



Information Revolution 2014
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Welcome & Introduction

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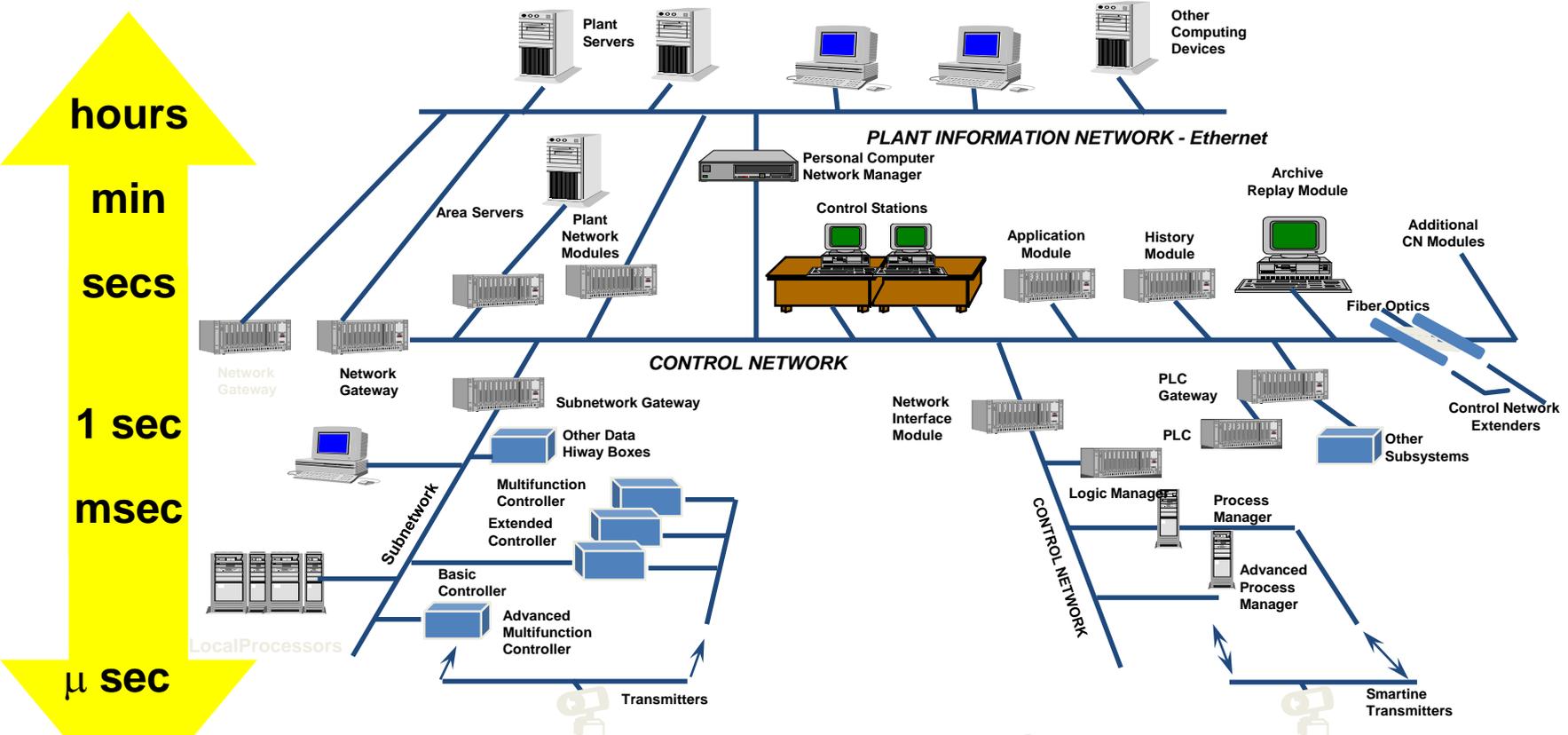
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Why OPC ?

- Interoperability
- Standards : fact or fiction?
- Where did OPC come from?
- Four Core Companies
- OPC Foundation
- Write a communications driver one time
- Solve World Hunger?



The Plant : a Complex Environment with many opportunities for standards for interoperability



- Asynchronous Processing
- Multiple Interfaces
- Mission Critical
- How to Manage Changes?

- Complex Information Flows
- Multi-vendor
- Proprietary

Where did OPC come from?

- ▶ 1995 OPC Foundation task force
 - Spin-off from WinSem Group
 - Intellution, Rockwell Software, Fisher Rosemount, opto 22
 - “solve the driver problem”
- ▶ Success is measured by level of adoption
- ▶ High-value vendor problem solved
- ▶ Proven Technology

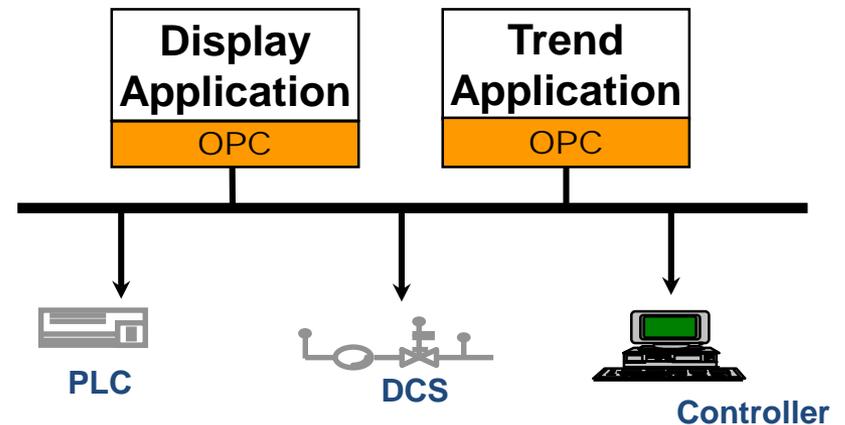
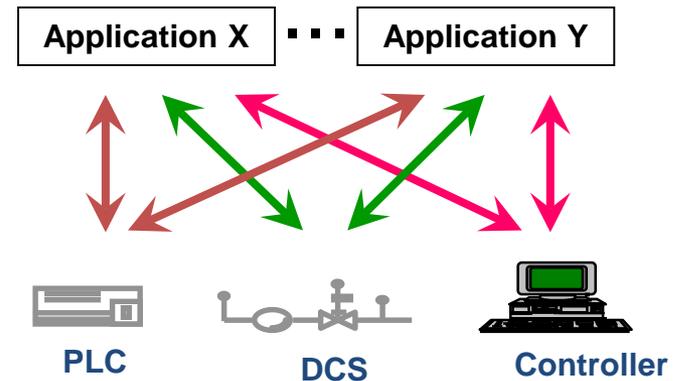
OPC History

• The Problem

- Many different vendors
- Custom made solutions
- Proprietary technologies
- Point-to-point Integration
- Limited “real-time” information
- Maintenance nightmare
- Multiple dependencies

• Solution

- OPC



OPC Foundation: Who We Are

Community:

- The OPC Foundation is the world's leading community for interoperability solutions based on OPC specifications that deliver universal connectivity.

Collaboration:

- The mission of this community is to advance the development, adoption and certification of OPC based products through global collaborations.

Compliance:

- The Foundation is the official source for the OPC Certification Program, ensuring that OPC products plug-and-play in real-world application.

OPC Foundation Domains

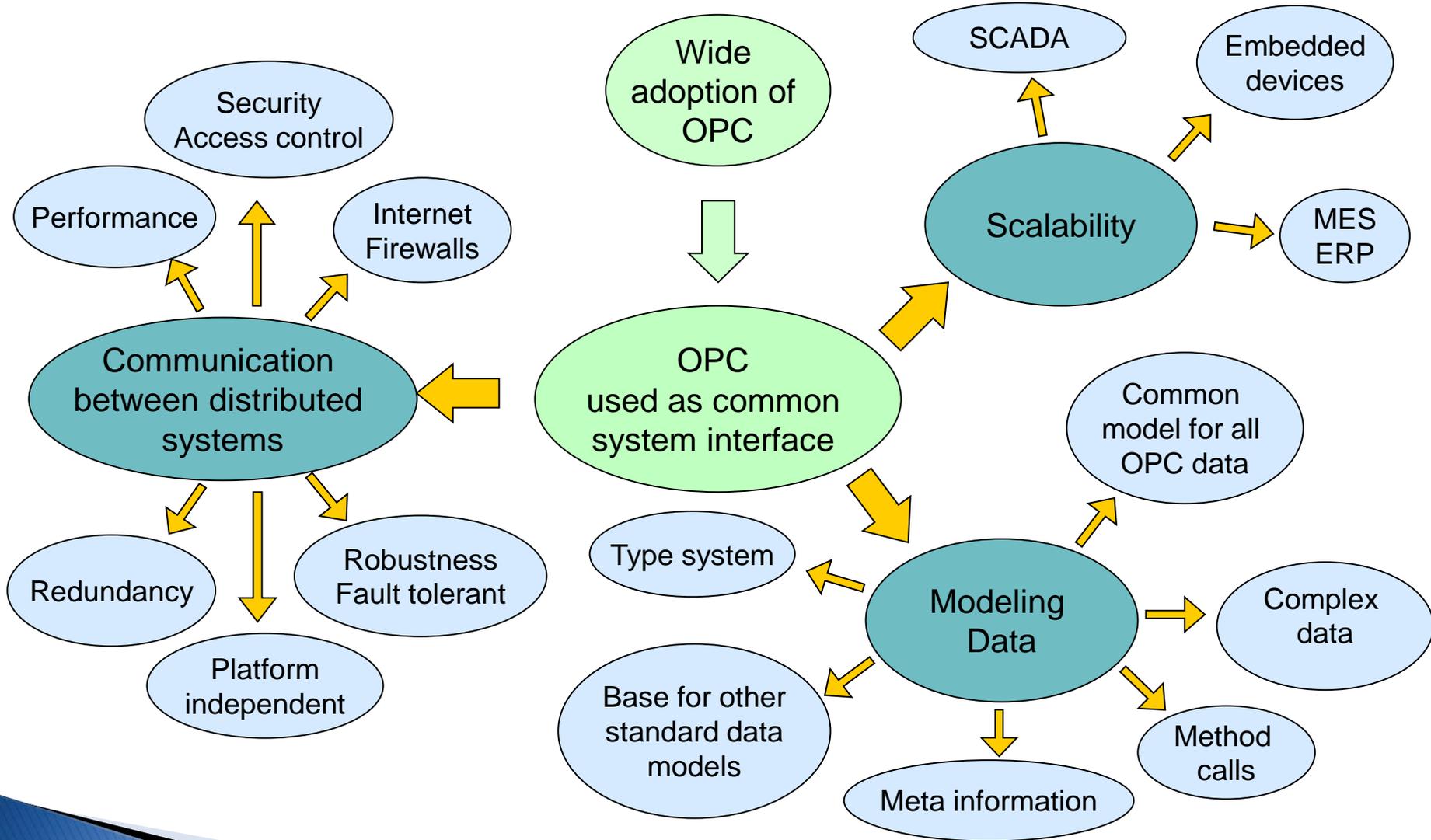
The key markets for OPC technology include

- Industrial Automation
- Building Automation
- Embedded Devices
- Energy Management (Smart Grid)
- Manufacturing Enterprise Management
- M2M
- Cloud-based Computing

Benefits From OPC Adoption

- Vendors were no longer required to maintain extensive device protocol libraries
- High-quality and affordable device-drivers (Servers) emerged
- More specialized Clients emerged
- Developer toolkits emerged for rapid development of custom applications that could also integrate with the OPC infrastructure
- End-users could mix-and-match numerous vendor products to achieve the best overall solution

OPC Unified Architecture (OPC-UA)



Innovation & Interoperability

