

International ToolWorX™: Internationalizing GENESIS32™ Products

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1 About This Document

1.1 Scope of the Document

This document describes how to create alternate language resource - dynamic link libraries (DLLs) for ICONICS' GENESIS32 product family.

1.2 Copyright

This document is © Copyright 2008, ICONICS, Inc., Foxborough, Massachusetts.

TRADEMARKS: GraphWorX32, TrendWorX32, and AlarmWorX32 are trademarks of ICONICS, Inc.

TRADEMARKS: Microsoft, Windows, Windows NT, ActiveX, Visual C++, Win32, and/or other Microsoft products referenced herein are either trademarks or registered trademarks of Microsoft.

TRADEMARK: Visual Localize is a registered trademark of Applied Information Technologies AG.

1.3 Revision History

Version 5.2.1 – JP	December 1998
Version 5.2.2 – JP	February 1999
Version 6.00 – RLA	January 2000
Version 6.01 – RLA	February 2000 – Corrected DLL names.
Version 6.10 – SHA	May 2001
Version 7.00 – MJM	January 2003
Version 8.00 – DMO	August 2004
Version 9.00 – IK	July 2006

2 Introduction

2.1 General Overview

The International ToolWorX product provides users with a method to translate various GENESIS32 applications into other languages. The following User Interface items can be modified and translated:

- **User Interface Menus**
- **Dialog boxes**
- **Message strings**

Note: *The translated files will operate under Windows NT, Windows 2000, Windows XP, and Windows Server 2003.*

2.2 Included Translation Files and Location

The international resource DLL files used in the translation of any ICONICS GENESIS32 products can be found on the ICONICS GENESIS32 Product CDROM in the **E:\Tools\translations** directory, where E: is the CDROM drive.

2.3 Product Translation

Any one of the ICONICS products can be translated individually, for example, individual products such as GraphWorX32, TrendWorX32, AlarmWorX32 or DataWorX32. Simply copy the files as listed in the product Translation table and follow the directions as listed in the following sections.

2.4 Recommended Translation Tools

ICONICS recommends the following two products for language translation: Visual Localize 3.0 or higher, by Applied Information Technologies, or Alchemy CATALYST 4.0 or higher, by Alchemy Software. Both products offer free trial downloads, but there is a limitation on the percentage of resources that can be translated. Visual Localize will allow translation of 50 percent of the resource files, and Alchemy CATALYST will allow 10 percent. We therefore recommend purchasing the product in order to gain full translation benefits. ICONICS has successfully used these tools in translation of its products and has had experience with them. Use of any other tool may not be guarantee proper translation and reliable product execution.

For more information about the Visual Localize product, contact Applied Information Technologies:

Address: Applied Information Technologies
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Email: info@visloc.com

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For more information about the Alchemy CATALYST product, contact Alchemy Software:

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2.5 Product Translation Files

The table below lists all the GENESIS32 product family applications. One can translate a single GENESIS32 application or the entire family of products. The following table lists the names of the applications that can be translated:

GENESIS32™ Product Resource Translation Table

Product Category	Application	Module Name
GraphWorX32	GraphWorX32 VBA Container	GWX32_ENU.DLL
	GraphWorX32 Viewer ActiveX	GWXview32_ENU.DLL
	Symbol Library	SymbolLibrary_ENU.DLL
	Common Expression Editor	IcoExpressionEditor_ENU.DLL
	GraphWorX32 Keyboard/Keypad	IcoKeyPad_ENU.DLL
	GraphWorX32 System Tray Text	GWXTray_ENU.DLL
	Gauge ActiveX	GwxGauge_ENU.DLL
	Numeric ActiveX	GwxNumeric_ENU.DLL
	Slider ActiveX	GwxSlider_ENU.DLL
	Switch ActiveX	GwxSwitch_ENU.DLL
	Vessel ActiveX	GwxVessel_ENU.DLL
	RecipeControl ActiveX	RecipeCtrl_ENU.DLL
	TreeExplorer ActiveX	TreeExplorer_ENU.DLL
TrendWorX32	TrendWorX32 VBA Container	TWX32_ENU.DLL
	TrendWorX32 Viewer ActiveX	TWXViewer_ENU.DLL
	TrendWorX32 Persistent Trending	TWXBgTrend_ENU.DLL
	TrendWorX32 SQL Configurator	TWX32Cfg_ENU.DLL
	TrendWorX32 SQL Logger	TWXSQLSvr_ENU.DLL
	TrendWorX32 SQL Tool	TWXSQlTool_ENU.DLL
	TrendWorX32 Reporting	TWXReport_ENU.DLL
	TrendWorX32 System Tray Text	TWXTray_ENU.DLL
	TrendWorX32 OLEDB Provider	TWXOLEDB_ENU.DLL
AlarmWorX32	AlarmWorX32 VBA Container	AWX32_ENU.DLL
	AlarmWorX32 Viewer ActiveX	AWXview32_ENU.DLL
	AlarmWorX32 OPC AE Server	AWX32svr_ENU.DLL
	AlarmWorX32 Server Configurator	AWX32ServerConfigurator_ENU.DLL
	AlarmWorX32 Alarm Logger	AWXLog32_ENU.DLL
	AlarmWorX32 Logger Configurator	AWXLogCfg_ENU.DLL
	Alarm OLE Automation	AlarmOLE_ENU.DLL
	AlarmWorX32 System Tray Text	AWXTray_ENU.DLL
	Alarm Reporting ActiveX	AWXRep32_ENU.DLL
	Alarm Indicator ActiveX	AwxInd32_ENU.DLL

AlarmWorX32 Multimedia	Multimedia Alarm Configurator	AWXMMX32Configurator_ENU.DLL
	Multimedia Alarm Server	AWXMMX32_ENU.dll
	Hardware Marquee Agent	IPMarquee_ENU.dll
	Dialogic Phone Agent	MMXCall_In_ENU.dll
	TAPI Phone Agent	MMXCall_InTAPI_ENU.dll
	Fax Agent	MMXFax_ENU.dll
	Email Outlook Express Agent	MMXMail_ENU.dll
	Email Outlook Agent	MMXMailExt_ENU.dll
	Email SMTP Agent	MMXMailSMTP_ENU.dll
	Software Marquee Agent	MMXMarquee_ENU.dll
	Pager Agent	MMXPager_ENU.dll
	Popup Agent	MMXPopup_ENU.dll
	Sound Agent	MMXSound_ENU.dll
	MMX System Tray Text	MMXTray_ENU.dll
ScriptWorX32	ScriptWorX32 Configurator	ScriptWorX32_ENU.DLL
	ScriptWorX32 Engine	SwxEngine_ENU.DLL
	ScriptWorX32 System Tray Text	SWXTray_ENU.DLL
ScriptWorX 2006	ScriptWorX2006 Configurator	SWXConfigurator_ENU.dll
	ScriptWorX2006 System Tray Text	SWXTray2006_ENU.dll
DataWorX32	DataWorX32 Configuration	DwxConfigurator_ENU.Dll
	DataWorX32 System Tray Text	DWXTTray_ENU.DLL
GENESIS Licensing	GENESIS32 Licensing	GenLic32_ENU.DLL
	GENESIS32 Licensing	GenRegistrarServer_ENU.DLL
	GENESIS32 Licensing	GenRegPP_ENU.DLL
	GENESIS32 Licensing	AppName_ENU.dll
MonitorWorX	MonitorWorXViewer	MonitorWorXViewer_ENU.dll
	MonitorWorXViewer	MonitorWorXApps_ENU.dll
SNMP	SNMP	SNMPConfigurator_ENU.dll
	SNMP	SnmpExplorer_ENU.dll
Screen Manager Utility	Screen Manager Application	ScrMgrBar_ENU.DLL
	Screen Manager User Preferences	ScrMgrUsrPrf_ENU.DLL
	Screen Manager System Tray Text	ScrMgrTray_ENU.DLL
Secure Desktop Utility	Secure Desktop System Tray Text	SecDeskTray_ENU.DLL
Security	Security Configurator	Security_ENU.DLL
	Login Application	Login_ENU.DLL
	Security Indicator ActiveX	SecIndicator_ENU.dll
GENESIS Tray Utility	System GENESIS Tray Utility	GenTray_ENU.DLL
Custom Tray Utility	Custom Tray Utility	CustomTray_ENU.DLL
OPC Data Spy Utility	OPC Data Spy Client Utility	DataSpy_ENU.DLL
Data Mining	Data Mining Configurator	DBOPCServerConfigurator_ENU.dll?
	Data Mining Browser	IcoDatabaseBrowser_ENU.dll
	Data Mining ActiveX	DBMining_ENU.dll
Unified Data Manager	Unified DataManager	DMConfig_ENU.dll

Unified Data Browser	Unified Data Browser	UniversalBrowserGUI_ENU.dll
	Unified Data Browser	UniversalBrowserPlugIn_ENU.dll
VCRWorX Configurator	Unified Data Configurator	AutoConfig_ENU.dll
GenAgent Tray Utility	GenAgent System Tray Text	GenAgentTray_ENU.DLL
GenStatistics Utility	Communication Statistics	GenStatistics_ENU.DLL
GenBroker Communication	GenBroker Communications Utility	GenBrokerConf_ENU.dll
	GenBroker System Tray Text	GenBrokerTray_ENU.DLL
OLE Express Communication	OLE Express Communication	OLEExpress_ENU.DLL
Application NT Event Logger	Logs Events to NT Event Logger	AppLog_ENU.DLL
Web Publishing Utility	Web Publishing Utility	WEBPublisher_ENU.DLL
	Web Publishing Wizard	WEBWizard_ENU.DLL
	File Download	FileDownload_ENU.DLL
Global Aliasing	Global Aliasing Engine	GASEngine_ENU.DLL
	Global Aliasing Configurator	GASConfig_ENU.dll
	Global Aliasing Client	GASClient_ENU.DLL
	Global Alias Theme Browser	GASThemeBrowser_ENU.DLL
Language Aliasing	Language Configuration	LASConfig_ENU.dll
	Language Selector	LASSelector_ENU.dll
	Language Engine	LASEngine_ENU.DLL

3 Creating a Resource DLL for GENESIS32™

3.1 Alternate Language Resource DLLs

Alternate language resource DLLs are the means by which GENESIS32 applications (for example, GraphWorX32) and ActiveX components (for example, TrendWorX32 ActiveX) can change the language of their user interface.

Alternate language DLLs allow GENESIS32 applications to change the language of their user interface on the fly, without needing to reboot the machine or run/restart different versions of the GENESIS32 applications. The International ToolWorX product provides users with a method to translate various GENESIS32 applications into other languages. The following User Interface items can be modified and translated:

- **User Interface Menus**
- **Dialog boxes**
- **Message strings**

A language DLL does not change the language for system dialog boxes (for instance, the file open dialog) and system messages. These dialogs and messages are dictated by the language version of Windows you are running on your computer and the language version of the MFC DLLs installed on your computer.

3.2 Naming Convention

Alternate language DLLs must conform to the following naming convention to be recognized by GENESIS32 applications:

AppName_StandardThreeCharacterCountryCode.dll

So, for instance, a German language DLL for GraphWorX32 (Gwx32.EXE) would have the name:
GWX32_DEU.DLL.

For applications with more than one module DLL listed, ALL language DLLs must be created before the application's new language can be used. For instance, in order to translate GENESIS32 Licensing, there must be an appropriate **GenRegistrarServer** DLL and an appropriate **GenRegPP** DLL.

The table below lists the three-character codes for various languages and locales.

Language/Locale	Code	Script
Greek	ELL	Other
Russian	RUS	Cyrillic
Turkish	TRK	Latin 2
Polish	PLK	Latin 2
Czech	CSY	Latin 2
Slovak	SKY	Latin 2
Hungarian	HUN	Latin 2
Danish	DAN	Latin 1
Dutch (Standard)	NLD	Latin 1
Belgian (Flemish)	NLB	Latin 1
English (American)	ENU	Latin 1
English (British)	ENG	Latin 1
English (Australian)	ENA	Latin 1
English (Canadian)	ENC	Latin 1
English (New Zealand)	ENZ	Latin 1
English (Ireland)	ENI	Latin 1
Finnish	FIN	Latin 1
French (Standard)	FRA	Latin 1

Language/Locale	Code	Script
French (Belgian)	FRB	Latin 1
French (Canadian)	FRC	Latin 1
French (Swiss)	FRS	Latin 1
German (Standard)	DEU	Latin 1
German (Swiss)	DES	Latin 1
German (Austrian)	DEA	Latin 1
Icelandic	ISL	Latin 1
Italian (Standard)	ITA	Latin 1
Italian (Swiss)	ITS	Latin 1
Norwegian (Bokmal)	NOR	Latin 1
Norwegian (Nynorsk)	NON	Latin 1
Portuguese (Brazilian)	PTB	Latin 1
Portuguese (Standard)	PTG	Latin 1
Swedish	SVE	Latin 1
Spanish (Standard/Traditional)	ESP	Latin 1
Spanish (Mexican)	ESM	Latin 1
Spanish (Modern)	ESN	Latin 1

Thus, the standard Dutch language DLL for TrendWorX32 Reporting would be named **TWXReport_NLD.DLL**, and the Hungarian language DLL for the Universal Tag Browser would be named **TagBrowser_HUN.DLL**.

Note: The recommended Internationalization and translation tools should be used to create accurate and reliable products.

3.3 Creating a new Language DLL

Every language resource DLL needed for internationalization is represented by a sample United States English DLL named by the convention described above (which carries the code **ENU**). This sample is not actually used by the application, as American English is the internal language of all GENESIS32 applications. All DLLs are found in the directory in which their parent application's EXE file resides.

Here are some easy steps to create a DLL for another language, using the Visual Localize tool:

- Start Visual Localize.
- Click **File | New Project**, to create a new translation project.
- Click on the "... " button to select a path and filename for your project.
- Under **"Project files"**, add each resource DLL you would like to translate.
- Choose the appropriate Source and Target translation languages, and click on OK to create the project.
- Expand the tree on the left hand pane to reveal the resources to be translated (for example, string tables, menus, and dialogs).
- Simply click in the box of each string to be translated and make the appropriate changes. For dialogs and menus, the graphical user interface is shown below, and you can use the window handles to do any necessary resizing of dialogs.
- When translation is completed, click **File | Create Target Files....**
- Choose the appropriate target language in the drop-down box.

- Change the destination so that the new file is in the same location as the application's EXE file, and so that the file name conforms to the naming convention as already described. Click **OK**. The new language DLL will be compiled.

3.4 Testing the New Language DLL

The alternate language DLL is now ready to be tested. To test your DLL:

- Run the application.
- Select **View | Select Language**.
- In the "Select Language" dialog, choose the language of the DLL you just created.
- Click **OK** and the application will switch to the chosen language.

Note: Some applications do not allow for explicit changes to the default language from the **View** menu. In these cases, change the default locale by using the **Regional Settings** item in the Windows **Control Panel**. Upon changing this setting, it will be necessary to restart the GENESIS32 product whose language DLL you wish to test

4 Requirements for Language Translation

4.1 Introduction

Translating ICONICS HMI/SCADA and Control products to any language can be defined as having several efforts. These efforts can be done all at once or as needs require.

- **Bare Bones Translation**
GraphWorX32 Runtime Operation Only
- **Minimal Translation:**
Bare Bones +
Getting Started Document
- **Functional Translation**
Minimal Translation +
All Runtime Components defined in section 4.2.2
- **Recommended Translation**
Functional translation +
All Configuration Components defined in section 4.2.3
- **Total Translation**
Recommended Translation +
All Optional Products and Components defined in 4.2.4
Complete Installation translation +
All Documentation and All Software

For example, for German speaking countries, (Germany, Austria, Switzerland, Liechtenstein, Luxembourg) a translated version of GENESIS32 is required. To translate GENESIS32 into German, the resource DLLs will need to get the **DEU** identification.

Example: Create a **Gwx32_DEU.DLL** file using Visual Localize. The GraphWorX32 component represents the translated to German GraphWorX32 product. Other components that need translation are listed below.

4.2 Components to be Translated

The components, which need to be translated to any language, are broken into several categories as described in the following sections.

4.2.1 Getting Started Manual

The Getting started document provides the minimum documentation to install and operate the GENESIS32 product. Installation, Error messages and Minimum Computer requirements are described in the Getting Started Document and it is recommended that document be translated and localized.

4.2.2 ICONICS – GENESIS32 Runtime Components

TWXViewer	TrendWorX32 Viewer ActiveX
TWXSQLSvr	Trend SQL Logger Server
TWXReport	TrendWorX32 Reporting
TWXBgTrend	Persistent Trending
TWXoledb	TrendWorX32 OLEDB provider interface
TWXTray	TrendWorX32 System Tray & control panel
AWXView32	Alarm Summary Viewer ActiveX
AWXRep32	Alarm Report & Analysis ActiveX
AWXInd32	Alarm Indicator ActiveX
AWX32svr	Alarm OPC Alarm/Events Server
AWXLog32	Alarm SQL Logger
AlarmOle	Alarm OLE Express Subscription
AWXTray	AlarmWorX32 System Tray & control panel
GenLic32	GENESIS32 Licensing Server
GWXview32	Graphics Viewer ActiveX
GWXTray	Graphics System Tray
SwxEngine	ScriptWorX32 Runtime Engine
SWX2006	ScriptWorX2006 Runtime Engine
GenRegistrar	Registration Server / Event Server
GenRegPP	License Monitor
MonitorWorX	MonitorWorX
GenStatistics	GENESIS32 Runtime Statistics
Login	Login Client
Security	Security Configuration
Unified Data Manager	UDM Runtime Engine
Unified Data Browser	Unified Data Browser DLL
OLExpress	OLE Express Communication
LangSupSvr	Language Server
LanguageHelper	Language Helper
LanguageSelector	Language Selector
AppLog	Applications Event Logger Utility
GenTray	ICONICS System Tool Tray
CustomTray	Custom System Tool Tray
GASClient	Global Aliasing Client
GASEngine	Global Aliasing Engine
SNMP	SNMP Runtime Engine
VCRWorX32	VCRWorX32 Replay Server

4.2.3 ICONICS - GENESIS32 Configuration Components

GWX32	GraphWorX32 Container
VCRWorXConfig	VCRWorX Configurator
AWX32	AlarmWorX32 Container
AwX32ServerConfigurator	Alarm Server Configurator
AWXLogCfg	Alarm Logger Configurator
AWXMMX32Configurator	Multimedia Alarm Configurator
DBOPCServerConfigurator	Data Mining Configurator
DwxConfigurator	DataWorX32 Configurator
MonitorWorXViewer	MonitorWorXViewer
TWX32	TrendWorX32 Container
TWX32Cfg	Trend SQL Server Configurator
ScriptWorX32	ScriptWorX32 User Interface
ScriptWorX2006	ScriptWorX2006 User Interface
SWXTray	ScriptWorX32 System Tray & control panel
SWX2006Tray	ScriptWorX2006 System Tray & control panel
SNMP	SNMP Configurator
IcoExpressionEditor	Expression Editor
IcoKeyPad	GraphWorX32 Keyboard and Number Pad
SecureDesktop	ICONICS Security Systems Tray
SymbolLibrary	GraphWorX Symbol Library
GASEngineConfigurator	Global Aliasing Configurator
GenAgentTray	GenAgent System Tray
GenBrokerConf	GenBroker Configuration Communications Utility
GenBrokerTray	GenBroker System Tray
LangSupCfg	Language Configuration Utility for Unicode products (NT/2000) Only
WEBPublisher	Web Publishing Utility
WEBWizard	Web Publishing Wizard
UnifiedDataManager	Unified Data Manager

4.2.4 OTHER ICONICS PRODUCTS & ActiveX's

AWXMMX32	AlarmWorX32 Multimedia Utility
MMXCall_In	Multimedia Dialogic Call-In Agent
MMXCall_InTAPI	Multimedia TAPI Call-In Agent
MMXFax	Multimedia Fax Agent
MMXMail	Multimedia E-mail Agent (Outlook Express)
MMXmailExt	Multimedia E-mail Agent (Outlook)
MMXmailSMTP.exe	Multimedia E-mail Agent (SMTP)
MMXIPMarquee	Multimedia Hardware Marquee Agent
MMXMarquee	Multimedia Software Marquee Agent
MMXScyper	Multimedia Skype Enabled Agent
MMXPager	Multimedia Pager Agent
MMXPopup	Multimedia Popup Agent
MMXVideo	Multimedia Video Agent
MMXSound	Multimedia Sound&Tett-ti-Speech Agent
DBMining	Data Mining ActiveX
DBOPCManipulatorActiveX	Data Mining Database Manipulator ActiveX
DWX32	DataWorX32 Runtime
DataSPY	OPC Data Spy Test Client Utility
TagBrowser	Unified Data Browser EXE
ScrMgrBar	Screen Manager Command Bar
SecIndicator	Security Indicator ActiveX
TWXSQlTool	TrendWorX32 SQL Tool
GWXGauge	Graphics Gauge ActiveX
GWXNumeric	Graphics Numeric ActiveX
GWXSlider	Graphics Slider ActiveX
GWXSwitch	Graphics Switch ActiveX
GWXVessel	Graphics Vessel ActiveX
RecipeControl	RecipeControl ActiveX
TreeExplorer	TreeExplorer ActiveX

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 and new GENESIS64 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 225,000 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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