

5136-DN/5136-DNP DeviceNet Error DLL

32-Bit API Reference Guide

Windows NT / 95

Version 1.21



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--This Document Applies To --

DNERR32.DLL
for 5136-DN, 5136-DN-PCM, 5136 DN-104 and
derivative interface cards

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1 Introduction

1.1 Purpose of this Document

This document is a reference guide for the 32-bit Application Programming Interface (API) of the DeviceNet Error DLL for the 5136-DN and derivative interface cards.

1.2 The DeviceNet Error DLL

The DeviceNet Error DLL (DNERR32.DLL) allows applications using interface DLLs such as DNSCAN32.DLL to have a common error string library.

1.3 5136-DN Derivative Cards

5136-DN derivative cards are based on the SST 5136-DN interface card. They ...

- conform to the host interface memory layout of the 5136-DN
- run the same (or 100% compatible) software modules
- may not be 100% hardware compatible. Differences in configuration and control signals (I/O mapped board control registers in the 5136-DN) are handled by the Driver Interface DLL.

2 Application Organization

2.1 Introduction

The DeviceNet Error DLL (DNERR32.DLL) allows applications using interface DLLs such as DNSCAN32.DLL to use the predefined error string library.

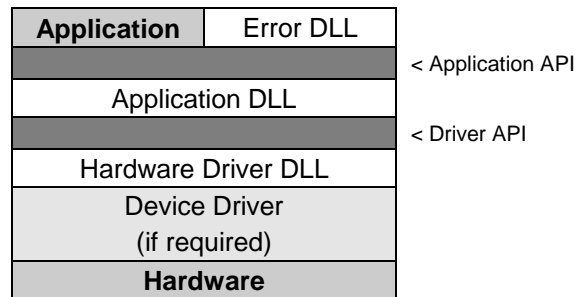
The DeviceNet Error DLL is only aware of error codes generated by the DeviceNet Application DLLs (DNSCAN32.DLL, DNCARD32.DLL, SSLOG32.DLL, SSC2A32.DLL), and the DeviceNet Hardware Driver DLL (SSDN32.DLL). The buffer passed to DNE_CommandError will contain “Unknown Error” for any invalid error codes.

2.2 Services

The DeviceNet Error DLL provides the following services:

- DLL revision information
- Error code to error string conversion for Application and Hardware Driver DLLs.

2.3 Application Stack



2.4 Application Operation

The typical sequence of events for retrieving an error string for a specific error code is:

1. Application DLL call fails.
2. Immediately call GetLastError to retrieve the error code.
3. Call DNE_CommandError to retrieve the associated error string.
4. Display the error message.

3 DeviceNet Error DLL API

3.1 Introduction

The API is the set of functions supported by the DeviceNet Error DLL.

3.1.1 DNE_CommandError

Description

Retrieve the error string for the specified error code. System error codes or undefined application error codes passed to the Error DLL will result in the buffer containing an “Unknown Error” message.

Prototype

```
BOOL WINAPI DNE_CommandError( DWORD ErrorCode, TCHAR *Buffer, DWORD Size )
```

Arguments

Argument	Description
ErrorCode	ErrorCode retrieved by GetLastError call
Buffer	Buffer to receive the error string
Size	Size of the buffer (error string is truncated to fit)

Returns

Value	Description
TRUE	Success
FALSE	Error, use GetLastError to retrieve error code

Errors

Value	Description
2000 0007 _{hex}	Null pointer

3.1.2 DNE_Version

Description

Retrieve DLL version information. The DLL version is returned in both numeric and human-readable string format.

Prototype

```
BOOL WINAPI DNE_Version( TCHAR *Buffer, WORD *Version, DWORD Size )
```

Arguments

Argument	Description
Buffer	DLL identification string buffer
Version	Minor revision (LSB) Major revision (MSB)
Size	Buffer size The Identification string is truncated to fit

Returns

Value	Description
TRUE	Success
FALSE	Error, use GetLastError to retrieve error code

Errors

Value	Description
2000 0007 _{hex}	Null pointer

Appendix A Technical Support

Before you call for help ...

Please ensure that you have the following information readily available before calling for technical support.

- Card type and serial number
- Computer's make, model and hardware configuration (other cards installed)
- Operating system type and version
- Details of the problem you are experiencing: application module type and version, target network, circumstances that caused the problem

Getting Help

Technical support is available during regular business hours (eastern standard time) or by fax, mail, or e-mail.

Technical Support

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