

T M W S C A D A D A T A G a t e w a y

What's New Document

Version 2.54

Property of Triangle MicroWorks, Inc.

This Software and the associated Documentation contain proprietary information of Triangle MicroWorks, Inc. and may not be copied or distributed in any form without the written permission of Triangle MicroWorks, Inc.

Table of Contents

What's New Document	1
Property of Triangle MicroWorks, Inc.....	2
Preface	4
Revision History	4
Release Highlights	5
New Features	6
61850 Client	6
TASE.2/ICCP Server	6
Double Transmission.....	6
ODBC Client.....	7
Disable Save on Exit	7
Save Protocol Log to XML	7
New equations	7

Preface

This document provides information on the new features of the 2.54 release of the SCADA Data Gateway. The intent is to provide a high-level overview of the new features included with this release and not to provide release history information for bug fixes.

Revision History

The following changes have been made to this document.

Revision History	Description
February 2012	2.54 Release

Release Highlights

The following table provides a listing of new features in the SCADA Data Gateway for release 2.54. Bug fixes and other corrections to the product are not included in this document. Please refer to product release notes for information on bug fixes.

Feature
61850 Client
TASE.2/ICCP Server
ODBC Client
Double Transmission
Disable Save on Exit
Save Protocol Log to XML
New Equations for the SDG Equation Editor

New Features

This section provides a general overview of product features included for this release. New features for this product released after this build are not addressed in the document. Please note that all information is current at the time of writing and is subject to change.

61850 Client

The 61850 Client supports the following functionality:

- 3 types of data access
 - Report Control Blocks
 - Polled Data Sets
 - Polled Point Sets
- Commands – provides the ability to do writes to the server
- Map data to other protocol components (Protocol Translation)
- Support for GOOSE Control Blocks
- Configurable via auto discovery or SCL/ICD Files
- Creation of data sets on the server

TASE.2/ICCP Server

The TASE.2 Server supports the following functionality:

- Map points from master components
- Root mode (VCC) points
- Logical device points (user named)
- Support for Block Descriptions (Conformance Blocks)
 - 1 - Periodic System Data
 - 2 - Extended Data Set Condition Monitoring
- Support for data types (with T and Q)
 - Discrete
 - Real
 - State

Double Transmission

When a point is configured for double transmission, the SCADA Data Gateway will send two spontaneous messages for each event on that point: the first message is sent at a high priority without a time stamp, and the second with a lower priority with the configured time stamp.

Note that some data types (e.g., M_ME_NA) default to not use a time stamp. When using double transmission with these data types, you should change the configured time stamp mode to use a time stamp.

Also, note that normally points that are reported via spontaneous messages also report via GI (instead of cyclic). Thus, you may need to change the group mask for any points that are configured to report via double transmission.

ODBC Client

The ODBC Client provides the ability to store and retrieve data from any ODBC data source including: SQL Server, Access, Excel, and text files.

The following features are currently available:

- ✓ Automatic generation of MDOs related to fields and parameters in a SQL query
- ✓ SQL based query supported
- ✓ Support for SQL Server, Access, Excel, and text files (CSV, tab delimited, text)
- ✓ Supports read and write access to ODBC compliant databases through INSERT, UPDATE, DELETE and SELECT SQL Clauses
- ✓ Ability to single step or directly select a record in a record set
- ✓ Supports parameter substitution for flexible queries
- ✓ Test/Verification mode to help during query development

Note that some of the features listed above may not be available on all ODBC Client driver implementations.

Disable Save on Exit

Provides the ability to disable saving the configuration files on exit of the application due to manual shutdown or automatic shutdown by another application, i.e. an OPC Server.

Save Protocol Log to XML

Provides the ability to save the Protocol Analyzer data to an XML file, which can be loaded into the Triangle MicroWorks Protocol Test Harness for analysis and troubleshooting.

New equations

The following new equations were added to the SDGs Equation Editor:

Equation	Description
Concat	String result of concatenating all expressions in expression list. A Constant string can be specified in single quotes, (i.e. 'constant string')
Onchange	Allows the monitoring of an expression for changes. When the expression changes by the specified value, it becomes the new value of the expression When expr1 changes by more than expr2, expr1 is copied to the output of this equation. expr2 is the deadband for change detection For expr3: 0=copy value on positive change of expr1 1=copy value on negative change of expr1

	2=copy value on any change of expr1
Gettime	Returns the time of an expression MDO
pulseOnEvent	<p>When expr5 is true, Generates a pulse between expr1 and expr2 (inclusive) when expr3 is written to for expr4 milliseconds long</p> <p>expr6 is used to specify: 0=pulse on positive (0 to 1) transition of trigger 1=pulse on negative (1 to 0) transition of trigger 2=pulse on either transition of trigger 3=pulse on no transition of trigger</p>