

AML Management Unit 3.10c

Release Notes

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1 Version 3.10 AMU Release Notes

This release notes covers the Version 3.10 release of the AML Management Software (AMU). If question arise about any of these notes, call theADIC/GRAU Technical Assistance Center at the appropriate number:

• 00-800-9999-3822

1.1 For Your Safety



Attention

The AMU 3.0 has processes which sends itself time controlled commands to robots. Please make sure, that nobody is inside the library, if the AMU will be started. The AMU send commands undepended of a started host software.

1.2 Requirements

The CD_ROM of this AMU version is a complete version, which does not require a previous version of AMU software. AMU 3.10 can replace all previous installed AMU versions. The following software releases are required:

Software	Version	Version for use DCI
AML/2 robot Standard Gripper	AML/2 2.20F or higher	
tower	AML/2 2.20G or higher	
parallel gripper	AML/2 2.30E or higher	AML/2 2.30G with Fix 4 or higher
AML/E robot Standard gripper	AML/E 2.20K or higher	
parallel gripper:	AML/E 2.30D or higher	AML/E Version 2.30G with Fix 4
AML/J robot	AML/J 2.40D or higher	AML/J Version 4.01
Scalar 1000	Scalar 1000 Microcode 1.01 or higher	
DAS	UNIX: DAS 1.20 OS/2: DAS 3.012	
SNI-robar	Robar V2.5 or higher (recommended Robar-SV V3.0 ^a)	
HACC/OS400	Version 2.2 or higher	
HACC/VM	Version 1.4.2 or higher	
HACC/MVS	Version 3.00 and PTF ZY30012 ^b	
TwinATL	Version S0308D20 or hig- her	

Table 1-1Software Release Rquirements

a.Support of the new AMU 3.0-Features

b.Older versions of HACC/MVS do not support Dual-AMU and AMU-Clean-Management

Other host application software version prerequisites do not apply.

1.3 System Hard- and Software

Table 1-2	Hardware- and System-Software Requirements
-----------	--

Processor	Pentium 120 (minimum)
Memory	32MB Minimum (64MB recommended) Systems having heavy load or more than two hosts connected should have 64MB)
Disk	850 MB or more
IBM OS/2	Warp 3.0 with MPTS Fixpack WR08610 or higher (for update look at the ADIC/ GRAU Service CD-ROM 3/1999 (326S00003) or ask ADIC/GRAU Techni- cal Assistance)
IBM DATABASE 2	DB/2 2.1 or higher (for updates ask ADIC/GRAU Technical Assistance)
IBM Communications Manager	if necessary: CM/2 1.11 or higher
IBM TCP/IP	if necessary: OS/2 WARP CONNECT with TCP/IP support
Dataswitch (only AML/2 and AML/E with Dual AMU)	Automatic Data Switch The Manual Data Switch, previous used for Backup AMU will not longer suppor- ted on AML/2 and AML/E.

1.4 Updates

Updates of any of these products should be performed by authorized and trained personnel.

Update from AMU 2.00 and earlier

The update of AMU 2.00 to AMU 3.02 should be performed by authorized and trained personnel.

Update from AMU 2.20,AMU 2.30 or AMU 2.40 or AMU 3.02

If the correct prerequisites have already been installed, an update to AMU 3.02 may be performed by trained customer personnel.

2 AMU Installation Program

2.1 Installation

Perform the following steps to install the AMU version 3.10 :

- Step 1Check the correct level of your system software with the command syslevel (MPTS, DB/2)AMU 3.02 and higher does not work with a older Database
Manager and without the MPTS Fixpack WR08610)
- **Step 2** If you install an update stop the current processing. Run shutdown AMU. If you run an initial installation, begin with step 5.
- **Step 3** Open an OS/2 window.
- **Step 4** Insert the AMU-Software CD-ROM and change in the installation directory
- Step 5 rename the startup.cmd e.g. ren startup.cmd startup.org in case of a update(renamed the startup.cmd). For new installation call direct the program Install
- **Step 6** Restart the computer (shutdown and boot).
- **Step 7** Insert the first diskette of AMU Software into the diskette drive or the CD-ROM in the CD-ROM drive.

Information

Do not interrupt the installation process. This may lead to undefined conditions and problems with the database.

Step 8 Open an OS/2 window and change to the drive or directory, where your AMU software is located e.g.

C:> e:<Enter> E:> cd amu310

Step 9 Enter in this directory

E:\AMU310> install

Step 10 Select the installation options

```
INSTALLATION UTILITY
AMU - VERSION 3.10C
ADIC/GRAU Storage Systems
1 = New Installation of AML Management Software
(Installation without backup of an older Version)
2 = AMU Update from AMU *1) to 3.10C
3 = Deinstallation (Rollback) of a previously installed AMU 3.10C
4 = End
Select an Option:
```

*1) Option 2 is for any kind of AMU software update (AMU 2.40x, AMU 3.0x, AMU3.10x). The next selections are only available update of AMU 2.40x, 3.0x and new installation.

Step 11 Select your robot hardware.

```
INSTALLATION Robot Selection
AMU - VERSION 3.10C
1 = Installation for AML/2, AML/E and AML/J
(AML/2 without IBM-RIC adapter)
2 = Installation for AML/2 with Quadron Software for RIC adapter
3 = Installation for Scalar 1000
Select an Option:
```

Step 12 Select your optional moduls

```
I N S T A L L A T I O N - Optional modul selection
AMU - V E R S I O N 3.10C
Please select the moduls which you want start with this AMU
1 = Installation without additional moduls
2 = Installation with Dismount Manager (DIM)
3 = Installation with Clean Manager (CLM) and DIM
Select an Option:
```

Step 13 Select your DAS-Option

```
I N S T A L L A T I O N - Option DAS
AMU - V E R S I O N 3.10C
Please select 'Y' if you want install a AMU with DAS or 'N' for
installation AMU without DAS
Press Y or N:
```

Step 14 Select the Drive Control Interface Option

```
I N S T A L L A T I O N - Drive Control Inerface
AMU - V E R S I O N 3.10C
Please select 'Y' if you want install the Drive Control Inerface
or 'N' for installation without DCI
DCI is necessary for usage of DLT Low Profile drives
Press Y or N:
```

Step 15 Confirm the selected configuration, when you will ask.

Step 16 Login with AMUADMIN when prompted to log on.



Warning

Please do not interrupt the installation process.

The following steps only apply to systems with a second harddisk (AML controller).

Step 17 Terminate OS/2 and restart the computer.

Step 18 Wait until the following appears on the top left corner on the monitor: ■ OS/2 Step 19 Press keys <Alt>+<F1>

RECOVERY CHOICES

Select the system configuration file to be used, or enter the option correponding to the archive desired. ESC - Continue the boot process using $\CONFIG.SYS$ without changes - Go to command line, (no files replaced, used orginal CONFIG.SYS) С 77 - Reset primary video display to VGA and reboot М - Restart the system from Maintenance Desktop (Selective Install) Choosing an archive from the list below replaces your current CONFIG.SYS, Desktop directory, and INI files with older versions. These older versions might be different from your current files. Your current files are savrd in \OS2\ARCHIVES\CURRENT. 1) Archive created 18.6.97 12.00.00 2) Archive created 18.6.97 12.10.00 3) Archive created 18.6.97 12.20.00 X) Orginal archive from INSTALL created 18.6.97 10.00.00

Step 20 Select <C> as command line.

Enter the following command:

C:> amu\hddcopy

Step 21 For Systems with VTAM Connection: Please have a look at the AMU Reference Guide and the CM/2 Documentation.

Information

After changes of the relationship between the database table coordinates and pool, the select tables must be updated. The reationsship will be changed by e.g.:

- insert of clean cartridges from Host or from the AMU
- insert or eject of scratch tapes from scratchpools.

For update run every time you have big pool table changes or the database selects are very slow the following procedure

• stop the AMU and run:

C:\amu> arcbndit

2.2 Deinstallation

During the installation, the previous AMU version, if present, was saved into backup directories. Selecting the corresponding option from the installation program menu allows to deinstall the AMU Version 3.02 and restore the previous installed AMU Version:

- **Step 1** Stop operation of the AML Management Software. (Host commands ROSO and HOLD or DAS command Robhome and DAS shutdown). Select "Shutdown AMU" from the AMU User Interface.
- **Step 2** Change the name of the file STARTUP.CMD to STAR-TUP.ORG.

C:> move startup.cmd startup.org

- **Step 3** Restart the computer (shutdown and boot).
- **Step 4** Insert the first diskette of AMU Software into the diskette drive or CD-ROM in the CD-ROM drive.
- **Step 5** Open an OS/2 window and change to install drive (e.g A:).
- **Step 6** Type "Install" and press <ENTER>.

Step 7Select the deinstallation option from the installation menu.Wait until the deinstallation process completes.

3 Changes in AMU 3.10C

Table 3-1 Changes in the changed modules for version 3.10c

Module	Explanation of Changes
amuconst.rc	modify the version number
amuconst.ini	
ArcSQLe.dll	(+ ArcSQLe.BND, ArcSQLeN.BND, ArcBSQL.BND)
-	Prevent the error: 'normal' termination of the ARC pro-
	cess
Art.exe	TrcAssign macro added, function EvtReceive is now ca
	led with the correct szReceiver parameter. These chan-
	ges should make analysis more easy.
Bud.exe	only LogWrite improved for EvtSend errors. Self trigge
	ring added, that means if the communication to the par
	ner is lost a flag is set when update requests are received
	by the 'active on error'- BUD.
	After reconnect the flag is used to start the transmission
	of database updates without an external trigger (until
	now a next command / next update was necessary to
	restart the transmission of updated database records.
Cfg.dll	default version changed to "V03.10C "
Cfg.dll,	Next try to prevent SYS 3170; our own routines should
HocPmac.dll	be called before the system exit routines are done.
Clm.exe	insert of cleaning cartridges to pre-defined slots
Chillere	skip cleaning request (internal MOCL sent by KRNP),
	when drive cleaning bit wasn't reset by a previous cle-
	aning operation; this prevents us from having a cleaning
	loop until all cleaning cartridges are wasted;
Con-	
	Currently mounted clean cartridges are shown in the
Clean.exe	correct way.
ConCont.dll	Maximum number of records (which may be stored)
<u> </u>	increased from 64 to 128 commands.
ConLog.exe	The current window position and size and the current
	fonttype and -size are stored into the os2.ini (Appl.
	AMU, keys: ConLog_Fontsize, ConLog_WinPosSize).
	During startup of the online log these values are read
	from the inifile and used for more convenience.
	Window-Pos-Size is corrected if the window was move
<u></u>	outside the visible screen.
DBconv.exe	When started with option '-d' (restore existing
	DBconv.dat file) the existance of the DBconv.dat file wa
	not checked before the database was dropped. So it wa
	possible to loose the ABBA database by a simple user
	mistake. Now DBconv stopps with an error message
	if the datafile doesn't exist.
filetr.exe	Now the configured files will saved permanent.

Module	Explanation of Changes
hoc3964.dll,	enable DTR for support of a new 8 multi-port PCI adap
hocaml2.dll	ter
HocAml2.dll	For Dual-AMU systems send received messages to RTE
	only if this isn't possible send directly to KRN (until now
	all received messages were sent directly to KRN, no rou
	ting was possible)
HocEhll.exe	fixed problem, when RTE is inactive if we can't send
	HACC request to RTE, we send directly to KRN
	added ExitList function added DosError () function to
	prevent 3170 popup window, when hocehll.exe process
	ends due to inactive 3270 presentation screen
HocScan.dll	changed open and initialization of serial communication
110000000000000000000000000000000000000	port now some trace messages are written.
HocTcpIp.dll	fixed ROBAR reconnect (no more timeout)
install.cmd	enhancement for set to ACTIVE and correct KRNLOAI
KrnLStep.dll	changed fct. KrnGetRequester a switch normal didn't work, when only one host is configured; the problem
	was, that the loop end criteria, which checks valid AMU
	requesters, was derived from KrnCfgHosts->usNumOf instead of KrnCfgAMUs->usNumOf
	Better (more expressive) LogWrites in some error cases.
	Send LOOK-Kommand direct to KrnP (do not use the
	routing via the KRN-receiving queue). Use of the newe
	constants (more expressive constants) for the option (=
77 7 7 7 7 1 111	select case) of ArcEView calls.
KrnLUtil.dll	Prevention of a double-mount situation in case of the
	following command sequences: MOVE - KEEP - MON
	(Keep and Mount same drive) INVT - KEEP - MONT
	(Keep and Mount same drive) in both case the MONT
	must wait until the KEEP ends, this was done by a query
	with KrnManageTapeDevStatus, but the function-call
	was done with the wrong coordinate. Now this function
	is called with the drive coordinate of the (possibly) nex
	cmd. An additional command sequence is triggered
	inside of KrnActMontOrKeep (KKLR = Keep, Keep,
	same drive, same robot).
	Correct answers to the ABBA1-Inventories. The part of
	generating an ABBA1-answer when no volser was
	detected (starting at line 226) is nearly new, the return
	values NO_ERROR and
	AMU_WRN_INVT_MISMATCH must be handled in
	separated parts
KrnPhys.dll	added synchronization for KRNP list access via hmtx-
	semaphore in function KrnRhoRecv() and KrnAMU-
	PRecv()

Table 3-1Changes in the changed modules for version 3.10c

Module	Explanation of Changes
KrnPmac.dll	fixed problem with PMAC register dump
	Build answer for correct command with correct return
	code. Avoid blocking of KrnP when first command is to
	a DG drive and it fails. Remember PIDDATA for com-
	mand if there is an error in KrnReadAMUPQueue called
	from KrnSendContMsg. Build answer for failed com-
	mand if KrnSendContMsg fails, not for command that
	triggered this function. New function KrnTriggerRe-
	sponseAndCommand that replaces the calls of Krn-
	BuildAMUPResponse. This function triggers the next
	RHO command by KrnSendContMsg and handels its
	errors. It also builds the answer for the requested com-
	mand by calling KrnBuildAMUPResponse.
Log.dll	A lot of trace messages added (especially for LogInit-
	ReadForce), length for strcmp corrected, so the name of
	the monitoring queue should be found during the
	second run. Length for EvtSend of the name of the new
	monitoring queue corrected (it's better to send the zero-
	terminated string).
LogView.exe	After use of pushbutton 'View' the correct tool
	(Log2Asc.exe or LogCopy.exe) is used to generate the
	logview.txt. The choice is done by the filename of the
	selected file (starting with log* indicates the use of
	Log2Asc). This is an additional feature for more conve-
D	nience.
Rte.exe	Rte should only work on commands with a minimum of
	70 characters, $AML/2$ format has 70 characters, usable
	ABBA1 format has 80 characters. On shorter commands there is the risk of an access violation.
	there is the risk of all access violation.

Table 3-1Changes in the changed modules for version 3.10c

4 Changes in Version 3.10B

 Table 4-1
 Changes in the changed modules for version 3.10b

Module	Description
KrnPmac.DLL	Changes in the synchronisation of the threads (Pro- blems with fast > 300MHz Computers). Inititialisa- tion of variables with 0. Changes in the memory management.
Bud.exe	 Changes in the Log- and Traces for better analysis for the problem of a lost of communicatin between the two AMU computers. Additional changes in the memory management.
Clm.exe	If the user increased the MaxUseCount of a drive during the started cleaning (already sended NTFY 1309) now the clm completed this cleaning to pre- vent a for ever locked drive.
FileTr.exe	GUI fields can now be entered by the Tab key.
AmuConst.ini AmuConst.rc	ADS icon was missing because a value DTYP NUMOF was not correct.
ConArc.DLL	Check boxes now only enabled for devices from type tower
ConEdVol.DLL	For Update all in Edit Volser Range, now the field Owner must be filled with values 1-3.
ArcBase.DLL	Additional check of the COwner, modification only to 1,2 or 3 allowed.
KrnPhys.DLL	access to the request table now with a semaphore.
cfg.dll	CAN address for DCI changed to 2 digits, additional PROC KRNLOAD

5 Changes in Version 3.10a

Table 5-1	Changes in the changed modules for version 3.10a
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Module	Description
KrnUtil.DLL	Krn Trap after a negative answer for a not longer necessary KEEP (rc=1094 or N203) changes of the logwrites for **kernel** state mis- match
ConTrc.DLL	Write/Formate trace produced an error message
KrnPMAC.DLL	Teach with option 1P has produced a trap, because of a to small buffer
HocEHLL.exe	Trap if the communication session is inactive
KrnPhys.dll	Drive are not able to operate if the drive name is higher then 99 (Coordinate not found in KrnRefPt)
KrnP.exe	corrected exit list
DBconv.exe	not valid values in the column VTYPE will be repla- ced with U instead of X
AMU.msg	changed Logwrites for BUD (remove the wrong %)
AmuConst.ini	additional Drive M8100 (Diana-4)
HOCScan.DLL	Correction in the protocol to the scanner communi- cation (Barcode reading with fast AML controller)

Configuration Changes

With AMU 3.10a will supported the new drive M8100 from Fujitsu (Diana-4) for the media type 3590 (Magstar). For using of the drive, you need the robot code 4.00 or higher for AML/J and 2.30G for AML/2 and AML/E. The new drive has the AMU type 'DZ'.

6 Changes in Version 3.10

6.1 Drive Control Interface

AMU 3.10 can be configured with a communication line to the Drive Control Interface (CAN-Bus) for

- Check the drive state
- Check Drive Clean requirements
- Determine time for drive dismount by the robot

6.2 Backup Deamon

AMU 3.10 will be distributed with a new BUD for a more safety control of the database on the Dual-AMU. New Features are:

- No more updates possible from a passive to a active AMU
- In case of a missing coordinate, the BUD send now futher updates to the other coordinates.

6.3 Configuration

For the DCI create the new Interface type ID (DCI-SOTEC) for configure CAN address and the DCI port.

Name :	104	
Description :	DCI1	
Туре :	ID - DCI SOTEC	
CAN - Addr		
Drive port D	G04 1	
Drive port D	G05 2	
Drive port D	G06 3	
Drive port D	G07 4	
Drive port D	G08 <mark>5</mark>	
Drive port D	G09 6	ОК
		Cancel

For the Host a new configuration field for Insert- and Eject-ranges for Default using, if the Host does not send a Insert-or Rject area in the command.

For the AMU to AMU communication with TCP/IP changed the configuration to reduce the configuration to only 2 hostnames and 2 ports (automatic duplication for the second AMU communication ICON)

6.4 File Transfer

New Graphical Interface in the Service for transfer configuration files from one to the other PC with the FTP (free preselection of files and target PC)

7 Detailed AMU process changes

7.1 ARC

• new querry for number of dirty records (used for switch command)

7.2 ART, LOG, TRC

no changes

7.3 BUD

complete new

7.4 CON

- ConConf changes for DCI
 - line from AMU to drive container with configuration Icon
 In Host configuration default Logical Ranges, if the host send
 - In Host configuration default Logical Ranges, if the host send insert/ejects without a range
 In Menu Service replaced the BUD Control with Dual-AMU Service
- In Menu Service replaced the BUD Control with Dual-AMU Service with File-Transfer, Activate this AMU
- Allowed the Configuration for no cyclic drive cleaning

7.5 CLM

• support of the Clean command from DCI

7.6 DIM

no changes

7.7 HOC

• Changes for Dual-AMU configuration

7.8 KRN-L

- in case of a krn state mimatch, autorecovery
- · new internal status command for drive cleaning

- enhancement in the switch modul for the normal switch
- support of the new separat process KRN-P
- support of the new BUD

7.9 KRN-P

- process separated
- enhancement for Drive control CAN commands to the DCI, new reco-

very commands to the robot for operate the handle on the DLT drive

7.10 RFM

no changes

7.11 RTE

• free memory before exit

7.12 PMMAINT

• enhancement of the preparing of the configuration

7.13 CFG

Code for media type in AMU	Media Type
DG	Drive DLT (Low Profile)
ID	DCI Communication

8 Addressed Tickets

8.1 AMU 3.10C

Table 8-1Solved problems in AMU 3.10C

Ticket number	Problem
ET0000025079	wrong status returned for HACC/MVS com- mand INC and INV
ET0000031435	Backup from RFM menu does not work
ET0000035284	TCP/IP Communication problems
ET0000035904	SYS3175 during save the configuration
ET0000036288	3270 communication problems without RTE
ET0000037043	Insert Cleaning cartridges to a predefined posi- tion in the AML
ET0000037074	TCP/IP Communication to ROBAR
ET0000040136	Installation of AMU with BUD
ET0000040136	Installation of AMU with BUD
ET0000041574	Online Log is hanging up
ET0000044344	SYS 3170 bei HOC EHLL Communication
ET0000045397	Display of Online Log, if moved to the outside of monitor
ET0000046169	Cleaning DLT7000 endless loop

8.2 AMU 3.10B

Table 8-2Solved problems in AMU 3.10B

Ticket number	Problem
ET0000036640 ET0000031062	KRN Tap SYS 3175
ET0000036863	Problems with configuration changes and lok- ked drives

Ticket number	Problem
ET0000036525	Problems with wrong COwner in the database (Owner = 0)
ET0000038039	interne Problems with the command list access, which produced a complete system stop

Table 8-2Solved problems in AMU 3.10B

8.3 AMU 3.10a

Table 8-3Solved problems in AMU 3.10a

Ticket number	Problem
ET0000033419	KRN-Trap direct after a KEEP which is not lon- ger necessary (drive is already empty)
ET0000033919	Failure message during the format trace direct on a floppy drive (drive a:\)
ET0000033920	Teach with the option 1P produced a Trap
ET0000034028	Trap if the Host communication session not active
ET0000034432	Drive with names about D99 will not found in the teach point file

8.4 AMU 3.10

Table 8-4	Solved problems in AMU 3.10
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Ticket number	Problem
ET0000030906	Enhancement of Logwrite for the FLIP com- mand
ET0000033088	Kernel State mismatch produced a stop of the system
ET0000030878	sort files in the View Log files dialog
ET0000031062	Prevent the system failure SYS3170
ET0000015086	Move to the second problembox in a AML/J
GR000002985	Problems with the file transfer of the AMU- CONF.INI file to the DUAL-AMU

9 Known Bugs and Work Arounds

Ticket number	Problem	Workaround
19990505_3	Rho File Manager starts KRN without any options (Problem with DAS or Dual- AMU)	After using RFM, restarts the AMU (shutdown AMU, call AmuStart.cmd)
ET0000025079	The command INVT in the ABBA/1 format returned for coordinates with ejected vol- ser FREI00 and 0L instead of the volser and *E	Use the command ULC (HACC/MVS command ACC to get informations about the coordinate)
ET0000031435	The function BACKUP of the RFM does not work.	Use the command receive files from rho to make a bak- kup of the controller micro- code of AML/2 and AML/E
GR000004295	On AML/2 twin systems the pass trough function does not work	Insert the cartrides always on the robot, where the drive is located for the mount
GR000002878	AMU-Manual Mode also for AML/J	Configure the robot type R0 (AML/2)

Table 9-1Known Bugs and Work arrounds

Ticket number	Problem	Workaround
SNS007	EJ(T) support for volume mountable from Insert area The AMU 3.0 offers the direct mounting of cartridges from a EIF position or an HICAP door. It is currently not possible to issue an EJ or EJT command for such cart- ridges. This can cause trou- bles for the applications, that usually do not know whether a cartridge is in such a posi- tion or not. This error will be corrected in the next AMU release.	The consequence in BS2000 is that the MAREN statements //EXPORT-VOLUME and //RETURN-VOLUME will be rejected for volumes that are mountable from an EIF or an HICAP door. Procedu- res using this statement will go to error. Waiting for the AMU correction, - the removal of such volu- mes from the BS2000 MAREN catalogue can be done by a manual removal from the EIF or HICAP door (i.e without any //EXPORT- VOLUME //RETURN- VOLUME on BS2000). - it is still possible to insert the cartridges into the robot with IN before using them for mounting. - the use of the MAREN statements //EXPORT- VOLUME and //RETURN- VOLUME on BS2000 is for- bidden for volumes in the robot if the volumes are not explicitely inserted with IN.
SNS021	Commands for drives during a AMU generated drive cle- aning will be canceled by AMU.	 For compatibility with ROBAR, do not use AMU drive cleaning for drive used by ROBAR. Set in DAS the option no_avc

Table 9-1Known Bugs	s and Work arrounds
---------------------	---------------------

10 Example of Start Scripts

10.1 Startup.cmd

```
startcm
cmwait -w 600
cd amu
start AmuStart
start nnlink
```

10.2 c:\AMU\AmuStart.cmd

@REM
<pre>@REM Filename: AmuStart.cmd</pre>
<pre>@REM Description: Start Script for the AMU modules</pre>
@REM
@REM [cd can
<pre>@REM DL Download binaries to CAN-controller</pre>
@REM cd]
<pre>@REM start /C /min "AMU Kernel" krn [/S] [/R] [/B]</pre>
<pre>@REM Options: /S AMU with a DAS</pre>
<pre>@REM /R Dual AMU (AMU router is running)</pre>
@REM /B Dual AMU (AMU Backup Deamon is running)
@REM [start /C /min "AMU Router" rte] Dual-AMU with router
@REM [start /C /min "AMU Backup Deamon" bud] Dual-AMU with Backup Deamon
<pre>@REM start con [/L] Option: /L automatic start of Online Log</pre>
@REM
cd can
DL
cd
start /C /min "AMU Kernel" krn /S /R /B
start /C /min "AMU Router" rte
start /C /min "AMU Backup Deamon" bud start con /L
exit.
CALL