The ADIC
Distributed AML Server

Interfacing Guide for Windows 95/NT

Advanced Digital Information Corp

Copyright Notice
© *Copyright* adic *1999*

The information contained in this document is subject to change without notice.

This document contains proprietary information which is protected by copyright. All rights are reserved. No part of this document may be photocopied, reproduced, or translated to another language without prior written consent of adic.
adic shall not be liable for errors contained herein or for incidental or consequential damages (including lost profits) in connection with the furnishing, performance or use of this material whether based on warranty, contract, or other legal theory.

All trademarks are property of their respective owners.

Copyright Notice (Europe)
© *Copyright* adic Europe*1999*

All rights reserved. No part of this document may be copied or reproduced in any form or by any means, without prior written permission of adic Europe, ZAC des Basses Auges, 1 rue Alfres de Vigny, 78112 - Fourqueux, FRANCE.

adic Europe assumes no responsibility for any errors that may appear in this document, and retains the right to make changes to these specifications and descriptions at any time, without notice.

This publication may describe designs for which patents are pending, or have been granted. By publishing this information, adic Europe conveys no license under any patent or any other right.

adic Europe makes no representation or warranty with respect to the contents of this document and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose. Further, adic Europe reserves the right to revise or change this publication without obligation on the part of adic Europe to notify any person or organization of such revision of change.

Every effort has been made to acknowledge trademarks and their owners. Trademarked names are used solely for identification or exemplary purposes, any omission are made unintentionally.

adic and adic Europe are trademarks of Advanced Digital Information Corporation.

Advanced Digital Information Corporation
Telephone: (303) 705-3900
Fax: (303) 792-2465
Customer Assistance: 1-800-827-3822
World Wide Web: http://www.adic.com

ADIC Europe
ZAC des Basses Auges
1, rue Alfred de Vigny
78112 FOURQUEUX, FRANCE
Telephone: 33.1.3087.5300
Fax: 33.1.3087.5301

Document number: 600816-A
Published: 11 June 1999

Printed in the USA

Contents

1

Introduction

Overview 1-3
Intended Audience 1-3
Organization 1-3
Associated Documents 1-4
Explanation of Symbols and Notes 1-4
Assistance 1-5
Federal Communication Commission Note 1-5

2

Product Overview

Overview 2-3
About ACI for Windows NT and Windows 95 2-3
Compatibility 2-5
Software 2-5

Drives 2-5

3

Safety

Overview 3-3
Hazard Alert Messages 3-3
Validity 3-5

4

Installation and Configuration

Overview 4-3
Installation ACI on Windows NT 4-3
Configuring DAS Client on the OS/2 PC 4-3
Configuring Windows for the ACI 4-5

5

DAS ACI

Overview 5-3
ACI for Windows 95 and Windows NT 5-3
ACI Function Conventions 5-3
aci_call 5-3
Return Values 5-4
aci_volume_state 5-5
Return Values 5-6
aci_drive_state 5-7
Return Values 5-8

DASADMIN Tool 5-9
Syntax 5-9

A

Additional Information

Overview A-3

Files on Installation Disk A-3

Media Types A-3

Index

Figures

Figure 2-1 ACI for Windows NT or Windows 95 - Integration 2-4
Figure 4-1 Example of the Copy Command 4-3
Figure 4-2 Example of Edit Process 4-4
Figure 4-3 Example of Adding a New Client to the List of DAS Clients 4-4
Figure 4-4 Example of the Set Command 4-5
Figure 5-1 aci_call 5-3
Figure 5-2 Example of a Returned Integer Errorlevel 5-5
Figure 5-3 aci_volume_state Function Call. 5-5
Figure 5-4 Example of a Returned Integer Errorlevel 5-7
Figure 5-5 aci_drive_state Function Call. 5-7
Figure 5-6 Example of a Returned Integer Errorlevel 5-9
Figure 5-7 Example of a list of all Commands Displayed with -h: 5-10

Tables

Table 3-1 Hazard Alert Message 3-3

Table 4-1 Environment Variables 4-5

Table 5-1 Parameters for the aci_call Function 5-4

Table 5-2 Parameters for the aci_volume_state Function 5-6

Table 5-3 Parameters for the aci_drive_state Function 5-8

Table A-1 Installation Disk Files A-3

Table A-2 Supported Media Types A-3

1

Introduction

Overview 1-3
Intended Audience 1-3
Organization 1-3
Associated Documents 1-4
Explanation of Symbols and Notes 1-4
Assistance 1-5
Federal Communication Commission Note 1-5

Overview

This guide contains information and instructions necessary to program an application for using the AML connectivity from Window 95 or Windows NT. The topics discussed in this chapter are:

- Overview
- Intended Audience
- Orginization
- Associated Documents
- Explanation of Symbols and Notes
- Assistance

Intended Audience

This guide is intended for Windows 95 or Windows N programmers and administrators using the ACi for Windows 95 and Windows NT.

Organization

This manual is divided into the following chapters:

Chapter 1	Introduction - Notes on the use of the manual
Chapter 2	Product Overview - Information about ACI for Windows 95 and Windows NT as well as compatibility
Chapter 3	Safety - Describes the hazard symbols, messages, safety features, and operational considerations
Chapter 4	Installation and Configuration - Information on installing ACI on a Windows NT environment, configuring DAS clients on the OS/2 PC and configuring Windows environments for the ACI
Chapter 5	DAS ACI - DAS ACI functions

Appendix A	AdditionalInformation - Information on files located on the installation disk and the mapping of the supported media type names
Index	

Associated Documents

You may wish to reference the following documents:

- DOC E00 003 AMU Installation Guide
- DOC E00 007 AMU Problem Determination Guide
- DOC E00 005 AMU Reference Guide
- 600817-A DAS Administration Guide

Explanation of Symbols and Notes

The following symbols and highlighted passages draw attention to important information.

Detailed explanations for the above symbols are provided in *Hazard Alert Messages* on page 3-3.

<1>+<2>	Press these keys simultaneously.
Italic	Headline, e.g., Chapter 3, *Safety* File name, e.g., *dasdata.ini*
Bold	Terms appearing on the operating panel Special Term, e.g., Utilities Commands with or without parameters, e.g., **INITIALIZE**
`Courier`	Command appearing on a console, e.g., `cd` Switch position, e.g., `ON`, `OFF`

Assistance

If problems cannot be solved with the aid of this document or if recommended training is desired, contact the ADIC Technical Assistance Center (ATAC).

ADIC
10949 East Peakview Avenue
Englewood, CO 80112
U.S.A.

- United States 1-800-827-3822
- Europe and Africa 00-800-9999-3822

Federal Communication Commission Note

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

To meet FCC emissions limits, properly shielded and grounded cables and connectors must be used. The user accepts responsibility for radio or television interference caused by improperly shielded or grounded cables and connectors or by unauthorized modifications or changes to the equipment. Unauthorized modifications or changes could void the user's authority to operate the equipment.

2

Product Overview

Overview 2-3

About ACI for Windows NT and Windows 95 2-3

Compatibility 2-5
Software 2-5
Drives 2-5

Overview

This chapter contains information about ACI for Windows NT and Windows 95, and compatibility.

About ACI for Windows NT and Windows 95

AML Client Interface (ACI) for Windows NT or Windows 95 is the interface between a user application on Windows NT or Windows 95 and the DAS Software from ADIC/GRAU Storage Systems. All request relating the operation of the AML can be called via the ACI on the Windows platform. The ACI automatically sends the requests via remote shell to the DAS administration tool on the OS/2 PC with the AMU Software. There is an additional administration tool (command line) for the Windows platform.
Refer to Figure 2-1 on page 2-4.

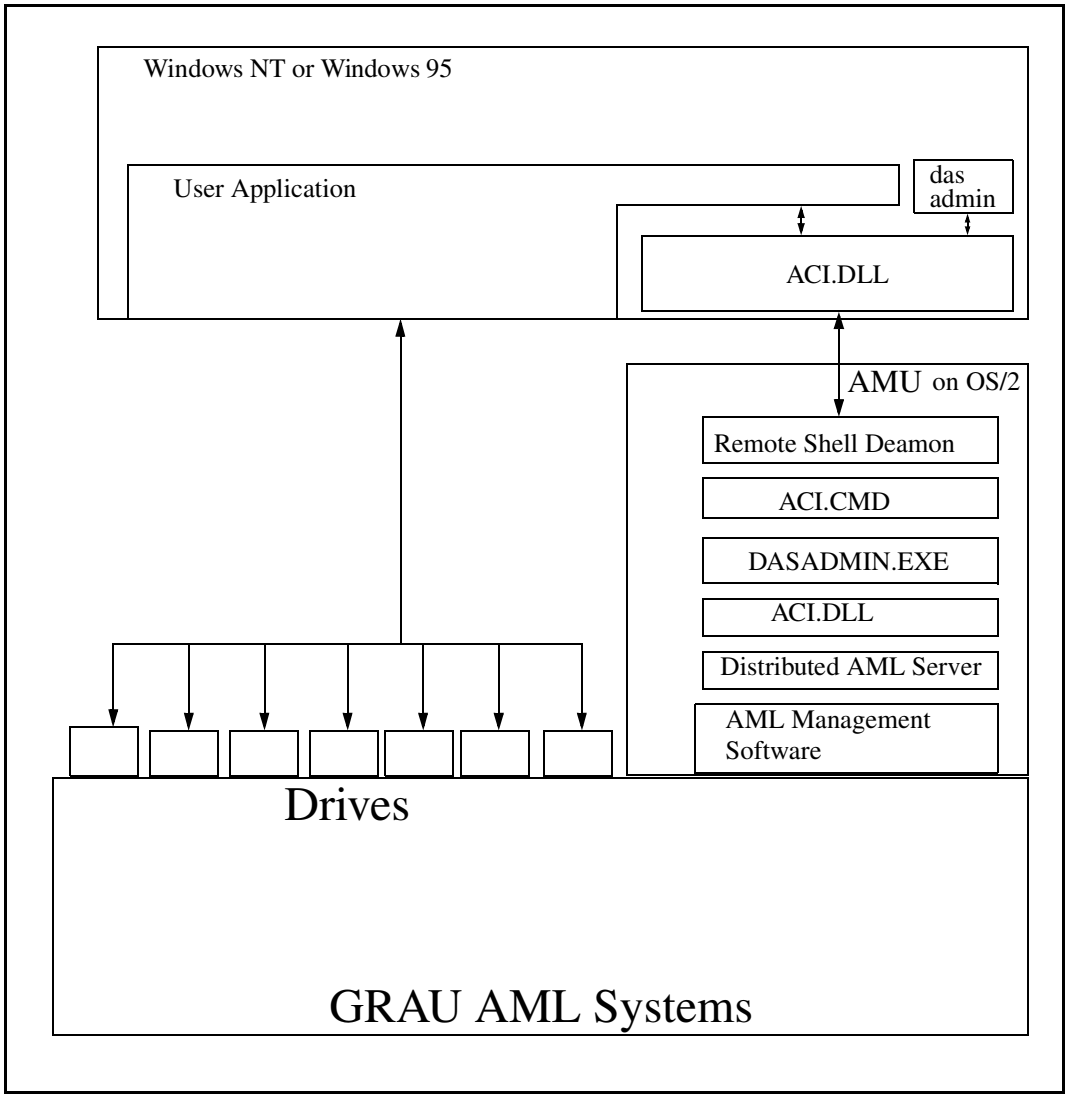

Figure 2-1 ACI for Windows NT or Windows 95 - Integration

Compatibility

This section contains information pertaining to software and drive compatibility.

Software

The program is tested with the following releases:

- Microsoft Windows NT 3.51 and 4.0
- Microsoft Windows 95
- ADIC/GRAU Storage Systems DAS 1.30

Drives

All drives which are supported by DAS 1.30 are supported by ACI for Windows NT and Windows 95

3

Safety

Overview 3-3
Hazard Alert Messages 3-3
Validity 3-5

Overview

Note
In addition to the safety instructions in this guide, local and professional safety rules apply.

Knowledge and observance of these instructions is imperative for the safe operation of the ADIC/GRAU Storage Systems AML system.

Avoid danger when maintaining and operating the machine by

- behaving in a safety-conscious manner
- acting judiciously

Hazard Alert Messages

ADIC classifies hazards in several categories. Table 3-1 shows the relationship of the symbols, signal words, actual hazards, and possible consequences.

Table 3-1 Hazard Alert Message

Symbol	Damage to ...	Signal Word	Definition	Consequence
	Persons	**DANGER**	Imminent hazardous situation	Death or serious injury
		WARNING	Potential hazardous situation	Possible death or serious injury
		CAUTION	Less hazardous situation	Possible minor or moderate injury
	Persons		Imminent hazardous electrical situation	Death or serious injury
	Persons	**Caution**	Less hazardous situation	Possible minor or moderate injury
	Material	**Attention**	Potential damaging situation	Possible damage to the product or environment

Table 3-1 Hazard Alert Message

Symbol	Damage to ...	Signal Word	Definition	Consequence
	Material	**Static Sensitive**	Potential electronic damaging situation	Possible damage to the product
		Note	Tips for operators	No hazardous or damaging consequences
			Important or useful information	No hazardous or damaging consequences

Specially emphasized paragraphs in this guide warn of danger or draw attention to important information. These paragraphs and their associated symbols include:

When used with the signal words, Danger or Warning, this symbol warns of a dangerous situation that threatens personnel with serious injury or death.
When used with the signal word Caution, the symbol warns of a hazardous situation that could result in minor injury.

The danger exists of a fatal electric shock. At places designated with this symbol, electrical current can be present. Before starting any work, always confirm that all electrical connections are free of electrical current.

Caution

This symbol indicates the presence of a laser.
Caution - use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Attention

This symbol means that specific regulations, rules, notices, and working procedures must be observed. Ignoring this symbol can lead to equipment damage or destruction or to other property damage.

STATIC SENSITIVE

This symbol indicates that the risk of equipment damage exist due to static discharge.

Note

This symbol draws attention to user tips. No dangerous or damaging consequences for personnel or property are associated with this symbol.

This symbol indicates important or useful information. No dangerous or damaging consequences for personnel or property are associated with this symbol.

Validity

These instruction are valid for ADIC/GRAU Storage Systems AML systems.

Supplementary safety provisions for any components used on the machine are not invalidated by these instructions.

Any other manufacturer's documentation forms part of the AML documentation.

4

Installation and Configuration

Overview 4-3
Installation ACI on Windows NT 4-3
Configuring DAS Client on the OS/2 PC 4-3
Configuring Windows for the ACI 4-5

Overview

This section contains information on installing ACI on a Windows NT environment, configuring DAS clients on the OS/2 PC, and configuring the Windows environment for the ACI.

Installation ACI on Windows NT

Follow the steps below to install ACI on Windows NT environments.

Step 1 Enter the "ACI for Windows 95 and Windows NT" disk into the `A:` drive.

Step 2 Copy the *ACI.DLL*, *RCMD32.DLL* and *DASADMIN.EXE* files into the Windows system directory. (On Windows NT 4.0 it is the `\winnt\system32` directory).

Step 3 Copy the *ACI.H*, *ACI.LIB* and *ACITEST.C* files into the compilers directories.

Step 4 Remove the disk from the `A:` drive

Configuring DAS Client on the OS/2 PC

Follow the steps below for configuring the DAS software clients on an OS/2 PC.

Step 1 Enter the disk in the AMU-PC

Step 2 Open an OS/2 window and enter
`C:> copy a:aci.cmd c:\os2`
See Figure 4-1.

```
C:> copy a:aci.cmd c:\os2
```

Figure 4-1 Example of the Copy Command

Step 3 Edit the *C:\DAS\ETC\CONFIG* file by entering
`C:> epm c:\das\etc\config`
See Figure 4-2.

```
C:> epm c:\das\etc\config
```

Figure 4-2 Example of Edit Process

Step 4 Add a new client to the list of DAS clients (Refer to the *DAS Administration Guide*)

client_name:	alphanumeric name for authorization
ip_adress or hostname:	TCP/IP identification of OS/2 PC (AMU)
requests:	complete
options:	(avc, dismount)
volumes:	up to 10 ranges of the media names
drives:	alphanumeric names similar to the Description in the Graphical Configuration in the AMU

See Figure 4-3 for an example of adding a new client to the list of DAS clients.

```
client  client_name = arcserve,
#       ip_address = 192.63.193.60,
        hostname = AMU,
        requests = complete,
        options = (avc,dismount),
        volumes = ((OD0001 - OD9999)),
        drives = ((LIBRARYA-LIBRARYZ))
```

Figure 4-3 Example of Adding a New Client to the List of DAS Clients

Step 5 Select TCP/IP and TCP/IP Configuration Icon to open the Window TCP/IP Configuration

Step 6 Configure and Start the Remote Shell (RSH) daemon on the AMU PC

Step 7 Configure the Security for the RSH (Add the HOST-Name of the Windows-NT machine in the list "HOST authorized to use RSH")

Step 8 Configure and start a Telnet Deamon on the AMU PC (optional for VirOp Administrator menu)

Step 9 Save the *CONFIG* file on a floppy for print out.

Step 10 Close all applications on the AMU PC and restart the PC

Configuring Windows for the ACI

The following configuration is only necessary, when working with the *dasadmin* command line tool.

Step 1 Set the necessary environment variables
See Table 4-1.

Table 4-1 Environment Variables

Environment Variable	Explanation
DAS_SERVER	TCP/IP identification of the AMU (OS/2) PC for the commands
DAS_CLIENT	Name for authorization of the command related to the configuration in the config file on the AMU (OS/2) PC
ACI_MEDIA_TYPE	Default media type for the commands

See Figure 4-4 for an example of setting the necessary environemnt varables.

```
set DAS_SERVER=AMU
set DAS_CLIENT=arcserve
set ACI MEDIA TYPE=DECDLT
```

Figure 4-4 Example of the Set Command

For additional information, refer to the *DAS Administration Guide*.

Start the environment variables on the start-up with AUTOEXEC.BAT or your own login script.

5

DAS ACI

Overview 5-3

ACI for Windows 95 and Windows NT 5-3

ACI Function Conventions 5-3
- aci_call 5-3
  - Return Values 5-4
- aci_volume_state 5-5
  - Return Values 5-6
- aci_drive_state 5-7
  - Return Values 5-8

DASADMIN Tool 5-9
- Syntax 5-9

Overview

This section lists the DAS ACI functions.

ACI for Windows 95 and Windows NT

The ACI operates synchronously. Once a request is made to the AML, the request process does not regain control until the operation has completed or has otherwise terminated. (An exception is the inventory call, which starts a physical inventory, and returns.)

The ACI for Windows NT and Windows 95 uses Remote Shell to request DAS services and to receive replies over the network.

ACI Function Conventions

All ACI function calls and ACI structures are defined in the *aci.h* header file.

aci_call

The aci_call function provides a "universal" DAS ACI function for all dasadmin commands. See Figure 5-1.

```
#include "aci.h"
int aci_call   (  char *server,
                  char *client,
                  char *mediatype,
                  char *command,
                  char *aci_msg)
```

Figure 5-1 aci_call

The `aci_call` function is used for all activities with the robot and all commands from the "dasadmin" administration tool.

Refer to Table 5-1 on page 5-4 for an explanation of the parameters for the aci_call function.

Table 5-1 Parameters for the aci_call Function

Parameters	Explanation
server	TCP/IP identification of the AMU (OS/2) PC
client	variable for authorization on the DAS, related to the config file (Refer to the *DAS Administration Guide*)
mediatype	variable for additional confirmation of the media type in the mixed media environment Refer to *media types in the appendix*
command	command to be executed Refer to DAS Admin Tool in the DAS Administration Guide for the syntax of the command)
aci_msg	variable for the returned code of the command Refer to *Return Values* on page 5-4.

The command 'dasadmin qvolsrange "" "" ...' for get a list of all volser, does not work with the ACI in the Windows NT environment.

For additional information on the aci_call function, refer to the *DAS Administration Guide*.

Return Values

After execution, the program returned an integer errorlevel

- 0: The call was successful
  Returned information is stored in the aci_msg variable
- -1: The call failed. A DAS error occurred on the OS/2 PC
  Returned error message is stored in the aci_msg variable
- -2: The call failed because the DAS software is not active
  Returned error message is stored in the aci_msg variable
- -3: The call failed because of a connection problem
- -4: The call failed because of a syntax failure or invalid parameters

Refer to Figure 5-2 on page 5-5 for an example of the aci_call function.

```
/* Print drive status of the client arcserve */

#include <windows.h>
#include <stdio.h>
#include "aci.h"
int main (void)
{
         char server [20] = "amu";
         char client [20] = "arcserve";
         char dmtype [20] = "DECDLT";
         char command[128]= "listd";
         printf( "Return Code: %d\n\n",\
         aci_call(server, client, dmtype, command,
aci_msg));
         printf("%s\n",aci_msg);
         return(0);
}
```

Figure 5-2 Example of a Returned Integer Errorlevel

aci_volume_state

The aci_volume_state function provides access to the AMU database to get information about a specific Volser (volume serial number). See Figure 5-3.

```
#include "aci.h"
int aci_volume_state(char *server,
                     char *client,
                     char *mediatype,
                     char *volume)
```

Figure 5-3 aci_volume_state Function Call

The aci_volume_state function is used for information requests about the media in the AML.

Refer to Table 5-2 on page 5-6 for an explanation of the parameters for the aci_volume_state function.

Table 5-2 Parameters for the aci_volume_state Function

Parameter	Explanation
server	TCP/Ip identification of the AMU (OS/2) PC
client	variable for authorization on the DAS, related to the config file (Refer to the *DAS Administration Guide*)
mediatypes	variable for additional confirmation of the media type in the mixed media environment Refer to *Media Types* on page A-3
volume	volser serial number for identification of the media in the library (barcode label) alphanumeric value up to 16 digits

Return Values

After execution, the program returned an integer errorlevel

- 3: Volser is not registered in the AMU database
- 2: The requested client does not have permission to access for the Media with the requested Volser
- 1: Media with the requested volser is actually in use
- 0: The media is available
- -1: The call failed. A DAS error occurred on the OS/2 PC
- -2: The call failed because the DAS software is not active
- -3: The call failed because of a connection problem
- -4: The call failed because of a syntax failure or invalid parameters

Refer to Figure 5-4 on page 5-7 for an example of a returned integer errorlevel.

```
/* Print media status of the Volser OD0815*/

#include <windows.h>
#include <stdio.h>
#include "aci.h"
int main (void)
{
         char server [20] = "amu";
         char client [20] = "client5";
         char dmtype [20] = "OD_THICK";
         char volume [16] = "OD0815";
         printf( "Return Code: %d\n\n",\
         aci_volume_state(server, client, dmtype,
volume));
         return(0);
}
```

Figure 5-4 Example of a Returned Integer Errorlevel

aci_drive_state

The aci_deive_state function provides access to the DAS software and the AMU database to get information about a specific drive. See Figure 5-5.

```
#include "aci.h"
int aci_drive_state(char *server,
                    char *client,
                    char *mediatype,
                    char *drive)
```

Figure 5-5 aci_drive_state Function Call

The aci_drive_state function is used for information requests about the drives in the AML and set the allocation *UP* to the requested client.

Refer to Table 5-3 on page 5-8 for an explanation of the parameters for the aci_drive_state function.

Table 5-3 Parameters for the aci_drive_state Function

Parameter	Explanation
server	TCP/Ip identification of the AMU (OS/2) PC
client	variable for authorization on the DAS, related to the config file (Refer to the *DAS Administration Guide*)
mediatype	variable for additional confirmation of the media type in the mixed media environment Refer to *media types in the appendix*
drive	drive name defined in the AMU configuration (Description) and confirmed in the config file. Alphanumeric value up to 9 digits (Refer to the *DAS Administration Guide*)

Return Values

After execution, the program returned an integer errorlevel

- 4: Drive is not configured in the AML
- 3: Drive is occupied (information from the AMU database)
- 2: The requested client does not has permission to access the drive named
- 1: The drive named is not allocated
- 0: The drive named is allocated and available
- -1: The call failed. A DAS error occurred on the OS/2 PC
- -2: The call failed because the DAS software is not active
- -3: The call failed because of a connection problem
- -4: The call failed because of a syntax failure or invalid parameters

Refer to Figure 5-6 on page 5-9 for an example of a returned integer errorlevel.

```
/* Print media status of the drive1*/

#include <windows.h>
#include <stdio.h>
#include "aci.h"
int main (void)
{
         char server [20] = "amu";
         char client [20] = "client2";
         char dmtype [20] = "3480";
         char drive [9] = "drive1";
         printf( "Return Code: %d\n\n",\
         aci_drive_state(server, client, dmtype,
drive));
         return(0);
}
```

Figure 5-6 Example of a Returned Integer Errorlevel

DASADMIN Tool

An administration tool for the AML is provided for diagnostic and operations with scripts.

Syntax

dasadmin *command [options] [parameter]*

A list of all commands is displayed with **dasadmin -h:**

Refer to Figure 5-7 on page 5-10 for of a list of all commands displayed with **-h:**.

```
DASADMIN - Distributed AML Server Administrator for
Windows 95/NT
COPYRIGHT (c) 1996,1997 by GRAU Storage Sytems
-------------------------------------------------------
-----------
usage......:  dasadmin <command> [options] [parameters]

commands...:  mo[unt]            dism[ount]        scr_set
            ej[ect]            in[sert]          scr_unset
            inventory          view              scr_mount
             catf              rmf              scr_get
            all[ocd]          l[ist]d           scr_info
            scop               scap              scr_insert
              show
              list               can[cel]
              shut[down]         qversion
              qvolsrange

environment:  set DAS_SERVER     = servername
              set DAS_CLIENT     = clientname
              set ACI_MEDIA_TYPE = default media type

Errorlevels: 0 -> Command execution successful.
             1 -> Command execution failed
           2 -> DAS Server is not running on AMU/DAS-PC.
             3 -> Network connection problem.
            4 -> Wrong command or invalid parameter(s).
             5 -> Missing environment variable(s)
```

Figure 5-7 Example of a list of all Commands Displayed with -h:

Refer to the *DAS Administration Guide* for a detailed explanation of all commands and returned values.

The command 'dasadmin qvolsrange "" "" ...' for get a list of all volser does not work with the ACI in the Windows NT environment.

A

Additional Information

Overview A-3
Files on Installation Disk A-3
Media Types A-3

Overview

This section contains information on files located on the installation disk and the mapping of the media type names.

Files on Installation Disk

See Table A-1 for an explanation of the files located on the installation disk.

Table A-1 Installation Disk Files

File Name	Explanation
ACI.DLL	ACI Dynamic Library Link
ACI.LIB	ACI Library to link into the code
ACI.CMD	OS/2 command script file to call the OS/2 dasadmin tool in the romote shell
RCMD32.DLL	Additional dybanic link kibrary for ACI.DLL
ACI.H	ACI header file
ACITEST.C	Easy example for an ACI program
README	Text file with the latest release and installation information

Media Types

See Table A-2 for the mapping of the mediatype names.

Table A-2 Supported Media Types

Media Type	Explanation	AMU - Types
34480	3480, 3490, and 3490E cartridges	C0
3590	3590/8590 cartridges	C2
4MM	DDS or DAT cartridges (4mm) (Difital Data Storage)	V2
8MM	D8 cartridge (8mm)	V1

Table A-2 Supported Media Types

Media Type	Explanation	AMU - Types
BETACAM	BETACAM small and large cartridges	V8 (V9)
CD	CD-ROM disk (CD-Caddy)	C6
D2	D2 small and medium cartridges	V3 (V4)
DECDLT	TK-85 Digital Linear Tape (DLT)	C1
DTF	DTF small and large cartridge	V6 (V7)
OD-THICK	Optical disk 512, MO/WORM (11mm)	O1
OD-THIN	Optical disk Reflection (9mm)	O0
SONY AIT	8 mm Tape (different lengths available)	V1
TRAVAN	TRAVAN cartridge	V5
VHS	VHS cartridges	V0

Index

- A -

ACI 5-3
aci.cmd A-3
aci.dll A-3
aci.h A-3
aci.lib A-3
aci_call 5-3
    Return values 5-4
aci_drive_state 5-7
    Return values 5-8
aci_volume_state 5-5
    Return values 5-6
acitest.c A-3
AML Client Interface 5-3
Assistance 1-5
Associated Documents 1-4

- C -

Compatibility
    Software 2-5
Configuration
    DAS 4-3
    OS/2 PC 4-3
    Windows NT 4-5

- D -

dasadmin tool 5-9
    syntax 5-9
Document Organization 1-3

- E -

Environment Variables 4-5

- F -

Federal Communication Commission Note . . 1-5
Files A-3

- H -

Hazard Alert Messages 1-5

- I -

Installation 4-3
Installation and configuration 4-3
Installation Overview 4-3
Intended Audience 1-3

- M -

Mediatypes A-3

- R -

rcmd32.dll A-3

- S -

Symbols
    Hazard Alert Messages 1-5
symbols
    formats 1-4
    information/note 1-4