

Getting Started with OPC UA

End User Products and Developer Tools

Jouni Aro Prosys OPC

Getting Started with OPC UA

- #1 Free Test Applications
- #2 End User Products
 - Profiles
 - Certification
 - Product Catalog
- #3 Developer Tools
 - Stacks
 - SDKs



#1 Free Test Applications

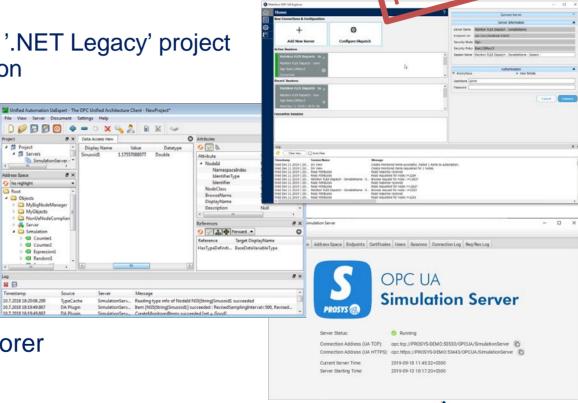
OPC Foundation

Samples included in the '.NET Legacy' project

Github.com/opcfoundation

Unified Automation

- UaExpert
- Demo Servers
- unified-automation.com
- Prosys OPC
 - UA Browser
 - UA Simulation Server
 - prosysopc.com
- Matrikon
 - Matrikon OPC UA Explorer
 - matrikon.com



#2 End User Products

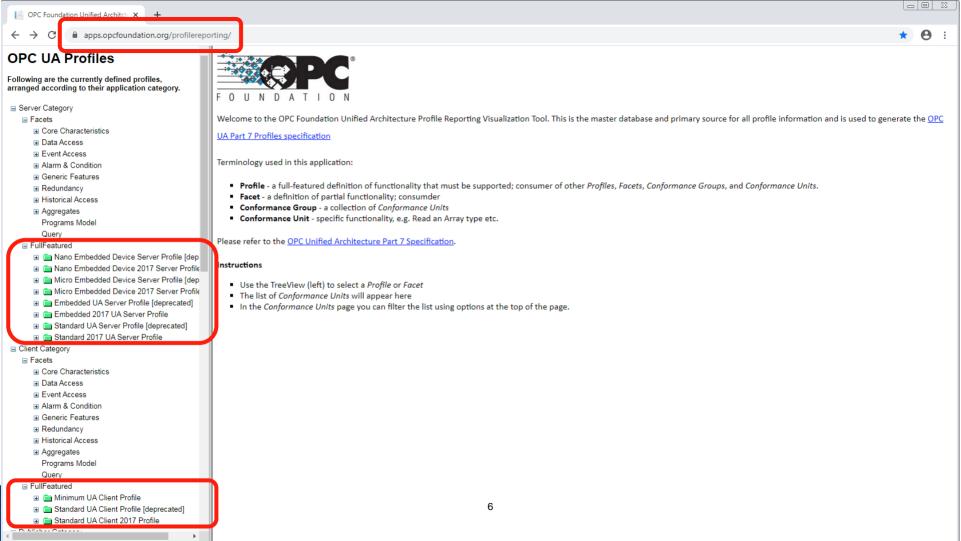
- Select an Off-the-Shelf OPC UA Product for Your Needs
 - Standalone or Embedded?
 - Client or Server?
 - Supported OPC UA Profiles?
 - Certified?



OPC UA Profiles

- Subsets of Functionality
- Target for Certification





Product Certification

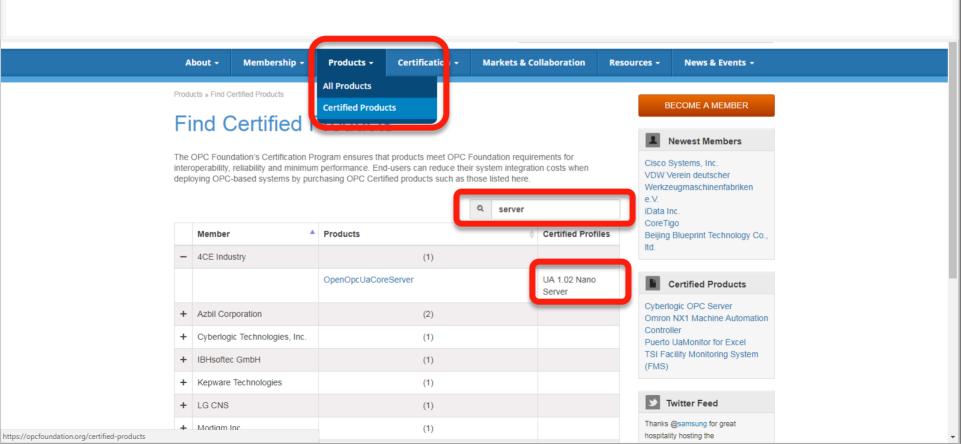
End-User Focused

- Value Proposition
 - Proven reliability and interoperability
 - Faster configuration and start-up with fewer support calls
 - Minimal integration risks
- Target: Plug-and-play

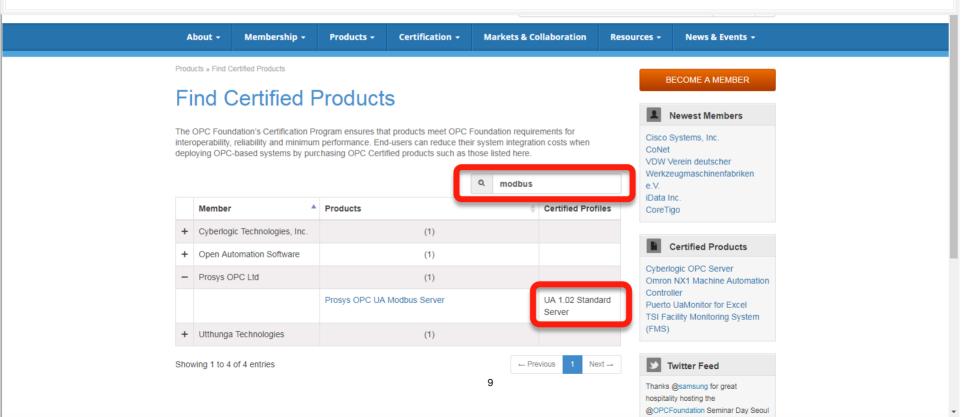




Product Catalog

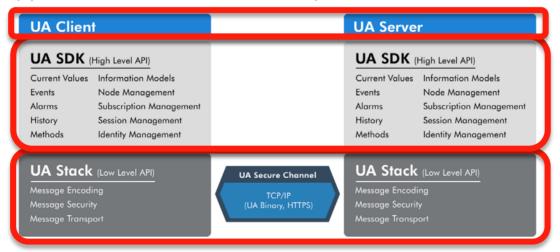


Product Catalog



#3 Developer Tools

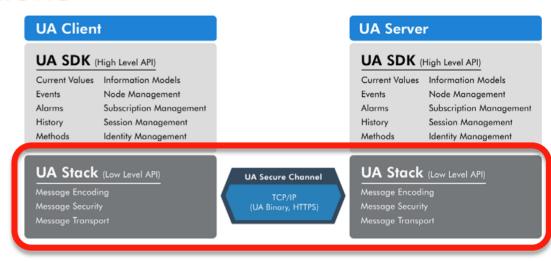
- OPC UA Programming Model
 - Stacks provide interoperable OPC UA communication
 - Software Development Kits (SDKs) provide standard implementation of OPC UA functionality
 - Your application code comes on top





OPC Foundation Stacks

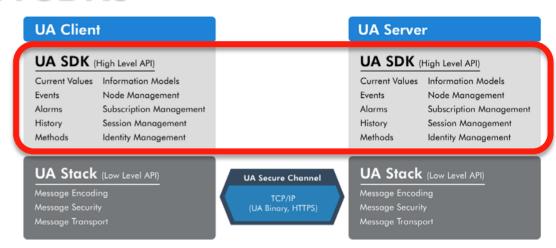
- github.com/opcfoundation
 - .NET Standard
 - .NET Legacy
 - Java Legacy
 - AnsiC Legacy
- Dual License:
 - GPL (GNU Public License) v2: non-commercial use
 - RCL (Reciprocal Community License): commercial use
 - OPC Foundation members
 - SDK customers



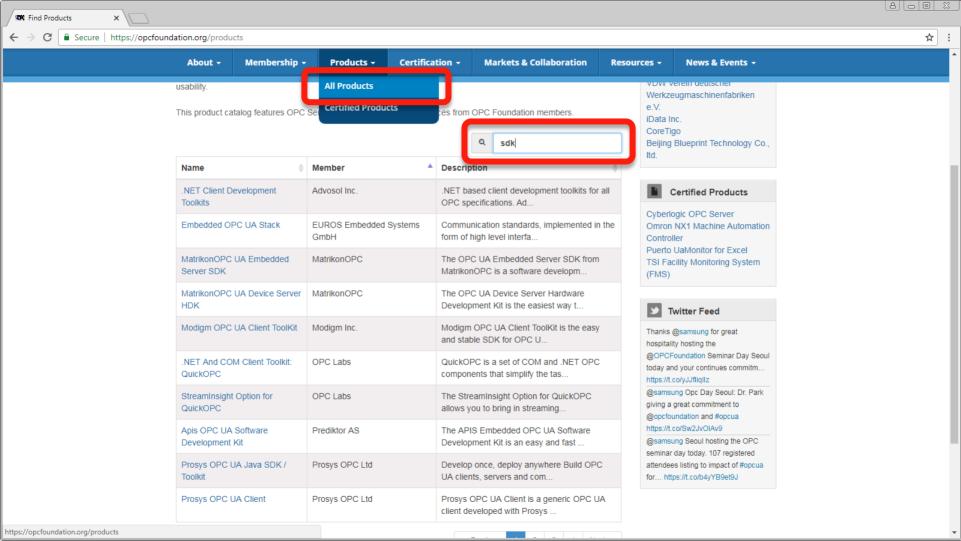


Commercial OPC UA SDKs

- Java
 - Prosys OPC
- ▶ .NET
 - Unified Automation
 - Softing
 - OPC Labs (Client)
- ▶ C/C++
 - Unified Automation
 - Softing
 - Matrikon OPC (Server)



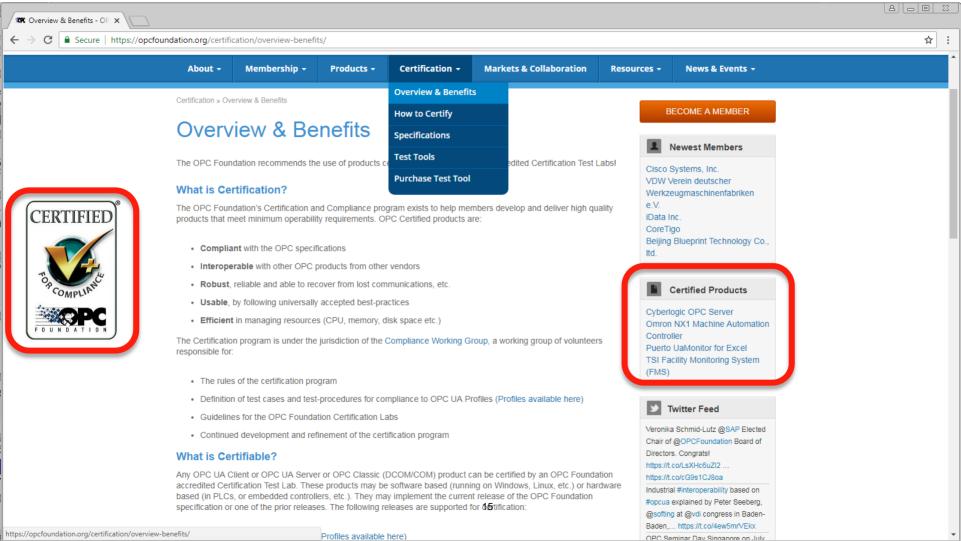




Commercial SDK Benefits

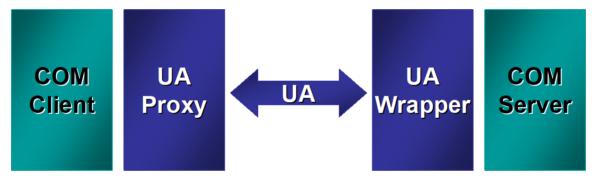
- Professional quality for industrial use
- Documentation
- Support for the full OPC UA feature set
- Constantly improved and updated
- Product maintenance and support
- Product warranty and liability
- Certified solutions
- Faster time to market
- Long-term solution





One more thing: OPC UA with OPC Classic

 UA Proxy & Wrapper components enable communications between UA and DCOM versions of OPC applications



- Where to get?
 - OPC Foundation '.NET Legacy' project (free sample)
 - Commercial products available (recommended)



Thanks!





Jouni AroChief Technology Officer

jouni.aro@prosysopc.com

