

The Standards Based Integration Company 6605 19½ Mile Road, Sterling Heights, MI 48314-1408 USA Tel: +586-254-0020, Fax: +586-254-0053

E-Mail: info@sisconet.com, URL: http://www.sisconet.com

AX-54 MMS: Access For...MMS

Description

AX-S4 MMS (pronounced "access for MMS") is an easy to use client that enables access to real-time data in any IEC61850 (UCA® 2.0) compatible device for any Windows™ compatible application supporting either the OLE for Process Control (OPC™) or Dynamic Data Exchange (DDE) interfaces. AX-S4 MMS gives you a high-level interface to real-time data that lowers your integration cost by providing you everything you need in a single easy-to-use package. You can even copy and paste hot-links to your data from the MMS Object Explorer directly into your MS-Office® applications without any programming.

AX-S4 MMS provides "plug-in" access to Ethernet based devices supporting the IEC61850, UCA2.0, or MMS protocols for any OPC client enabled application, including many popular off-the-shelf Windows based SCADA and HMI products.



Key Features

- □ OPC Server interface supports local and remote OPC client applications including most Windows based SCADA, HMI, historian, and Visual C++® applications.
- ☐ COM Automation server provided for supporting Visual Basic® applications.
- ☐ Runs over standard Ethernet adapters supporting ISO/OSI and TCP/IP transport protocols including support for:
 - IEC61850 parts 7-2, 7-3, 7-4, and 8-1 including the Abstract Communication Service Interface (ACSI).
 - UCA2.0 per IEEE TR1550 including GOMSFE and CASM.
 - Manufacturing Message Specification (MMS) devices per ISO9506.
- □ OPC server interface included for IEC61850 Generic Substation Status Event (GSSE) and Generic Object Oriented Substation Event (GOOSE) messaging.

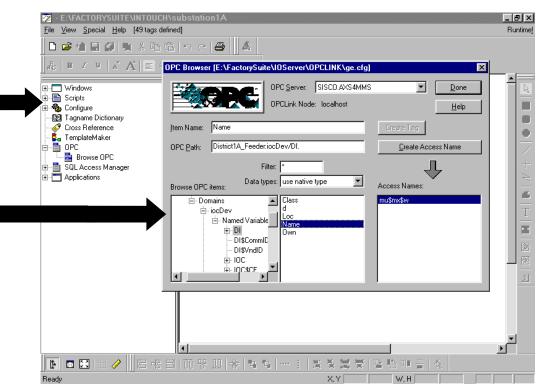
- □ Support for unsolicited reporting for both IEC61850, UCA2.0 and generic MMS devices via OPC.
- □ Supports MMS Variable services via OPC and DDE. MMS Journal, Domain, Program Invocation and File services are supported via DDE interface.
- Provides an interactive MMS Object Explorer for point & click access to network objects.
- Manual configuration of point definitions not needed for most devices. Data point definitions can be extracted directly from the devices simplifying setup and greatly reducing point configuration errors.
- ☐ Easy-to-use configuration utility allows for common network addressing setup of SISCO MMS nodes.
- ☐ No predetermined limits on the number of data points and up to 1000 devices can be accessed.
- ☐ Compatible with many different devices from many vendors including RTUs, relays, meters, and CNCs.

AX-34 MMS: OPC Server

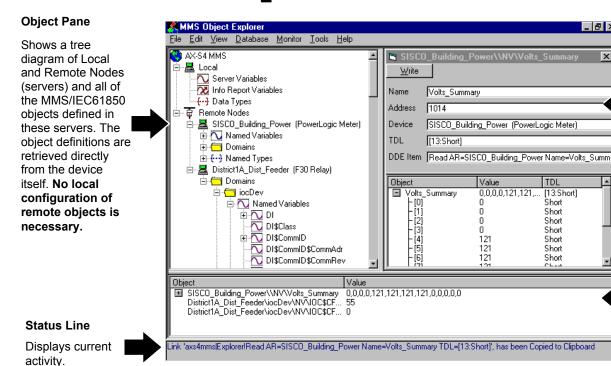
The AX-S4 MMS **OPC** Server works directly with commercially available offthe-shelf applications such as InTouch® (pictured here), Cimplicity®, Fix® or any other OPC enabled client application.

The OPC Browser allows you to select devices and objects to easily configure your application to read and write the selected data.

For developers, AX-S4 MMS with OPC brings real-time MMS/IEC61850 data programs based upon Microsoft's Distributed Component Object Model (DCOM) interface technology.



AX-34 MMS Object Explorer



Detail Pane

Displays and allows you to change the value of a selected MMS or IEC61850 object. Clicking on an object in the Object Pane will show the details of it here.

Monitor Pane

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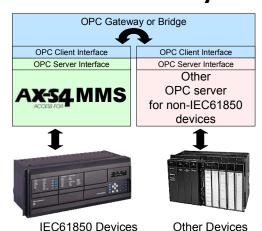
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Monitors the values of specific objects. To monitor an object, drag it here from the Object Pane.

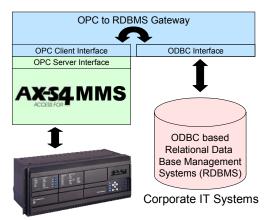
AX-54 MMS with OPC = Application Flexibility

Protocol Gateways



Protocol gateways that enable data sharing between devices that support incompatible protocols are easily implemented using off-the-shelf OPC-based products. OPC gateways and bridges are available from several 3rd parties that, when used with AX-S4 MMS, enable IEC61850 devices to share data with virtually any system or legacy device that uses a protocol for which an OPC server product exists. Literally hundreds of different protocols are supported. Contact SISCO for more details.

Interface to Databases

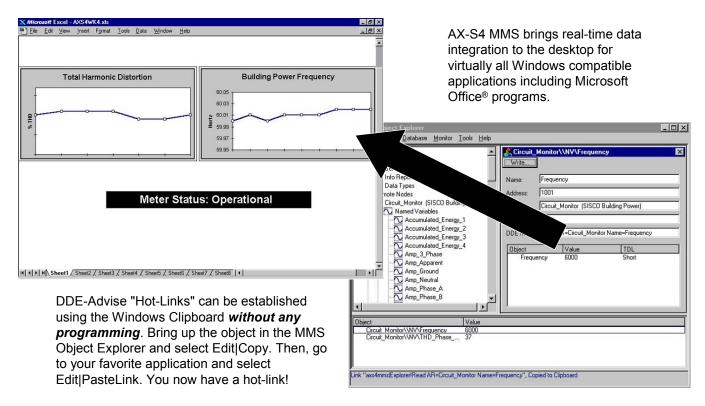


IEC61850 Devices

Interfacing data from IEC61850 devices is fast and easy using the AX-S4 MMS OPC interface. Custom interfaces to many different systems can be built **without any programming** using off-the-shelf products. The example above illustrates how data can be extracted from an IEC61850 device and stored in a RDBMS for access throughout your company's corporate IT infrastructure. OPC is available for many different products including historians, enterprise data servers and web portals.

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AX-34 MMS Object Explorer (Clipboard Function)



AX-54 MMS Technical Information

Other Features

- All configuration and remote point definitions are stored in a Microsoft Access data base (ODBC compatible) for maximum flexibility.
- Reporting tool provided for listing device and object definitions. Use of ODBC allows for even more flexible reporting capability using third-party tools.
- Allows customization of the language and terminology used in the MMS Object Explorer.
- MMS Object Explorer allows for storage and retrieval of predetermined monitor sets.
- File transfer utility is included and is accessible via MMS Object Explorer menus.
- Can be used with 3rd party test scripting tools to build a flexible test environment for IEC61850 devices.
- Extensive logging capabilities for troubleshooting.
- · Can be run as a Windows service.

System Specifications:

Operating System: Windows 98/NT4/2000/XP
Network Interface: IEEE 802.3 Ethernet Adapter

(e.g. 3Com, etc.)

Network Protocols: TCP/IP or ISO/OSI

(SISCO ISO/OSI Stack Included)

Recommended Mem: ≥256MB RAM, 100MB Disk

Part Numbers:

Development License: AXS4MMS-132-095-DEV Run-Time Package: AXS4MMS-132-095-PAK

AX-S4 MMS Development License Includes:

- AX-S4 MMS Software with SISCO ISO/OSI Stack
- Printed and Electronic Documentation
- Sample programs
- Hardware Lock (dongle)
- One year support and maintenance

AX-S4 MMS Run-Time Package Includes:

• All the above except: 30 days installation support only

Other SISCO Products:

- AX-S4 ICCP: OPC server for the Intercontrol Center Communications Protocol (ICCP) per IEC60870-6 TASE.2.
- MMS-EASE Lite: IEC61850 and ICCP-TASE.2 source code for embedded systems.
- COMTRADE Utility for PI: Historization of COMTRADE data for the OSIsoft™ PI historian.
- Utility Integration Bus: Model driven application integration for utilities using IEC61970/61968 and EPRI CIM.

NOTES: 1) Specifications presented herein are thought to be accurate at the time of publication but are subject to change without notice. 2) All company names, product names, trademarks and registered trademarks are trademarks of their respective companies. 3) AX-S4 MMS is available through SISCO directly and OEMs and distributors worldwide. Contact SISCO for the location of your representative.

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Represented By:

Systems Integration Specialists Company, Inc. 6605 19½ Mile Road, Sterling Hts, MI 48314 USA Tel: +586-254-0020, Fax: +586-254-0053 E-Mail: info@sisconet.com, URL: http://www.sisconet.com