AUTOSOL
Data in motion.

ACM

HIGH PERFORMANCE COMBINED WITH UNRIVALED FLEXIBILITY.

Our third generation communication management software offers a powerful array of features to securely and more easily poll, configure and transmit your data.

PRODUCT OVERVIEW

In today's environment, you depend on security, reliability and speed when it comes to effectively communicating with your SCADA, EFM or AMR system. You need to handle a wide range of devices, from those with the latest technologies to older equipment whose life could be extended. And you want a single, easy to use solution that's economical.

Autosol Communication Manager® (ACM) sets new industry standards for ease of configuration, flexibility and communication optimization through its robust diagnostic and system troubleshooting capability. Featuring a third-generation OPC Server, ACM communicates with different manufacturer SCADA and utility metering devices in their native protocols, over a single or multiple telemetry circuits.

Our software delivers the level of performance you need to obtain data that will meet the most strenuous requirements of any envisioned, highly stringent regulatory compliance. ACM can support a virtually unlimited number of protocols over a single communication channel. ACM delivers real-time data to SCADA host systems and historical meter data to EFM/AMR data validation and accounting systems using a single, configurable solution.

ACM's multi-protocol ability supports the integration of legacy devices with emerging metering technologies. This extends the useful life of the installed legacy meters while at the same time providing a path for systematic upgrades. ACM allows for immediate and effective implementation of the complete system, resulting in a significant ROI.

The base price of ACM includes all device protocols, telemetry methods, reports and functions that are supported at the time of purchase and is expandable from one device up to thousands of devices in a single installation. This scalability provides customers with the flexibility to expand their systems on an as-needed basis further maximizing ROI.

Compatibility

OPC HMI/SCADA HOSTS

ACM can interface with most OPC SCADA hosts available today. Listed below is an example of existing interfaces to AUTOSOL software:

- ABB SCADAvantage
- Emerson Delta V
- GE Complicity, iFix
- Honeywell Experion
- Iconics Genesis
- Inductive Automation Ignition
- Rockwell FactoryTalk
- Schneider Electric SCADA Expert ClearSCADA, Vijeo Citect, Telvent, Wonderware
- Siemens WinCC
- Yokogawa Fast Tools

TELEMETRY METHODS

- CDPD
- CDMA
- Conventional Radio
- Dial-Up
- Ethernet TCP/IP, UDP/IP
- GPRS
- Internet IP
- Leased-Line
- PSTN
- Terminal Server TCP/IP, UDP/IP
- TCP Listen
- TCP Pooling
- Trunking Radio
- Satellite
- Serial Cable
- Serial Multi-Drop
- Spread Spectrum Radio
- VSAT

CRYPTOMOD SECURITY APPLIANCE

Security and diagnostic protocols:

- Modbus
- SNMP
- SSL

EFM VALIDATION SOFTWARE

- Flow-Cal CFX
- Flow-Cal CFX 7 (Gas & Liquids)
- Flow-Cal CFX 8 (Gas & Liquids)
- Flow-Cal Transaction Queue
- Quorum PGAS-XML (Gas & Liquids)

NATIVE PROTOCOLS

- ABB Totalflow
- Allen Bradley ControlLogix
- Allen Bradley DF1
- Barton Scancom
- Benchmark
- DEC Asynchronous
- DNP3
- Eagle Research
- Emerson Bristol Babcock BSAP
- Emerson (Fisher) FloBoss
- Emerson (Fisher) ROC
- FBNet
- GE SRTP
- Honeywell Mercury Instruments
- Kimray
- Omni Flow
- Siemens CAMP
- Teledyne TGP Module

MODBUS PROTOCOLS

ACM functionality can be expanded by developing additional interfaces with any Modbus device. Specific protocols currently provided with the ACM software are:

- Daniels
- DynaPump
- Enron
- Emerson Bristol
- Emerson (Fisher) FloBoss, ROC
- ETNG
- FB3000
- Flow Automation
- KM Load
- Lufkin Automation
- Lufkin SAM
- Modbus/TCP
- Motorola MOSCAD
- PCS Plunger Lift
- Prosoft
- Schneider Electric SCADAPack

BACK-END DATA INTERFACE

- Microsoft Access
- Microsoft SQL Server
- Oracle
- SQL Databases via ADO
- XML Data Stream

SERVER CONFIGURATION DATABASE

- Microsoft SQL Server

Key Features

- Supports multiple protocols over a single telemetry channel or circuit
- Supports multiple telemetry circuits through any or all connection types simultaneously
- Supports SCADA control and EFM/AMR systems simultaneously in a single installation
- Supports retrieval of archived data in EFM/AMR devices and delivery to databases or to data validation and accounting systems
- Includes protocol modules developed to support legacy SCADA and AMR systems used during the extended transition to new SCADA host systems or Data Warehouse Systems
- Supports the ability to modify the configuration while the product is "on-line" without server restart
- Supports multiple local and remote users for a true client/server relationship
- Provides data and communication status detail as users issue commands such as "Demand Scan" within the configuration program without an OPC Client
- Allows users to assign polling priorities to items or tasks
- Provides an audit trail for configuration changes
- Includes the ACM logger program as a diagnostic tool to be used by local or remote support personnel
- Supports redundancy at several levels, including redundant communication paths, redundant configurations, and load sharing, all of which allow automatic switch-over upon detection of a failure
- Supports historical data retrieval and storage in CSV format, databases, and flow editing/auditing files. Additional custom formats can be developed by AUTOSOL or end users as well
- Provides the ability to run SQL-queried reports in the Report Server

System Requirements

ACM supports the following operating systems in both 32 and 64-bit: Microsoft Windows: Vista, 7, 8, 8.1, and 10.
Microsoft Windows Server: 2003, 2003 R2, 2008, 2008 R2, 2012, 2012 R2, and 2016.
.NET Framework 3.5 and 4.0 is required.

ACM requires a Microsoft SQL Server (or Microsoft Access database) for storing its configuration.
Microsoft SQL Server: 2008R2, 2012, 2014, 2016, and 2017 (using Native Client 11).
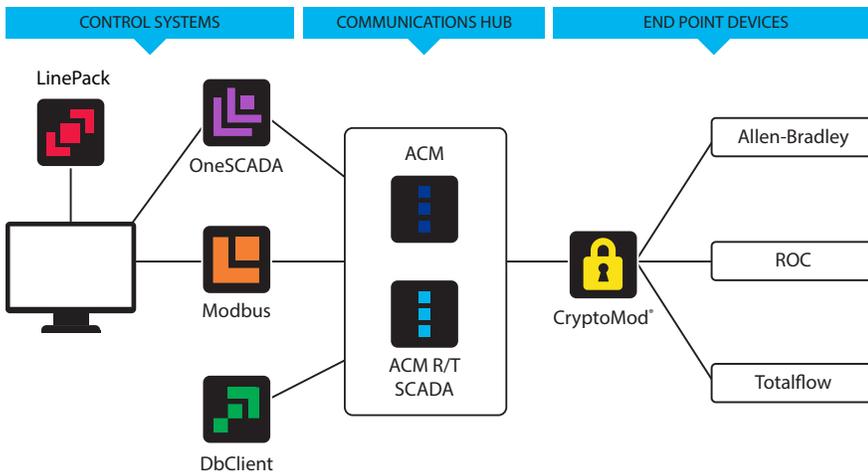Express, Standard, and Enterprise editions are supported, including Microsoft Azure.

Specifications are subject to change without notice.

Custom Software Development

AUTOSOL's software engineers and developers are continually enhancing the flexibility and scalability of our products. In addition to our internal product development efforts, AUTOSOL offers custom software development services to provide support for our clients' needs.

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PRODUCT SUITE IN SYNC

CONTROL SYSTEMS	COMMUNICATIONS HUB	END POINT DEVICES

LinePack

OneSCADA

Modbus

DbClient

ACM

ACM R/T SCADA

CryptoMod®

Allen-Bradley

ROC

Totalflow

AUTOMATION SOLUTIONS

ACM
Full Featured ACM SCADA

ACM R/T SCADA
Advanced Polling Engine

CryptoMod®
The Key to Automation Security

DbClient
Database to OPC Server

LinePack
Automated Energy Calculations

Modbus Slave
Interface & Protocol Translator

OneSCADA
SCADA Unification Solution

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