

MB300

# Masterbus 300

## OPC SERVER







# Background

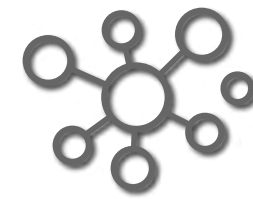
- Novotek developed an ABB EXCOM FIX driver
- Novotek participated in the development of ABB Advasoft
- Novotek delivered an application to replace ABB OS using 3rd party GCOM (1998)
- Novotek developed a GCOM OPC Server (2000)
- Novotek developed the MB300 OPC Server (2005)
- Novotek added new functions to the MB300 OPC (New blocks, TTD, OPC AE) (2007)
- Novotek added new functions to the MB300 OPC (New blocks, TTD, OPC AE) (2007)
- Novotek added MultiDAT object for profile data to the MB300 OPC (2010)
- Novotek added full redundant MB300 network support to the MB300 OPC (2013)
- Novotek added full support for latest OS all the time
- To date ~100 MB300 OPC licenses delivered





# Why the MB300 OPC Server?

- MV850 not supported anymore
- UNIX-based OS500 not sold anymore. End of life
- Modernize User Interface
- Provide an open interface
- Collect Historical data
- Integrate with other plant areas
- Standard OPC server for Masterbus 300
- Uses standard Ethernet NIC
- Fast Communication
- Advanced tools for troubleshooting and optimization
- Supports MP280, AC410 and AC450
- Supports redundant MB300 networks
- Support for all major object types used in ABB controllers
- Supports presentation of Process Events, System Events and System Texts via OPC DA (as text strings) with controller time stamp
- Supports presentation and acknowledgement of Process Events, System Events and System Texts via OPC AE with controller time stamp
- Can be time sync master on the MB300



# System Layout



**Object types supported:**

**Simple standard objects**

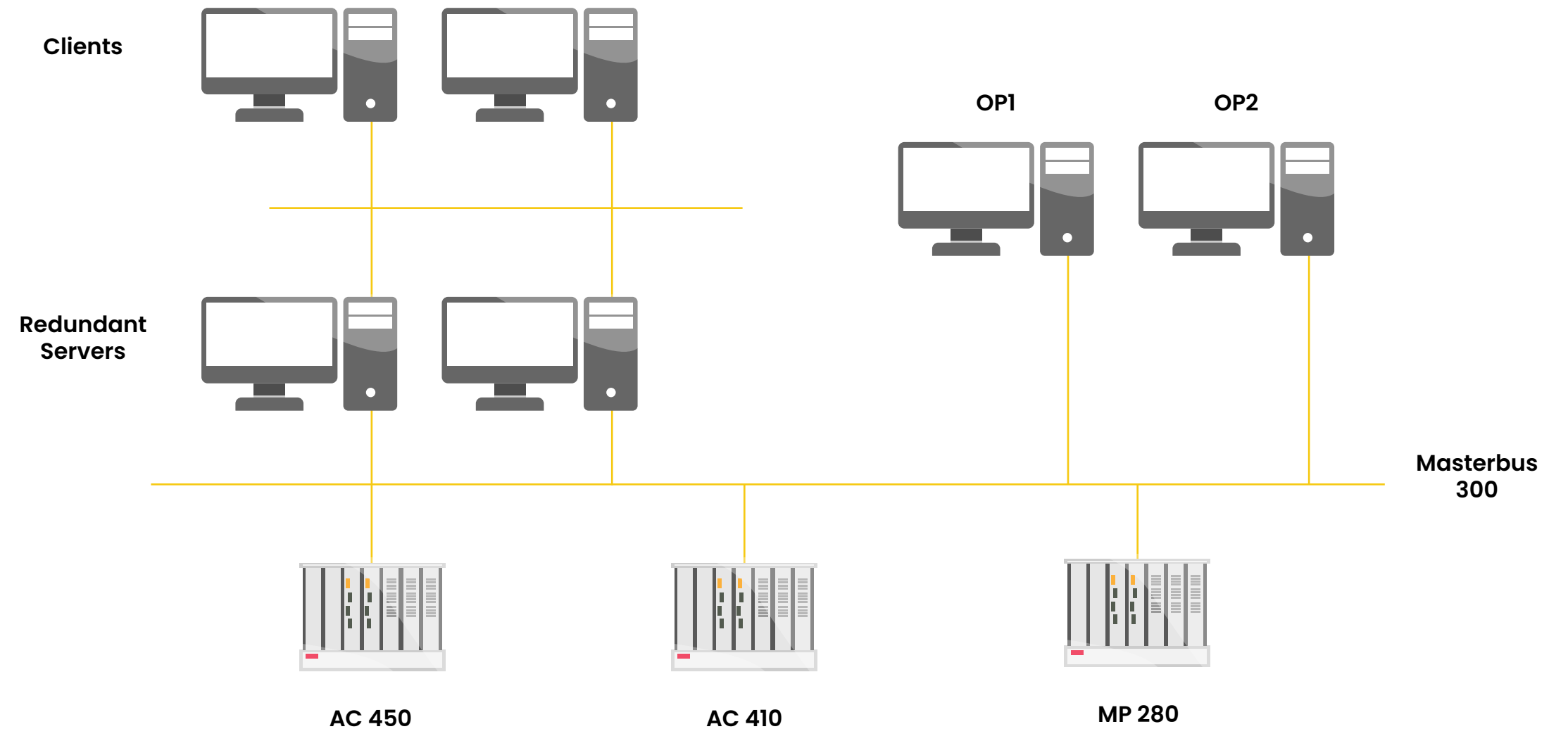
Ex. AI, AO, DI, DO, DAT, TEXT

**Advanced standard objects**

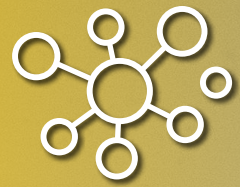
Ex. MOTCON, VALVECON, PIDCON, SEQ

**Special objects**

Ex. TTD, MultiDAT







# References

## REFERENCE 1

- More than 10 000 ABB Objects/ 11 Controllers
- SCADA-solution
- Historian communication
- Batch communication
- Inter-Controller communication (OPC Bridge)

## REFERENCE 2

- More than 20 000 ABB-objects / 8 controllers
- Archiving of data inclITTD-logs to Proficy Historian
- Web based portal presentation (trends and graphics)





# Licenses & Support

## Licence exists in:

- Sizes of 1000 or unlimited number of ABB objects
- A&E OPC Server option (1000/UNL)
- QCS MultiDAT option (1000/UNL)
- Redundant Masterbus 300 option (1000/UNL)

## Good to know

- Support & Maintenance required for first year
- Novotek offers consulting in how to design system for optimal performance and minimum bus load

## Annual Subscription for Maintenance & Support

- Technical support via phone, fax and email
- Software updates (both major and minor releases)
- Availability of onsite support based on time and expenses

## Services

- Conversion service from \*.bax files to OPC Server configuration
- Product Training
- Engineering Services



# Contact Novotek

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