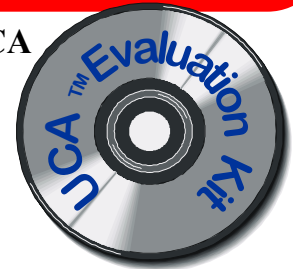


IEC 61850/UCA[®] and MMS Evaluation Kit

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NettedAutomation offers a CD ROM containing a **IEC 61850 /UCA and MMS Evaluation Kit** as well as **UCA: the EPRI Version 1 and the IEEE Version 2 (Nov 99)¹** for the **fastest start to learn about IEC 61850/UCA technology.**



NettedAutomation's mission is to bring people, systems and devices together.

The content of the CD-ROM will make it easier for you to get started with the application of IEC 61850/UCA and MMS². It serves to understand this open approach and solutions, as well as it does assist people to exploit IEC 61850/UCA and MMS compliant products in various application domains. The real benefit of 61850/UCA will be demonstrated.

IEC 61850/UCA and MMS Evaluation Kit CD ROM

- Servers** **IEC 61850/UCA and MMS servers** to run under Windows NT/95/98/2000/XP (TCP/IP winsock interface) or on LINUX (TCP/IP socket interface). These servers provides several (small and complex) IEC 61850/UCA GOMSFE (resp. IEC 61850 based) device models and Logical Nodes, reporting, reading, writing, etc according to UCA/CASM (resp. IEC 61850/ACSI). This code can run immediately. The server is a fully functional and licensed copy of an executable code based on **Tamarack's** UCA/MMSd software package. The server data are simulated by an integrated simulation program. The behavior of the simulation program can be modified using an ini file. Additional servers with many other combinations of models, Logical Nodes, Data Objects can be provided on request. This allows to test client applications without connecting to the real IED; IEDs are emulated by a server running on, e.g., a standard PC under Windows or LINUX system in your office. An **additional server** of a wind power plant is included.
- Client 1** **IEC 61850/UCA and MMS client** to run under Windows. This client provides a DDE or OPC interface for Windows NT/95/98/200/XP applications to any UCA compliant server. This client initiates, receives, and displays reports, reads, and writes of data objects and logs/journals. The client is a fully functional demonstration copy of **SISCO's** AX-S4 MMS product (including the MMS Object Explorer). This demo version runs for one hour before it automatically stops at which time it can be re-started. AX-S4 MMS provides Microsoft DDE client/server and OPC server functions.
- Client 2** **IEC 61850/UCA and MMS ActiveX Control** to run under Windows. This client provides a state-of-the-art, multithreaded COM automation interface to any compliant Server or Device. Key features include automatic connection management, XML data representation, and both synchronous and asynchronous operation. For asynchronous (unsolicited) operation, simple ActiveX events trigger in your script or code. **LiveData™** ActiveX Control is fully functional and is licensed for 30 days.

¹ The IEEE Standards Association published the UCA™ Version 2 in Technical Report TR1550

¹ The IEEE Standards Association published the UCA™ Version 2 in Technical Report TR1550. "UCA" is a Trademark of EPRI.

² UCA™, IEC 61850, and IEC 60870-6-TASE.2 map to MMS (ISO/IEC 9506). The software delivered with the Evaluation Kit implements MMS, thus making MMS available for any – utility and non-utility – application.

Analyzer	IEC 61850/UCA and MMS Analyzer to run under Windows. This Analyzer provides a fully functional network analyzing software for all layers including GOMSFE/IEC 61850-7-4. The Analyzer is a fully functional copy of KEMA Connect's UniCA IEC 61850 Analyzer (the number of messages that can be analyzed is restricted).
Documentation and Specification	Software installation and user guides for all four software packages. User guide on how to build and run a UCA™ network composed of servers, clients, and the analyzer. IEEE TR 1550 (UCA™ Specification Version 2, PDF format) and the EPRI UCA Version 1 (HTML Format).
Tutorial	A comprehensive HTML based tutorial on IEC 61850/UCA, MMS, and ICCP – provided by SCC (Schwarz Consulting Company).

Price for the CD ROM: € 100.-³

Finally, for any IEC 61850/UCA and MMS compliant software licenses to be applied for your future products – e.g. source code or binary libraries – contact us or the following firms directly please:

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³ Including taxes

We hope NettedAutomation can give you support you need to get started with IEC 61850/UCA and MMS.

If you have any questions, let us know please.



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Glossary:

ACSI	Abstract Communication Service Interface (IEC 61850-7-2); equivalent to UCA CASM
CASM	UCA™ Common Application Service Model (Get, Set, Reporting, Logging, Control, ...)
DDE	Dynamic Data Exchange, Microsoft's protocol to communicate between Windows applications
DIMM	Dual In-line Memory Module
DIMM PC	Sub-credit card size PC that uses the DIMM plug interface
EPRI	Electric Power Research Institute
GOMSFE	UCA™ Generic Object Model for Substation Feeder Equipment; Models and meta data on some 100 substation device models (switch, breaker, transformer, RTU, ...).
HTML	Hyper Text Markup Language
ICCP	Inter-Control Center Communications Protocol (IEC 60870-6 TASE.2)
IEC	International Electrotechnical Commission
IED	Intelligent Electronic Device
IEEE	The Institute of Electrical and Electronics Engineers
MMS	Manufacturing Message Specification (ISO/IEC 9506)
OPC	OLE for Process Control
TASE.2	Telecontrol Application Service Element Two
UCA™	Utility Communication Architecture (IEEE TR 1550)



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