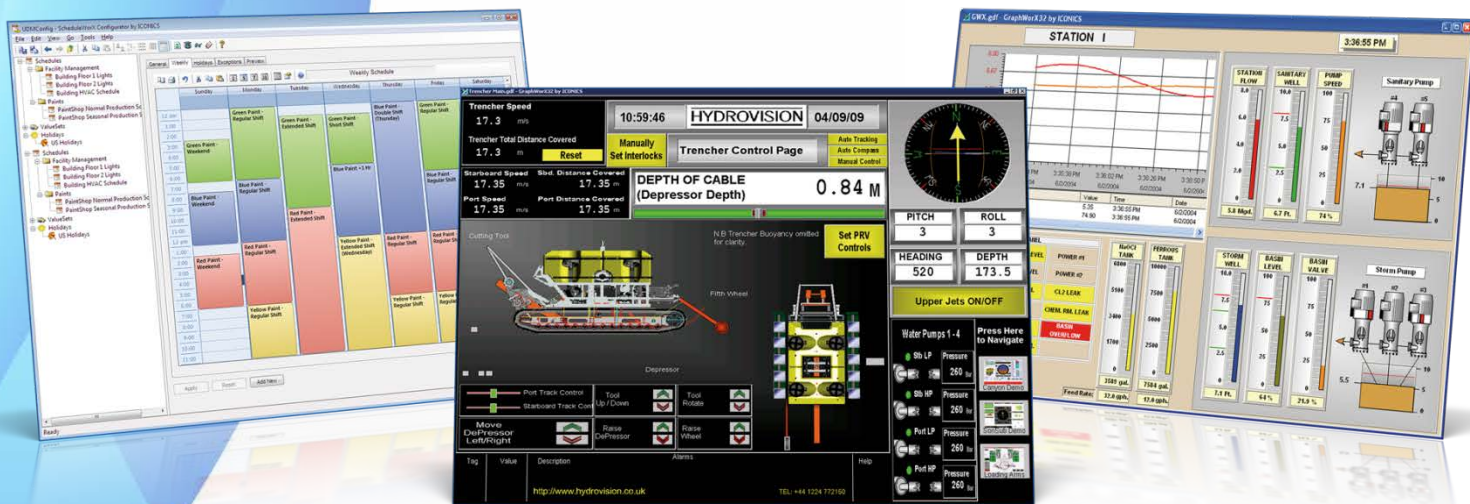




GENESIS 32™

What's New in
GENESIS32 V9.3
October 2013



Microsoft
GOLD CERTIFIED
Partner



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GENESIS32™ V9.3 Enhancements

New in Version 9.3:

With the release of GENESIS32 V9.3 new modules have been added to the GENESIS32 Suite of applications. These new components are included in the GENESIS32 Standard product.

- GENESIS32 Exporter
- GENESIS32 Extractor
- IcoSetupConfig

GENESIS32 V9.3 can run on and supports the following Windows Operating Systems:

- Windows 8
- Windows Server 2012

Support for SQL Server 2012 has been added. GENESIS32 V9.3 has been tested with and is compatible with SQL Server 2012

The new IcoSetupConfig application provides a Graphical User Interface for the IcoSetup.ini file, providing an easy-to-use way to make changes to the system settings that are contained this file.

AlarmWorX™32 V9.3 Enhancements

Summary

AlarmWorX32 Viewer:

- Enhanced the AlarmWorX32 Viewer adding support for optionally squelching the AlarmOle messages. The IcoSetup.ini setting for this option is: [34614]
[AWXVIEW32]
SquelchAlarmOle=1
- Enhanced the AlarmWorX32 Viewer adding support for optionally displaying the Date/Time in the following format: dd/mm/yyyy hh:mm:ss, the format used by the Alarm Report ActiveX. Normally, the Alarm Viewer displays Date/Time in the hh:mm:ss dd/mm/yyyy format. The IcoSetup.ini setting for this is option is: [34613]
[AWXVIEW32]
DateFirst=1
- Enhanced the AlarmWorX32 Viewer ActiveX GUI adding configuration settings for several options that were previously only configurable via the IcoSetup.ini file. The following properties can now be configured in the Viewer: [35191]
DisableAlias
DisableFreezeMode
DisableAckSecurity
DisableAlias
EventLimit
Limit
NoFlash
OldFlash
SetNotationLimit
- Enhanced the AlarmWorX32 Viewer adding support for alarm acknowledgement for multiple alarms with the same tag number (for the AWXViewer.SnapShotAck("") command). [34612]
- Enhanced the AlarmWorX32 Viewer adding a new API to get filtered data. ColRowInfoFromStoredList method was added. This method takes in order number and column ID and returns a string and a row number. Row numbers of zero mean no row number is available. Additionally, a new version of GetColRowInfo has been made available. This new version provides data from the alarm storage list, and provides row numbers where applicable. This allows users to get all alarms from the storage list and use existing methods (such as IsRowFiltered) for alarms that have a valid row number. [34569]
- Enhanced the AlarmWorX32 Viewer adding support for optionally displaying the old states of active alarms. This feature is enabled via the properties page setting HistoryMode=1. Normal alarms will display using CLEAR alarm colors. For best operation, set the AlarmWorX32 Server singleack=1. Reset operations will clear the display queue (e.g. alias change, language change, some automation interfaces, redundancy switchover). [33681]
- Revised the AlarmWorX32 Viewer's number format default setting. It is no longer defaulting to Scientific Notation. [27155]
- Enhanced the AlarmWorX32 Viewer to support rounding the values in the Alarm Viewer when Scientific Notation is turned off. Previously, the "SetNotationLimit" only had an effect when Scientific Notation was turned on. [35390]

AlarmWorX32 Logger / AlarmWorX32 Logger Configurator:

- Enhanced the AlarmWorX32 Logger to support an option to remove the primary key in the logging database. This option may be useful in the case where the OPC-DA interface for the AlarmWorX32 Server is used to change alarm limits. If such changes result in a change to the alarm state, then the Event Time of the alarm will not be different (because the input OPC tag has not changed) and the event would not be logged because it violates the primary key. Disabling the primary key will all such events to be logged. The IcoSetup.ini file setting is: [34476]
 [AWXLog32]
 DisablePrimaryKey=1
- Improved the archiving support for redundant logger configurations. Redundant Alarm Loggers now coordinate their archiving functions so that only one Logger (the Active Logger) performs the archiving function. [29196]
- Enhanced the AlarmWorX32 Logger and Configurator adding GUI's for the following IcoSetup.ini settings: [35181]
 - [AWX32\AWXLog32] BackupPrintResetDelay
 - [AWX32\AWXLog32] CacheDuration
 - [AWX32\AWXLog32] DotMatrixOnPrimary
 - [AWX32\AWXLog32] DotMatrixOnSecondary
 - [AWX32\AWXLog32] EnableSquelch
 - [AWX32\AWXLog32] EventQBufferTime
 - [AWX32\AWXLog32] EventQSize
 - [AWX32\AWXLog32] EventQTime
 - [AWX32\AWXLog32] MaxConnectionMinutes
 - [AWX32\AWXLog32] PrintWaitTimeout
 - [AWX32\AWXLog32] PrimaryPrintResetDelay

AlarmWorX32 Report ActiveX

- Enhanced the AlarmWorX32 Report ActiveX GUI adding configuration settings for several options that were previously only configurable via IcoSetup.ini file settings. An "Options" property page was added to configure the following properties: [35148]
 PrintFilterNamesOnly
 TimeFirstFormatting
 ShowMilliseconds
 MsColumnFormat
 These IcoSetup.ini settings are now ignored.
- Enhanced the AlarmWorX32 Report ActiveX adding a column which contains the ActiveTime with milliseconds. [34591]
- Enhanced the AlarmWorX32 Report ActiveX adding an option for a time-first formatting of the DateTime values. [34478]

AlarmWorX32 Server:

- Enhanced the AlarmWorX32 Server to support expressions that are longer than 255 characters. [26753]
- Enhanced the AlarmWorX32 Server's debugging support. Added trace messages for the Alarm Server to track DA input name, value, quality, OPC server time, and received time. Due to the nature of the input, this can overload the trace file. By default, the trace level is 101. Added IcoSetup.ini setting MonitorDAinput=1 to change trace level to 950. Note, the Alarm logger is ideal to track alarms generated. [34605]

- Enhanced the AlarmWorX32 Server to make the default sub-condition for Limit, Rlimit, and Dev to Sub-condition LoLo. Previously it was defaulting to Rate of Change which users were finding to be a bit confusing. [35705]
- Enhanced the AlarmWorX32 Server and Configurator adding GUI's for the following IcoSetup.ini settings: [35181]
 - [AWX32\AWXSvr32] AckSizeLimit
 - [AWX32\AWXSvr32] AlarmOnBadQuality
 - [AWX32\AWXSvr32] DAMaxPollRate
 - [AWX32\AWXSvr32] DBPeriod
 - [AWX32\AWXSvr32] IgnoreNormal
 - [AWX32\AWXSvr32] ForceDAUpdate
 - [AWX32\AWXSvr32] NotifyDAErrors
 - [AWX32\AWXSvr32] ReloadDBOnWrite
 - [AWX32\AWXSvr32] SingleAck
 - [AWX32\AWXSvr32] SquelchAddFail
 - [AWX32\AWXSvr32] TimeOffset

AlarmWorX32 Server Configurator:

- Enhanced the AlarmWorX32 Server configurator to support expressions that are longer than 255 characters. [26753]
- Enhanced the AlarmWorX32 Server Configurator to support SQL Server 2012 [35060] [34799]
- Enhanced the AlarmWorX32 Server and Configurator adding GUI's for the following IcoSetup.ini settings: [35181]
 - [AWX32\AWXSvr32] AckSizeLimit
 - [AWX32\AWXSvr32] AlarmOnBadQuality
 - [AWX32\AWXSvr32] DAMaxPollRate
 - [AWX32\AWXSvr32] DBPeriod
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 - [AWX32\AWXSvr32] NotifyDAErrors
 - [AWX32\AWXSvr32] ReloadDBOnWrite
 - [AWX32\AWXSvr32] SingleAck
 - [AWX32\AWXSvr32] SquelchAddFail
 - [AWX32\AWXSvr32] TimeOffset

AlarmWorX™32 MMX V9.3 Enhancements

Summary

- Enhanced the AlarmWorX32 MMX Server to make the STOP Condition "Return To Normal" so that it works with Action Condition Return To Normal Action. [32433]
- Enhanced the AlarmWorX32 Phone Agent adding support to allow the user to do an early button press to stop the message from playing. Currently users must wait for entire message before entering pin number. [35429]
- Added support for SQL Server 2012 [34707]
- Changed the default value for the "Report activity to GenEvent" setting in the AlarmWorX32 MMX Configurator to be un-checked to help prevent users from inadvertently creating a situation where they send out many emails to their realms because they subscribed to GenEvents and had "Report Activity to GenEvent" checked. [35482]
- Enhanced the AlarmWorX32 Multimedia Phone Agent adding support for a maximum timeout for the Callin menu. [35430]
- Added a user interface for several AlarmWorX32 Multimedia Phone Agent settings (ones in the IcoSetup.ini file). The UI is provided in the new IcoSetupConfig application. [22903]

Application Setup Utility V9.3

Summary

- Enhanced the AppSetupUtility adding support for generating a detailed report (log file) when there is a failure during installation. The file AppSetupUtility.log is created / appended in user's TEMP folder. [34657]

BACnet Connector V9.3

Summary

- Enhanced the BACnet Runtime's BACnet device discovery process adding support for network filtering. The network filters can be specified in the INI file named "BACnPI64.cfg". This file must be in the same folder as the BACnetRuntime64.exe file. There must be a [Settings] section and the network filtering has following syntax:
 [Settings]
 Networks=105;1
The above setting indicates you want to use filtering and you want to see (discover) only the devices on networks 105 and 1. [35239]
- Enhanced the BACnet Runtime adding support for reading and writing to BACnet Proprietary properties. [35707]
- Enhanced the BACnet Runtime adding support for multiple foreign device registration. [35708][35709]
- Enhanced the BACnet Workbench32 Runtime provider adding the ability to organize devices by network (in the tree). [33404]
- Enhanced the BACnet Runtime and the Workbench32 Runtime Provider adding support for deleting a single device from the list of discovered devices (from the cache). This will allow the re-discovery (re-learning) of a single device's objects without the need to delete to the entire device discovery cache. [33187]
- Enhanced the BACnet Runtime communications adding support for devices that do not support segmentation. [34651]

New ConverterWorX V9.3

Summary

New ConverterWorX File Extractor:

- The ConverterWorX File Extractor utility is a new tool for extracting the GENESIS32 system configuration files from an existing GENESIS32 system. It runs on an existing GENESIS32 system and is used to copy the collected files to a remove-able storage device or to a network storage device. Its intended use is to extract:
 - Displays (GraphWorX32 displays)
 - GENESIS32 Configuration databases
 - GenBroker and GenTray configuration files
 - Security Configuration file
 - UDL files
- ConverterWorX Extractor v9.3 features include:
 - Automatic detect the file locations of the active configuration databases
 - Extraction of configuration databases located in a MS SQL Server database (databases of up to 4GB in size)
 - Extraction of configuration databases stored in Oracle database (databases of up to 4GB in size)
 - Extraction of TrendWorX32 logged data databases (up to 4GB in size)
 - Extraction of AlarmWorX32 logged data databases (up to 4GB in size)

New ConverterWorX GENESIS32 Exporter:

- The ConverterWorX GENESIS32 Exporter utility is a new tool for exporting the GENESIS32 system configuration files to a standard XML format. It is intended to run a separate machine (not the original running GENESIS32 system). It first upgrades the configuration databases to the latest v9 format (V9.3) before it converts them to XML format.
- Its intended use is to export the following types of configuration files to XML:
 - Displays (GraphWorX32 displays)
 - GENESIS32 Configuration databases
 - GenBroker and GenTray configuration files
 - Security Configuration file
- ConverterWorX Exporter v9.3 features include the upgrade and the export to XML for the following configuration databases:
 - AlarmWorX32 Server
 - AlarmWorX32 Logger
 - TrendWorX32 Logger
 - Unified Data Manager
 - DataWorX32
 - Language Aliasing
 - Global Aliasing
 - ScheduleWorX32
 - SNMP
 - Data Mining OPC Server configurator
 - AlarmWorX32 MMX Server
- ConverterWorX Exporter v9.3 features include the export to XML for the Alarm and Trend Containers

DataWorX™ 32 V9.3 Enhancements

Summary

DataWorX32:

- Enhanced the DataWorX32 Server and Configurator adding GUI's for the following IcoSetup.ini settings: [35181]
 - [Dwx32\Options] EditAliasesAsRegs
 - [Dwx32\Options] ShowOPCTagFailMsgs
- Added a new setting that can be used to prevent a scenario where both the Primary and Secondary Alarm Server and Alarm Logger could both go to the Active state (momentarily) during a startup of one of the Server machines. The new setting is:
 - StartupActivationDelay (for both the AlarmWorX32 Server and Logger)
 - Units are milliseconds
 - Default value is 0
 - Should be put in both the AlarmWorX32 Server and Logger sectionsIt defines the amount of time (in milliseconds) to delay before the Alarm Server and Alarm Logger go to the Active state during their startup. It is recommended this be set to 5 seconds on a redundant system. [35196]

GenBroker V9.3 Enhancements

Summary

- Enhanced GenClientWrapper adding support for milliseconds. Three new methods were added that take milliseconds (the same names with Msec on the end). [34350]
- Enhanced GenClient and GraphWorX32 adding support for On-Demand asynchronous reads. This new refresh method is now available for scripting in GraphWorX32 with the new automation method GwxPoint.RefreshValue(). [34080][34067]
- Added new options to the EPS (Extended Point Syntax) named TimeStampLocal and TimeStampUTC. The TimeStampUTC is for use in Server applications and TimeStampLocal is for use in Client applications. [33795]

GraphWorX™32 V9.3 Enhancements

Summary

- Enhanced GenClient and GraphWorX32 adding support for On-Demand asynchronous reads. This new refresh method is now available for scripting in GraphWorX32 with the new automation method GwxPoint.RefreshValue(). [34080][34067]
- Enhanced the way GraphWorX32 saves files during the Search and Replace function. It now only re-saves files that have something changed in them (rather than re-saving every single file even if nothing is changed). [35075]
- Added descriptions for various Application Settings and Application Switches into GraphWorX32. [34825]
- Added a control to GraphWorX32 for the “LaunchAppTimeoutSecs” option. [34823]
- Added 'LoginDisplay' and 'LoginDisplayAutoFailBack' options to the GraphWorX32 GUI. [34821]
- Enhanced GraphWorX32 adding WebHMI support for the function ThisDisplay.SetWindowTitle. It now works over WebHMI. [34721]
- Enhanced GraphWorX32 to allow custom location of the login.gdf file. Currently when the logged-in user doesn't have permission to view a display GWX shows the login.gdf file shown in the Bin directory. One can now change location and name of the login display in IcoSetup.ini. Also the automatic reload of the original display before loading the login display is optional. [34719]
- Enhanced GraphWorX32 adding an API method (GetAllStates) to read the current states from a Statefield. [34259]
- Enhanced GraphWorX32 adding an API method (get/set property ExecutionTrigger) to tell which triggers are checked for a pick action. [34258]
- Enhanced the GraphWorX32 Viewer GUI adding descriptions for the Application Settings and Application Switches. [34827] [34826]
- Enhanced the GraphWorX32 Viewer adding support for the option (Event Tag Name) to show only tag name instead of the whole tag path. [27327]
- Enhanced the support for Process Points in GraphWorX32 adding the option to mask the Process Point display text. The "Password" property was added into the OAlnum class (PPT/DE). When you check the option then you will see "*" chars instead of the value. You should see it when entering the value and also when you are in runtime. Also the tooltip is disabled in this case. [24701]
- Added the ability in GraphWorX32 to preserve “Custom data” and “Description” in the Update Shared Object function, and implemented a UI (user interface) for this. [33477]

Licensing V9.3 Enhancements

Summary

- Enhanced the License Monitor to show the number of WebHMI clients that are in use. [32345]
- Enhanced the License Utility to make the “FAX/Email Registration” optional – for OEMs. [34875]
- Enhanced the License Monitor adding a button to refresh GenRegistrarServer, which forces GenRegistrar to read the license again. [33483]
- Improved the format of the GenLog.dat (GenLog.txt) file making it more readable. [31383]
- Enhanced the License Utility adding an option to copy the “View License” information to the clipboard instead of showing it in the GUI. The copy button copies to the clipboard. [28742]

ScheduleWorX32 V9.3 Enhancements

Summary

- Enhanced the ScheduleWorX32 ActiveX adding an OLE Automation Interface for Weekly Schedules and Exceptions. Three automation interfaces were added:
 - //AddWeeklyEvent
 - //Day of week 0-6 (Sunday - Saturday)
 - //Hour 0-23
 - //Minute 0-59
 - //Second 0-59
 - //priority 1-1000
 - void AddWeeklyEvent(BSTR eventName, BSTR strValueSetValue, BSTR location, SHORT priority, SHORT DayOfWeekStart, SHORT hourStart, SHORT minuteStart, SHORT secondStart, SHORT DayOfWeekEnd, SHORT hourEnd, SHORT minuteEnd, SHORT secondEnd)
- //AddExceptionEvent
- //Hour 0-23
- //Minute 0-59
- //Second 0-59
- //priority 1-1000
- //month 1-12
- //day 1-31
- void AddExceptionEvent(BSTR eventName, BSTR strValueSetValue, BSTR location, SHORT priority, SHORT YearStart, SHORT MonthStart, SHORT DayStart, SHORT hourStart, SHORT minuteStart, SHORT secondStart, SHORT YearEnd, SHORT MonthEnd, SHORT DayEnd, SHORT hourEnd, SHORT minuteEnd, SHORT secondEnd)
- //DeleteSelectedEventsMethod - All selected events will be deleted; no confirmation dialog is shown, and if you delete a recurring exception then it will only delete that occurrence.
- void DeleteSelectedEventsMethod();

Security V9.3 Enhancements

Summary

- Enhanced the Security system adding support for Auto-logout on user inactivity. The user can set the number of minutes (1 to 999) of no mouse movement or keyboard entries to wait before auto logout occurs. [34602]
- Enhanced the Security Server's Event Logging support. Added support for logging the following types of events:
 - login: successful or not or attempt
 - logout : manual or automatic
 - account lockout: lock and unlock
 - login rejected because account is locked
 - password changes
- Improved the security message when an account is locked out, especially in the case when the user is locked out due to attempting to login too many times with an incorrect password. In addition, support was added to make the login rejection message a popup message. [34699][34745]
- Improved the presentation of the "Change Password" information on the Security Login dialog box. Now when the "user name" combo box loses focus, or when it's drop-down list is collapsed, the highlighted user name string is checked against the security server password change permission. If the user does not have permission to change the password, the "Change Password" button is disabled. [29770]
- Enhanced the Security Configurator to require greater password complexity. In the previous version, when the password complexity was configured, a password had to contain characters from three of the following four categories:
 - upper case characters (A-Z)
 - lower case characters (a-z)
 - base 10 digits (0-9)
 - Non-alphanumeric (For example, !, \$, #, %)In v9.3, when the password complexity is configured, a password has to contain characters from all four of the above categories. [31115]

SNMP Connectivity V9.3 Enhancements

Summary

- Enhanced the SNMP Configurator to support longer OID names. OID names can now be up to 255 characters (previously they were limited to 100 characters). [34662]
- Enhanced the SNMP Configurator to support longer Description fields by making the field displaying the descriptions scroll-able. [34661]

TrendWorX™ 32 V9.3 Enhancements

Summary

TrendWorX32 Logger TrendWorX32 Logger Configurator:

- Enhanced the TrendWorX32 Logger and Configurator adding GUI's for the following IcoSetup.ini settings: [35181] [34563]
 - [TWXLog32\Data] IgnoreDeadBand
 - [TWXLog32\Data] SamplesToSkip
 - [TWXLog32\Data] UseLocalTime
 - [TWXLog32\Data] IgnoreFirstBadExpression
 - [TWXLog32\Data] UseLocalTime
 - [TWXLOG32\Runtime Settings] LogLocalTimeOnStopLog
- o Enhanced the TrendWorX32 Logger and Configurator adding support for SQL Server 2012.

TrendWorX32 Report:

- Enhanced TrendWorX32 Report adding support tag names that are longer than 64 characters. This enhancement allows Tag names of any length for the following scenarios:

- Delivery target is a CSV report – no limit on Tag name size
- Delivery target is a MS Excel report – no limit on Tag name size

And if the delivery target is a database, the Tag names would have the following limitations:

- Delivery target is a MS SQL Server or MS SQL Express database – Tag names can be up to 128 characters
- Delivery target is a MS Access database – Tag names will still be limited to 64 characters

An ICOSSETUP.INI setting has been added to enable this special handling in the code for Schneider Electric. The specific setting is:

[TWXREPORT\Logging Preferences]

IgnoreTagColumnLength=1

If set to (1), it will enable the special handling during configuration and runtime. This new setting should be used ONLY by new applications, who want the above behavior, since it can break report column header compatibility with existing reports. [34743]

TrendWorX32 Viewer:

- Improved the TrendWorX32 Viewer's startup performance significantly. [34643]
- Enhanced the TrendWorX32 Viewer automation interface adding ways to get or set OPC Tags with scripts (in the case where OPC Tags are used for Global ranges, Pen ranges, or Pen alarms). On the TWXVRANGES ranges object: [35207]

- LowLimitSource
- HighLimitSource

On the TWXVPEN object:

- LowLimitSource
- HighLimitSource
- AlarmLoLowSource
- AlarmLowSource
- AlarmHighSource
- AlarmHiHighSource

- Enhanced the TrendWorX32 Viewer adding a “Cancel Request” button that can be used to cancel the loading of the HDA data in the viewer. [34647]
- Enhanced the TrendWorX32 Viewer adding a setting that can be used to disable the loading of logged values for invisible pens. (If and when the pens get visible, the values would be loaded then). To enable this feature, set the following in the IcoSetup.ini file: [34646]
[TWXVIEW32\Settings]
LoadInvisibleHDAPens=0
- Enhanced the TrendWorX32 Viewer adding the ability to print the legends / Descriptions for all of the pens in the viewer. Previously, only the descriptions of first 3 pens could be printed. To enable this feature, set the following IcoSetup.ini file setting: [35540]
[TWXVIEW32\Print Properties]
Print Details Separately=1

TrendWorX32 SQL Query Engine:

- Added a SQL Script to the installation which allows users to create a TrendWorX32 Linked Server. [35413/]

Unified Data Browser V9.3 Enhancements

Summary

- Enhanced the Unified Data Browser adding support for (server side) filtering, a feature that would allow the user to show a subset of the items. [34712]
[34711]

Workbench32 V9.3 Enhancements

Summary

- Enhanced the Workbench32 tree control adding a sorting arrow for sorted columns. It now shows an arrow to indicate ascending or descending sorting on the column. [28452]
- Added support for SQL Server 2012. [35173]

Other V9.3 Enhancements

Summary

- Improved the use-ability in general. Many of the IcoSetup.ini settings have been moved to the Configurators. Plus an new utility (IcoSetupConfig) is provided to make it easier to change the remaining IcoSetup.ini settings such as the processor affinities. [23443]
- Enhanced the support for OEMing GENESIS32, making OEMing ProgIDs possible [34923]



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