SYSID Programming Interface Specification

Revision 1.2

5/6/97

Revision History

Revision	Date	By	Description
0.1	3/18/97	Tim Labatte	Initial draft - TEL
1.0	3/21/97	Nick Yoke	Changed UUID to SYSID. - NJY
1.1	4/7/97	Tim Labatte	Added specific clarification on writing IDs successfully without security keys if the ID is currently blank. - TEL
1.2	5/6/97	Nick Yoke	Adjusted per legal recommendations. - NJY

Purpose

This specification was developed to define a method for permanently writing and storing a Universally Unique ID (UUID) or any other SYSIDs. This specification uses the DMI interfaces defined in the DMI BIOS specification. For definition and details on SYSIDs and UUIDs see "DMI Support Specification II Version 2.2 or greater.

Reference

Desktop Management BIOS Specification
Version 2.0
October 16, 1995

DMI Vital Product Specification
(Administrator Version)
Version 1.0 or greater

DMI BIOS Support Interface Requirements
Version 2.3 or greater

Specification

You can write and store these SYSIDs by making a DMI BIOS call using the DMI control (54h) function.

The format of the DMI control function is:

Function	54h
Sub Function	4007h
Data	See *Data* Structure below. Must have read/write access.
Control	Bit 0 set to 1 (perform operation immediately).
dmiSelector	Provided from Function 50h call.
BiosSelector	Provided from Function 50h call.

Format of the *Data* parameter passed:

Offset	Name	Length	Value	Description
00h	*type*	BYTE	Varies	Type of data to be written. See type definition table below.
01h	*length*	BYTE	Varies	Length in bytes of the data to be written.
02h	*idData*	DWORD	Varies	FAR * to actual data to be written.
06h	*LpDmiWorkBuffer*	DWORD	Varies	FAR * to a read/write buffer at least the size of MinGPNVRWSize.
0Ah	*SecurityKey*	8 bytes	Varies	Security Key.

Data Structure Element Definitions

type **-** Specifies the type of Data (ID) to be written.

TYPE DEFINITION TABLE

Description	*type*	*length*	*idDATA*	*SecurityKey*
Write UUID	00h	Must be 16d bytes	FAR * to a 16d byte buffer containing the UUID.	Level 3 or above. The security key is NOT required if the current UUID is blank.
Write 1394 ID	01h	Must be 8d bytes	FAR * to a 8d byte buffer containing the 1394 Unique ID.	Level 3 or above. The security key is NOT required if the current 1394ID is blank.

idData - FAR pointer to a buffer containing the actual data to be written

lpDmiWorkBuffer - FAR * to a read/write buffer at least the size of *MinGPNVRWSize.* You can obtain the *MinGPNVRWSize* value by making a Get GPNV Information (Function 55h) call.

securityKey - An 8-byte security key that meets or exceeds level 3 security (System Administrator level or above).

Return Codes

- After a successful call, the BIOS returns DMI_SUCCESS to the caller.
- If an error occurred during the call, the BIOS returns DMI_BAD_PARAMETER.
- If this control subfunction is not supported, the BIOS returns DMI_INVALID_SUBFUNCTION to the caller.
- If the caller does not provide a valid security key and the ID has already been written, the BIOS returns a DMI_READ_ONLY error to the caller.