

# [MS-CIFS]: Common Internet File System (CIFS) Protocol Specification

Note: modified text is shown in **black on yellow**.

## 2.2.3.1 The SMB Header

**Flags2 (2 bytes):** A 16-bit field of 1-bit flags that represent various features in effect for the message. Unspecified bits are reserved and MUST be zero.

SMB_FLAGS2_NT_STATUS 0x4000	If this bit is set in a client request, the server MUST return errors as 32-bit NTSTATUS codes in the response. If it is clear, the server <b>MUST SHOULD</b> return errors in SMBSTATUS format. <b>&lt;WBN&gt;</b>  If this bit is set in the server response, the <b>Status</b> field in the header is formatted as an NTSTATUS ( <a href="#">[MS-DTYP]</a> section 2.2.34) code; else, it is in SMBSTATUS format.	NT LANMAN
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**<WBN:** Servers do not respond OS/2 error on the wire even if SMB\_FLAGS2\_NT\_STATUS is set in the client request. If negotiate dialect is DOS LanMan 2.0, DOS Lanman 2.1 or prior to LanMan 1.0, ERROR\_GEN\_FAILURE is returned. Otherwise, the corresponding DOS error is returned as following:

OS/2 Error	DOS Error
STATUS_OS2_INVALID_LEVEL	ERROR_INVALID_LEVEL
STATUS_OS2_EA_LIST_INCONSISTENT	ERROR_EA_LIST_INCONSISTENT
STATUS_OS2_NEGATIVE_SEEK	ERROR_NEGATIVE_SEEK
STATUS_OS2_NO_MORE_SIDS	ERROR_NO_MORE_SEARCH_HANDLES
STATUS_OS2_EAS_DIDNT_FIT	ERROR_EAS_DIDNT_FIT
STATUS_OS2_EA_ACCESS_DENIED	ERROR_EA_ACCESS_DENIED
STATUS_OS2_CANCEL_VIOLATION	ERROR_CANCEL_VIOLATION
STATUS_OS2_ATOMIC_LOCKS_NOT_SUPPORTED	ERROR_ATOMIC_LOCKS_NOT_SUPPORTED
STATUS_OS2_CANNOT_COPY	ERROR_CANNOT_COPY

The following is not part of the changes, and is included here as supplemental information.

From the Windows SDK winerror.h:

```
#define ERROR_NO_MORE_SEARCH_HANDLES    113L
#define ERROR_INVALID_LEVEL             124L
#define ERROR_NEGATIVE_SEEK            131L
#define ERROR_CANCEL_VIOLATION         173L
#define ERROR_ATOMIC_LOCKS_NOT_SUPPORTED 174L
#define ERROR_EA_LIST_INCONSISTENT     255L
#define ERROR_CANNOT_COPY              266L
#define ERROR_EAS_DIDNT_FIT           275L
#define ERROR_EA_ACCESS_DENIED         994L
```

From the WDK inc\ddk\cifs.h:

```
#define SRV_OS2_STATUS                    (0xC000F000L | SRV_STATUS_FACILITY_CODE)
```

```
#define STATUS_OS2_INVALID_LEVEL \
    (NTSTATUS)(SRV_OS2_STATUS | ERROR_INVALID_LEVEL)

#define STATUS_OS2_EA_LIST_INCONSISTENT \
    (NTSTATUS)(SRV_OS2_STATUS | ERROR_EA_LIST_INCONSISTENT)

#define STATUS_OS2_NEGATIVE_SEEK \
    (NTSTATUS)(SRV_OS2_STATUS | ERROR_NEGATIVE_SEEK)

#define STATUS_OS2_NO_MORE_SIDS \
    (NTSTATUS)(SRV_OS2_STATUS | ERROR_NO_MORE_SEARCH_HANDLES)

#define STATUS_OS2_EAS_DIDNT_FIT \
    (NTSTATUS)(SRV_OS2_STATUS | ERROR_EAS_DIDNT_FIT)

#define STATUS_OS2_EA_ACCESS_DENIED \
    (NTSTATUS)(SRV_OS2_STATUS | ERROR_EA_ACCESS_DENIED)

#define STATUS_OS2_CANCEL_VIOLATION \
    (NTSTATUS)(SRV_OS2_STATUS | ERROR_CANCEL_VIOLATION)

#define STATUS_OS2_ATOMIC_LOCKS_NOT_SUPPORTED \
    (NTSTATUS)(SRV_OS2_STATUS | ERROR_ATOMIC_LOCKS_NOT_SUPPORTED)

#define STATUS_OS2_CANNOT_COPY \
    (NTSTATUS)(SRV_OS2_STATUS | ERROR_CANNOT_COPY)
```