



















## History: Technology evolved...

Problem	Solution
How to let OPC solve more problems	"OPC" re-branded: Data Access
More capabilities needed in Data Access	<b>OPC Data Access</b> 1.0, 2.05a, 3.0
Need to store real-time values	OPC Historical Data Access
Need to standardize Alarm Notifications	OPC Alarms & Conditions
Need to standardize data acquisition via internet	OPC XML-DA
Need to allow PLC-to-PLC communications	OPC Data eXchange
Need to secure access to servers/tags	OPC Security
Need to standardize batch-process operations	OPC Batch
Need to standardize a simple PLC program	OPC Program















C	OPC UA Products Embedded							
	PLC & DCS	PLC & DCS integrated OPC UA servers available						
	IEC 61131-3 vendors	Integration into runtime IEC 61131-3 runtime systems	: <b></b> - <b></b>					
	Embedded HMI	Windows CE based HMI vendors implementing OPC UA clients	0-1 <b>1</b>					
	OPC Unified Architecture on a chip!	Opportunities to expand into other domains, such as security and building automation						
	Communication Gateway	<ul> <li>Wireless sensor gateways with OPC UA server</li> <li>Field bus gateways with OPC UA server</li> </ul>						
	Building Automation	Partnership with BACnet to expose BACnet objects (data and all the meta data !)						
		OPC and MES Day 2013						















ISA-95 OPC UA Companion Specification									
<ul> <li>Supports all Resources Models</li> <li>Includes OPC UA concepts of Subtypes</li> <li>Includes DataTypes for better tracking</li> </ul>									
Modeling Target	Object Models								
Production Activity	Capacity Definition	Production Definition	Production Schedule	Production Performance					
Logical View of Resources	Process Segment								
Resources	Role Base Equipment	Physical Asset	Personnel	Material					
Common Object Model									
OPC and MES Day 2013 27 F 0 U									









## **OPC Collaboration / Evangelism**



