COMPAQ

Software Product Description

PRODUCT NAME: BASEstar Classic DAS for Allen-Bradley Data Highway Protocol, Version 3.4A
SPD 64.67.01

DESCRIPTION

The BASEstar Classic DAS for Allen-Bradley Data Highway Protocol allows users to access Allen-Bradley Programmable Logic Controllers (PLCs) through the BASEstar Classic Device Connect Manager (DCM).

Via BASEstar Classic DCM, the user may configure path, type, device, and physical point definitions, and also configure for polled and unsolicited data collection.

Using the BASEstar Classic DAS for Allen-Bradley Data Highway Protocol, users or applications can perform a variety of device access functions for the Allen-Bradley family of PLCs. Examples of functions supported for the Allen-Bradley PLCs include: reading and writing data, uploading and downloading logic programs, and reading the status of a device. The BASEstar Classic DAS for Allen-Bradley Data Highway Protocol also supports structured data, which allows structures to be imposed on plant-floor data.

The BASEstar Classic DAS for Allen-Bradley Data Highway Protocol supports the following Allen-Bradley PLCs:

- Allen-Bradley PLC-1774
- Allen-Bradley PLC-2, PLC-2/02, PLC-2/05, PLC-2 /15, PLC-2/16, PLC-2/17, PLC-2/20, PLC-2/30
- Allen-Bradley PLC-3 Family of devices
- Allen-Bradley PLC-5/10, PLC-5/11, PLC-5/12, PLC-5/15, PLC-5/16, PLC-5/20, PLC-5/20C, PLC-5/20E, PLC-5/25, PLC-5/26, PLC-5/26E, PLC-5/30, PLC-5 /30V, PLC-5/30LV, PLC-5/36, PLC-5/40, PLC-5/40V, PLC-5/40LV, PLC-5/40C, PLC-5/40E, PLC-5/46B, PLC-5/46L, PLC-5/46E, PLC-5/60, PLC-5/60V, PLC-5/60LV, PLC-5/60C, PLC-5/66B, PLC-5/66L, PLC-5 /80B, PLC-5/80E, PLC-5/80C, PLC-5/86B
- Allen-Bradley SLC-500, SLC-5/01, SLC-5/02, SLC-5 /03, SLC-5/04, SLC-5/04S, SLC-5/04L

The BASEstar Classic DAS for Allen-Bradley Data Highway Protocol supports the following device access functions:

- An Upload function that transfers the contents of device memory to an OpenVMS file (Not supported for the PLC-5/250 or SLC PLCs)
- A Download function that transfers the contents of an OpenVMS file to device memory (Not supported for the PLC-5/250 or SLC PLCs)
- Start and Stop functions that change the operating mode of a programmable controller (Not supported for the PLC-2 or SLC families of devices)
- A Read Data function that allows users and applications to read data from a specific address in device memory
- A Write Data function that allows users and applications to write data to a specific address in device memory
- A Read Status function that returns the following information:
  - — Processor type and communications interface model
  - — Operating mode, data table size, and memory size for a PLC-1774 system
  - — Operating mode and data table size for a PLC-2 system
  - — Operating mode, user program size, and memory size for a PLC-3 system

  - — Operating mode and memory size for a PLC-5 system
  - — Processor mode and processor size for a SLC system
- Receive Unsolicited Data from a device

HARDWARE REQUIREMENTS

Processors Supported

The processors supported by the following products will also support the BASEstar Classic DAS for Allen-Bradley Data Highway Protocol:

- BASEstar Classic Server for OpenVMS VAX V3.4 (development and runtime)
- BASEstar Classic Server for OpenVMS Alpha V3.4 (development and runtime)

Other Hardware Required:

In addition to any of the supported Allen-Bradley PLCs, an Allen-Bradley KE, KF, KF/2 or KF-3 communications card and a "VAX or Alpha communications card" or Terminal Server, and a RS232-C terminated cable are required.

Disk Space Requirements (Block Cluster Size = 1)

For Compaq OpenVMS VAX and Alpha Kits

Disk space required for installation	1,000 blocks
Disk space required for use (permanent)	500 blocks

These counts refer to the disk space required on the system disk. The sizes are approximate; actual sizes may vary depending on the user's system environment, configuration, and software options.

SOFTWARE REQUIREMENTS

For OpenVMS VAX Systems:

- OpenVMS VAX Operating System Version 5.5-2, 6.1, 6.2, 7.0, 7.1, 7.2
- BASEstar Classic Server for OpenVMS VAX Version 3.4

For OpenVMS Alpha Systems:

- OpenVMS Alpha Operating System Version 6.1, 6.2, 7.0, 7.1, 7.2
- BASEstar Classic Server for OpenVMS Alpha Version 3.4

GROWTH CONSIDERATIONS

The minimum hardware/software requirements for any future version of this product may be different from the minimum requirements for the current version.

DISTRIBUTION MEDIA

for OpenVMS VAX:

This product is available as part of the Compaq OpenVMS VAX Consolidated Software Distribution on CDROM. It is also available on TK50 Streaming Tape.

for OpenVMS Alpha:

This product is available as part of the Compaq OpenVMS Alpha Consolidated Software Distribution on CDROM.

ORDERING INFORMATION

For OpenVMS VAX

Software Licenses: QL-5JYA*-**
Software Documentation: QA-5JYAA-**
Software Product Services: QT-5JYA*-**

For OpenVMS Alpha

Software Licenses: QL-5JXA9-**
Software Documentation: QA-5JYAA-GZ
Software Product Services: QT-5JXA*-** QT-5JYAA-KZ

* Denotes variant fields. For additional information on available licenses, services and media, refer to the appropriate price book.

SOFTWARE LICENSING

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License Management Facility Support

This product supports the OpenVMS License Management Facility (LMF) Software on VAX and Alpha.

Documentation

A single "Installation & User's Guide" covers both the VAX and Alpha versions of this software.

SOFTWARE PRODUCT SERVICES

A variety of service options are available from Compaq. For more information, contact your local Compaq office.

SOFTWARE WARRANTY

Warranty for this software product is provided by Compaq with the purchase of a license for the product as defined in the Software Warranty Addendum of this SPD.

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