Core technology leveraging proven architecture and lower TCO of mainstream Microsoft platform, and connect to your existing infrastructure. We have more than 200,000 applications running worldwide serving top manufacturing companies.

ICONICS' **BizViz** suite of products provides real-time manufacturing intelligence from the production floor to the boardroom, turning real-time information into your competitive advantage.

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