



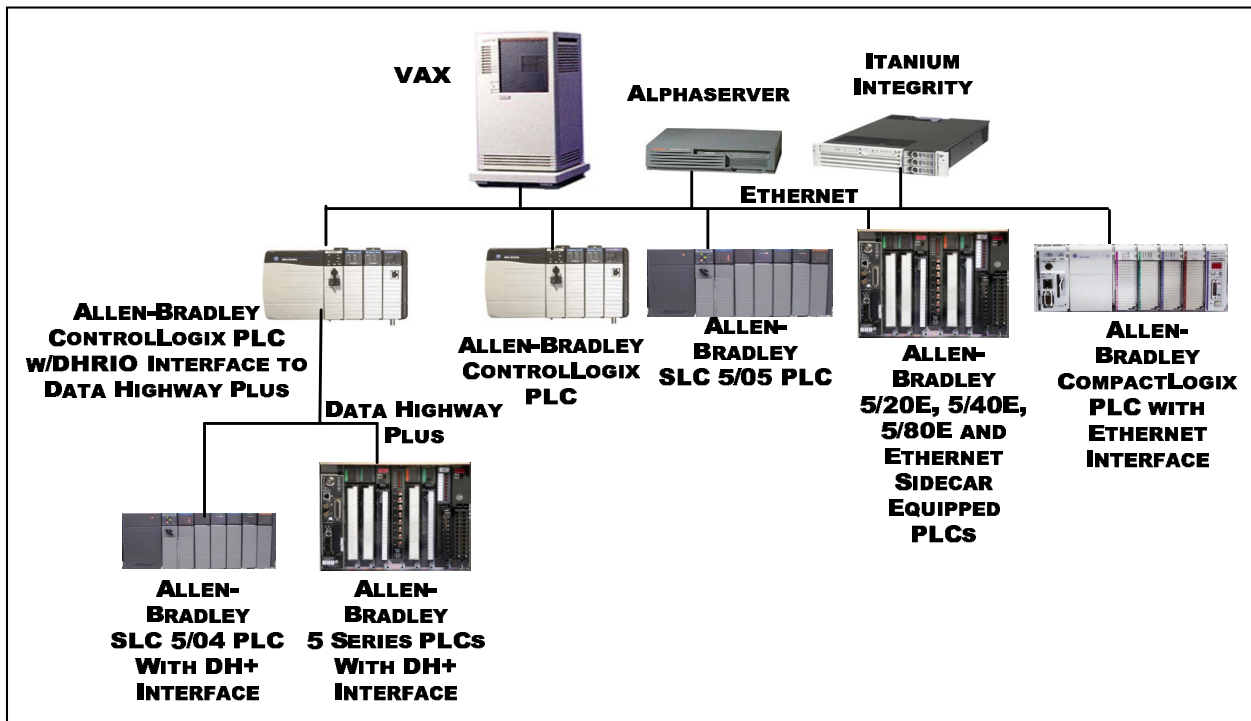
ABNet



VMS Interface to Allen-Bradley PLCs

ABNet allows direct communication from a VMS program on a VAX, Alphaser, HP Integrity, CHARON VAX or CHARON Alpha to an Allen-Bradley PLCs via direct Ethernet connection or via ControlLogix DHRIO Gateway to Data Highway Plus. Supported Allen-Bradley PLCs include ControlLogix, CompactLogix, PLC 5 and SLC 5. The ABNet interface can be called from a user's C or FORTRAN program. ABNet follows the Rockwell Interchange for VMS call format so that Interchange can be replaced with ABNet by just linking against the ABNet libraries. No programming changes or recompile required! ABNet supports the following DTL Interchange calls (additional calls can be added):

- | | | |
|---------------------|-----------------|-----------------|
| ◆ DTL_C_CONNECT | ◆ DTL_INIT | ◆ DTL_SETOPT |
| ◆ DTL_C_DEFINE | ◆ DTL_READ | ◆ DTL_TST_MASK |
| ◆ DTL_CHANNEL_STATE | ◆ DTL_READ_W | ◆ DTL_TST_WID |
| ◆ DTL_CLR_WID | ◆ DTL_RECEIVE | ◆ DTL_UNSol_DEF |
| ◆ DTL_CONNECT | ◆ DTL_RECEIVE_W | ◆ DTL_WAIT |
| ◆ DTL_DEFINE | ◆ DTL_RMW | ◆ DTL_WRITE |
| ◆ DTL_DISCONNECT | ◆ DTL_RMW_W | ◆ DTL_WRITE_W |
| ◆ DTL_ERROR | ◆ DTL_SET_MASK | ◆ DTL_ZERO_MASK |
| ◆ DTL_ERROR_S | ◆ DTL_SET_WID | |




Salem Automation
VAX & ALPHA Systems Emulation

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Benefits to ABNet

- ✓ Up to 5 times faster than Interchange!
- ✓ Up to 90% less CPU usage than Interchange!
- ✓ Supports Allen-Bradley DHRIO to Data Highway Plus to SLC & PLC 5.
- ✓ Supports direct Ethernet communications to PLC 5/20/40/80E processors, SLC 5/05, CompactLogix & ControlLogix PLCs.
- ✓ Native mode tagname communications to ControlLogix and CompactLogix.

Example PLC 5 Definition String for PLC 5 (or PLC 5 mapped to Logix):
N7:1, 10, WORD, MODIFY, 101KA:2, 4, PLC5, 1

Example Definition String Native-Mode Tagname for Logix Communications:
TEST_INT:INT, 10, WORD, MODIFY, 101KA:2, 2, LGX, 1

or:

TEST.INT[100]:INT, 10, WORD, MODIFY, 101KA:2, 2, LGX, 1

Supported data types: BOOL, SINT, INT, DINT, REAL, TIMER, COUNTER, USER

- ✓ Supports VAX VMS, Alpha OpenVMS & Integrity Itanium Open VMS Platforms.
- ✓ ABNet relinks to existing Interchange applications no - recompile required.
- ✓ ABNet is supported software which preserves your software investment and provides a platform for future system growth.
- ✓ ABMon provides detailed communications diagnostics including monitoring client & server data counters, monitoring of communications queues and the ability to dynamically turn on/off debug/trace.

ABNet Mon - Communications Monitor

- ✓ Enables monitoring client and server data structures and counters.
- ✓ Enables monitoring of communication queues in-memory.
- ✓ Can dynamically change the verbosity of log messages via mailbox, to the Gateway server, as well as client processes.
- ✓ Detailed tracing and debugging can be enabled to show entry and exit of each and every subroutine.
- ✓ Simple menu-driven text based interface.

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