

CommunicationManager :

Summit8800 Enron Compatibility Test

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1 CERTIFICATION PROGRAM OVERVIEW

The Software Certification Program begins with Software Quality Assurance (SQA) and is the concern of every software engineer at Automation Solutions (AutoSol) to not only reduce cost and improve product time-to-market, but to deliver products to the customer that meet or exceed expectations. SQA activities are performed on every software project by a process of peer review, designated SQA testers, and management approval.

2 INTRODUCTION

Conformance to software requirements is the foundation from which our software quality is measured. Specified standards are used to define the development criteria that are used to guide how the software is engineered. Software must conform to implicit requirements such as ease of use, maintainability, reliability, and so on, as well as its explicit requirements.

3 TEST ENVIRONMENT

AutoSol's software test environment provides the culture, processes, and tools that help ensure efficient and effective software testing. Each AutoSol client typically possesses a unique environment. AutoSol relies upon its users, both integrators and End Users to provide details and access to these environments to ensure adequate testing and verification of their unique Test Environment(s).

4 TEST ACCEPTANCE CRITERIA

A test is considered passed when all test cases for reading data, writing data, and storing data (both configuration and history) are successful. This includes actions during periods of good communication and periods of bad communication.

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**Summit 8800
Enron Modbus Compatibility Test**

Hourly Log

		Results
Index register		
	Zero when no records are available	Passed
	Correctly updated when new records are available	Passed
Hourly records		
	Correct record returned for index (repeatable timestamp)	Passed
	Time and date fields formatted correctly	Passed
	Data fields formatted correctly and in correct order	Passed
Hourly record error handling		
	Out-of-range index request	
	Sends clear record when configured	Passed
	Sends filled record when configured	Passed
	Sends exception when configured	Passed
	Unfilled record request	
	Sends clear record when configured	Passed
	Sends filled record when configured	Passed
	Sends exception when configured	Passed

Daily Log

Index register		
	Zero when no records are available	Passed
	Correctly updated when new records are available	Passed
Daily records		
	Correct record returned for index (repeatable timestamp)	Passed
	Time and date fields formatted correctly	Passed
	Data fields formatted correctly and in correct order	Passed

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Daily record error handling

Out-of-range index request

Sends clear record when configured Passed

Sends filled record when configured Passed

Sends exception when configured Passed

Unfilled record request

Sends clear record when configured Passed

Sends filled record when configured Passed

Sends exception when configured Passed

Event/Alarm Log

Index register

Non-zero when event records are available Passed

Event/Alarm records

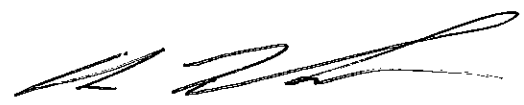
Record formatted correctly Passed

Record acknowledgement accepted Passed

Review and Approval

AutoSol hereby certifies that the above named compatibility test, passed all expectations for functionality, ease of use, maintainability, and reliability.

By: _____



Ken Brucker, Chief Operating Officer

Date: _____

8-7-13