ISA03-S048

PLCopen adds independent

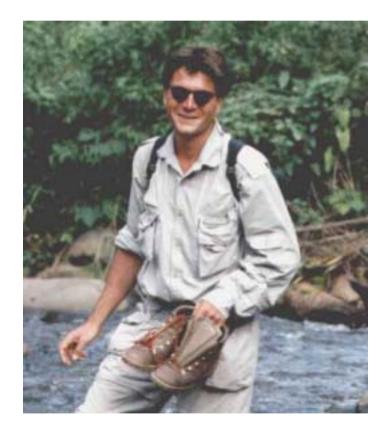
XML Schemes to IEC 61131-3

Eelco van der Wal Managing Director PLCopen

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Who am I ?

- Eelco van der Wal world citizen
- Out of the Netherlands
- 17 years in control
- 7 years with PLCopen



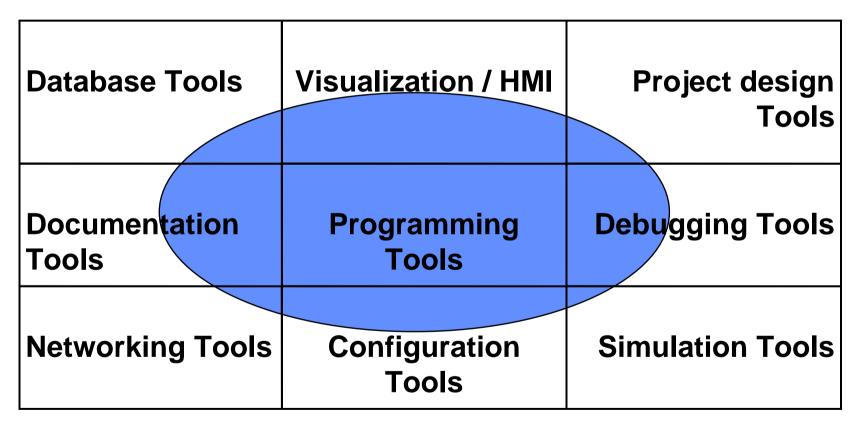
What is PLCopen ?

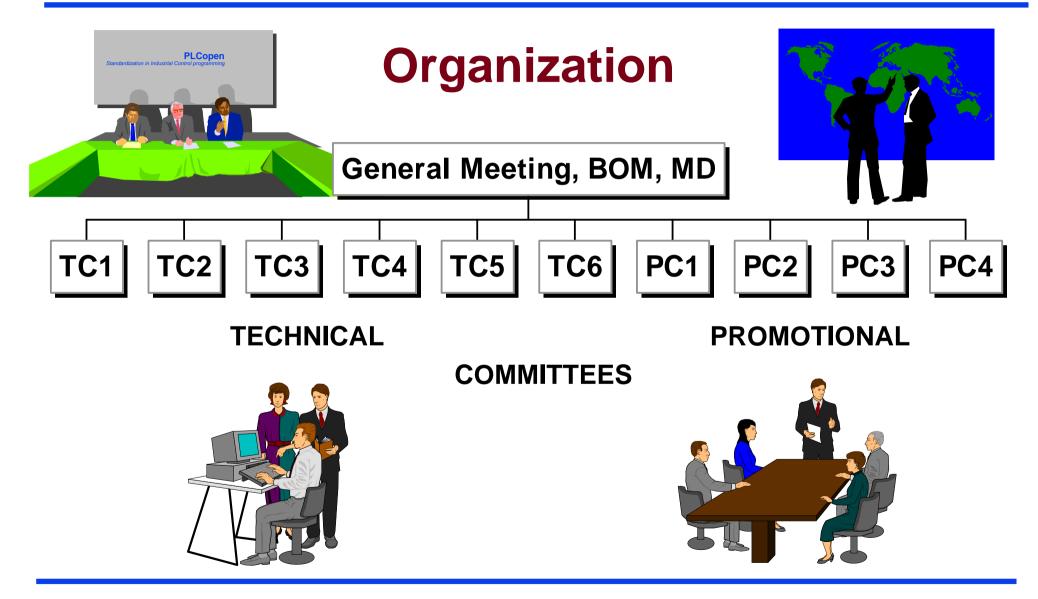
The Association PLCopen

Harmonizing the way people look to control

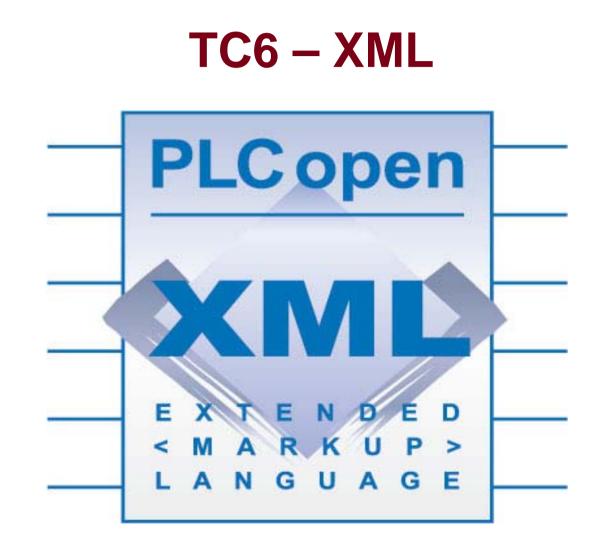
providing you support for multiple platforms..

Programming in its environment



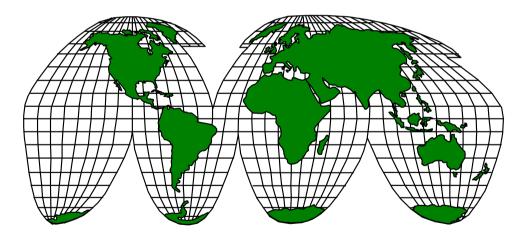


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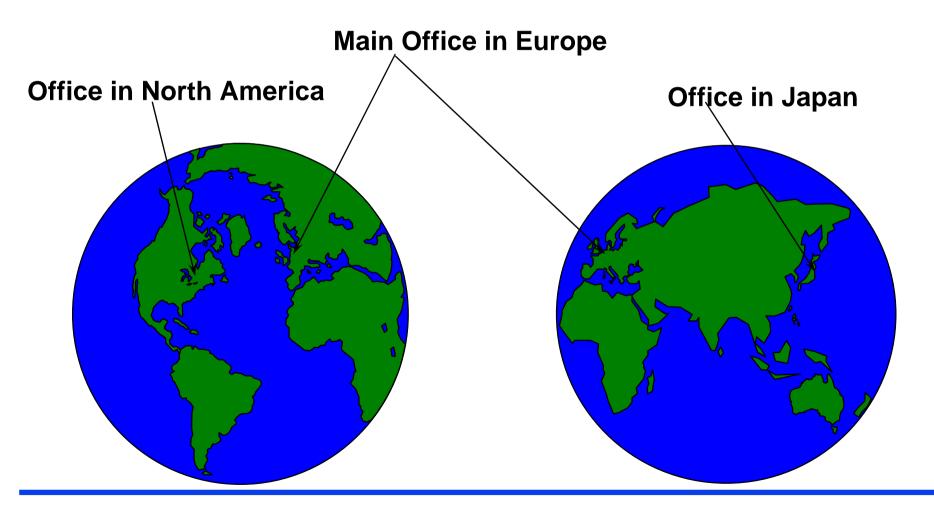


PLCopen as a World-wide association

- > 100 members (May 2003)
- from 21 countries all over the world
- Suppliers, institutes and users
- See newsletter / website for up-to-date list



PLCopen as a World-wide association



PLCopen adds independent

XML Schemes to IEC 61131-3

Short introduction into XML

- XML = eXtended Markup Language
- Provides the basis for HTML (Hyper Text Markup Language)

More info: <u>www.xml.org</u>

Advantages XML

- **1. Extendable**
- 2. The data included can be checked for consistency with the scheme provided
- 3. Different schemes provide a possibility to check the incompatibilities

Features of XML

- By separating structure and content from presentation, the same XML source document can be written once, then displayed in a variety of ways:
- on a computer monitor
- within a cellular-phone display
- translated into voice on a device for the blind
- and so forth.

TC6 - XML

Opening up the development environments

by specifying XML formats for IEC 61131-3

TC6 – XML : status

- Kick off June 26, 2002, Schneider Electric, Seligenstadt
- First publication planned for Dec. 03
- Release as Version 0.99 for comments
- Final release (Version 1.0) in 2004
- Available on <u>www.plcopen.org</u>

TC6 – XML : Participating Companies

• Suppliers:

ABB, Beckhoff, B&R Automation, Bosch Rexroth, Invensys, Keba, Matsushita, Rockwell Automation, Schneider Electric, Siemens

Independent Software Suppliers:

3S, infoteam Software, Kirchnersoft, KW Software, Softing

Users:

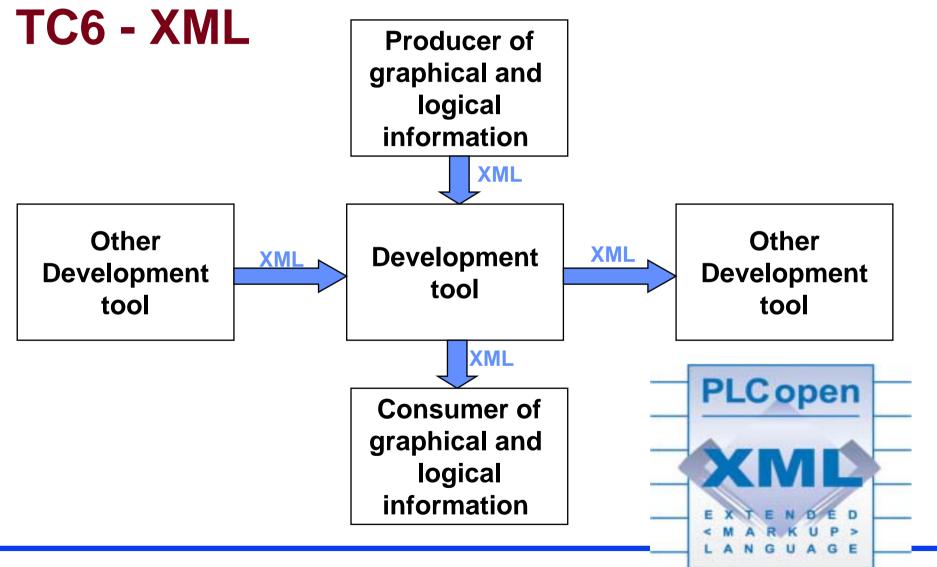
SMS Demag

Institutes:

Ifak, IST

TC6 – XML : "use cases"

- Exchange format between all five languages
- Producers of graphical and logical information
- Consumer of graphical and logical information
- Documentation generator; document management; source code database, version control
- Distribution format for function block libraries
- Format for internal storage of projects and related files



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In principle all.....

Textual Programming Languages – IL and ST

Graphical Programming Languages – LD, FBD

Structural Language – SFC

…continued…..

Graphical Information, like ...

- Place and position
- Routing of connections
- Comments



Program Organization Units – (User Derived) Functions and

Function Blocks, Programms

• (User Derived) Datatypes

Project information (layered structure)

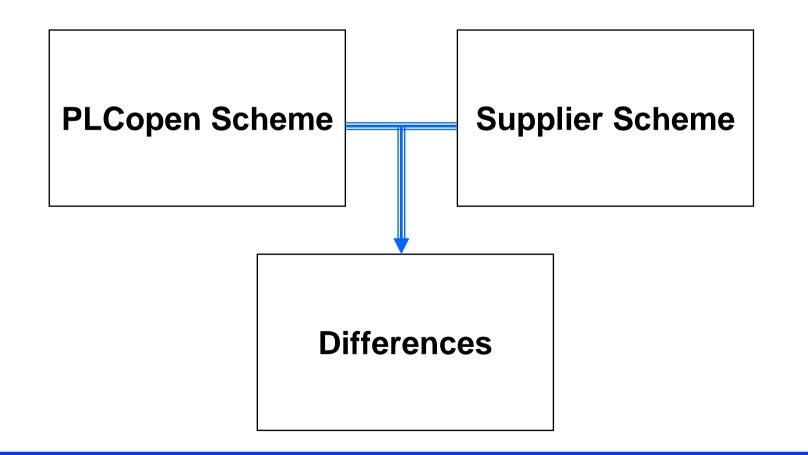
Mapping information

The exported file contains 'everything'

Including supplier specific information

The intelligence is in the parsing function during input

Coupling XML Schemes



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Current Status - document



Microsoft Word Document

TC6 – XML : status

First 'release for comments' planned for December 2003

Available on public website <u>www.plcopen.org</u>

Comments will be merged into final version for publication

Will also be available on www.plcopen.org

The association PLCopen

Together we can make it happen:

Standardization in Industrial Control Programming

WE NEED YOUR SUPPORT FOR THIS ! Join the organization PLCopen

More Information...

www.plcopen.org

Free-of-Charge electronic Newsletter 'PLCopening' (in english)

email: evdwal@plcopen.org

Thanks !

Questions ?!

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End of this presentation