



BridgeWorX64 - Differences between Workflow and BridgeWorX64



APPLICATION NOTE

June 2017

Description: This application note will go over the differences in features and functionality between Workflow and BridgeWorX64.

Introduction

Workflow and BridgeWorX64 are both providers that allow the user to interact with data in their GENESIS64 software and perform different actions based on the input data.

Workflow

Workflow is a tool to allow easy manipulation of data in real time and it is designed to generate events that can be used by other products. When using this tool, this would be used for events that may need to be triggered all the time, such as if the system has 10 alarms in the past 30 minutes, then write to a specific OPC tag or generate a NT Event. For more information about Workflows and how to set these up, see the application note called *Workflow – Quick Start*.

BridgeWorX64

BridgeWorX64 is the 64-bit implementation of BridgeWorX, which allowed users to create diagrams that processed data from a variety of sources. Users were able to access data from OPC, SQL, Web Services, etc. Moving this to our 64-bit suite allow uses to take full access of our version 10 Platform services (OData, FDDWorX, GridWorX, etc.). BridgeWorX64 would be used for moving large amounts of data between different data types. These transactions can also be used on a per request basis (manually or using a trigger). To find out more information about BridgeWorX64, see the application note called *BridgeWorX64 – Quick Start*.

BridgeWorX64 compared to Workflow

The main difference between BridgeWorX64 and Workflow is that Workflow is designed for light transactions that will be running in real time whereas BridgeWorX64 will be moving large amounts of data.

General Feature Differences

This section is about the General Features that may be different between the two products. The table below shows a list of features whether they are included in BridgeWorX64 or in Workflow.

Feature	Description	Workflow	BridgeWorX64
Diagram Editor	Edit diagrams	Yes	Yes
Database Logging	Log transaction information to database	No	Yes
Runtime Database	Has a separate configuration database for runtime information	No	Yes
Start On Action	Execute a diagram when an action is generated (triggers)	No	Yes
Start On Command	Execute diagram using commanding	No	Yes
Continuous Scan	Diagram is continuously executed based on scan rate	Yes	No
Output as DA Tag	Output is DA point that can be consumed	Yes	No
Subscriptions	Alarms, History, Merging, etc. can subscribe to the events generated	Yes	No

Supported Blocks

This final section is about which blocks are supported in BridgeWorX64 and Workflow. The blocks are used to create the diagrams that BridgeWorX and Workflow use to move or access data.



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Feature	Description	Workflow	BridgeWorX64
CSV File Reader	Reads data from a CSV file	No	Yes
XML File Reader	Reads data from an XML file	No	Yes
Real Time Input	Reads data from a real time data source	Yes	Yes
Data Set Reader	Reads data from a dataset, such as GridWorX	Yes	Yes
Historical Alarms Input	Reads historical alarm data	Yes	Yes
Historical Input	Reads historical data	Yes	Yes
CSV File Output	Writes data to a CSV file	No	Yes
Real Time Output	Writes data to a real time data source	Yes	Yes
Dynamic Tag Writer	Writes value into a dynamic DA tag	No	Yes
Condition	Checks a Condition (IF THEN ELSE)	Yes	Yes
Send Email	Sends an email	No	Yes
Delay	Delays the transaction	Yes	Yes
File Transfer	Transfers a file from one location to another	No	Yes
NT Event Output	Writes a message to the Windows event log.	Yes	Yes
Generate Report	Starts a report	No	Yes
Custom Blocks	3 rd party blocks written by customers or integrators	No	Yes