



## OPC Unified Architecture

Integrating Web Services

By

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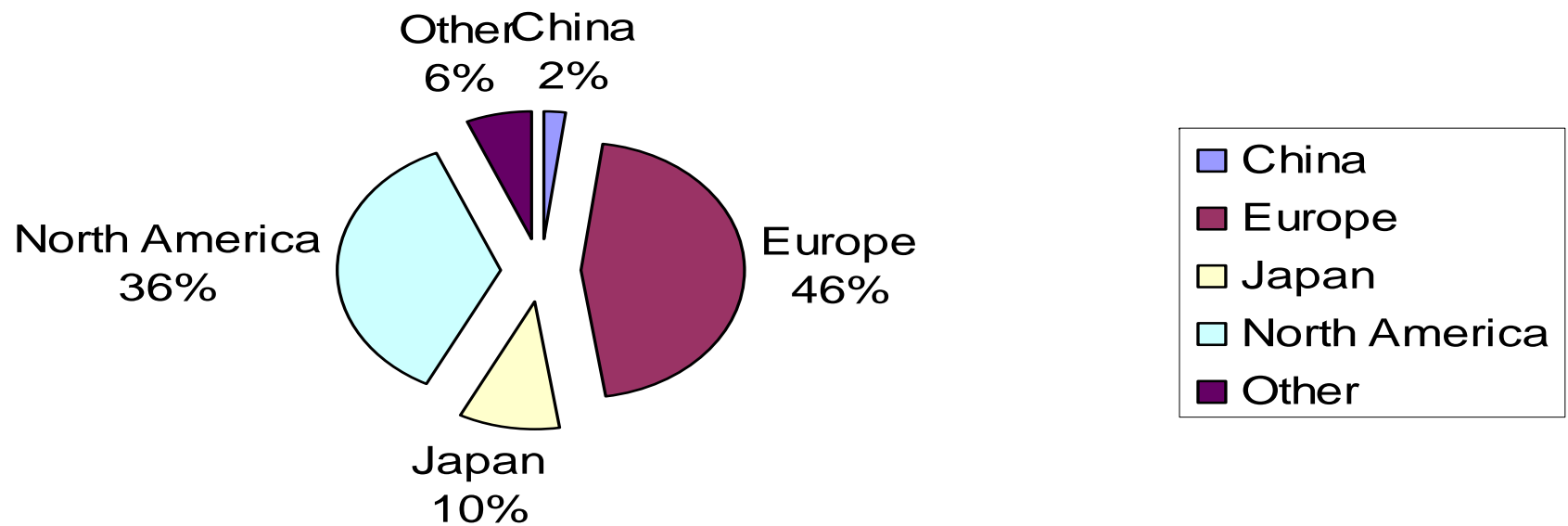


- Industry Standard Interface for Data Exchange and Interoperability between Industrial Measurement, Automation Devices, Building Systems, Networks, Manufacturing Applications & Beyond ....
- Total Industry Support
- OPC can be used on a single machine or deployed in large distributed environments

- Membership Has Grown to 320 Companies Worldwide.\*
  - 137 Members in Europe
  - 41 End User Companies
- OPC Products estimate is 3000+
  - 900+ in OPC Product Catalog

\* 2003 numbers

### Membership Demographics

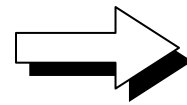


## Productivity

### Before OPC:

Custom interfaces

- costly
- inefficient
- risky

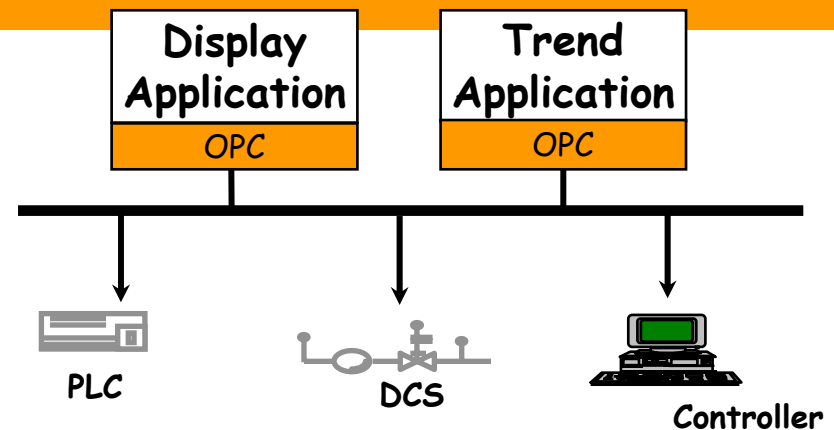
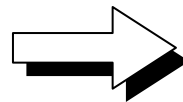
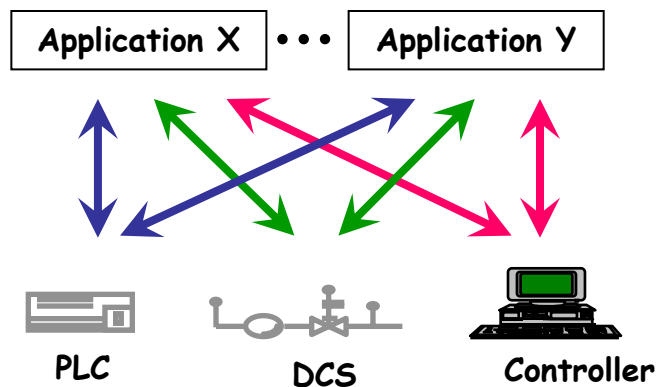


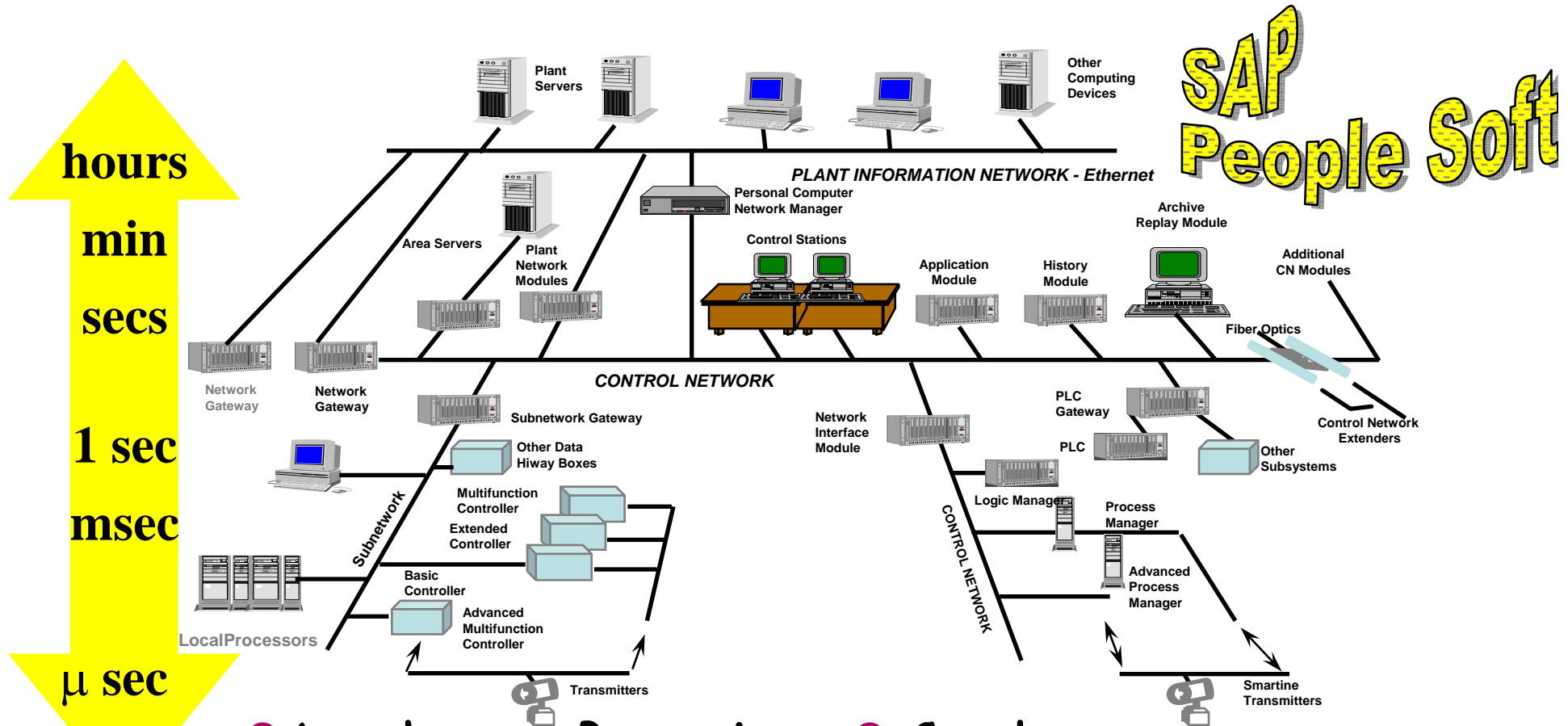
### With OPC:

Client and Server write to a standard

- reduce cost
- protect investment
- more choices
- increase productivity

## Connectivity





- Asynchronous Processing
- Multiple interfaces
- Mission Critical
- How to manage changes?

- Complex information flows
- Multivendor
- Proprietary

- Redesign of OPC operability from COM/DCOM model to SOA (Service Oriented Architecture)
- Services Designed for Data Integrity
  - Secure
  - Transactional
  - Reliable
  - Synchronized Data / Information
  - Deterministic

- OPC Unified Architecture Mappings
  - UA-Binary over TCP (IT'S FAST)
    - True replacement for DCOM
  - UA-Binary and XML-text via Web Services
    - State-of-the-art WS-\* compliant
- Information Model Validation
  - Through Collaboration (like S95 and other standards)
- Platform Independence (no longer dependent on COM/DCOM)
- Scalability
- Reliability
- Security

