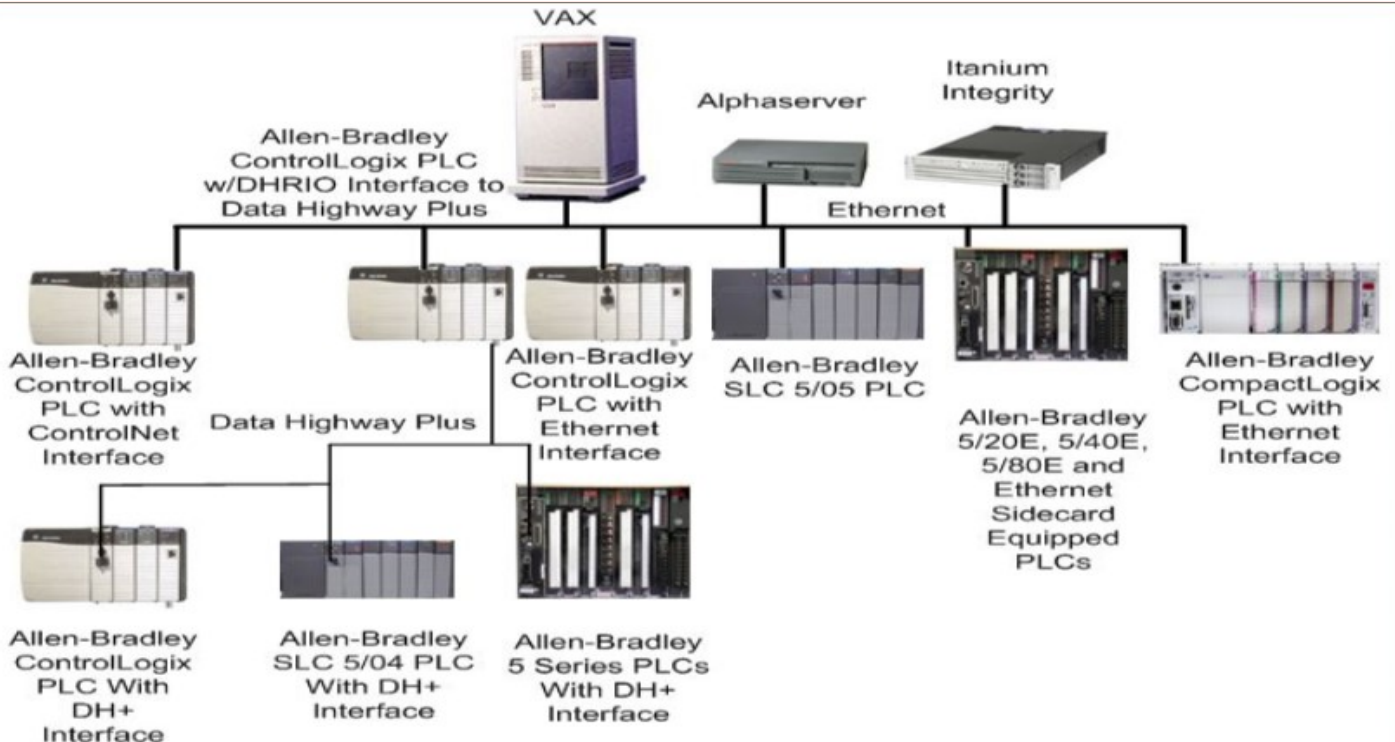




What is ABNet?

ABNet allows direct communication from a VMS program on a VAX, Alphaser, HP Integrity, vtVAX, vtAlpha, or any VAX/ALPHA Emulation software 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 | ◆ DTL_UNSol_GETALL |
| ◆ DTL_READEX | ◆ DTL_WRITEEX | ◆ DTL_GET_FLT |
| ◆ DTL_READEX_W | ◆ DTL_WRITEEX_W | ◆ DTL_PUT_FLT |





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.

FOR ADDITIONAL INFORMATION, PLEASE CONTACT

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