

AlphaCD 08/2002 Release Notes

This AlphaCD contains all the software changes to AMOS and related software that have been tested and released since the 06/2000 AlphaCD. This document lists the major software changes and additions, some of which have previously been released to the field but are being consolidated here for convenience to our customers. These release notes discuss:

- The versions of AMOS® software and documentation available, and what's new in them
- Updates to AlphaTCP release, version 1.5A
- AM-403 DVD-RAM software
- The AM-PC™ 4.2A software (expandable EXE)
- AMPC 5.0 & AMPC 6.0 software (expandable EXEs)
- The Miscellaneous Software section of the AlphaCD which includes the AM-931 Automatic Reboot Box software, EMAILH.LIT enhanced email software, and BKG.LIT mini task manager software.
- Updated third party software releases-- Metropolis (PR08/2002), SuperVue 3.1H, AlphaLAN 8.0, Autolog, and Starr Accounting
- Updates to the unsupported software section of the AlphaCD, including the AMUS Network Library.
- Appendix A which summarizes changes and additions to AMOS 2.3A
- Appendix B which lists the AlphaCD AMOS side contents by logical disk.
- How to use the CD

AMOS VERSIONS AVAILABLE

As always, the AlphaCD includes the latest versions of AMOS: the August patch releases of AMOS 2.3A and AMOS 1.4E. AMOS 2.3A (patch release 08/02) adds AMPC 5.0 and AMPC 6.0 support, DVD-RAM support as well as several problem resolutions. AMOS 1.4E is the year 2000 compliant version of AMOS 1.X with various problem resolutions. The Eagle 100TX and 100MX versions of the software has been frozen at the 06/00 release. See Appendix A for a summary of AMOS 2.3A changes and new files included in the AMOS 2.3A release

For specific details on the latest patches to AMOS, go to ampm.alphamicroproducts.com/ampm/#Technical.

The Alpha Micro Package Manager (AMPM) lets you keep all AMOS related products up to date. You must be a registered user on TABBS to download the AMOS patches. For more information on AMPM, please refer to the AlphaTCP Administrator's Guide (DSM-00187-11), page 6-19. For specific instructions on updating Alpha Micro software using AMPM, please refer to ampm.alphamicroproducts.com/ATechL/DOAMPM.TXT.

AMOS Documentation

As always, on-line documentation is contained in the *DOC* folder in the DOS partition of the CD. This folder includes all marketing bulletins, product data sheets, and documents released or updated since the previous AlphaCD release in June 2000, plus all the prior documents included on the previous CD.

To access these documents, open the TOC.PDF file to bring up the On-Line Documents table of contents and follow the instructions at the beginning of that document.

New documentation includes the *SuperFalcon Owner's Manual*, *Eagle 250 Owner's Manual*, *Eagle 250 Installation and Technical Manual*, *Eagle 250 Service Manual*, *AM-403 SCSI DVD-RAM Installation Instructions*, *AM-80 Thin-Client Terminal Installation Instructions*, *AM-931 Intelligent Reboot Box*, and *AM-PC 5.0 Release Notes*. Updated documents include the *Roadrunner 75 Upgrade Instructions*, *System Self Test User Guide (V3.0 and later)*, and *AlphaLAN Release Notes*. New product data sheets for *SuperFalcon*, *Eagle 250*, *Eagle 450* and *AM-7000* systems are also included.

Remember, documents that have been added or changed since the last AlphaCD are marked with an asterisk in the table of contents. The table of contents is the file TOC.PDF in the root folder of the on-line documentation section. It is bookmarked with each major section so you can quickly jump to any document section.



As always, the *DOC* folder includes both 16-bit (Windows 3.X) and 32-bit (Windows XP, 2000, ME and 98) versions of the Adobe Acrobat reader, *Ar16e301.exe* and *Ar505eng.exe*, located in the *DOC* subfolder. If you don't already have the Reader on your PC, just execute the appropriate file to install the version you want.

MANY IMPROVEMENTS FOR AMOS

There have been many improvements to the AMOS release - too many to list here. Here are a few of the important ones:

- More AMOS scheduler flexibility, including improved disk performance in some situations.
- Support of larger disk drives and also a wider selection of disk drives.
- ISAM-Plus bug fixes, including "uneven run termination".
- Support for the newer AM-447 RAID.
- Support for up to 60 GB Streamer Tape drives.
- Improved power failure handling.
- Extensive revisions to AlphaBASIC-Plus, including automatic type conversions, improved subprogram reliability, better handling of large programs.
- More and improved troubleshooting tools, including STAT1 and updates to USTAT, SI, SCSI, and VERIFY.
- A new task manager (TASKIT) with separate manager jobs for each spooler and slave. See DSS-10610-00, *Spawning Task Manager Information Sheet*, contained in the documentation section of this CD

MORE SECURITY AND STABILITY FOR ALPHATCP

If you run an open mail server, you could get blacklisted. The revised SMTPD mail server has enhanced mail forwarding features. Previous versions of SMTPD could either be operated as an open mail server relay or could limit mail forwarding to or from fixed addresses. The limitation meant many systems were operated as open relays allowing malicious users to use them to forward bulk email. Then systems were sometimes blacklisted and none of their users could send legitimate email to some addresses. When operating as a closed server (which prevents the blacklisting), SMTPD now allows logged-in authenticated users to forward email. See Chapter 5 of the AlphaTCP Administrator's Guide, DSM-00187-12, for details.

The following AlphaTCP 1.5A related updates have been included on this AlphaCD:

- Added optional remote user anti-spamming security feature (see above).
- Released source code for EMAIL.LIT (unsupported).
- More sample TAME code (EMAIL.M68 - unsupported).
- Fixed problems with embedded MIME headers in EMAIL.LIT
- Corrected a Fire Wall (IPFW) problem with IP groups and locking with some errors.
- In AMAIL.EMD (part of AlphaMAIL), changes to handle Internet Email addresses over 77 characters and provide safer file management of attachments.
- Software and examples (unsupported) for safely closing TELNET jobs (SIEXIT and EXITST).
- Sample software (unsupported) for using the firewall to reduce some hacking attacks (IPFWIT).
- Prevented a rare occurrence of TCP spawning locking the IP stack (SMEM.LIT in AMOS).
- Prevented a usually rare occurrence of improper SYN/ACK numbers which would cause, among other things, FTP job locks or LPR/LPD packets to be reassembled in the wrong order.
- Changed PCILSI.LDV (part of AMOS) to reduce TCP's packet re-assembly overhead.
- Fixed a queue buffer usage problem in PCINIC.LDV (part of AMOS).

AM-403 4+ GB DVD-RAM WORKS LIKE A HARD DISK

By using the DVD-RAM technology instead of the DVD-RW, a single disk can be modified over 10,000 times. To take advantage of this, we have included a DVD driver that treats the DVD like any other SCSI disk - COPY, RENAME, ERASE, OPEN, etc. The driver is part of the PIC-coded software that supports the AM-403 SCSI DVD-RAM. The software can read AMOS and DOS formatted CD-ROMS. And whereas CD-ROM can store up to 650MB of data on a disk, DVD-RAM accommodates a whopping 4.7 GB per disk side. Also included with this software is the utility *MAKDVD*, which does fast image copies of selected disk logicals. When *MAKDVD* is done, the result is ready to use as a SCSI disk or store as a backup. Details of this software are contained in the *AM-403 SCSI DVD-RAM Installation Instructions*, included in the documentation area on the AlphaCD.

ALPHACD-WRITER SUPPORTS RE-WRITEABLE CDS!

AlphaCD-WRITER is the software that supports the AM-402 SCSI CD-Recorder for AMOS based systems. With the latest release, the software has been enhanced to support re-writeable CDs. This software consists of a utility called *MAKACD*, which is PIC-coded on a per system basis. Details of this software are contained in the *AM-402 Installation Instructions*, included in the documentation area on the AlphaCD.

AMPC 4.2A DISTRIBUTION STRUCTURE REVISED AND FROZEN

This AlphaCD includes the June 2000 self extracting version of AM-PC 4.2A, incorporating AMOS 2.3A, PR 06/00 and AlphaTCP 1.5A, and removing the DOS setup program. This older version has been frozen -- no new updates will be made to this version.

AMPC 5.0 & AMPC 6.0

This AlphaCD includes both AMPC 5.0 and AMPC 6.0 releases. All software has been updated to current patch level with AMOS, AlphaTCP, and AlphaNET. Do not mix the releases. They have specific files and operate only with their co-processor boards. The AMPC 5.0 software (AMPC50I.EXE) is for the AM113-10 board. The AMPC 6.0 software (AMPC60I.EXE) is for the new AM113-40 Super Falcon Application Processor Board. Both releases are self extracting CD-ROM images which are found at the root directory of AlphaCD 08/2002.

CAUTION: Our standard installation (SETUP.EXE) will destroy previous installations of the same major version.

Self-extract the files (*you MUST change the target disk*) and select the SETUP.EXE file to install the new software. Self-installing versions (AMPCi5.EXE and AMPCi6.EXE) are available at AMPM.AlphaMicroProducts.com/ampm/#AMPC. These can be downloaded or installed directly from the Web.

MISCELLANEOUS SOFTWARE SECTION

The miscellaneous software section contains the following Alpha Micro Products software:

- AM-931 Intelligent Reboot Box Software support (AUTRST.LIT). See PDI-00931-00, contained in the documentation portion of the CD, for details.
- EMAILH.LIT, a modified version of EMAIL.LIT that enables you to send graphical HTML style emails.
- BKG.LIT Mini Task Manager. BKG is a collection of programs that allow you to schedule tasks to run on any given night of the week or on every day of the week. It is a simplified alternative to the Task Manager. The documentation is a DOC file included with the software on the AlphaCD.
- Working version of the Good News SQL prototype, with source code.

THIRD PARTY SOFTWARE UPDATES:

The following third party software products have been updated by their respective developers, and are identified as patch releases.

- Metropolis 7.5
- SuperVue 3.1H
- AlphaLAN 8.0
- Starr Accounting
- Autolog from Soft Machines

Remember, these products are provided as a convenience for our dealers, developers, and end users. Alpha Micro has not tested or qualified these software products, and takes no responsibility for their installation or use. If you have any questions about any of these products, please contact the specific developer.

UNSUPPORTED SOFTWARE SECTION

The unsupported software section of the AlphaCD has been updated with many programs donated by various people. Take a look to see what has been added. Among the new additions:

- The AMUS Network Library.
- Source code for EMAIL.LIT so you can customize it. Also a good sample of TAME coding.
- ISOCD with source code - this allows AMOS to read a PC CD.
- Working version of the Good New SQL prototype, with source code.

Appendix A

SUMMARY OF AMOS 2.3A CHANGES:

AMOS.MON	enhancements to support AMPC 5.0 & 6.0, bug fixes, enhancements & support for new hardware
BASICP.LIT	bug fixes
BITMAP.LIT	bug fixes
CDR.DEV	enhancement
COMPLP.LIT	bug fixes
DB.LIT	bug fixes
DCACHE.SYS	bug fixes, enhancements
ESLSI.LIT	bug fixes
FLUTIL.LIT	bug fixes
FMTS2.LIT	bug fixes
ISAMP.SYS	bug fixes
ISMUTL.LIT	bug fixes
ISP.SYS	universal file update
LOGON.LIT	bug fixes, enhancements
MONGEN.LIT	enhancements to support AMPC 5.0 & 6.0, bug fixes
MONTST.LIT	enhancements to support AMPC 5.0 & 6.0, bug fixes
MUSER.LT	bug fixes
PRNT.LIT	bug fixes
RADMON.LIT	bug fixes
RUNP.LIT	bug fixes
SCSI.LIT	enhancements, bug fixes
SCZRR.SYS	bug fixes
SCZR60.SYS	bug fixes
SCZ138.SYS	bug fixes
SCZ190.SYS	bug fixes
SCZ7K.SYS	bug fixes
SETJOB.LIT	bug fixes
SHOWS.LIT	enhancements, bug fixes
SI.LIT	enhancements, bug fixes
SIMRR.SYS	bug fixes
SIMR60.SYS	bug fixes
SIM138.SYS	bug fixes
SIM190.SYS	bug fixes
SIM7K.SYS	bug fixes
SMEM.LIT	bug fixes
STAT1.LIT	bug fixes
SUBMIT.LIT	bug fixes
SYSTEM.LIT	enhancements, bug fixes
TASKIT.LIT	bug fixes
TRMDEF.LIT	enhancements to support AMPC 5.0 & 6.0
VDKUTL.LIT	enhancements, bug fixes
VERIFY.LIT	bug fixes

WRMGEN.LIT	bug fixes
AM100L.IDV	bug fixes
AM1000.IDV	bug fixes
AM1200.IDV	bug fixes
PCILSL.DV	bug fixes
PCINIC.LDV	bug fixes
SCZRR.DVR	bug fixes
SCZR60.DVR	bug fixes
SCZ138.DVR	bug fixes
SCZ190.DVR	bug fixes
SCZ7K.DVR	bug fixes
VDK.DVR	bug fixes
625DVR.DVR	bug fixes
FLOCK.SBR	bug fixes
RENAME.SBR	bug fixes
SYS.M68	enhancements & support updates
SYSSYM.UNV	enhancements & support updates
FLOCK.XBR	bug fixes
IDV685.M68	bug fixes

SUMMARY OF AMOS NEW FILES INCLUDED:

DVD.DEV	DVD-RAM known device file
DVD.LIT	performs standard AMOS read/write calls to DVD-RAM
DVD000.OVR	overlay file
FMTDVD.LIT	DVD-RAM format program
MAKDVD.LIT	copies logical disks to DVD-RAM
DVD.DVR	DVD-RAM device driver
DVDRAM.DVR	DVD-RAM device driver

Appendix B

ALPHACD AMOS SIDE CONTENTS

ACD00:	General Information	(W00)
ACD01:	AMOS 1.4E PR06/2000	(D00)
ACD02:	AMOS 2.3A PR08/2002	(J00)
ACD03:	Eagle 100TX Terminal Server Flash Rel. .	(C00)
ACD04:	Eagle 100MX Fax Server Flash Release ...	(C00)
ACD05:	Eagle 100MX Fax Server Disk Release	(C00)
ACD06:	Eagle 450TX Terminal Server Flash Rel. .	(C00)
ACD07:	AlphaFAX 2.0 PR10/99	(B00)
ACD08:	AlphaTCP 1.5A PR08/2002	(P00)
ACD09:	AlphaWRITE 1.2a PR06/2000	(D00)
ACD10:	AlphaWRITE 2.2 PR06/2000	(U00)
ACD11:	AlphaCALC 2.0 PR4/99	(L00)
ACD12:	ESP 2.2 PR10/99	(E00)
ACD13:	AlphaNET 2.4 PR10/99	(K00)
ACD14:	OS/EXEC 1.0	(A00)
ACD15:	VersiCOMM-Plus 3.1 PR08/2002	(A05)
ACD16:	Appointment Scheduler 3.5	(A00)
ACD17:	AlphaRJE 4.0 PR10/96	(E00)
ACD18:	InSight/am Toolkit 2.0 AMOS	(A00)
ACD19:	UPS Monitor Software V1.3(178)	(H00)
ACD20:	AlphaMAIL 1.2B PR10/99	(B00)
ACD21:	AlphaLAN++ 8.0 (Alpha Side) PR08/02	(B00)
ACD22:	MULTI 2.1 PR4/99	(L00)
ACD23:	Filer 1.4A (ISAM)	(A00)
ACD24:	Filer 2.0 (ISAM+)	(A00)
ACD25:	VPSearch 1.6 PR8/93	(D00)
ACD26:	AcuCOBOL-85 2.3B	(E00)
ACD27:	AlphaC 2.0 (Volume 1 of 2) PR12/97	(B00)
ACD28:	AlphaC 2.0 (Volume 2 of 2) PR12/97	(B00)
ACD29:	Soft Machines Products	(CD12)
ACD30:	Starr Accounting 4.10 Vol #1	(4.10-#1)
ACD31:	Starr Accounting 4.10 Vol #2	(4.10-#2)
ACD32:	Metropolis 7.5 (Y2K Version) PR08/2002	(7.5)
ACD33:	DART Release (UNSUPPORTED) PR10/99	(JAJIV)
ACD34:	Unsupported Software PR08/2002	(FREE)
ACD35:	AMUS Network Library (1 of 3)	(A00)
ACD36:	AMUS Network Library (2 of 3)	(A00)
ACD37:	AMUS Network Library (3 of 3)	(A00)
ACD38:	Miscellaneous Software Products	(A00)
	Automatic Reboot Box	(AUTRST.LIT)
	EMAIL Version for sending HTML pages	(EMAILH.LIT)
	Mini Task Manager	(BKG.LIT)
ACD39:	SuperVUE 3.1H PR01/2000	(A00)

How to Use the AlphaCD

USING THE CD FROM AMOS

If your AMOS computer has a CD-ROM drive permanently attached, follow these steps:

1. Type **ACD/U** RETURN to unmount the old CD.
2. Remove the CD from the drive.
3. Insert the new CD into the drive.
4. Type **ACD** RETURN to mount the new CD.

If you need to temporarily attach a CD-ROM drive to the computer (it *must* be a SCSI CD-ROM), follow these steps:

1. Type **SCSI** RETURN to see what SCSI IDs are available on your computer.
2. Follow the instructions for your CD-ROM drive to set the drive's SCSI ID to an available ID.
3. Make sure no one is using the computer and power it down following the instructions in your *Owner's Manual*.
4. Attach the CD-ROM drive to the external SCSI connector or an available connector on an external SCSI cable. Be sure not to exceed the allowed length of the physical SCI bus. This is especially important on the Wide SCSI-2 bus.

Be sure the SCSI bus is properly terminated. If you are adding the CD-ROM at the end of the bus, this means putting the terminator in one of the SCSI connectors on the CD-ROM.

5. Turn on power to the CD-ROM drive and insert the AlphaCD, then power up the computer.
6. Type **ACD** RETURN to mount the CD.



These instructions are different than those with earlier versions of the AlphaCD. While the earlier instructions worked in most configurations, plugging the CD-ROM drive into the SCSI cable with the computer on could damage either the CD-ROM drive or the computer itself. This is especially true with newer, high-performance computers. Therefore, ***we do not recommend*** attaching the CD-ROM drive, or any peripheral device, while there is power on the SCSI bus.

For instructions on modifying your system initialization file so the CD-ROM drive is always accessible and can be read by any user, please see the *System Operator's Guide to the System Initialization Command File*, DSO-00002-00, Rev. 02 or later. For more information on the ACD command, please see the *AMOS System Commands Reference Manual*, DSO-00043-00, Rev. 04 or later.

Disconnecting the CD-ROM

To remove the CD-ROM from the computer after you're finished using it, you can type **ACD/U** RETURN to unmount the CD, then take the CD out of the drive. To remove the drive from the SCSI cable, power the computer down, detach the drive, then turn the computer back on. ***We do not recommend*** removing the CD-ROM drive, or any peripheral, from the SCSI bus while power is applied to the bus.

After removing the CD-ROM, be sure to replace the external SCSI terminator in the external connector on the computer back panel or in the SCSI connector on the last external device.

USING THE CD FROM DOS OR WINDOWS

You can access the information in the DOS partition of the AlphaCD as you would any other DOS/Windows CD—just place the CD in your CD-ROM drive and use any command or Windows feature (such as Windows Explorer) to open or copy the files you want.