GENESIS64
Reduce Scripting by Using Commands

APPLICATION NOTE

September 2013

Description: Guide to replacing common scripts with commands.
OS Requirement: Vista x64/ Windows 7 x64/ Windows 8 x64/ Windows Server 2008 x64/ Windows Server 2008 R2 x64/ Windows Server 2012
General Requirement: Elementary knowledge of commanding, GENESIS64 or AnalytiX version 10.7 or higher.

Introduction

GENESIS64 version 10.7 introduced a concept called Commanding. The main purpose of Commanding is to provide users with a simple way to monitor their asset structures with minimum development effort. Commanding also provides a way to accomplish actions that were previously only possible with JScript .NET, which is not supported in the Silverlight or Mobile version of ICONICS applications. Moreover it is typically better to use native built-in features instead of custom scripts.

This application note will show you how to replace some commonly used scripts in GraphWorX64 with commands. Note that the scripts invoke actions that could be executed via standard interface of the controls but system integrators sometimes want to simplify the interface for the operators and hence use scripts. Commanding combined with aliasing provides a very powerful alternative.

A common use of scripts was to provide interaction between multiple displays, popup windows, embedded controls, etc. Scripting is no longer necessary for these tasks because each Commanding command can specify a target that can either be configured in advance or chosen by the user in runtime.

> **NOTE:** This document is not a walkthrough for commanding. For further information how it can be used and what has to be setup you should read help documentation or application notes on the topic, such as *GENESIS64 – Commanding Introduction*.

Why Use Commands?

Why would you want to replace your existing scripts with commands?

You can replace lines of code with a simple pick action and some parameters. It's easier for a GENESIS64 novice to understand what the button is designed to do. No scripting knowledge is required. This also makes commands are easier to maintain than scripts moving forward – less time is needed to understand a command pick action than to understand the goal of a script.

Also, commands are supported in more formats than scripting, such as Silverlight and AnyGlass. If you are interested in the possibility of adapting your displays for use on mobile devices or browsers other than Internet Explorer, commanding will need to take the place of any scripts.

Acknowledge Alarms

Create a button with a pick action and for the command select Acknowledge. You can specify what alarms should be acknowledged like in the AlarmWorX64 Viewer acknowledge dialog and you can also add comments.

Set or Clear a Filter

Create a button with a pick action and for the command select Set Filter. You can specify a name of an existing AlarmWorX64 or GridWorX64 filter. Another option is to define the filter in the FilterExpression property using various data sources and send it to the control directly.

Hide or Show a Column

Create a button with a pick action and for the command select Set Visibility. This command can also set visibility of pens or visuals so you first have to set the type to column. Then just specify the name or index of the column and whether to use the button to toggle the visibility or set one state - hide or show.

Add or Delete a TrendWorX64 pen

Create a button with a pick action and for the command select Create Pen. The command allows you to specify the pen name, point name, description and pen parameters. In order to delete a pen use the command called Delete Pen. You may define whether delete all pens, or just a specific eventually selected pen.

Set the Trend Period

Create a button with a pick action and for the command select Set Period. Specify a period that should be shown in TrendWorX64 Viewer.

Set the Time Range

Create a button with a pick action and for the command select Set Time Range. You can use the command to specify a time range for data shown in TrendWorX64 Viewer or AlarmWorX64 Viewer.

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