

Manual | EN

Diagnostics



TwinCAT 2 | System

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1 Foreword

1.1 Notes on the documentation

This description is only intended for the use of trained specialists in control and automation engineering who are familiar with applicable national standards.

It is essential that the documentation and the following notes and explanations are followed when installing and commissioning the components.

It is the duty of the technical personnel to use the documentation published at the respective time of each installation and commissioning.

The responsible staff must ensure that the application or use of the products described satisfy all the requirements for safety, including all the relevant laws, regulations, guidelines and standards.

Disclaimer

The documentation has been prepared with care. The products described are, however, constantly under development.

We reserve the right to revise and change the documentation at any time and without prior announcement. No claims for the modification of products that have already been supplied may be made on the basis of the data, diagrams and descriptions in this documentation.

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The EtherCAT Technology is covered, including but not limited to the following patent applications and patents:

EP1590927, EP1789857, EP1456722, EP2137893, DE102015105702
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1.2 Safety instructions

Safety regulations

Please note the following safety instructions and explanations!
Product-specific safety instructions can be found on following pages or in the areas mounting, wiring, commissioning etc.

Exclusion of liability

All the components are supplied in particular hardware and software configurations appropriate for the application. Modifications to hardware or software configurations other than those described in the documentation are not permitted, and nullify the liability of Beckhoff Automation GmbH & Co. KG.

Personnel qualification

This description is only intended for trained specialists in control, automation and drive engineering who are familiar with the applicable national standards.

Description of symbols

In this documentation the following symbols are used with an accompanying safety instruction or note. The safety instructions must be read carefully and followed without fail!

DANGER

Serious risk of injury!

Failure to follow the safety instructions associated with this symbol directly endangers the life and health of persons.

WARNING

Risk of injury!

Failure to follow the safety instructions associated with this symbol endangers the life and health of persons.

CAUTION

Personal injuries!

Failure to follow the safety instructions associated with this symbol can lead to injuries to persons.

NOTE

Damage to the environment or devices

Failure to follow the instructions associated with this symbol can lead to damage to the environment or equipment.



Tip or pointer

This symbol indicates information that contributes to better understanding.

1.3 Notes on information security

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In addition, the recommendations from Beckhoff regarding appropriate protective measures should be observed. Further information regarding information security and industrial security can be found in our <https://www.beckhoff.com/secguide>.

Beckhoff products and solutions undergo continuous further development. This also applies to security functions. In light of this continuous further development, Beckhoff expressly recommends that the products are kept up to date at all times and that updates are installed for the products once they have been made available. Using outdated or unsupported product versions can increase the risk of cyber threats.

To stay informed about information security for Beckhoff products, subscribe to the RSS feed at <https://www.beckhoff.com/secinfo>.

2 ADS Return Codes

Grouping of error codes:

Global error codes: [ADS Return Codes \[▶ 8\]](#)... (0x9811_0000 ...)

Router error codes: [ADS Return Codes \[▶ 8\]](#)... (0x9811_0500 ...)

General ADS errors: [ADS Return Codes \[▶ 9\]](#)... (0x9811_0700 ...)

RTime error codes: [ADS Return Codes \[▶ 10\]](#)... (0x9811_1000 ...)

Global error codes

Hex	Dec	HRESULT	Name	Description
0x0	0	0x98110000	ERR_NOERROR	No error.
0x1	1	0x98110001	ERR_INTERNAL	Internal error.
0x2	2	0x98110002	ERR_NORTIME	No real time.
0x3	3	0x98110003	ERR_ALLOCLOCKEDMEM	Allocation locked – memory error.
0x4	4	0x98110004	ERR_INSERTMAILBOX	Mailbox full – the ADS message could not be sent. Reducing the number of ADS messages per cycle will help.
0x5	5	0x98110005	ERR_WRONGRECEIVEHMSG	Wrong HMSG.
0x6	6	0x98110006	ERR_TARGETPORTNOTFOUND	Target port not found – ADS server is not started or is not reachable.
0x7	7	0x98110007	ERR_TARGETMACHINENOTFOUND	Target computer not found – AMS route was not found.
0x8	8	0x98110008	ERR_UNKNOWNCMDID	Unknown command ID.
0x9	9	0x98110009	ERR_BADTASKID	Invalid task ID.
0xA	10	0x9811000A	ERR_NOIO	No IO.
0xB	11	0x9811000B	ERR_UNKNOWNAMSCMD	Unknown AMS command.
0xC	12	0x9811000C	ERR_WIN32ERROR	Win32 error.
0xD	13	0x9811000D	ERR_PORTNOTCONNECTED	Port not connected.
0xE	14	0x9811000E	ERR_INVALIDAMSLENGTH	Invalid AMS length.
0xF	15	0x9811000F	ERR_INVALIDAMSNETID	Invalid AMS Net ID.
0x10	16	0x98110010	ERR_LOWINSTLEVEL	Installation level is too low –TwinCAT 2 license error.
0x11	17	0x98110011	ERR_NODEBUGINTAVAILABLE	No debugging available.
0x12	18	0x98110012	ERR_PORTDISABLED	Port disabled – TwinCAT system service not started.
0x13	19	0x98110013	ERR_PORTALREADYCONNECTED	Port already connected.
0x14	20	0x98110014	ERR_AMSSYNC_W32ERROR	AMS Sync Win32 error.
0x15	21	0x98110015	ERR_AMSSYNC_TIMEOUT	AMS Sync Timeout.
0x16	22	0x98110016	ERR_AMSSYNC_AMSError	AMS Sync error.
0x17	23	0x98110017	ERR_AMSSYNC_NOINDEXINMAP	No index map for AMS Sync available.
0x18	24	0x98110018	ERR_INVALIDAMSSPORT	Invalid AMS port.
0x19	25	0x98110019	ERR_NOMEMORY	No memory.
0x1A	26	0x9811001A	ERR_TCPSEND	TCP send error.
0x1B	27	0x9811001B	ERR_HOSTUNREACHABLE	Host unreachable.
0x1C	28	0x9811001C	ERR_INVALIDAMSFRAGMENT	Invalid AMS fragment.
0x1D	29	0x9811001D	ERR_TLSEND	TLS send error – secure ADS connection failed.
0x1E	30	0x9811001E	ERR_ACCESSDENIED	Access denied – secure ADS access denied.

Router error codes

Hex	Dec	HRESULT	Name	Description
0x500	1280	0x98110500	ROUTERERR_NOLOCKEDMEMORY	Locked memory cannot be allocated.
0x501	1281	0x98110501	ROUTERERR_RESIZEMEMORY	The router memory size could not be changed.
0x502	1282	0x98110502	ROUTERERR_MAILBOXFULL	The mailbox has reached the maximum number of possible messages.
0x503	1283	0x98110503	ROUTERERR_DEBUGBOXFULL	The Debug mailbox has reached the maximum number of possible messages.
0x504	1284	0x98110504	ROUTERERR_UNKNOWNPORTTYPE	The port type is unknown.
0x505	1285	0x98110505	ROUTERERR_NOTINITIALIZED	The router is not initialized.
0x506	1286	0x98110506	ROUTERERR_PORTALREADYINUSE	The port number is already assigned.

Hex	Dec	HRESULT	Name	Description
0x507	1287	0x98110507	ROUTERERR_NOTREGISTERED	The port is not registered.
0x508	1288	0x98110508	ROUTERERR_NOMOREQUEUES	The maximum number of ports has been reached.
0x509	1289	0x98110509	ROUTERERR_INVALIDPORT	The port is invalid.
0x50A	1290	0x9811050A	ROUTERERR_NOTACTIVATED	The router is not active.
0x50B	1291	0x9811050B	ROUTERERR_FRAGMENTBOXFULL	The mailbox has reached the maximum number for fragmented messages.
0x50C	1292	0x9811050C	ROUTERERR_FRAGMENTTIMEOUT	A fragment timeout has occurred.
0x50D	1293	0x9811050D	ROUTERERR_TOBEREMOVED	The port is removed.

General ADS error codes

Hex	Dec	HRESULT	Name	Description
0x700	1792	0x98110700	ADSERR_DEVICE_ERROR	General device error.
0x701	1793	0x98110701	ADSERR_DEVICE_SRVNOTSUPP	Service is not supported by the server.
0x702	1794	0x98110702	ADSERR_DEVICE_INVALIDGRP	Invalid index group.
0x703	1795	0x98110703	ADSERR_DEVICE_INVALIDOFFSET	Invalid index offset.
0x704	1796	0x98110704	ADSERR_DEVICE_INVALIDACCESS	Reading or writing not permitted.
0x705	1797	0x98110705	ADSERR_DEVICE_INVALIDSIZE	Parameter size not correct.
0x706	1798	0x98110706	ADSERR_DEVICE_INVALIDDATA	Invalid data values.
0x707	1799	0x98110707	ADSERR_DEVICE_NOTREADY	Device is not ready to operate.
0x708	1800	0x98110708	ADSERR_DEVICE_BUSY	Device is busy.
0x709	1801	0x98110709	ADSERR_DEVICE_INVALIDCONTEXT	Invalid operating system context. This can result from use of ADS blocks in different tasks. It may be possible to resolve this through multitasking synchronization in the PLC.
0x70A	1802	0x9811070A	ADSERR_DEVICE_NOMEMORY	Insufficient memory.
0x70B	1803	0x9811070B	ADSERR_DEVICE_INVALIDPARM	Invalid parameter values.
0x70C	1804	0x9811070C	ADSERR_DEVICE_NOTFOUND	Not found (files, ...).
0x70D	1805	0x9811070D	ADSERR_DEVICE_SYNTAX	Syntax error in file or command.
0x70E	1806	0x9811070E	ADSERR_DEVICE_INCOMPATIBLE	Objects do not match.
0x70F	1807	0x9811070F	ADSERR_DEVICE_EXISTS	Object already exists.
0x710	1808	0x98110710	ADSERR_DEVICE_SYMBOLNOTFOUND	Symbol not found.
0x711	1809	0x98110711	ADSERR_DEVICE_SYMBOLVERSIONINVALID	Invalid symbol version. This can occur due to an online change. Create a new handle.
0x712	1810	0x98110712	ADSERR_DEVICE_INVALIDSTATE	Device (server) is in invalid state.
0x713	1811	0x98110713	ADSERR_DEVICE_TRANSMODENOTSUPP	AdsTransMode not supported.
0x714	1812	0x98110714	ADSERR_DEVICE_NOTIFYHNDINVALID	Notification handle is invalid.
0x715	1813	0x98110715	ADSERR_DEVICE_CLIENTUNKNOWN	Notification client not registered.
0x716	1814	0x98110716	ADSERR_DEVICE_NOMOREHDL	No further handle available.
0x717	1815	0x98110717	ADSERR_DEVICE_INVALIDWATCHSIZE	Notification size too large.
0x718	1816	0x98110718	ADSERR_DEVICE_NOTINIT	Device not initialized.
0x719	1817	0x98110719	ADSERR_DEVICE_TIMEOUT	Device has a timeout.
0x71A	1818	0x9811071A	ADSERR_DEVICE_NOINTERFACE	Interface query failed.
0x71B	1819	0x9811071B	ADSERR_DEVICE_INVALIDINTERFACE	Wrong interface requested.
0x71C	1820	0x9811071C	ADSERR_DEVICE_INVALIDCLSID	Class ID is invalid.
0x71D	1821	0x9811071D	ADSERR_DEVICE_INVALIDOBJID	Object ID is invalid.
0x71E	1822	0x9811071E	ADSERR_DEVICE_PENDING	Request pending.
0x71F	1823	0x9811071F	ADSERR_DEVICE_ABORTED	Request is aborted.
0x720	1824	0x98110720	ADSERR_DEVICE_WARNING	Signal warning.
0x721	1825	0x98110721	ADSERR_DEVICE_INVALIDARRAYIDX	Invalid array index.
0x722	1826	0x98110722	ADSERR_DEVICE_SYMBOLNOTACTIVE	Symbol not active.
0x723	1827	0x98110723	ADSERR_DEVICE_ACCESSDENIED	Access denied.
0x724	1828	0x98110724	ADSERR_DEVICE_LICENSENOTFOUND	Missing license.
0x725	1829	0x98110725	ADSERR_DEVICE_LICENSEEXPIRED	License expired.
0x726	1830	0x98110726	ADSERR_DEVICE_LICENSEEXCEEDED	License exceeded.
0x727	1831	0x98110727	ADSERR_DEVICE_LICENSEINVALID	Invalid license.
0x728	1832	0x98110728	ADSERR_DEVICE_LICENSESYSTEMID	License problem: System ID is invalid.
0x729	1833	0x98110729	ADSERR_DEVICE_LICENSENOTIMELIMIT	License not limited in time.
0x72A	1834	0x9811072A	ADSERR_DEVICE_LICENSEFUTUREISSUE	Licensing problem: time in the future.
0x72B	1835	0x9811072B	ADSERR_DEVICE_LICENSESETIMETOLONG	License period too long.

Hex	Dec	HRESULT	Name	Description
0x72C	1836	0x9811072C	ADSERR_DEVICE_EXCEPTION	Exception at system startup.
0x72D	1837	0x9811072D	ADSERR_DEVICE_LICENSEDUPLICATED	License file read twice.
0x72E	1838	0x9811072E	ADSERR_DEVICE_SIGNATUREINVALID	Invalid signature.
0x72F	1839	0x9811072F	ADSERR_DEVICE_CERTIFICATEINVALID	Invalid certificate.
0x730	1840	0x98110730	ADSERR_DEVICE_LICENSEOEMNOTFOUND	Public key not known from OEM.
0x731	1841	0x98110731	ADSERR_DEVICE_LICENSERESTRICTED	License not valid for this system ID.
0x732	1842	0x98110732	ADSERR_DEVICE_LICENSEDEMODENIED	Demo license prohibited.
0x733	1843	0x98110733	ADSERR_DEVICE_INVALIDFNID	Invalid function ID.
0x734	1844	0x98110734	ADSERR_DEVICE_OUTOFRANGE	Outside the valid range.
0x735	1845	0x98110735	ADSERR_DEVICE_INVALIDALIGNMENT	Invalid alignment.
0x736	1846	0x98110736	ADSERR_DEVICE_LICENSEPLATFORM	Invalid platform level.
0x737	1847	0x98110737	ADSERR_DEVICE_FORWARD_PL	Context – forward to passive level.
0x738	1848	0x98110738	ADSERR_DEVICE_FORWARD_DL	Context – forward to dispatch level.
0x739	1849	0x98110739	ADSERR_DEVICE_FORWARD_RT	Context – forward to real time.
0x740	1856	0x98110740	ADSERR_CLIENT_ERROR	Client error.
0x741	1857	0x98110741	ADSERR_CLIENT_INVALIDPARG	Service contains an invalid parameter.
0x742	1858	0x98110742	ADSERR_CLIENT_LISTEMPTY	Polling list is empty.
0x743	1859	0x98110743	ADSERR_CLIENT_VARUSED	Var connection already in use.
0x744	1860	0x98110744	ADSERR_CLIENT_DUPLINVOKEID	The called ID is already in use.
0x745	1861	0x98110745	ADSERR_CLIENT_SYNCSTIMEOUT	Timeout has occurred – the remote terminal is not responding in the specified ADS timeout. The route setting of the remote terminal may be configured incorrectly.
0x746	1862	0x98110746	ADSERR_CLIENT_W32ERROR	Error in Win32 subsystem.
0x747	1863	0x98110747	ADSERR_CLIENT_TIMEOUTINVALID	Invalid client timeout value.
0x748	1864	0x98110748	ADSERR_CLIENT_PORTNOTOPEN	Port not open.
0x749	1865	0x98110749	ADSERR_CLIENT_NOAMSADDR	No AMS address.
0x750	1872	0x98110750	ADSERR_CLIENT_SYNCINTERNAL	Internal error in Ads sync.
0x751	1873	0x98110751	ADSERR_CLIENT_ADDHASH	Hash table overflow.
0x752	1874	0x98110752	ADSERR_CLIENT_REMOVEHASH	Key not found in the table.
0x753	1875	0x98110753	ADSERR_CLIENT_NOMORESVM	No symbols in the cache.
0x754	1876	0x98110754	ADSERR_CLIENT_SYNCRESINVALID	Invalid response received.
0x755	1877	0x98110755	ADSERR_CLIENT_SYNCPORTLOCKED	Sync Port is locked.

RTime error codes

Hex	Dec	HRESULT	Name	Description
0x1000	4096	0x98111000	RTERR_INTERNAL	Internal error in the real-time system.
0x1001	4097	0x98111001	RTERR_BADTIMERPERIODS	Timer value is not valid.
0x1002	4098	0x98111002	RTERR_INVALIDTASKPTR	Task pointer has the invalid value 0 (zero).
0x1003	4099	0x98111003	RTERR_INVALIDSTACKPTR	Stack pointer has the invalid value 0 (zero).
0x1004	4100	0x98111004	RTERR_PRIOEXISTS	The request task priority is already assigned.
0x1005	4101	0x98111005	RTERR_NOMORETCB	No free TCB (Task Control Block) available. The maximum number of TCBs is 64.
0x1006	4102	0x98111006	RTERR_NOMORESEMAS	No free semaphores available. The maximum number of semaphores is 64.
0x1007	4103	0x98111007	RTERR_NOMOREQUEUES	No free space available in the queue. The maximum number of positions in the queue is 64.
0x100D	4109	0x9811100D	RTERR_EXTIRQALREADYDEF	An external synchronization interrupt is already applied.
0x100E	4110	0x9811100E	RTERR_EXTIRQNOTDEF	No external sync interrupt applied.
0x100F	4111	0x9811100F	RTERR_EXTIRQINSTALLFAILED	Application of the external synchronization interrupt has failed.
0x1010	4112	0x98111010	RTERR_IRQNOTLESSOREQUAL	Call of a service function in the wrong context
0x1017	4119	0x98111017	RTERR_VMXNOTSUPPORTED	Intel VT-x extension is not supported.
0x1018	4120	0x98111018	RTERR_VMXDISABLED	Intel VT-x extension is not enabled in the BIOS.
0x1019	4121	0x98111019	RTERR_VMXCONTROLSMISSING	Missing function in Intel VT-x extension.
0x101A	4122	0x9811101A	RTERR_VMXENABLEFAILS	Activation of Intel VT-x fails.

Specific positive HRESULT Return Codes:

HRESULT	Name	Description
0x0000_0000	S_OK	No error.
0x0000_0001	S_FALSE	No error. Example: successful processing, but with a negative or incomplete result.
0x0000_0203	S_PENDING	No error. Example: successful processing, but no result is available yet.
0x0000_0256	S_WATCHDOG_TIMEOUT	No error. Example: successful processing, but a timeout occurred.

TCP Winsock error codes

Hex	Dec	Name	Description
0x274C	10060	WSAETIMEDOUT	A connection timeout has occurred - error while establishing the connection, because the remote terminal did not respond properly after a certain period of time, or the established connection could not be maintained because the connected host did not respond.
0x274D	10061	WSAECONNREFUSED	Connection refused - no connection could be established because the target computer has explicitly rejected it. This error usually results from an attempt to connect to a service that is inactive on the external host, that is, a service for which no server application is running.
0x2751	10065	WSAEHOSTUNREACH	No route to host - a socket operation referred to an unavailable host.
More Winsock error codes: Win32 error codes [▶ 12]			

3 Win32 Error Codes

The following table provides a list of Win32 error codes.

0 [▶ 12], 100 [▶ 13], 200 [▶ 15], 1001 [▶ 16], 1100 [▶ 18], 1200 [▶ 20], 1400 [▶ 25], 1600 [▶ 26], 1800 [▶ 30], 2000 [▶ 32], 3000 [▶ 32], 5000 [▶ 35], 6000 [▶ 38], 8000 [▶ 39], 8500 [▶ 48], 9001 [▶ 51], 10004 [▶ 53], 12000 [▶ 55],

		Error	Description
decimal	Hexadecimal	Name	
0	0x00000000	ERROR_SUCCESS	The operation completed successfully.
1	0x00000001	ERROR_INVALID_FUNCTION	Incorrect function.
2	0x00000002	ERROR_FILE_NOT_FOUND	The system cannot find the file specified.
3	0x00000003	ERROR_PATH_NOT_FOUND	The system cannot find the path specified.
4	0x00000004	ERROR_TOO_MANY_OPEN_FILES	The system cannot open the file.
5	0x00000005	ERROR_ACCESS_DENIED	Access is denied.
6	0x00000006	ERROR_INVALID_HANDLE	The handle is invalid.
7	0x00000007	ERROR_ARENA_TRASHED	The storage control blocks were destroyed.
8	0x00000008	ERROR_NOT_ENOUGH_MEMORY	Not enough storage is available to process this command.
9	0x00000009	ERROR_INVALID_BLOCK	The storage control block address is invalid.
10	0x0000000A	ERROR_BAD_ENVIRONMENT	The environment is incorrect.
11	0x0000000B	ERROR_BAD_FORMAT	An attempt was made to load a program with an incorrect format.
12	0x0000000C	ERROR_INVALID_ACCESS	The access code is invalid.
13	0x0000000D	ERROR_INVALID_DATA	The data is invalid.
14	0x0000000E	ERROR_OUTOFMEMORY	Not enough storage is available to complete this operation.
15	0x0000000F	ERROR_INVALID_DRIVE	The system cannot find the drive specified.
16	0x00000010	ERROR_CURRENT_DIRECTORY	The directory cannot be removed.
17	0x00000011	ERROR_NOT_SAME_DEVICE	The system cannot move the file to a different disk drive.
18	0x00000012	ERROR_NO_MORE_FILES	There are no more files.
19	0x00000013	ERROR_WRITE_PROTECT	The media is write protected.
20	0x00000014	ERROR_BAD_UNIT	The system cannot find the device specified.
21	0x00000015	ERROR_NOT_READY	The device is not ready.
22	0x00000016	ERROR_BAD_COMMAND	The device does not recognize the command.
23	0x00000017	ERROR_CRC	Data error (cyclic redundancy check).
24	0x00000018	ERROR_BAD_LENGTH	The program issued a command but the command length is incorrect.
25	0x00000019	ERROR_SEEK	The drive cannot locate a specific area or track on the disk.
26	0x0000001A	ERROR_NOT_DOS_DISK	The specified disk or diskette cannot be accessed.
27	0x0000001B	ERROR_SECTOR_NOT_FOUND	The drive cannot find the sector requested.
28	0x0000001C	ERROR_OUT_OF_PAPER	The printer is out of paper.
29	0x0000001D	ERROR_WRITE_FAULT	The system cannot write to the specified device.
30	0x0000001E	ERROR_READ_FAULT	The system cannot read from the specified device.
31	0x0000001F	ERROR_GEN_FAILURE	A device attached to the system is not functioning.
32	0x00000020	ERROR_SHARING_VIOLATION	The process cannot access the file because it is being used by another process.
33	0x00000021	ERROR_LOCK_VIOLATION	The process cannot access the file because another process has locked a portion of the file.
34	0x00000022	ERROR_WRONG_DISK	The wrong diskette is in the drive. Insert %2 (Volume Serial Number: %3) into drive %1.
36	0x00000024	ERROR_SHARING_BUFFER_EXCEEDED	Too many files opened for sharing.
38	0x00000026	ERROR_HANDLE_EOF	Reached the end of the file.
39	0x00000027	ERROR_HANDLE_DISK_FULL	The disk is full.
50	0x00000032	ERROR_NOT_SUPPORTED	The request is not supported.
51	0x00000033	ERROR_REM_NOT_LIST	The remote computer is not available.

Error			Description
decimal	Hexadecimal	Name	
52	0x00000034	ERROR_DUP_NAME	A duplicate name exists on the network.
53	0x00000035	ERROR_BAD_NETPATH	The network path was not found.
54	0x00000036	ERROR_NETWORK_BUSY	The network is busy.
55	0x00000037	ERROR_DEV_NOT_EXIST	The specified network resource or device is no longer available.
56	0x00000038	ERROR_TOO_MANY_CMDS	The network BIOS command limit has been reached.
57	0x00000039	ERROR_ADAP_HDW_ERR	A network adapter hardware error occurred.
58	0x0000003A	ERROR_BAD_NET_RESP	The specified server cannot perform the requested operation.
59	0x0000003B	ERROR_UNEXP_NET_ERR	An unexpected network error occurred.
60	0x0000003C	ERROR_BAD_REM_ADAP	The remote adapter is not compatible.
61	0x0000003D	ERROR_PRINTQ_FULL	The printer queue is full.
62	0x0000003E	ERROR_NO_SPOOL_SPACE	Space to store the file waiting to be printed is not available on the server.
63	0x0000003F	ERROR_PRINT_CANCELLED	Your file waiting to be printed was deleted.
64	0x00000040	ERROR_NETNAME_DELETED	The specified network name is no longer available.
65	0x00000041	ERROR_NETWORK_ACCESS_DENIED	Network access is denied.
66	0x00000042	ERROR_BAD_DEV_TYPE	The network resource type is not correct.
67	0x00000043	ERROR_BAD_NET_NAME	The network name cannot be found.
68	0x00000044	ERROR_TOO_MANY_NAMES	The name limit for the local computer network adapter card was exceeded.
69	0x00000045	ERROR_TOO_MANY_SESS	The network BIOS session limit was exceeded.
70	0x00000046	ERROR_SHARING_PAUSED	The remote server has been paused or is in the process of being started.
71	0x00000047	ERROR_REQ_NOT_ACCEP	No more connections can be made to this remote computer at this time because there are already as many connections as the computer can accept.
72	0x00000048	ERROR_REDIR_PAUSED	The specified printer or disk device has been paused.
80	0x00000050	ERROR_FILE_EXISTS	The file exists.
82	0x00000052	ERROR_CANNOT_MAKE	The directory or file cannot be created.
83	0x00000053	ERROR_FAIL_I24	Fail on INT 24.
84	0x00000054	ERROR_OUT_OF_STRUCTURES	Storage to process this request is not available.
85	0x00000055	ERROR_ALREADY_ASSIGNED	The local device name is already in use.
86	0x00000056	ERROR_INVALID_PASSWORD	The specified network password is not correct.
87	0x00000057	ERROR_INVALID_PARAMETER	The parameter is incorrect.
88	0x00000058	ERROR_NET_WRITE_FAULT	A write fault occurred on the network.
89	0x00000059	ERROR_NO_PROC_SLOTS	The system cannot start another process at this time.

Error			Description
decimal	Hexadecimal	Name	
100	0x00000064	ERROR_TOO_MANY_SEMAPHORES	Cannot create another system semaphore.
101	0x00000065	ERROR_EXCL_SEM_ALREADY_OWNED	The exclusive semaphore is owned by another process.
102	0x00000066	ERROR_SEM_IS_SET	The semaphore is set and cannot be closed.
103	0x00000067	ERROR_TOO_MANY_SEM_REQUESTS	The semaphore cannot be set again.
104	0x00000068	ERROR_INVALID_AT_INTERRUPT_TIME	Cannot request exclusive semaphores at interrupt time.
105	0x00000069	ERROR_SEM_OWNER_DIED	The previous ownership of this semaphore has ended.
106	0x0000006A	ERROR_SEM_USER_LIMIT	Insert the diskette for drive %1.
107	0x0000006B	ERROR_DISK_CHANGE	The program stopped because an alternate diskette was not inserted.
108	0x0000006C	ERROR_DRIVE_LOCKED	The disk is in use or locked by another process.
109	0x0000006D	ERROR_BROKEN_PIPE	The pipe has been ended.
110	0x0000006E	ERROR_OPEN_FAILED	The system cannot open the device or file specified.

		Error	Description
decimal	Hexadecimal	Name	
111	0x0000006F	ERROR_BUFFER_OVERFLOW	The file name is too long.
112	0x00000070	ERROR_DISK_FULL	There is not enough space on the disk.
113	0x00000071	ERROR_NO_MORE_SEARCH_HANDLES	No more internal file identifiers available.
114	0x00000072	ERROR_INVALID_TARGET_HANDLE	The target internal file identifier is incorrect.
117	0x00000075	ERROR_INVALID_CATEGORY	The IOCTL call made by the application program is not correct.
118	0x00000076	ERROR_INVALID_VERIFY_SWITCH	The verify-on-write switch parameter value is not correct.
119	0x00000077	ERROR_BAD_DRIVER_LEVEL	The system does not support the command requested.
120	0x00000078	ERROR_CALL_NOT_IMPLEMENTED	This function is not supported on this system.
121	0x00000079	ERROR_SEM_TIMEOUT	The semaphore timeout period has expired.
122	0x0000007A	ERROR_INSUFFICIENT_BUFFER	The data area passed to a system call is too small.
123	0x0000007B	ERROR_INVALID_NAME	The filename, directory name, or volume label syntax is incorrect.
124	0x0000007C	ERROR_INVALID_LEVEL	The system call level is not correct.
125	0x0000007D	ERROR_NO_VOLUME_LABEL	The disk has no volume label.
126	0x0000007E	ERROR_MOD_NOT_FOUND	The specified module could not be found.
127	0x0000007F	ERROR_PROC_NOT_FOUND	The specified procedure could not be found.
128	0x00000080	ERROR_WAIT_NO_CHILDREN	There are no child processes to wait for.
129	0x00000081	ERROR_CHILD_NOT_COMPLETE	The %1 application cannot be run in Win32 mode.
130	0x00000082	ERROR_DIRECT_ACCESS_HANDLE	Attempt to use a file handle to an open disk partition for an operation other than raw disk I/O.
131	0x00000083	ERROR_NEGATIVE_SEEK	An attempt was made to move the file pointer before the beginning of the file.
132	0x00000084	ERROR_SEEK_ON_DEVICE	The file pointer cannot be set on the specified device or file.
133	0x00000085	ERROR_IS_JOIN_TARGET	A JOIN or SUBST command cannot be used for a drive that contains previously joined drives.
134	0x00000086	ERROR_IS_JOINED	An attempt was made to use a JOIN or SUBST command on a drive that has already been joined.
135	0x00000087	ERROR_IS_SUBSTED	An attempt was made to use a JOIN or SUBST command on a drive that has already been substituted.
136	0x00000088	ERROR_NOT_JOINED	The system tried to delete the JOIN of a drive that is not joined.
137	0x00000089	ERROR_NOT_SUBSTED	The system tried to delete the substitution of a drive that is not substituted.
138	0x0000008A	ERROR_JOIN_TO_JOIN	The system tried to join a drive to a directory on a joined drive.
139	0x0000008B	ERROR_SUBST_TO_SUBST	The system tried to substitute a drive to a directory on a substituted drive.
140	0x0000008C	ERROR_JOIN_TO_SUBST	The system tried to join a drive to a directory on a substituted drive.
141	0x0000008D	ERROR_SUBST_TO_JOIN	The system tried to SUBST a drive to a directory on a joined drive.
142	0x0000008E	ERROR_BUSY_DRIVE	The system cannot perform a JOIN or SUBST at this time.
143	0x0000008F	ERROR_SAME_DRIVE	The system cannot join or substitute a drive to or for a directory on the same drive.
144	0x00000090	ERROR_DIR_NOT_ROOT	The directory is not a subdirectory of the root directory.
145	0x00000091	ERROR_DIR_NOT_EMPTY	The directory is not empty.
146	0x00000092	ERROR_IS_SUBST_PATH	The path specified is being used in a substitute.
147	0x00000093	ERROR_IS_JOIN_PATH	Not enough resources are available to process this command.
148	0x00000094	ERROR_PATH_BUSY	The path specified cannot be used at this time.
149	0x00000095	ERROR_IS_SUBST_TARGET	An attempt was made to join or substitute a drive for which a directory on the drive is the target of a previous substitute.
150	0x00000096	ERROR_SYSTEM_TRACE	System trace information was not specified in your CONFIG.SYS file, or tracing is disallowed.

Error			Description
decimal	Hexadecimal	Name	
151	0x00000097	ERROR_INVALID_EVENT_COUNT	The number of specified semaphore events for DosMuxSemWait is not correct.
152	0x00000098	ERROR_TOO_MANY_MUXWAITERS	DosMuxSemWait did not execute; too many semaphores are already set.
153	0x00000099	ERROR_INVALID_LIST_FORMAT	The DosMuxSemWait list is not correct.
154	0x0000009A	ERROR_LABEL_TOO_LONG	The volume label you entered exceeds the label character limit of the target file system.
155	0x0000009B	ERROR_TOO_MANY_TCBS	Cannot create another thread.
156	0x0000009C	ERROR_SIGNAL_REFUSED	The recipient process has refused the signal.
157	0x0000009D	ERROR_DISCARDED	The segment is already discarded and cannot be locked.
158	0x0000009E	ERROR_NOT_LOCKED	The segment is already unlocked.
159	0x0000009F	ERROR_BAD_THREADID_ADDR	The address for the thread ID is not correct.
160	0x000000A0	ERROR_BAD_ARGUMENTS	The argument string passed to DosExecPgm is not correct.
161	0x000000A1	ERROR_BAD_PATHNAME	The specified path is invalid.
162	0x000000A2	ERROR_SIGNAL_PENDING	A signal is already pending.
164	0x000000A4	ERROR_MAX_THRDS_REACHED	No more threads can be created in the system.
167	0x000000A7	ERROR_LOCK_FAILED	Unable to lock a region of a file.
170	0x000000AA	ERROR_BUSY	The requested resource is in use.
173	0x000000AD	ERROR_CANCEL_VIOLATION	A lock request was not outstanding for the supplied cancel region.
174	0x000000AE	ERROR_ATOMIC_LOCKS_NOT_SUPPORTED	The file system does not support atomic changes to the lock type.
180	0x000000B4	ERROR_INVALID_SEGMENT_NUMBER	The system detected a segment number that was not correct.
182	0x000000B6	ERROR_INVALID_ORDINAL	The operating system cannot run %1.
183	0x000000B7	ERROR_ALREADY_EXISTS	Cannot create a file when that file already exists.
186	0x000000BA	ERROR_INVALID_FLAG_NUMBER	The flag passed is not correct.
187	0x000000BB	ERROR_SEM_NOT_FOUND	The specified system semaphore name was not found.
188	0x000000BC	ERROR_INVALID_STARTING_CODESEG	The operating system cannot run %1.
189	0x000000BD	ERROR_INVALID_STACKSEG	The operating system cannot run %1.
190	0x000000BE	ERROR_INVALID_MODULETYPE	The operating system cannot run %1.
191	0x000000BF	ERROR_INVALID_EXE_SIGNATURE	Cannot run %1 in Win32 mode.
192	0x000000C0	ERROR_EXE_MARKED_INVALID	The operating system cannot run %1.
193	0x000000C1	ERROR_BAD_EXE_FORMAT	%1 is not a valid Win32 application.
194	0x000000C2	ERROR_ITERATED_DATA_EXCEEDS_64k	The operating system cannot run %1.
195	0x000000C3	ERROR_INVALID_MINALLOCSIZE	The operating system cannot run %1.
196	0x000000C4	ERROR_DYNLINK_FROM_INVALID_RING	The operating system cannot run this application program.
197	0x000000C5	ERROR_IOPL_NOT_ENABLED	The operating system is not presently configured to run this application.
198	0x000000C6	ERROR_INVALID_SEGDPL	The operating system cannot run %1.
199	0x000000C7	ERROR_AUTODATASEG_EXCEEDS_64k	The operating system cannot run this application program.

Error			Description
decimal	Hexadecimal	Name	
200	0x000000C8	ERROR_RING2SEG_MUST_BE_MOVABLE	The code segment cannot be greater than or equal to 64K.
201	0x000000C9	ERROR_RELOC_CHAIN_XEEDS_SEGLIM	The operating system cannot run %1.
202	0x000000CA	ERROR_INFLOOP_IN_RELOC_CHAIN	The operating system cannot run %1.
203	0x000000CB	ERROR_ENVVAR_NOT_FOUND	The system could not find the environment option that was entered.
205	0x000000CD	ERROR_NO_SIGNAL_SENT	No process in the command subtree has a signal handler.
206	0x000000CE	ERROR_FILENAME_EXCED_RANGE	The filename or extension is too long.
207	0x000000CF	ERROR_RING2_STACK_IN_USE	The ring 2 stack is in use.

Error			Description
decimal	Hexadecimal	Name	
208	0x000000D0	ERROR_META_EXPANSION_TOO_LONG	The global filename characters, * or ?, are entered incorrectly or too many global filename characters are specified.
209	0x000000D1	ERROR_INVALID_SIGNAL_NUMBER	The signal being posted is not correct.
210	0x000000D2	ERROR_THREAD_1_INACTIVE	The signal handler cannot be set.
212	0x000000D4	ERROR_LOCKED	The segment is locked and cannot be reallocated.
214	0x000000D6	ERROR_TOO_MANY_MODULES	Too many dynamic-link modules are attached to this program or dynamic-link module.
215	0x000000D7	ERROR_NESTING_NOT_ALLOWED	Cannot nest calls to LoadModule.
216	0x000000D8	ERROR_EXE_MACHINE_TYPE_MISMATCH	The image file %1 is valid, but is for a machine type other than the current machine.
230	0x000000E6	ERROR_BAD_PIPE	The pipe state is invalid.
231	0x000000E7	ERROR_PIPE_BUSY	All pipe instances are busy.
232	0x000000E8	ERROR_NO_DATA	The pipe is being closed.
233	0x000000E9	ERROR_PIPE_NOT_CONNECTED	No process is on the other end of the pipe.
234	0x000000EA	ERROR_MORE_DATA	More data is available.
240	0x000000F0	ERROR_VC_DISCONNECTED	The session was canceled.
254	0x000000FE	ERROR_INVALID_EA_NAME	The specified extended attribute name was invalid.
255	0x000000FF	ERROR_EA_LIST_INCONSISTENT	The extended attributes are inconsistent.
258	0x00000102	WAIT_TIMEOUT	The wait operation timed out.
259	0x00000103	ERROR_NO_MORE_ITEMS	No more data is available.
266	0x0000010A	ERROR_CANNOT_COPY	The copy functions cannot be used.
267	0x0000010B	ERROR_DIRECTORY	The directory name is invalid.
275	0x00000113	ERROR_EAS_DIDNT_FIT	The extended attributes did not fit in the buffer.
276	0x00000114	ERROR_EA_FILE_CORRUPT	The extended attribute file on the mounted file system is corrupt.
277	0x00000115	ERROR_EA_TABLE_FULL	The extended attribute table file is full.
278	0x00000116	ERROR_INVALID_EA_HANDLE	The specified extended attribute handle is invalid.
282	0x0000011A	ERROR_EAS_NOT_SUPPORTED	The mounted file system does not support extended attributes.
288	0x00000120	ERROR_NOT_OWNER	Attempt to release mutex not owned by caller.
298	0x0000012A	ERROR_TOO_MANY_POSTS	Too many posts were made to a semaphore.
299	0x0000012B	ERROR_PARTIAL_COPY	Only part of a ReadProcessMemory or WriteProcessMemory request was completed.
300	0x0000012C	ERROR_OPLOCK_NOT_GRANTED	The oplock request is denied.
301	0x0000012D	ERROR_INVALID_OPLOCK_PROTOCOL	An invalid oplock acknowledgment was received by the system.
302	0x0000012E	ERROR_DISK_TOO_FRAGMENTED	The volume is too fragmented to complete this operation.
303	0x0000012F	ERROR_DELETE_PENDING	The file cannot be opened because it is in the process of being deleted.
317	0x0000013D	ERROR_MR_MID_NOT_FOUND	The system cannot find message text for message number 0x%1 in the message file for %2.
487	0x000001E7	ERROR_INVALID_ADDRESS	Attempt to access invalid address.
534	0x00000216	ERROR_ARITHMETIC_OVERFLOW	Arithmetic result exceeded 32 bits.
535	0x00000217	ERROR_PIPE_CONNECTED	There is a process on other end of the pipe.
536	0x00000218	ERROR_PIPE_LISTENING	Waiting for a process to open the other end of the pipe.
994	0x000003E2	ERROR_EA_ACCESS_DENIED	Access to the extended attribute was denied.
995	0x000003E3	ERROR_OPERATION_ABORTED	The I/O operation has been aborted because of either a thread exit or an application request.
996	0x000003E4	ERROR_IO_INCOMPLETE	Overlapped I/O event is not in a signaled state.
997	0x000003E5	ERROR_IO_PENDING	Overlapped I/O operation is in progress.
998	0x000003E6	ERROR_NOACCESS	Invalid access to memory location.
999	0x000003E7	ERROR_SWAPERROR	Error performing inpage operation.

Error			Description
decimal	Hexadecimal	Name	
1001	0x000003E9	ERROR_STACK_OVERFLOW	Recursion too deep; the stack overflowed.
1002	0x000003EA	ERROR_INVALID_MESSAGE	The window cannot act on the sent message.

Error			Description
decimal	Hexadecimal	Name	
1003	0x000003EB	ERROR_CAN_NOT_COMPLETE	Cannot complete this function.
1004	0x000003EC	ERROR_INVALID_FLAGS	Invalid flags.
1005	0x000003ED	ERROR_UNRECOGNIZED_VOLUME	The volume does not contain a recognized file system. Please make sure that all required file system drivers are loaded and that the volume is not corrupted.
1006	0x000003EE	ERROR_FILE_INVALID	The volume for a file has been externally altered so that the opened file is no longer valid.
1007	0x000003EF	ERROR_FULLSCREEN_MODE	The requested operation cannot be performed in full-screen mode.
1008	0x000003F0	ERROR_NO_TOKEN	An attempt was made to reference a token that does not exist.
1009	0x000003F1	ERROR_BADDB	The configuration registry database is corrupt.
1010	0x000003F2	ERROR_BADKEY	The configuration registry key is invalid.
1011	0x000003F3	ERROR_CANTOPEN	The configuration registry key could not be opened.
1012	0x000003F4	ERROR_CANTREAD	The configuration registry key could not be read.
1013	0x000003F5	ERROR_CANTWRITE	The configuration registry key could not be written.
1014	0x000003F6	ERROR_REGISTRY_RECOVERED	One of the files in the registry database had to be recovered by use of a log or alternate copy. The recovery was successful.
1015	0x000003F7	ERROR_REGISTRY_CORRUPT	The registry is corrupted. The structure of one of the files containing registry data is corrupted, or the system's memory image of the file is corrupted, or the file could not be recovered because the alternate copy or log was absent or corrupted.
1016	0x000003F8	ERROR_REGISTRY_IO_FAILED	An I/O operation initiated by the registry failed unrecoverably. The registry could not read in, or write out, or flush, one of the files that contain the system's image of the registry.
1017	0x000003F9	ERROR_NOT_REGISTRY_FILE	The system has attempted to load or restore a file into the registry, but the specified file is not in a registry file format.
1018	0x000003FA	ERROR_KEY_DELETED	Illegal operation attempted on a registry key that has been marked for deletion.
1019	0x000003FB	ERROR_NO_LOG_SPACE	System could not allocate the required space in a registry log.
1020	0x000003FC	ERROR_KEY_HAS_CHILDREN	Cannot create a symbolic link in a registry key that already has subkeys or values.
1021	0x000003FD	ERROR_CHILD_MUST_BE_VOLATILE	Cannot create a stable subkey under a volatile parent key.
1022	0x000003FE	ERROR_NOTIFY_ENUM_DIR	A notify change request is being completed and the information is not being returned in the caller's buffer. The caller now needs to enumerate the files to find the changes.
1051	0x0000041B	ERROR_DEPENDENT_SERVICES_RUNNING	A stop control has been sent to a service that other running services are dependent on.
1052	0x0000041C	ERROR_INVALID_SERVICE_CONTROL	The requested control is not valid for this service.
1053	0x0000041D	ERROR_SERVICE_REQUEST_TIMEOUT	The service did not respond to the start or control request in a timely fashion.
1054	0x0000041E	ERROR_SERVICE_NO_THREAD	A thread could not be created for the service.
1055	0x0000041F	ERROR_SERVICE_DATABASE_LOCKED	The service database is locked.
1056	0x00000420	ERROR_SERVICE_ALREADY_RUNNING	An instance of the service is already running.
1057	0x00000421	ERROR_INVALID_SERVICE_ACCOUNT	The account name is invalid or does not exist, or the password is invalid for the account name specified.
1058	0x00000422	ERROR_SERVICE_DISABLED	The service cannot be started, either because it is disabled or because it has no enabled devices associated with it.
1059	0x00000423	ERROR_CIRCULAR_DEPENDENCY	Circular service dependency was specified.
1060	0x00000424	ERROR_SERVICE_DOES_NOT_EXIST	The specified service does not exist as an installed service.
1061	0x00000425	ERROR_SERVICE_CANNOT_ACCEPT_CTRL	The service cannot accept control messages at this time.

Error			Description
decimal	Hexadecimal	Name	
1062	0x00000426	ERROR_SERVICE_NOT_ACTIVE	The service has not been started.
1063	0x00000427	ERROR_FAILED_SERVICE_CONTROLLER_CONNECT	The service process could not connect to the service controller.
1064	0x00000428	ERROR_EXCEPTION_IN_SERVICE	An exception occurred in the service when handling the control request.
1065	0x00000429	ERROR_DATABASE_DOES_NOT_EXIST	The database specified does not exist.
1066	0x0000042A	ERROR_SERVICE_SPECIFIC_ERROR	The service has returned a service-specific error code.
1067	0x0000042B	ERROR_PROCESS_ABORTED	The process terminated unexpectedly.
1068	0x0000042C	ERROR_SERVICE_DEPENDENCY_FAIL	The dependency service or group failed to start.
1069	0x0000042D	ERROR_SERVICE_LOGON_FAILED	The service did not start due to a logon failure.
1070	0x0000042E	ERROR_SERVICE_START_HANG	After starting, the service hung in a start-pending state.
1071	0x0000042F	ERROR_INVALID_SERVICE_LOCK	The specified service database lock is invalid.
1072	0x00000430	ERROR_SERVICE_MARKED_FOR_DELETE	The specified service has been marked for deletion.
1073	0x00000431	ERROR_SERVICE_EXISTS	The specified service already exists.
1074	0x00000432	ERROR_ALREADY_RUNNING_LKG	The system is currently running with the last-known-good configuration.
1075	0x00000433	ERROR_SERVICE_DEPENDENCY_DELETED	The dependency service does not exist or has been marked for deletion.
1076	0x00000434	ERROR_BOOT_ALREADY_ACCEPTED	The current boot has already been accepted for use as the last-known-good control set.
1077	0x00000435	ERROR_SERVICE_NEVER_STARTED	No attempts to start the service have been made since the last boot.
1078	0x00000436	ERROR_DUPLICATE_SERVICE_NAME	The name is already in use as either a service name or a service display name.
1079	0x00000437	ERROR_DIFFERENT_SERVICE_ACCOUNT	The account specified for this service is different from the account specified for other services running in the same process.
1080	0x00000438	ERROR_CANNOT_DETECT_DRIVER_FAILURE	Failure actions can only be set for Win32 services, not for drivers.
1081	0x00000439	ERROR_CANNOT_DETECT_PROCESS_ABORT	This service runs in the same process as the service control manager. Therefore, the service control manager cannot take action if this service's process terminates unexpectedly.
1082	0x0000043A	ERROR_NO_RECOVERY_PROGRAM	No recovery program has been configured for this service.
1083	0x0000043B	ERROR_SERVICE_NOT_IN_EXE	The executable program that this service is configured to run in does not implement the service.
1084	0x0000043C	ERROR_NOT_SAFEBOOT_SERVICE	This service cannot be started in Safe Mode.

Error			Description
decimal	Hexadecimal	Name	
1100	0x0000044C	ERROR_END_OF_MEDIA	The physical end of the tape has been reached.
1101	0x0000044D	ERROR_FILEMARK_DETECTED	A tape access reached a filemark.
1102	0x0000044E	ERROR_BEGINNING_OF_MEDIA	The beginning of the tape or a partition was encountered.
1103	0x0000044F	ERROR_SETMARK_DETECTED	A tape access reached the end of a set of files.
1104	0x00000450	ERROR_NO_DATA_DETECTED	No more data is on the tape.
1105	0x00000451	ERROR_PARTITION_FAILURE	Tape could not be partitioned.
1106	0x00000452	ERROR_INVALID_BLOCK_LENGTH	When accessing a new tape of a multivolume partition, the current block size is incorrect.
1107	0x00000453	ERROR_DEVICE_NOT_PARTITIONED	Tape partition information could not be found when loading a tape.
1108	0x00000454	ERROR_UNABLE_TO_LOCK_MEDIA	Unable to lock the media eject mechanism.
1109	0x00000455	ERROR_UNABLE_TO_UNLOAD_MEDIA	Unable to unload the media.
1110	0x00000456	ERROR_MEDIA_CHANGED	The media in the drive may have changed.
1111	0x00000457	ERROR_BUS_RESET	The I/O bus was reset.
1112	0x00000458	ERROR_NO_MEDIA_IN_DRIVE	No media in drive.
1113	0x00000459	ERROR_NO_UNICODE_TRANSLATION	No mapping for the Unicode character exists in the target multi-byte code page.

Error			Description
decimal	Hexadecimal	Name	
1114	0x0000045A	ERROR_DLL_INIT_FAILED	A dynamic link library (DLL) initialization routine failed.
1115	0x0000045B	ERROR_SHUTDOWN_IN_PROGRESS	A system shutdown is in progress.
1116	0x0000045C	ERROR_NO_SHUTDOWN_IN_PROGRESS	Unable to abort the system shutdown because no shutdown was in progress.
1117	0x0000045D	ERROR_IO_DEVICE	The request could not be performed because of an I/O device error.
1118	0x0000045E	ERROR_SERIAL_NO_DEVICE	No serial device was successfully initialized. The serial driver will unload.
1119	0x0000045F	ERROR_IRQ_BUSY	Unable to open a device that was sharing an interrupt request (IRQ) with other devices. At least one other device that uses that IRQ was already opened.
1120	0x00000460	ERROR_MORE_WRITES	A serial I/O operation was completed by another write to the serial port. (The IOCTL_SERIAL_XOFF_COUNTER reached zero.)
1121	0x00000461	ERROR_COUNTER_TIMEOUT	A serial I/O operation completed because the timeout period expired. (The IOCTL_SERIAL_XOFF_COUNTER did not reach zero.)
1122	0x00000462	ERROR_FLOPPY_ID_MARK_NOT_FOUND	No ID address mark was found on the floppy disk.
1123	0x00000463	ERROR_FLOPPY_WRONG_CYLINDER	Mismatch between the floppy disk sector ID field and the floppy disk controller track address.
1124	0x00000464	ERROR_FLOPPY_UNKNOWN_ERROR	The floppy disk controller reported an error that is not recognized by the floppy disk driver.
1125	0x00000465	ERROR_FLOPPY_BAD_REGISTERS	The floppy disk controller returned inconsistent results in its registers.
1126	0x00000466	ERROR_DISK_RECALIBRATE_FAILED	While accessing the hard disk, a recalibrate operation failed, even after retries.
1127	0x00000467	ERROR_DISK_OPERATION_FAILED	While accessing the hard disk, a disk operation failed even after retries.
1128	0x00000468	ERROR_DISK_RESET_FAILED	While accessing the hard disk, a disk controller reset was needed, but even that failed.
1129	0x00000469	ERROR_EOM_OVERFLOW	Physical end of tape encountered.
1130	0x0000046A	ERROR_NOT_ENOUGH_SERVER_MEMORY	Not enough server storage is available to process this command.
1131	0x0000046B	ERROR_POSSIBLE_DEADLOCK	A potential deadlock condition has been detected.
1132	0x0000046C	ERROR_MAPPED_ALIGNMENT	The base address or the file offset specified does not have the proper alignment.
1140	0x00000474	ERROR_SET_POWER_STATE_VETOED	An attempt to change the system power state was vetoed by another application or driver.
1141	0x00000475	ERROR_SET_POWER_STATE_FAILED	The system BIOS failed an attempt to change the system power state.
1142	0x00000476	ERROR_TOO_MANY_LINKS	An attempt was made to create more links on a file than the file system supports.
1150	0x0000047E	ERROR_OLD_WIN_VERSION	The specified program requires a newer version of Windows.
1151	0x0000047F	ERROR_APP_WRONG_OS	The specified program is not a Windows or MS-DOS program.
1152	0x00000480	ERROR_SINGLE_INSTANCE_APP	Cannot start more than one instance of the specified program.
1153	0x00000481	ERROR_RMODE_APP	The specified program was written for an earlier version of Windows.
1154	0x00000482	ERROR_INVALID_DLL	One of the library files needed to run this application is damaged.
1155	0x00000483	ERROR_NO_ASSOCIATION	No application is associated with the specified file for this operation.
1156	0x00000484	ERROR_DDE_FAIL	An error occurred in sending the command to the application.
1157	0x00000485	ERROR_DLL_NOT_FOUND	One of the library files needed to run this application cannot be found.
1158	0x00000486	ERROR_NO_MORE_USER_HANDLES	The current process has used all of its system allowance of handles for Window Manager objects.
1159	0x00000487	ERROR_MESSAGE_SYNC_ONLY	The message can be used only with synchronous operations.
1160	0x00000488	ERROR_SOURCE_ELEMENT_EMPTY	The indicated source element has no media.

Error			Description
decimal	Hexadecimal	Name	
1161	0x00000489	ERROR_DESTINATION_ELEMENT_FULL	The indicated destination element already contains media.
1162	0x0000048A	ERROR_ILLEGAL_ELEMENT_ADDRESS	The indicated element does not exist.
1163	0x0000048B	ERROR_MAGAZINE_NOT_PRESENT	The indicated element is part of a magazine that is not present.
1164	0x0000048C	ERROR_DEVICE_REINITIALIZATION_NEEDED	The indicated device requires reinitialization due to hardware errors.
1165	0x0000048D	ERROR_DEVICE_REQUIRES_CLEANING	The device has indicated that cleaning is required before further operations are attempted.
1166	0x0000048E	ERROR_DEVICE_DOOR_OPEN	The device has indicated that its door is open.
1167	0x0000048F	ERROR_DEVICE_NOT_CONNECTED	The device is not connected.
1168	0x00000490	ERROR_NOT_FOUND	Element not found.
1169	0x00000491	ERROR_NO_MATCH	There was no match for the specified key in the index.
1170	0x00000492	ERROR_SET_NOT_FOUND	The property set specified does not exist on the object.
1171	0x00000493	ERROR_POINT_NOT_FOUND	The point passed to GetMouseMovePointsEx is not in the buffer.
1172	0x00000494	ERROR_NO_TRACKING_SERVICE	The tracking (workstation) service is not running.
1173	0x00000495	ERROR_NO_VOLUME_ID	The Volume ID could not be found.
1175	0x00000497	ERROR_UNABLE_TO_REMOVE_REPLACED	Unable to remove the file to be replaced.
1176	0x00000498	ERROR_UNABLE_TO_MOVE_REPLACEMENT	Unable to move the replacement file to the file to be replaced. The file to be replaced has retained its original name.
1177	0x00000499	ERROR_UNABLE_TO_MOVE_REPLACEMENT_2	Unable to move the replacement file to the file to be replaced. The file to be replaced has been renamed using the backup name.
1178	0x0000049A	ERROR_JOURNAL_DELETE_IN_PROGRESS	The volume change journal is being deleted.
1179	0x0000049B	ERROR_JOURNAL_NOT_ACTIVE	The volume change journal is not active.
1180	0x0000049C	ERROR_POTENTIAL_FILE_FOUND	A file was found, but it may not be the correct file.
1181	0x0000049D	ERROR_JOURNAL_ENTRY_DELETED	The journal entry has been deleted from the journal.

Error			Description
decimal	Hexadecimal	Name	
1200	0x000004B0	ERROR_BAD_DEVICE	The specified device name is invalid.
1201	0x000004B1	ERROR_CONNECTION_UNAVAIL	The device is not currently connected but it is a remembered connection.
1202	0x000004B2	ERROR_DEVICE_ALREADY_REMEMBERED	The local device name has a remembered connection to another network resource.
1203	0x000004B3	ERROR_NO_NET_OR_BAD_PATH	No network provider accepted the given network path.
1204	0x000004B4	ERROR_BAD_PROVIDER	The specified network provider name is invalid.
1205	0x000004B5	ERROR_CANNOT_OPEN_PROFILE	Unable to open the network connection profile.
1206	0x000004B6	ERROR_BAD_PROFILE	The network connection profile is corrupted.
1207	0x000004B7	ERROR_NOT_CONTAINER	Cannot enumerate a noncontainer.
1208	0x000004B8	ERROR_EXTENDED_ERROR	An extended error has occurred.
1209	0x000004B9	ERROR_INVALID_GROUPNAME	The format of the specified group name is invalid.
1210	0x000004BA	ERROR_INVALID_COMPUTERNAME	The format of the specified computer name is invalid.
1211	0x000004BB	ERROR_INVALID_EVENTNAME	The format of the specified event name is invalid.
1212	0x000004BC	ERROR_INVALID_DOMAINNAME	The format of the specified domain name is invalid.
1213	0x000004BD	ERROR_INVALID_SERVICENAME	The format of the specified service name is invalid.
1214	0x000004BE	ERROR_INVALID_NETNAME	The format of the specified network name is invalid.
1215	0x000004BF	ERROR_INVALID_SHARENAME	The format of the specified share name is invalid.
1216	0x000004C0	ERROR_INVALID_PASSWORDNAME	The format of the specified password is invalid.
1217	0x000004C1	ERROR_INVALID_MESSAGE_NAME	The format of the specified message name is invalid.

Error			Description
decimal	Hexadecimal	Name	
1218	0x000004C2	ERROR_INVALID_MESSAGEDEST	The format of the specified message destination is invalid.
1219	0x000004C3	ERROR_SESSION_CREDENTIAL_CONFLICT	The credentials supplied conflict with an existing set of credentials.
1220	0x000004C4	ERROR_REMOTE_SESSION_LIMIT_EXCEEDED	An attempt was made to establish a session to a network server, but there are already too many sessions established to that server.
1221	0x000004C5	ERROR_DUP_DOMAINNAME	The workgroup or domain name is already in use by another computer on the network.
1222	0x000004C6	ERROR_NO_NETWORK	The network is not present or not started.
1223	0x000004C7	ERROR_CANCELLED	The operation was canceled by the user.
1224	0x000004C8	ERROR_USER_MAPPED_FILE	The requested operation cannot be performed on a file with a user-mapped section open.
1225	0x000004C9	ERROR_CONNECTION_REFUSED	The remote system refused the network connection.
1226	0x000004CA	ERROR_GRACEFUL_DISCONNECT	The network connection was gracefully closed.
1227	0x000004CB	ERROR_ADDRESS_ALREADY_ASSOCIATED	The network transport endpoint already has an address associated with it.
1228	0x000004CC	ERROR_ADDRESS_NOT_ASSOCIATED	An address has not yet been associated with the network endpoint.
1229	0x000004CD	ERROR_CONNECTION_INVALID	An operation was attempted on a nonexistent network connection.
1230	0x000004CE	ERROR_CONNECTION_ACTIVE	An invalid operation was attempted on an active network connection.
1231	0x000004CF	ERROR_NETWORK_UNREACHABLE	The network location cannot be reached. For information about network troubleshooting, see Windows Help.
1232	0x000004D0	ERROR_HOST_UNREACHABLE	The network location cannot be reached. For information about network troubleshooting, see Windows Help.
1233	0x000004D1	ERROR_PROTOCOL_UNREACHABLE	The network location cannot be reached. For information about network troubleshooting, see Windows Help.
1234	0x000004D2	ERROR_PORT_UNREACHABLE	No service is operating at the destination network endpoint on the remote system.
1235	0x000004D3	ERROR_REQUEST_ABORTED	The request was aborted.
1236	0x000004D4	ERROR_CONNECTION_ABORTED	The network connection was aborted by the local system.
1237	0x000004D5	ERROR_RETRY	The operation could not be completed. A retry should be performed.
1238	0x000004D6	ERROR_CONNECTION_COUNT_LIMIT	A connection to the server could not be made because the limit on the number of concurrent connections for this account has been reached.
1239	0x000004D7	ERROR_LOGIN_TIME_RESTRICTION	Attempting to log in during an unauthorized time of day for this account.
1240	0x000004D8	ERROR_LOGIN_WKSTA_RESTRICTION	The account is not authorized to log in from this station.
1241	0x000004D9	ERROR_INCORRECT_ADDRESS	The network address could not be used for the operation requested.
1242	0x000004DA	ERROR_ALREADY_REGISTERED	The service is already registered.
1243	0x000004DB	ERROR_SERVICE_NOT_FOUND	The specified service does not exist.
1244	0x000004DC	ERROR_NOT_AUTHENTICATED	The operation being requested was not performed because the user has not been authenticated.
1245	0x000004DD	ERROR_NOT_LOGGED_ON	The operation being requested was not performed because the user has not logged on to the network. The specified service does not exist.
1246	0x000004DE	ERROR_CONTINUE	Continue with work in progress.
1247	0x000004DF	ERROR_ALREADY_INITIALIZED	An attempt was made to perform an initialization operation when initialization has already been completed.
1248	0x000004E0	ERROR_NO_MORE_DEVICES	No more local devices.
1249	0x000004E1	ERROR_NO_SUCH_SITE	The specified site does not exist.
1250	0x000004E2	ERROR_DOMAIN_CONTROLLER_EXISTS	A domain controller with the specified name already exists.

Error			Description
decimal	Hexadecimal	Name	
1251	0x000004E3	ERROR_ONLY_IF_CONNECTED	This operation is supported only when you are connected to the server.
1252	0x000004E4	ERROR_OVERRIDE_NOCHANGES	The group policy framework should call the extension even if there are no changes.
1253	0x000004E5	ERROR_BAD_USER_PROFILE	The specified user does not have a valid profile.
1254	0x000004E6	ERROR_NOT_SUPPORTED_ON_SBS	This operation is not supported on a Microsoft Small Business Server.
1255	0x000004E7	ERROR_SERVER_SHUTDOWN_IN_PROGRESS	The server machine is shutting down.
1256	0x000004E8	ERROR_HOST_DOWN	The remote system is not available. For information about network troubleshooting, see Windows Help.
1257	0x000004E9	ERROR_NON_ACCOUNT_SID	The security identifier provided is not from an account domain.
1258	0x000004EA	ERROR_NON_DOMAIN_SID	The security identifier provided does not have a domain component.
1259	0x000004EB	ERROR_APPHELP_BLOCK	AppHelp dialog canceled thus preventing the application from starting.
1260	0x000004EC	ERROR_ACCESS_DISABLED_BY_POLICY	Access to the requested resource has been disabled by your administrator.
1261	0x000004ED	ERROR_REG_NAT_CONSUMPTION	A program attempt to use an invalid register value. Normally caused by an uninitialized register. This error is Itanium specific.
1262	0x000004EE	ERROR_CSCSHARE_OFFLINE	The share is currently offline or does not exist.
1300	0x00000514	ERROR_NOT_ALL_ASSIGNED	Not all privileges referenced are assigned to the caller.
1301	0x00000515	ERROR_SOME_NOT_MAPPED	Some mapping between account names and security IDs was not done.
1302	0x00000516	ERROR_NO_QUOTAS_FOR_ACCOUNT	No system quota limits are specifically set for this account.
1303	0x00000517	ERROR_LOCAL_USER_SESSION_KEY	No encryption key is available. A well-known encryption key was returned.
1304	0x00000518	ERROR_NULL_LM_PASSWORD	The password is too complex to be converted to a LAN Manager password. The LAN Manager password returned is a NULL string.
1305	0x00000519	ERROR_UNKNOWN_REVISION	The revision level is unknown.
1306	0x0000051A	ERROR_REVISION_MISMATCH	Indicates two revision levels are incompatible.
1307	0x0000051B	ERROR_INVALID_OWNER	This security ID may not be assigned as the owner of this object.
1308	0x0000051C	ERROR_INVALID_PRIMARY_GROUP	This security ID may not be assigned as the primary group of an object.
1309	0x0000051D	ERROR_NO_IMPERSONATION_TOKEN	An attempt has been made to operate on an impersonation token by a thread that is not currently impersonating a client.
1310	0x0000051E	ERROR_CANT_DISABLE_MANDATORY	The group may not be disabled.
1311	0x0000051F	ERROR_NO_LOGON_SERVERS	There are currently no logon servers available to service the logon request.
1312	0x00000520	ERROR_NO_SUCH_LOGON_SESSION	A specified logon session does not exist. It may already have been terminated.
1313	0x00000521	ERROR_NO_SUCH_PRIVILEGE	A specified privilege does not exist.
1314	0x00000522	ERROR_PRIVILEGE_NOT_HELD	A required privilege is not held by the client.
1315	0x00000523	ERROR_INVALID_ACCOUNT_NAME	The name provided is not a properly formed account name.
1316	0x00000524	ERROR_USER_EXISTS	The specified user already exists.
1317	0x00000525	ERROR_NO_SUCH_USER	The specified user does not exist.
1318	0x00000526	ERROR_GROUP_EXISTS	The specified group already exists.
1319	0x00000527	ERROR_NO_SUCH_GROUP	The specified group does not exist.
1320	0x00000528	ERROR_MEMBER_IN_GROUP	Either the specified user account is already a member of the specified group, or the specified group cannot be deleted because it contains a member.
1321	0x00000529	ERROR_MEMBER_NOT_IN_GROUP	The specified user account is not a member of the specified group account.
1322	0x0000052A	ERROR_LAST_ADMIN	The last remaining administration account cannot be disabled or deleted.

Error			Description
decimal	Hexadecimal	Name	
1323	0x0000052B	ERROR_WRONG_PASSWORD	Unable to update the password. The value provided as the current password is incorrect.
1324	0x0000052C	ERROR_ILL_FORMED_PASSWORD	Unable to update the password. The value provided for the new password contains values that are not allowed in passwords.
1325	0x0000052D	ERROR_PASSWORD_RESTRICTION	Unable to update the password. The value provided for the new password does not meet the length, complexity, or history requirement of the domain.
1326	0x0000052E	ERROR_LOGON_FAILURE	Logon failure: unknown user name or bad password.
1327	0x0000052F	ERROR_ACCOUNT_RESTRICTION	Logon failure: user account restriction.
1328	0x00000530	ERROR_INVALID_LOGON_HOURS	Logon failure: account logon time restriction violation.
1329	0x00000531	ERROR_INVALID_WORKSTATION	Logon failure: user not allowed to log on to this computer.
1330	0x00000532	ERROR_PASSWORD_EXPIRED	Logon failure: the specified account password has expired.
1331	0x00000533	ERROR_ACCOUNT_DISABLED	Logon failure: account currently disabled.
1332	0x00000534	ERROR_NONE_MAPPED	No mapping between account names and security IDs was done.
1333	0x00000535	ERROR_TOO_MANY_LUIDS_REQUESTED	Too many local user identifiers (LUIDs) were requested at one time.
1334	0x00000536	ERROR_LUIDS_EXHAUSTED	No more local user identifiers (LUIDs) are available.
1335	0x00000537	ERROR_INVALID_SUB_AUTHORITY	The subauthority part of a security ID is invalid for this particular use.
1336	0x00000538	ERROR_INVALID_ACL	The access control list (ACL) structure is invalid.
1337	0x00000539	ERROR_INVALID_SID	The security ID structure is invalid.
1338	0x0000053A	ERROR_INVALID_SECURITY_DESCR	The security descriptor structure is invalid.
1340	0x0000053C	ERROR_BAD_INHERITANCE_ACL	The inherited access control list (ACL) or access control entry (ACE) could not be built.
1341	0x0000053D	ERROR_SERVER_DISABLED	The server is currently disabled.
1342	0x0000053E	ERROR_SERVER_NOT_DISABLED	The server is currently enabled.
1343	0x0000053F	ERROR_INVALID_ID_AUTHORITY	The value provided was an invalid value for an identifier authority.
1344	0x00000540	ERROR_ALLOTTED_SPACE_EXCEEDED	No more memory is available for security information updates.
1345	0x00000541	ERROR_INVALID_GROUP_ATTRIBUTES	The specified attributes are invalid, or incompatible with the attributes for the group as a whole.
1346	0x00000542	ERROR_BAD_IMPERSONATION_LEVEL	Either a required impersonation level was not provided, or the provided impersonation level is invalid.
1347	0x00000543	ERROR_CANT_OPEN_ANONYMOUS	Cannot open an anonymous level security token.
1348	0x00000544	ERROR_BAD_VALIDATION_CLASS	The validation information class requested was invalid.
1349	0x00000545	ERROR_BAD_TOKEN_TYPE	The type of the token is inappropriate for its attempted use.
1350	0x00000546	ERROR_NO_SECURITY_ON_OBJECT	Unable to perform a security operation on an object that has no associated security.
1351	0x00000547	ERROR_CANT_ACCESS_DOMAIN_INFO	Configuration information could not be read from the domain controller, either because the machine is unavailable, or access has been denied.
1352	0x00000548	ERROR_INVALID_SERVER_STATE	The security account manager (SAM) or local security authority (LSA) server was in the wrong state to perform the security operation.
1353	0x00000549	ERROR_INVALID_DOMAIN_STATE	The domain was in the wrong state to perform the security operation.
1354	0x0000054A	ERROR_INVALID_DOMAIN_ROLE	This operation is only allowed for the Primary Domain Controller of the domain.
1355	0x0000054B	ERROR_NO_SUCH_DOMAIN	The specified domain either does not exist or could not be contacted.
1356	0x0000054C	ERROR_DOMAIN_EXISTS	The specified domain already exists.
1357	0x0000054D	ERROR_DOMAIN_LIMIT_EXCEEDED	An attempt was made to exceed the limit on the number of domains per server.

Error			Description
decimal	Hexadecimal	Name	
1358	0x0000054E	ERROR_INTERNAL_DB_CORRUPTION	Unable to complete the requested operation because of either a catastrophic media failure or a data structure corruption on the disk.
1359	0x0000054F	ERROR_INTERNAL_ERROR	An internal error occurred.
1360	0x00000550	ERROR_GENERIC_NOT_MAPPED	Generic access types were contained in an access mask which should already be mapped to nongeneric types.
1361	0x00000551	ERROR_BAD_DESCRIPTOR_FORMAT	A security descriptor is not in the right format (absolute or self-relative).
1362	0x00000552	ERROR_NOT_LOGON_PROCESS	The requested action is restricted for use by logon processes only. The calling process has not registered as a logon process.
1363	0x00000553	ERROR_LOGON_SESSION_EXISTS	Cannot start a new logon session with an ID that is already in use.
1364	0x00000554	ERROR_NO_SUCH_PACKAGE	A specified authentication package is unknown.
1365	0x00000555	ERROR_BAD_LOGON_SESSION_STATE	The logon session is not in a state that is consistent with the requested operation.
1366	0x00000556	ERROR_LOGON_SESSION_COLLISION	The logon session ID is already in use.
1367	0x00000557	ERROR_INVALID_LOGON_TYPE	A logon request contained an invalid logon type value.
1368	0x00000558	ERROR_CANNOT_IMPERSONATE	Unable to impersonate using a named pipe until data has been read from that pipe.
1369	0x00000559	ERROR_RXACT_INVALID_STATE	The transaction state of a registry subtree is incompatible with the requested operation.
1370	0x0000055A	ERROR_RXACT_COMMIT_FAILURE	An internal security database corruption has been encountered.
1371	0x0000055B	ERROR_SPECIAL_ACCOUNT	Cannot perform this operation on built-in accounts.
1372	0x0000055C	ERROR_SPECIAL_GROUP	Cannot perform this operation on this built-in special group.
1373	0x0000055D	ERROR_SPECIAL_USER	Cannot perform this operation on this built-in special user.
1374	0x0000055E	ERROR_MEMBERS_PRIMARY_GROUP	The user cannot be removed from a group because the group is currently the user's primary group.
1375	0x0000055F	ERROR_TOKEN_ALREADY_IN_USE	The token is already in use as a primary token.
1376	0x00000560	ERROR_NO_SUCH_ALIAS	The specified local group does not exist.
1377	0x00000561	ERROR_MEMBER_NOT_IN_ALIAS	The specified account name is not a member of the local group.
1378	0x00000562	ERROR_MEMBER_IN_ALIAS	The specified account name is already a member of the local group.
1379	0x00000563	ERROR_ALIAS_EXISTS	The specified local group already exists.
1380	0x00000564	ERROR_LOGON_NOT_GRANTED	Logon failure: the user has not been granted the requested logon type at this computer.
1381	0x00000565	ERROR_TOO_MANY_SECRETS	The maximum number of secrets that may be stored in a single system has been exceeded.
1382	0x00000566	ERROR_SECRET_TOO_LONG	The length of a secret exceeds the maximum length allowed.
1383	0x00000567	ERROR_INTERNAL_DB_ERROR	The local security authority database contains an internal inconsistency.
1384	0x00000568	ERROR_TOO_MANY_CONTEXT_IDS	During a logon attempt, the user's security context accumulated too many security IDs.
1385	0x00000569	ERROR_LOGON_TYPE_NOT_GRANTED	Logon failure: the user has not been granted the requested logon type at this computer.
1386	0x0000056A	ERROR_NT_CROSS_ENCRYPTION_REQUIRED	A cross-encrypted password is necessary to change a user password.
1387	0x0000056B	ERROR_NO_SUCH_MEMBER	A new member could not be added to or removed from the local group because the member does not exist.
1388	0x0000056C	ERROR_INVALID_MEMBER	A new member could not be added to a local group because the member has the wrong account type.
1389	0x0000056D	ERROR_TOO_MANY_SIDS	Too many security IDs have been specified.
1390	0x0000056E	ERROR_LM_CROSS_ENCRYPTION_REQUIRED	A cross-encrypted password is necessary to change this user password.

Error			Description
decimal	Hexadecimal	Name	
1391	0x0000056F	ERROR_NO_INHERITANCE	Indicates an ACL contains no inheritable components.
1392	0x00000570	ERROR_FILE_CORRUPT	The file or directory is corrupted and unreadable.
1393	0x00000571	ERROR_DISK_CORRUPT	The disk structure is corrupted and unreadable.
1394	0x00000572	ERROR_NO_USER_SESSION_KEY	There is no user session key for the specified logon session.
1395	0x00000573	ERROR_LICENSE_QUOTA_EXCEEDED	The service being accessed is licensed for a particular number of connections. No more connections can be made to the service at this time because there are already as many connections as the service can accept.
1396	0x00000574	ERROR_WRONG_TARGET_NAME	Logon Failure: The target account name is incorrect.
1397	0x00000575	ERROR_MUTUAL_AUTH_FAILED	Mutual Authentication failed. The server's password is out of date at the domain controller.
1398	0x00000576	ERROR_TIME_SKEW	There is a time difference between the client and server.
1399	0x00000577	ERROR_CURRENT_DOMAIN_NOT_ALLOWED	This operation can not be performed on the current domain.

Error			Description
decimal	Hexadecimal	Name	
1400	0x00000578	ERROR_INVALID_WINDOW_HANDLE	Invalid window handle.
1401	0x00000579	ERROR_INVALID_MENU_HANDLE	Invalid menu handle.
1402	0x0000057A	ERROR_INVALID_CURSOR_HANDLE	Invalid cursor handle.
1403	0x0000057B	ERROR_INVALID_ACCEL_HANDLE	Invalid accelerator table handle.
1404	0x0000057C	ERROR_INVALID_HOOK_HANDLE	Invalid hook handle.
1405	0x0000057D	ERROR_INVALID_DWP_HANDLE	Invalid handle to a multiple-window position structure.
1406	0x0000057E	ERROR_TLW_WITH_WSCHILD	Cannot create a top-level child window.
1407	0x0000057F	ERROR_CANNOT_FIND_WND_CLASS	Cannot find window class.
1408	0x00000580	ERROR_WINDOW_OF_OTHER_THREAD	Invalid window; it belongs to other thread.
1409	0x00000581	ERROR_HOTKEY_ALREADY_REGISTERED	Hot key is already registered.
1410	0x00000582	ERROR_CLASS_ALREADY_EXISTS	Class already exists.
1411	0x00000583	ERROR_CLASS_DOES_NOT_EXIST	Class does not exist.
1412	0x00000584	ERROR_CLASS_HAS_WINDOWS	Class still has open windows.
1413	0x00000585	ERROR_INVALID_INDEX	Invalid index.
1414	0x00000586	ERROR_INVALID_ICON_HANDLE	Invalid icon handle.
1415	0x00000587	ERROR_PRIVATE_DIALOG_INDEX	Using private DIALOG window words.
1416	0x00000588	ERROR_LISTBOX_ID_NOT_FOUND	The list box identifier was not found.
1417	0x00000589	ERROR_NO_WILDCARD_CHARACTERS	No wildcards were found.
1418	0x0000058A	ERROR_CLIPBOARD_NOT_OPEN	Thread does not have a clipboard open.
1419	0x0000058B	ERROR_HOTKEY_NOT_REGISTERED	Hot key is not registered.
1420	0x0000058C	ERROR_WINDOW_NOT_DIALOG	The window is not a valid dialog window.
1421	0x0000058D	ERROR_CONTROL_ID_NOT_FOUND	Control ID not found.
1422	0x0000058E	ERROR_INVALID_COMBOBOX_MESSAGE	Invalid message for a combo box because it does not have an edit control.
1423	0x0000058F	ERROR_WINDOW_NOT_COMBOBOX	The window is not a combo box.
1424	0x00000590	ERROR_INVALID_EDIT_HEIGHT	Height must be less than 256.
1425	0x00000591	ERROR_DC_NOT_FOUND	Invalid device context (DC) handle.
1426	0x00000592	ERROR_INVALID_HOOK_FILTER	Invalid hook procedure type.
1427	0x00000593	ERROR_INVALID_FILTER_PROC	Invalid hook procedure.
1428	0x00000594	ERROR_HOOK_NEEDS_HMOD	Cannot set nonlocal hook without a module handle.
1429	0x00000595	ERROR_GLOBAL_ONLY_HOOK	This hook procedure can only be set globally.
1430	0x00000596	ERROR_JOURNAL_HOOK_SET	The journal hook procedure is already installed.
1431	0x00000597	ERROR_HOOK_NOT_INSTALLED	The hook procedure is not installed.
1432	0x00000598	ERROR_INVALID_LB_MESSAGE	Invalid message for single-selection list box.
1433	0x00000599	ERROR_SETCOUNT_ON_BAD_LB	LB_SETCOUNT sent to non-lazy list box.
1434	0x0000059A	ERROR_LB_WITHOUT_TABSTOPS	This list box does not support tab stops.

Error			Description
decimal	Hexadecimal	Name	
1435	0x0000059B	ERROR_DESTROY_OBJECT_OF_OTHER_THREAD	Cannot destroy object created by another thread.
1436	0x0000059C	ERROR_CHILD_WINDOW_MENU	Child windows cannot have menus.
1437	0x0000059D	ERROR_NO_SYSTEM_MENU	The window does not have a system menu.
1438	0x0000059E	ERROR_INVALID_MSGBOX_STYLE	Invalid message box style.
1439	0x0000059F	ERROR_INVALID_SPI_VALUE	Invalid system-wide (SPI_*) parameter.
1440	0x000005A0	ERROR_SCREEN_ALREADY_LOCKED	Screen already locked.
1441	0x000005A1	ERROR_HWNDS_HAVE_DIFF_PARENT	All handles to windows in a multiple-window position structure must have the same parent.
1442	0x000005A2	ERROR_NOT_CHILD_WINDOW	The window is not a child window.
1443	0x000005A3	ERROR_INVALID_GW_COMMAND	Invalid GW_* command.
1444	0x000005A4	ERROR_INVALID_THREAD_ID	Invalid thread identifier.
1445	0x000005A5	ERROR_NON_MDICHILD_WINDOW	Cannot process a message from a window that is not a multiple document interface (MDI) window.
1446	0x000005A6	ERROR_POPUP_ALREADY_ACTIVE	Popup menu already active.
1447	0x000005A7	ERROR_NO_SCROLLBARS	The window does not have scroll bars.
1448	0x000005A8	ERROR_INVALID_SCROLLBAR_RANGE	Scroll bar range cannot be greater than MAX-LONG.
1449	0x000005A9	ERROR_INVALID_SHOWWIN_COMMAND	Cannot show or remove the window in the way specified.
1450	0x000005AA	ERROR_NO_SYSTEM_RESOURCES	Insufficient system resources exist to complete the requested service.
1451	0x000005AB	ERROR_NONPAGED_SYSTEM_RESOURCES	Insufficient system resources exist to complete the requested service.
1452	0x000005AC	ERROR_PAGED_SYSTEM_RESOURCES	Insufficient system resources exist to complete the requested service.
1453	0x000005AD	ERROR_WORKING_SET_QUOTA	Insufficient quota to complete the requested service.
1454	0x000005AE	ERROR_PAGEFILE_QUOTA	Insufficient quota to complete the requested service.
1455	0x000005AF	ERROR_COMMITMENT_LIMIT	The paging file is too small for this operation to complete.
1456	0x000005B0	ERROR_MENU_ITEM_NOT_FOUND	A menu item was not found.
1457	0x000005B1	ERROR_INVALID_KEYBOARD_HANDLE	Invalid keyboard layout handle.
1458	0x000005B2	ERROR_HOOK_TYPE_NOT_ALLOWED	Hook type not allowed.
1459	0x000005B3	ERROR_REQUIRES_INTERACTIVE_WINDOWSTATION	This operation requires an interactive window station.
1460	0x000005B4	ERROR_TIMEOUT	This operation returned because the timeout period expired.
1461	0x000005B5	ERROR_INVALID_MONITOR_HANDLE	Invalid monitor handle.
1500	0x000005DC	ERROR_EVENTLOG_FILE_CORRUPT	The event log file is corrupted.
1501	0x000005DD	ERROR_EVENTLOG_CANT_START	No event log file could be opened, so the event logging service did not start.
1502	0x000005DE	ERROR_LOG_FILE_FULL	The event log file is full.
1503	0x000005DF	ERROR_EVENTLOG_FILE_CHANGED	The event log file has changed between read operations.

Error			Description
decimal	Hexadecimal	Name	
1601	0x00000641	ERROR_INSTALL_SERVICE_FAILURE	The Windows Installer service could not be accessed. Contact your support personnel to verify that the Windows Installer service is properly registered.
1602	0x00000642	ERROR_INSTALL_USEREXIT	User cancelled installation.
1603	0x00000643	ERROR_INSTALL_FAILURE	Fatal error during installation.
1604	0x00000644	ERROR_INSTALL_SUSPEND	Installation suspended, incomplete.
1605	0x00000645	ERROR_UNKNOWN_PRODUCT	This action is only valid for products that are currently installed.
1606	0x00000646	ERROR_UNKNOWN_FEATURE	Feature ID not registered.
1607	0x00000647	ERROR_UNKNOWN_COMPONENT	Component ID not registered.
1608	0x00000648	ERROR_UNKNOWN_PROPERTY	Unknown property.
1609	0x00000649	ERROR_INVALID_HANDLE_STATE	Handle is in an invalid state.

Error			Description
decimal	Hexadecimal	Name	
1610	0x0000064A	ERROR_BAD_CONFIGURATION	The configuration data for this product is corrupt. Contact your support personnel.
1611	0x0000064B	ERROR_INDEX_ABSENT	Component qualifier not present.
1612	0x0000064C	ERROR_INSTALL_SOURCE_ABSENT	The installation source for this product is not available. Verify that the source exists and that you can access it.
1613	0x0000064D	ERROR_INSTALL_PACKAGE_VERSION	This installation package cannot be installed by the Windows Installer service. You must install a Windows service pack that contains a newer version of the Windows Installer service.
1614	0x0000064E	ERROR_PRODUCT_UNINSTALLED	Product is uninstalled.
1615	0x0000064F	ERROR_BAD_QUERY_SYNTAX	SQL query syntax invalid or unsupported.
1616	0x00000650	ERROR_INVALID_FIELD	Record field does not exist.
1617	0x00000651	ERROR_DEVICE_REMOVED	The device has been removed.
1618	0x00000652	ERROR_INSTALL_ALREADY_RUNNING	Another installation is already in progress. Complete that installation before proceeding with this install.
1619	0x00000653	ERROR_INSTALL_PACKAGE_OPEN_FAILED	This installation package could not be opened. Verify that the package exists and that you can access it, or contact the application vendor to verify that this is a valid Windows Installer package.
1620	0x00000654	ERROR_INSTALL_PACKAGE_INVALID	This installation package could not be opened. Contact the application vendor to verify that this is a valid Windows Installer package.
1621	0x00000655	ERROR_INSTALL_UI_FAILURE	There was an error starting the Windows Installer service user interface. Contact your support personnel.
1622	0x00000656	ERROR_INSTALL_LOG_FAILURE	Error opening installation log file. Verify that the specified log file location exists and that you can write to it.
1623	0x00000657	ERROR_INSTALL_LANGUAGE_UNSUPPORTED	The language of this installation package is not supported by your system.
1624	0x00000658	ERROR_INSTALL_TRANSFORM_FAILURE	Error applying transforms. Verify that the specified transform paths are valid.
1625	0x00000659	ERROR_INSTALL_PACKAGE_REJECTED	This installation is forbidden by system policy. Contact your system administrator.
1626	0x0000065A	ERROR_FUNCTION_NOT_CALLED	Function could not be executed.
1627	0x0000065B	ERROR_FUNCTION_FAILED	Function failed during execution.
1628	0x0000065C	ERROR_INVALID_TABLE	Invalid or unknown table specified.
1629	0x0000065D	ERROR_DATATYPE_MISMATCH	Data supplied is of wrong type.
1630	0x0000065E	ERROR_UNSUPPORTED_TYPE	Data of this type is not supported.
1631	0x0000065F	ERROR_CREATE_FAILED	The Windows Installer service failed to start. Contact your support personnel.
1632	0x00000660	ERROR_INSTALL_TEMP_UNWRITABLE	The temp folder is either full or inaccessible. Verify that the temp folder exists and that you can write to it.
1633	0x00000661	ERROR_INSTALL_PLATFORM_UNSUPPORTED	This installation package is not supported by this processor type. Contact your product vendor.
1634	0x00000662	ERROR_INSTALL_NOTUSED	Component not used on this computer.
1635	0x00000663	ERROR_PATCH_PACKAGE_OPEN_FAILED	This patch package could not be opened. Verify that the patch package exists and that you can access it, or contact the application vendor to verify that this is a valid Windows Installer patch package.
1636	0x00000664	ERROR_PATCH_PACKAGE_INVALID	This patch package could not be opened. Contact the application vendor to verify that this is a valid Windows Installer patch package.
1637	0x00000665	ERROR_PATCH_PACKAGE_UNSUPPORTED.	This patch package cannot be processed by the Windows Installer service. You must install a Windows service pack that contains a newer version of the Windows Installer service.
1638	0x00000666	ERROR_PRODUCT_VERSION	Another version of this product is already installed. Installation of this version cannot continue. To configure or remove the existing version of this product, use Add/Remove Programs on the Control Panel.

Error			Description
decimal	Hexadecimal	Name	
1639	0x00000667	ERROR_INVALID_COMMAND_LINE	Invalid command line argument. Consult the Windows Installer SDK for detailed command line help.
1640	0x00000668	ERROR_INSTALL_REMOTE_DISALLOWED	Only administrators have permission to add, remove, or configure server software during a Terminal Services remote session. If you want to install or configure software on the server, contact your network administrator.
1641	0x00000669	ERROR_SUCCESS_REBOOT_INITIATED	The requested operation completed successfully. The system will be restarted so the changes can take effect.
1642	0x0000066A	ERROR_PATCH_TARGET_NOT_FOUND	The upgrade patch cannot be installed by the Windows Installer service because the program to be upgraded may be missing, or the upgrade patch may update a different version of the program. Verify that the program to be upgraded exists on your computer and that you have the correct upgrade patch.
1643	0x0000066B	ERROR_PATCH_PACKAGE_REJECTED	The patch package is not permitted by system policy. It is not signed with an appropriate certificate.
1644	0x0000066C	ERROR_INSTALL_TRANSFORM_REJECTED	One or more customizations are not permitted by system policy. They are not signed with an appropriate certificate.
1700	0x000006A4	RPC_S_INVALID_STRING_BINDING	The string binding is invalid.
1701	0x000006A5	RPC_S_WRONG_KIND_OF_BINDING	The binding handle is not the correct type.
1702	0x000006A6	RPC_S_INVALID_BINDING	The binding handle is invalid.
1703	0x000006A7	RPC_S_PROTSEQ_NOT_SUPPORTED	The RPC protocol sequence is not supported.
1704	0x000006A8	RPC_S_INVALID_RPC_PROTSEQ	The RPC protocol sequence is invalid.
1705	0x000006A9	RPC_S_INVALID_STRING_UUID	The string universal unique identifier (UUID) is invalid.
1706	0x000006AA	RPC_S_INVALID_ENDPOINT_FORMAT	The endpoint format is invalid.
1707	0x000006AB	RPC_S_INVALID_NET_ADDR	The network address is invalid.
1708	0x000006AC	RPC_S_NO_ENDPOINT_FOUND	No endpoint was found.
1709	0x000006AD	RPC_S_INVALID_TIMEOUT	The timeout value is invalid.
1710	0x000006AE	RPC_S_OBJECT_NOT_FOUND	The object universal unique identifier (UUID) was not found.
1711	0x000006AF	RPC_S_ALREADY_REGISTERED	The object universal unique identifier (UUID) has already been registered.
1712	0x000006B0	RPC_S_TYPE_ALREADY_REGISTERED	The type universal unique identifier (UUID) has already been registered.
1713	0x000006B1	RPC_S_ALREADY_LISTENING	The RPC server is already listening.
1714	0x000006B2	RPC_S_NO_PROTSEQS_REGISTERED	No protocol sequences have been registered.
1715	0x000006B3	RPC_S_NOT_LISTENING	The RPC server is not listening.
1716	0x000006B4	RPC_S_UNKNOWN_MGR_TYPE	The manager type is unknown.
1717	0x000006B5	RPC_S_UNKNOWN_IF	The interface is unknown.
1718	0x000006B6	RPC_S_NO_BINDINGS	There are no bindings.
1719	0x000006B7	RPC_S_NO_PROTSEQS	There are no protocol sequences.
1720	0x000006B8	RPC_S_CANT_CREATE_ENDPOINT	The endpoint cannot be created.
1721	0x000006B9	RPC_S_OUT_OF_RESOURCES	Not enough resources are available to complete this operation.
1722	0x000006BA	RPC_S_SERVER_UNAVAILABLE	The RPC server is unavailable.
1723	0x000006BB	RPC_S_SERVER_TOO_BUSY	The RPC server is too busy to complete this operation.
1724	0x000006BC	RPC_S_INVALID_NETWORK_OPTIONS	The network options are invalid.
1725	0x000006BD	RPC_S_NO_CALL_ACTIVE	There are no remote procedure calls active on this thread.
1726	0x000006BE	RPC_S_CALL_FAILED	The remote procedure call failed.
1727	0x000006BF	RPC_S_CALL_FAILED_DNE	The remote procedure call failed and did not execute.
1728	0x000006C0	RPC_S_PROTOCOL_ERROR	A remote procedure call (RPC) protocol error occurred.
1730	0x000006C2	RPC_S_UNSUPPORTED_TRANS_SYN	The transfer syntax is not supported by the RPC server.

		Error		Description
decimal	Hexadecimal	Name		
1732	0x000006C4	RPC_S_UNSUPPORTED_TYPE		The universal unique identifier (UUID) type is not supported.
1733	0x000006C5	RPC_S_INVALID_TAG		The tag is invalid.
1734	0x000006C6	RPC_S_INVALID_BOUND		The array bounds are invalid.
1735	0x000006C7	RPC_S_NO_ENTRY_NAME		The binding does not contain an entry name.
1736	0x000006C8	RPC_S_INVALID_NAME_SYNTAX		The name syntax is invalid.
1737	0x000006C9	RPC_S_UNSUPPORTED_NAME_SYNTAX		The name syntax is not supported.
1739	0x000006CB	RPC_S_UUID_NO_ADDRESS		No network address is available to use to construct a universal unique identifier (UUID).
1740	0x000006CC	RPC_S_DUPLICATE_ENDPOINT		The endpoint is a duplicate.
1741	0x000006CD	RPC_S_UNKNOWN_AUTHN_TYPE		The authentication type is unknown.
1742	0x000006CE	RPC_S_MAX_CALLS_TOO_SMALL		The maximum number of calls is too small.
1743	0x000006CF	RPC_S_STRING_TOO_LONG		The string is too long.
1744	0x000006D0	RPC_S_PROTSEQ_NOT_FOUND		The RPC protocol sequence was not found.
1745	0x000006D1	RPC_S_PROCNUM_OUT_OF_RANGE		The procedure number is out of range.
1746	0x000006D2	RPC_S_BINDING_HAS_NO_AUTH		The binding does not contain any authentication information.
1747	0x000006D3	RPC_S_UNKNOWN_AUTHN_SERVICE		The authentication service is unknown.
1748	0x000006D4	RPC_S_UNKNOWN_AUTHN_LEVEL		The authentication level is unknown.
1749	0x000006D5	RPC_S_INVALID_AUTH_IDENTITY		The security context is invalid.
1750	0x000006D6	RPC_S_UNKNOWN_AUTHZ_SERVICE		The authorization service is unknown.
1751	0x000006D7	EPT_S_INVALID_ENTRY		The entry is invalid.
1752	0x000006D8	EPT_S_CANT_PERFORM_OP		The server endpoint cannot perform the operation.
1753	0x000006D9	EPT_S_NOT_REGISTERED		There are no more endpoints available from the endpoint mapper.
1754	0x000006DA	RPC_S_NOTHING_TO_EXPORT		No interfaces have been exported.
1755	0x000006DB	RPC_S_INCOMPLETE_NAME		The entry name is incomplete.
1756	0x000006DC	RPC_S_INVALID_VERS_OPTION		The version option is invalid.
1757	0x000006DD	RPC_S_NO_MORE_MEMBERS		There are no more members.
1758	0x000006DE	RPC_S_NOT_ALL_OBJS_UNEXPORTED		There is nothing to unexport.
1759	0x000006DF	RPC_S_INTERFACE_NOT_FOUND		The interface was not found.
1760	0x000006E0	RPC_S_ENTRY_ALREADY_EXISTS		The entry already exists.
1761	0x000006E1	RPC_S_ENTRY_NOT_FOUND		The entry is not found.
1762	0x000006E2	RPC_S_NAME_SERVICE_UNAVAILABLE		The name service is unavailable.
1763	0x000006E3	RPC_S_INVALID_NAF_ID		The network address family is invalid.
1764	0x000006E4	RPC_S_CANNOT_SUPPORT		The requested operation is not supported.
1765	0x000006E5	RPC_S_NO_CONTEXT_AVAILABLE		No security context is available to allow impersonation.
1766	0x000006E6	RPC_S_INTERNAL_ERROR		An internal error occurred in a remote procedure call (RPC).
1767	0x000006E7	RPC_S_ZERO_DIVIDE		The RPC server attempted an integer division by zero.
1768	0x000006E8	RPC_S_ADDRESS_ERROR		An addressing error occurred in the RPC server.
1769	0x000006E9	RPC_S_FP_DIV_ZERO		A floating-point operation at the RPC server caused a division by zero.
1770	0x000006EA	RPC_S_FP_UNDERFLOW		A floating-point underflow occurred at the RPC server.
1771	0x000006EB	RPC_S_FP_OVERFLOW		A floating-point overflow occurred at the RPC server.
1772	0x000006EC	RPC_X_NO_MORE_ENTRIES		The list of RPC servers available for the binding of auto handles has been exhausted.
1773	0x000006ED	RPC_X_SS_CHAR_TRANS_OPEN_FAIL		Unable to open the character translation table file.
1774	0x000006EE	RPC_X_SS_CHAR_TRANS_SHORT_FILE		The file containing the character translation table has fewer than 512 bytes.
1775	0x000006EF	RPC_X_SS_IN_NULL_CONTEXT		A null context handle was passed from the client to the host during a remote procedure call.
1777	0x000006F1	RPC_X_SS_CONTEXT_DAMAGED		The context handle changed during a remote procedure call.
1778	0x000006F2	RPC_X_SS_HANDLES_MISMATCH		The binding handles passed to a remote procedure call do not match.

Error			Description
decimal	Hexadecimal	Name	
1779	0x000006F3	RPC_X_SS_CANNOT_GET_CALL_HANDLE	The stub is unable to get the remote procedure call handle.
1780	0x000006F4	RPC_X_NULL_REF_POINTER	A null reference pointer was passed to the stub.
1781	0x000006F5	RPC_X_ENUM_VALUE_OUT_OF_RANGE	The enumeration value is out of range.
1782	0x000006F6	RPC_X_BYTE_COUNT_TOO_SMALL	The byte count is too small.
1783	0x000006F7	RPC_X_BAD_STUB_DATA	The stub received bad data.
1784	0x000006F8	ERROR_INVALID_USER_BUFFER	The supplied user buffer is not valid for the requested operation.
1785	0x000006F9	ERROR_UNRECOGNIZED_MEDIA	The disk media is not recognized. It may not be formatted.
1786	0x000006FA	ERROR_NO_TRUST_LSA_SECRET	The workstation does not have a trust secret.
1787	0x000006FB	ERROR_NO_TRUST_SAM_ACCOUNT	The security database on the server does not have a computer account for this workstation trust relationship.
1788	0x000006FC	ERROR_TRUSTED_DOMAIN_FAILURE	The trust relationship between the primary domain and the trusted domain failed.
1789	0x000006FD	ERROR_TRUSTED_RELATIONSHIP_FAILURE	The trust relationship between this workstation and the primary domain failed.
1790	0x000006FE	ERROR_TRUST_FAILURE	The network logon failed.
1791	0x000006FF	RPC_S_CALL_IN_PROGRESS	A remote procedure call is already in progress for this thread.
1792	0x00000700	ERROR_NETLOGON_NOT_STARTED	An attempt was made to logon, but the network logon service was not started.
1793	0x00000701	ERROR_ACCOUNT_EXPIRED	The user's account has expired.
1794	0x00000702	ERROR_REDIRECTOR_HAS_OPEN_HANDLES	The redirector is in use and cannot be unloaded.
1795	0x00000703	ERROR_PRINTER_DRIVER_ALREADY_INSTALLED	The specified printer driver is already installed.
1796	0x00000704	ERROR_UNKNOWN_PORT	The specified port is unknown.
1797	0x00000705	ERROR_UNKNOWN_PRINTER_DRIVER	The printer driver is unknown.
1798	0x00000706	ERROR_UNKNOWN_PRINTPROCESSOR	The print processor is unknown.
1799	0x00000707	ERROR_INVALID_SEPARATOR_FILE	The specified separator file is invalid.

Error			Description
decimal	Hexadecimal	Name	
1800	0x00000708	ERROR_INVALID_PRIORITY	The specified priority is invalid.
1801	0x00000709	ERROR_INVALID_PRINTER_NAME	The printer name is invalid.
1802	0x0000070A	ERROR_PRINTER_ALREADY_EXISTS	The printer already exists.
1803	0x0000070B	ERROR_INVALID_PRINTER_COMMAND	The printer command is invalid.
1804	0x0000070C	ERROR_INVALID_DATATYPE	The specified datatype is invalid.
1805	0x0000070D	ERROR_INVALID_ENVIRONMENT	The environment specified is invalid.
1806	0x0000070E	RPC_S_NO_MORE_BINDINGS	There are no more bindings.
1807	0x0000070F	ERROR_NOLOGON_INTERDOMAIN_TRUST_ACCOUNT	The account used is an interdomain trust account. Use your global user account or local user account to access this server.
1808	0x00000710	ERROR_NOLOGON_WORKSTATION_TRUST_ACCOUNT	The account used is a computer account. Use your global user account or local user account to access this server.
1809	0x00000711	ERROR_NOLOGON_SERVER_TRUST_ACCOUNT	The account used is a server trust account. Use your global user account or local user account to access this server.
1810	0x00000712	ERROR_DOMAIN_TRUST_INCONSISTENT	The name or security ID (SID) of the domain specified is inconsistent with the trust information for that domain.
1811	0x00000713	ERROR_SERVER_HAS_OPEN_HANDLES	The server is in use and cannot be unloaded.
1812	0x00000714	ERROR_RESOURCE_DATA_NOT_FOUND	The specified image file did not contain a resource section.
1813	0x00000715	ERROR_RESOURCE_TYPE_NOT_FOUND	The specified resource type cannot be found in the image file.
1814	0x00000716	ERROR_RESOURCE_NAME_NOT_FOUND	The specified resource name cannot be found in the image file.
1815	0x00000717	ERROR_RESOURCE_LANG_NOT_FOUND	The specified resource language ID cannot be found in the image file.

Error			Description
decimal	Hexadecimal	Name	
1816	0x00000718	ERROR_NOT_ENOUGH_QUOTA	Not enough quota is available to process this command.
1817	0x00000719	RPC_S_NO_INTERFACES	No interfaces have been registered.
1818	0x0000071A	RPC_S_CALL_CANCELLED	The remote procedure call was cancelled.
1819	0x0000071B	RPC_S_BINDING_INCOMPLETE	The binding handle does not contain all required information.
1820	0x0000071C	RPC_S_COMM_FAILURE	A communications failure occurred during a remote procedure call.
1821	0x0000071D	RPC_S_UNSUPPORTED_AUTHN_LEVEL	The requested authentication level is not supported.
1822	0x0000071E	RPC_S_NO_PRINC_NAME	No principal name registered.
1823	0x0000071F	RPC_S_NOT_RPC_ERROR	The error specified is not a valid Windows RPC error code.
1824	0x00000720	RPC_S_UUID_LOCAL_ONLY	A UUID that is valid only on this computer has been allocated.
1825	0x00000721	RPC_S_SEC_PKG_ERROR	A security package specific error occurred.
1826	0x00000722	RPC_S_NOT_CANCELLED	Thread is not canceled.
1827	0x00000723	RPC_X_INVALID_ES_ACTION	Invalid operation on the encoding/decoding handle.
1828	0x00000724	RPC_X_WRONG_ES_VERSION	Incompatible version of the serializing package.
1829	0x00000725	RPC_X_WRONG_STUB_VERSION	Incompatible version of the RPC stub.
1830	0x00000726	RPC_X_INVALID_PIPE_OBJECT	The RPC pipe object is invalid or corrupted.
1831	0x00000727	RPC_X_WRONG_PIPE_ORDER	An invalid operation was attempted on an RPC pipe object.
1832	0x00000728	RPC_X_WRONG_PIPE_VERSION	Unsupported RPC pipe version.
1898	0x0000076A	RPC_S_GROUP_MEMBER_NOT_FOUND	The group member was not found.
1899	0x0000076B	EPT_S_CANT_CREATE	The endpoint mapper database entry could not be created.
1900	0x0000076C	RPC_S_INVALID_OBJECT	The object universal unique identifier (UUID) is the nil UUID.
1901	0x0000076D	ERROR_INVALID_TIME	The specified time is invalid.
1902	0x0000076E	ERROR_INVALID_FORM_NAME	The specified form name is invalid.
1903	0x0000076F	ERROR_INVALID_FORM_SIZE	The specified form size is invalid.
1904	0x00000770	ERROR_ALREADY_WAITING	The specified printer handle is already being waited on
1905	0x00000771	ERROR_PRINTER_DELETED	The specified printer has been deleted.
1906	0x00000772	ERROR_INVALID_PRINTER_STATE	The state of the printer is invalid.
1907	0x00000773	ERROR_PASSWORD_MUST_CHANGE	The user's password must be changed before logging on the first time.
1908	0x00000774	ERROR_DOMAIN_CONTROLLER_NOT_FOUND	Could not find the domain controller for this domain.
1909	0x00000775	ERROR_ACCOUNT_LOCKED_OUT	The referenced account is currently locked out and may not be logged on to.
1910	0x00000776	OR_INVALID_OXID	The object exporter specified was not found.
1911	0x00000777	OR_INVALID_OID	The object specified was not found.
1912	0x00000778	OR_INVALID_SET	The object resolver set specified was not found.
1913	0x00000779	RPC_S_SEND_INCOMPLETE	Some data remains to be sent in the request buffer.
1914	0x0000077A	RPC_S_INVALID_ASYNC_HANDLE	Invalid asynchronous remote procedure call handle.
1915	0x0000077B	RPC_S_INVALID_ASYNC_CALL	Invalid asynchronous RPC call handle for this operation.
1916	0x0000077C	RPC_X_PIPE_CLOSED	The RPC pipe object has already been closed.
1917	0x0000077D	RPC_X_PIPE_DISCIPLINE_ERROR	The RPC call completed before all pipes were processed.
1918	0x0000077E	RPC_X_PIPE_EMPTY	No more data is available from the RPC pipe.
1919	0x0000077F	ERROR_NO_SITENAME	No site name is available for this machine.
1920	0x00000780	ERROR_CANT_ACCESS_FILE	The file can not be accessed by the system.
1921	0x00000781	ERROR_CANT_RESOLVE_FILENAME	The name of the file cannot be resolved by the system.
1922	0x00000782	RPC_S_ENTRY_TYPE_MISMATCH	The entry is not of the expected type.

Error			Description
decimal	Hexadecimal	Name	
1923	0x00000783	RPC_S_NOT_ALL_OBJS_EXPORTED	Not all object UUIDs could be exported to the specified entry.
1924	0x00000784	RPC_S_INTERFACE_NOT_EXPORTED	Interface could not be exported to the specified entry.
1925	0x00000785	RPC_S_PROFILE_NOT_ADDED	The specified profile entry could not be added.
1926	0x00000786	RPC_S_PRF_ELT_NOT_ADDED	The specified profile element could not be added.
1927	0x00000787	RPC_S_PRF_ELT_NOT_REMOVED	The specified profile element could not be removed.
1928	0x00000788	RPC_S_GRP_ELT_NOT_ADDED	The group element could not be added.
1929	0x00000789	RPC_S_GRP_ELT_NOT_REMOVED	The group element could not be removed.
1930	0x0000078A	ERROR_KM_DRIVER_BLOCKED	The printer driver is not compatible with a policy enabled on your computer that blocks NT 4.0 drivers.

Error			Description
decimal	Hexadecimal	Name	
2000	0x000007D0	ERROR_INVALID_PIXEL_FORMAT	The pixel format is invalid.
2001	0x000007D1	ERROR_BAD_DRIVER	The specified driver is invalid.
2002	0x000007D2	ERROR_INVALID_WINDOW_STYLE	The window style or class attribute is invalid for this operation.
2003	0x000007D3	ERROR_METAFILE_NOT_SUPPORTED	The requested metafile operation is not supported.
2004	0x000007D4	ERROR_TRANSFORM_NOT_SUPPORTED	The requested transformation operation is not supported.
2005	0x000007D5	ERROR_CLIPPING_NOT_SUPPORTED	The requested clipping operation is not supported.
2010	0x000007DA	ERROR_INVALID_CMM	The specified color management module is invalid.
2011	0x000007DB	ERROR_INVALID_PROFILE	The specified color profile is invalid.
2012	0x000007DC	ERROR_TAG_NOT_FOUND	The specified tag was not found.
2013	0x000007DD	ERROR_TAG_NOT_PRESENT	A required tag is not present.
2014	0x000007DE	ERROR_DUPLICATE_TAG	The specified tag is already present.
2015	0x000007DF	ERROR_PROFILE_NOT_ASSOCIATED_WITH_DEVICE	The specified color profile is not associated with any device.
2016	0x000007E0	ERROR_PROFILE_NOT_FOUND	The specified color profile was not found.
2017	0x000007E1	ERROR_INVALID_COLORSPACE	The specified color space is invalid.
2018	0x000007E2	ERROR_ICM_NOT_ENABLED	Image Color Management is not enabled.
2019	0x000007E3	ERROR_DELETING_ICM_XFORM	There was an error while deleting the color transform.
2020	0x000007E4	ERROR_INVALID_TRANSFORM	The specified color transform is invalid.
2021	0x000007E5	ERROR_COLORSPACE_MISMATCH	The specified transform does not match the bitmap's color space.
2022	0x000007E6	ERROR_INVALID_COLORINDEX	The specified named color index is not present in the profile.
2108	0x0000083C	ERROR_CONNECTED_OTHER_PASSWORD	The network connection was made successfully, but the user had to be prompted for a password other than the one originally specified.
2202	0x0000089A	ERROR_BAD_USERNAME	The specified username is invalid.
2250	0x000008CA	ERROR_NOT_CONNECTED	This network connection does not exist.
2401	0x00000961	ERROR_OPEN_FILES	This network connection has files open or requests pending.
2402	0x00000962	ERROR_ACTIVE_CONNECTIONS	Active connections still exist.
2404	0x00000964	ERROR_DEVICE_IN_USE	The device is in use by an active process and cannot be disconnected.
2500	0x000009C4	ERROR_PKINIT_FAILURE	The kerberos protocol encountered an error while validating the KDC certificate during smartcard logon.
2501	0x000009C5	ERROR_SMARTCARD_SUBSYSTEM_FAILURE	The kerberos protocol encountered an error while attempting to utilize the smartcard subsystem.

Error			Description
decimal	Hexadecimal	Name	
3000	0x00000BB8	ERROR_UNKNOWN_PRINT_MONITOR	The specified print monitor is unknown.

		Error		Description
decimal	Hexadecimal	Name		
3001	0x00000BB9	ERROR_PRINTER_DRIVER_IN_USE		The specified printer driver is currently in use.
3002	0x00000BBA	ERROR_SPOOL_FILE_NOT_FOUND		The spool file was not found.
3003	0x00000BBB	ERROR_SPL_NO_STARTDOC		A StartDocPrinter call was not issued.
3004	0x00000BBC	ERROR_SPL_NO_ADDJOB		An AddJob call was not issued.
3005	0x00000BBD	ERROR_PRINT_PROCESSOR_ALREADY_INSTALLED		The specified print processor has already been installed.
3006	0x00000BBE	ERROR_PRINT_MONITOR_ALREADY_INSTALLED		The specified print monitor has already been installed.
3007	0x00000BBF	ERROR_INVALID_PRINT_MONITOR		The specified print monitor does not have the required functions.
3008	0x00000BC0	ERROR_PRINT_MONITOR_IN_USE		The specified print monitor is currently in use.
3009	0x00000BC1	ERROR_PRINTER_HAS_JOBS_QUEUED		The requested operation is not allowed when there are jobs queued to the printer.
3010	0x00000BC2	ERROR_SUCCESS_REBOOT_REQUIRED		The requested operation is successful. Changes will not be effective until the system is rebooted.
3011	0x00000BC3	ERROR_SUCCESS_RESTART_REQUIRED		The requested operation is successful. Changes will not be effective until the service is restarted.
3012	0x00000BC4	ERROR_PRINTER_NOT_FOUND		No printers were found.
4000	0x00000FA0	ERROR_WINS_INTERNAL		WINS encountered an error while processing the command.
4001	0x00000FA1	ERROR_CAN_NOT_DEL_LOCAL_WINS		The local WINS can not be deleted.
4002	0x00000FA2	ERROR_STATIC_INIT		The importation from the file failed.
4003	0x00000FA3	ERROR_INC_BACKUP		The backup failed. Was a full backup done before?
4004	0x00000FA4	ERROR_FULL_BACKUP		The backup failed. Check the directory to which you are backing the database.
4005	0x00000FA5	ERROR_REC_NON_EXISTENT		The name does not exist in the WINS database.
4006	0x00000FA6	ERROR_RPL_NOT_ALLOWED		Replication with a nonconfigured partner is not allowed.
4100	0x00001004	ERROR_DHCP_ADDRESS_CONFLICT		The DHCP client has obtained an IP address that is already in use on the network. The local interface will be disabled until the DHCP client can obtain a new address.
4200	0x00001068	ERROR_WMI_GUID_NOT_FOUND		The GUID passed was not recognized as valid by a WMI data provider.
4201	0x00001069	ERROR_WMI_INSTANCE_NOT_FOUND		The instance name passed was not recognized as valid by a WMI data provider.
4202	0x0000106A	ERROR_WMI_ITEMID_NOT_FOUND		The data item ID passed was not recognized as valid by a WMI data provider.
4203	0x0000106B	ERROR_WMI_TRY_AGAIN		The WMI request could not be completed and should be retried.
4204	0x0000106C	ERROR_WMI_DP_NOT_FOUND		The WMI data provider could not be located.
4205	0x0000106D	ERROR_WMI_UNRESOLVED_INSTANCE_REF		The WMI data provider references an instance set that has not been registered.
4206	0x0000106E	ERROR_WMI_ALREADY_ENABLED		The WMI data block or event notification has already been enabled.
4207	0x0000106F	ERROR_WMI_GUID_DISCONNECTED		The WMI data block is no longer available.
4208	0x00001070	ERROR_WMI_SERVER_UNAVAILABLE		The WMI data service is not available.
4209	0x00001071	ERROR_WMI_DP_FAILED		The WMI data provider failed to carry out the request.
4210	0x00001072	ERROR_WMI_INVALID_MOF		The WMI MOF information is not valid.
4211	0x00001073	ERROR_WMI_INVALID_REGINFO		The WMI registration information is not valid.
4212	0x00001074	ERROR_WMI_ALREADY_DISABLED		The WMI data block or event notification has already been disabled.
4213	0x00001075	ERROR_WMI_READ_ONLY		The WMI data item or data block is read only.
4214	0x00001076	ERROR_WMI_SET_FAILURE		The WMI data item or data block could not be changed.
4300	0x000010CC	ERROR_INVALID_MEDIA		The media identifier does not represent a valid medium.
4301	0x000010CD	ERROR_INVALID_LIBRARY		The library identifier does not represent a valid library.
4302	0x000010CE	ERROR_INVALID_MEDIA_POOL		The media pool identifier does not represent a valid media pool.

Error			Description
decimal	Hexadecimal	Name	
4303	0x000010CF	ERROR_DRIVE_MEDIA_MISMATCH	The drive and medium are not compatible or exist in different libraries.
4304	0x000010D0	ERROR_MEDIA_OFFLINE	The medium currently exists in an offline library and must be online to perform this operation.
4305	0x000010D1	ERROR_LIBRARY_OFFLINE	The operation cannot be performed on an offline library.
4306	0x000010D2	ERROR_EMPTY	The library, drive, or media pool is empty.
4307	0x000010D3	ERROR_NOT_EMPTY	The library, drive, or media pool must be empty to perform this operation.
4308	0x000010D4	ERROR_MEDIA_UNAVAILABLE	No media is currently available in this media pool or library.
4309	0x000010D5	ERROR_RESOURCE_DISABLED	A resource required for this operation is disabled.
4310	0x000010D6	ERROR_INVALID_CLEANER	The media identifier does not represent a valid cleaner.
4311	0x000010D7	ERROR_UNABLE_TO_CLEAN	The drive cannot be cleaned or does not support cleaning.
4312	0x000010D8	ERROR_OBJECT_NOT_FOUND	The object identifier does not represent a valid object.
4313	0x000010D9	ERROR_DATABASE_FAILURE	Unable to read from or write to the database.
4314	0x000010DA	ERROR_DATABASE_FULL	The database is full.
4315	0x000010DB	ERROR_MEDIA_INCOMPATIBLE	The medium is not compatible with the device or media pool.
4316	0x000010DC	ERROR_RESOURCE_NOT_PRESENT	The resource required for this operation does not exist.
4317	0x000010DD	ERROR_INVALID_OPERATION	The operation identifier is not valid.
4318	0x000010DE	ERROR_MEDIA_NOT_AVAILABLE	The media is not mounted or ready for use.
4319	0x000010DF	ERROR_DEVICE_NOT_AVAILABLE	The device is not ready for use.
4320	0x000010E0	ERROR_REQUEST_REFUSED	The operator or administrator has refused the request.
4321	0x000010E1	ERROR_INVALID_DRIVE_OBJECT	The drive identifier does not represent a valid drive.
4322	0x000010E2	ERROR_LIBRARY_FULL	Library is full. No slot is available for use.
4323	0x000010E3	ERROR_MEDIUM_NOT_ACCESSIBLE	The transport cannot access the medium.
4324	0x000010E4	ERROR_UNABLE_TO_LOAD_MEDIUM	Unable to load the medium into the drive.
4325	0x000010E5	ERROR_UNABLE_TO_INVENTORY_DRIVE	Unable to retrieve status about the drive.
4326	0x000010E6	ERROR_UNABLE_TO_INVENTORY_SLOT	Unable to retrieve status about the slot.
4327	0x000010E7	ERROR_UNABLE_TO_INVENTORY_TRANSPORT	Unable to retrieve status about the transport.
4328	0x000010E8	ERROR_TRANSPORT_FULL	Cannot use the transport because it is already in use.
4329	0x000010E9	ERROR_CONTROLLING_IEPORT	Unable to open or close the inject/eject port.
4330	0x000010EA	ERROR_UNABLE_TO_EJECT_MOUNTED_MEDIA	Unable to eject the media because it is in a drive.
4331	0x000010EB	ERROR_CLEANER_SLOT_SET	A cleaner slot is already reserved.
4332	0x000010EC	ERROR_CLEANER_SLOT_NOT_SET	A cleaner slot is not reserved.
4333	0x000010ED	ERROR_CLEANER_CARTRIDGE_SPENT	The cleaner cartridge has performed the maximum number of drive cleanings.
4334	0x000010EE	ERROR_UNEXPECTED_OMID	Unexpected on-medium identifier.
4335	0x000010EF	ERROR_CANT_DELETE_LAST_ITEM	The last remaining item in this group or resource cannot be deleted.
4336	0x000010F0	ERROR_MESSAGE_EXCEEDS_MAX_SIZE	The message provided exceeds the maximum size allowed for this parameter.
4337	0x000010F1	ERROR_VOLUME_CONTAINS_SYS_FILES	The volume contains system or paging files.
4338	0x000010F2	ERROR_INDIGENOUS_TYPE	The media type cannot be removed from this library since at least one drive in the library reports it can support this media type.
4339	0x000010F3	ERROR_NO_SUPPORTING_DRIVES	This offline media cannot be mounted on this system since no enabled drives are present which can be used.
4340	0x000010F4	ERROR_CLEANER_CARTRIDGE_INSTALLED	A cleaner cartridge is present in the tape library.
4350	0x000010FE	ERROR_FILE_OFFLINE	The remote storage service was not able to recall the file.
4351	0x000010FF	ERROR_REMOTE_STORAGE_NOT_ACTIVE	The remote storage service is not operational at this time.

Error			Description
decimal	Hexadecimal	Name	
4352	0x00001100	ERROR_REMOTE_STORAGE_MEDIA_ERROR	The remote storage service encountered a media error.
4390	0x00001126	ERROR_NOT_A_REPARSE_POINT	The file or directory is not a reparse point.
4391	0x00001127	ERROR_REPARSE_ATTRIBUTE_CONFLICT	The reparse point attribute cannot be set because it conflicts with an existing attribute.
4392	0x00001128	ERROR_INVALID_REPARSE_DATA	The data present in the reparse point buffer is invalid.
4393	0x00001129	ERROR_REPARSE_TAG_INVALID	The tag present in the reparse point buffer is invalid.
4394	0x0000112A	ERROR_REPARSE_TAG_MISMATCH	There is a mismatch between the tag specified in the request and the tag present in the reparse point.
4500	0x00001194	ERROR_VOLUME_NOT_SIS_ENABLED	Single Instance Storage is not available on this volume.

Error			Description
decimal	Hexadecimal	Name	
5001	0x00001389	ERROR_DEPENDENT_RESOURCE_EXISTS	The cluster resource cannot be moved to another group because other resources are dependent on it.
5002	0x0000138A	ERROR_DEPENDENCY_NOT_FOUND	The cluster resource dependency cannot be found.
5003	0x0000138B	ERROR_DEPENDENCY_ALREADY_EXISTS	The cluster resource cannot be made dependent on the specified resource because it is already dependent.
5004	0x0000138C	ERROR_RESOURCE_NOT_ONLINE	The cluster resource is not online.
5005	0x0000138D	ERROR_HOST_NODE_NOT_AVAILABLE	A cluster node is not available for this operation.
5006	0x0000138E	ERROR_RESOURCE_NOT_AVAILABLE	The cluster resource is not available.
5007	0x0000138F	ERROR_RESOURCE_NOT_FOUND	The cluster resource could not be found.
5008	0x00001390	ERROR_SHUTDOWN_CLUSTER	The cluster is being shut down.
5009	0x00001391	ERROR_CANT_EVICT_ACTIVE_NODE	A cluster node cannot be evicted from the cluster unless the node is down.
5010	0x00001392	ERROR_OBJECT_ALREADY_EXISTS	The object already exists.
5011	0x00001393	ERROR_OBJECT_IN_LIST	The object is already in the list.
5012	0x00001394	ERROR_GROUP_NOT_AVAILABLE	The cluster group is not available for any new requests.
5013	0x00001395	ERROR_GROUP_NOT_FOUND	The cluster group could not be found.
5014	0x00001396	ERROR_GROUP_NOT_ONLINE	The operation could not be completed because the cluster group is not online.
5015	0x00001397	ERROR_HOST_NODE_NOT_RESOURCE_OWNER	The cluster node is not the owner of the resource.
5016	0x00001398	ERROR_HOST_NODE_NOT_GROUP_OWNER	The cluster node is not the owner of the group.
5017	0x00001399	ERROR_RESMON_CREATE_FAILED	The cluster resource could not be created in the specified resource monitor.
5018	0x0000139A	ERROR_RESMON_ONLINE_FAILED	The cluster resource could not be brought online by the resource monitor.
5019	0x0000139B	ERROR_RESOURCE_ONLINE	The operation could not be completed because the cluster resource is online.
5020	0x0000139C	ERROR_QUORUM_RESOURCE	The cluster resource could not be deleted or brought offline because it is the quorum resource.
5021	0x0000139D	ERROR_NOT_QUORUM_CAPABLE	The cluster could not make the specified resource a quorum resource because it is not capable of being a quorum resource.
5022	0x0000139E	ERROR_CLUSTER_SHUTTING_DOWN	The cluster software is shutting down.
5023	0x0000139F	ERROR_INVALID_STATE	The group or resource is not in the correct state to perform the requested operation.
5024	0x000013A0	ERROR_RESOURCE_PROPERTIES_STORED	The properties were stored but not all changes will take effect until the next time the resource is brought online.
5025	0x000013A1	ERROR_NOT_QUORUM_CLASS	The cluster could not make the specified resource a quorum resource because it does not belong to a shared storage class.
5026	0x000013A2	ERROR_CORE_RESOURCE	The cluster resource could not be deleted since it is a core resource.

		Error		Description
decimal	Hexadecimal	Name		
5027	0x000013A3	ERROR_QUORUM_RESOURCE_ONLINE_FAILED		The quorum resource failed to come online.
5028	0x000013A4	ERROR_QUORUMLOG_OPEN_FAILED		The quorum log could not be created or mounted successfully.
5029	0x000013A5	ERROR_CLUSTERLOG_CORRUPT		The cluster log is corrupt.
5030	0x000013A6	ERROR_CLUSTERLOG_RECORD_EXCEEDS_MAXSIZE		The record could not be written to the cluster log since it exceeds the maximum size.
5031	0x000013A7	ERROR_CLUSTERLOG_EXCEEDS_MAXSIZE		The cluster log exceeds its maximum size.
5032	0x000013A8	ERROR_CLUSTERLOG_CHKPOINT_NOT_FOUND		No checkpoint record was found in the cluster log.
5033	0x000013A9	ERROR_CLUSTERLOG_NOT_ENOUGH_SPACE		The minimum required disk space needed for logging is not available.
5034	0x000013AA	ERROR_QUORUM_OWNER_ALIVE		The cluster node failed to take control of the quorum resource because the resource is owned by another active node.
5035	0x000013AB	ERROR_NETWORK_NOT_AVAILABLE		A cluster network is not available for this operation.
5036	0x000013AC	ERROR_NODE_NOT_AVAILABLE		A cluster node is not available for this operation.
5037	0x000013AD	ERROR_ALL_NODES_NOT_AVAILABLE		All cluster nodes must be running to perform this operation.
5038	0x000013AE	ERROR_RESOURCE_FAILED		A cluster resource failed.
5039	0x000013AF	ERROR_CLUSTER_INVALID_NODE		The cluster node is not valid.
5040	0x000013B0	ERROR_CLUSTER_NODE_EXISTS		The cluster node already exists.
5041	0x000013B1	ERROR_CLUSTER_JOIN_IN_PROGRESS		A node is in the process of joining the cluster.
5042	0x000013B2	ERROR_CLUSTER_NODE_NOT_FOUND		The cluster node was not found.
5043	0x000013B3	ERROR_CLUSTER_LOCAL_NODE_NOT_FOUND		The cluster local node information was not found.
5044	0x000013B4	ERROR_CLUSTER_NETWORK_EXISTS		The cluster network already exists.
5045	0x000013B5	ERROR_CLUSTER_NETWORK_NOT_FOUND		The cluster network was not found.
5046	0x000013B6	ERROR_CLUSTER_NETINTERFACE_EXISTS		The cluster network interface already exists.
5047	0x000013B7	ERROR_CLUSTER_NETINTERFACE_NOT_FOUND		The cluster network interface was not found.
5048	0x000013B8	ERROR_CLUSTER_INVALID_REQUEST		The cluster request is not valid for this object.
5049	0x000013B9	ERROR_CLUSTER_INVALID_NETWORK_PROVIDER		The cluster network provider is not valid.
5050	0x000013BA	ERROR_CLUSTER_NODE_DOWN		The cluster node is down.
5051	0x000013BB	ERROR_CLUSTER_NODE_UNREACHABLE		The cluster node is not reachable.
5052	0x000013BC	ERROR_CLUSTER_NODE_NOT_MEMBER		The cluster node is not a member of the cluster.
5053	0x000013BD	ERROR_CLUSTER_JOIN_NOT_IN_PROGRESS		A cluster join operation is not in progress.
5054	0x000013BE	ERROR_CLUSTER_INVALID_NETWORK		The cluster network is not valid.
5056	0x000013C0	ERROR_CLUSTER_NODE_UP		The cluster node is up.
5057	0x000013C1	ERROR_CLUSTER_IPADDR_IN_USE		The cluster IP address is already in use.
5058	0x000013C2	ERROR_CLUSTER_NODE_NOT_PAUSED		The cluster node is not paused.
5059	0x000013C3	ERROR_CLUSTER_NO_SECURITY_CONTEXT		No cluster security context is available.
5060	0x000013C4	ERROR_CLUSTER_NETWORK_NOT_INTERNAL		The cluster network is not configured for internal cluster communication.
5061	0x000013C5	ERROR_CLUSTER_NODE_ALREADY_UP		The cluster node is already up.
5062	0x000013C6	ERROR_CLUSTER_NODE_ALREADY_DOWN		The cluster node is already down.
5063	0x000013C7	ERROR_CLUSTER_NETWORK_ALREADY_ONLINE		The cluster network is already online.
5064	0x000013C8	ERROR_CLUSTER_NETWORK_ALREADY_OFFLINE		The cluster network is already offline.
5065	0x000013C9	ERROR_CLUSTER_NODE_ALREADY_MEMBER		The cluster node is already a member of the cluster.
5066	0x000013CA	ERROR_CLUSTER_LAST_INTERNAL_NETWORK		The cluster network is the only one configured for internal cluster communication between two or more active cluster nodes. The internal communication capability cannot be removed from the network.
5067	0x000013CB	ERROR_CLUSTER_NETWORK_HAS_DEPENDENTS		One or more cluster resources depend on the network to provide service to clients. The client access capability cannot be removed from the network.

Error			Description
decimal	Hexadecimal	Name	
5068	0x000013CC	ERROR_INVALID_OPERATION_ON_QUORUM	This operation cannot be performed on the cluster resource as it the quorum resource. You may not bring the quorum resource offline or modify its possible owners list.
5069	0x000013CD	ERROR_DEPENDENCY_NOT_ALLOWED	The cluster quorum resource is not allowed to have any dependencies.
5070	0x000013CE	ERROR_CLUSTER_NODE_PAUSED	The cluster node is paused.
5071	0x000013CF	ERROR_NODE_CANT_HOST_RESOURCE	The cluster resource cannot be brought online. The owner node cannot run this resource.
5072	0x000013D0	ERROR_CLUSTER_NODE_NOT_READY	The cluster node is not ready to perform the requested operation.
5073	0x000013D1	ERROR_CLUSTER_NODE_SHUTTING_DOWN	The cluster node is shutting down.
5074	0x000013D2	ERROR_CLUSTER_JOIN_ABORTED	The cluster join operation was aborted.
5075	0x000013D3	ERROR_CLUSTER_INCOMPATIBLE_VERSIONS	The cluster join operation failed due to incompatible software versions between the joining node and its sponsor.
5076	0x000013D4	ERROR_CLUSTER_MAXNUM_OF_RESOURCES_EXCEEDED	This resource cannot be created because the cluster has reached the limit on the number of resources it can monitor.
5077	0x000013D5	ERROR_CLUSTER_SYSTEM_CONFIG_CHANGED	The system configuration changed during the cluster join or form operation. The join or form operation was aborted.
5078	0x000013D6	ERROR_CLUSTER_RESOURCE_TYPE_NOT_FOUND	The specified resource type was not found.
5079	0x000013D7	ERROR_CLUSTER_RESTYPE_NOT_SUPPORTED	The specified node does not support a resource of this type. This may be due to version inconsistencies or due to the absence of the resource DLL on this node.
5080	0x000013D8	ERROR_CLUSTER_RESNAME_NOT_FOUND	The specified resource name is supported by this resource DLL. This may be due to a bad (or changed) name supplied to the resource DLL.
5081	0x000013D9	ERROR_CLUSTER_NO_RPC_PACKAGES_REGISTERED	No authentication package could be registered with the RPC server.
5082	0x000013DA	ERROR_CLUSTER_OWNER_NOT_IN_PREFLIST	You cannot bring the group online because the owner of the group is not in the preferred list for the group. To change the owner node for the group, move the group.
5083	0x000013DB	ERROR_CLUSTER_DATABASE_SEQMISMATCH	The join operation failed because the cluster database sequence number has changed or is incompatible with the locker node. This may happen during a join operation if the cluster database was changing during the join.
5084	0x000013DC	ERROR_RESMON_INVALID_STATE	The resource monitor will not allow the fail operation to be performed while the resource is in its current state. This may happen if the resource is in a pending state.
5085	0x000013DD	ERROR_CLUSTER_GUM_NOT_LOCKER	A non locker code got a request to reserve the lock for making global updates.
5086	0x000013DE	ERROR_QUORUM_DISK_NOT_FOUND	The quorum disk could not be located by the cluster service.
5087	0x000013DF	ERROR_DATABASE_BACKUP_CORRUPT	The backup up cluster database is possibly corrupt.
5088	0x000013E0	ERROR_CLUSTER_NODE_ALREADY_HAS_DFS_ROOT	A DFS root already exists in this cluster node.
5089	0x000013E1	ERROR_RESOURCE_PROPERTY_UNCHANGEABLE	An attempt to modify a resource property failed because it conflicts with another existing property.
5890	0x00001702	ERROR_CLUSTER_MEMBERSHIP_INVALID_STATE	An operation was attempted that is incompatible with the current membership state of the node.
5891	0x00001703	ERROR_CLUSTER_QUORUMLOG_NOT_FOUND	The quorum resource does not contain the quorum log.
5892	0x00001704	ERROR_CLUSTER_MEMBERSHIP_HALT	The membership engine requested shutdown of the cluster service on this node.
5893	0x00001705	ERROR_CLUSTER_INSTANCE_ID_MISMATCH	The join operation failed because the cluster instance ID of the joining node does not match the cluster instance ID of the sponsor node.

Error			Description
decimal	Hexadecimal	Name	
5894	0x00001706	ERROR_CLUSTER_NETWORK_NOT_FOUND_FOR_IP	A matching network for the specified IP address could not be found. Please also specify a subnet mask and a cluster network.
5895	0x00001707	ERROR_CLUSTER_PROPERTY_DATA_TYPE_MISMATCH	The actual data type of the property did not match the expected data type of the property.
5896	0x00001708	ERROR_CLUSTER_EVICT_WITHOUT_CLEANUP	The cluster node was evicted from the cluster successfully. The node was not cleaned up because it does not support the evict cleanup functionality.

Error			Description
decimal	Hexadecimal	Name	
6000	0x00001770	ERROR_ENCRYPTION_FAILED	The specified file could not be encrypted.
6001	0x00001771	ERROR_DECRYPTION_FAILED	The specified file could not be decrypted.
6002	0x00001772	ERROR_FILE_ENCRYPTED	The specified file is encrypted and the user does not have the ability to decrypt it.
6003	0x00001773	ERROR_NO_RECOVERY_POLICY	There is no valid encryption recovery policy configured for this system.
6004	0x00001774	ERROR_NO_EFS	The required encryption driver is not loaded for this system.
6005	0x00001775	ERROR_WRONG_EFS	The file was encrypted with a different encryption driver than is currently loaded.
6006	0x00001776	ERROR_NO_USER_KEYS	There are no EFS keys defined for the user.
6007	0x00001777	ERROR_FILE_NOT_ENCRYPTED	The specified file is not encrypted.
6008	0x00001778	ERROR_NOT_EXPORT_FORMAT	The specified file is not in the defined EFS export format.
6009	0x00001779	ERROR_FILE_READ_ONLY	The specified file is read only.
6010	0x0000177A	ERROR_DIR_EFS_DISALLOWED	The directory has been disabled for encryption.
6011	0x0000177B	ERROR_EFS_SERVER_NOT_TRUSTED	The server is not trusted for remote encryption operation.
6012	0x0000177C	ERROR_BAD_RECOVERY_POLICY	Recovery policy configured for this system contains invalid recovery certificate.
6013	0x0000177D	ERROR_EFS_ALG_BLOB_TOO_BIG	The encryption algorithm used on the source file needs a bigger key buffer than the one on the destination file.
6014	0x0000177E	ERROR_VOLUME_NOT_SUPPORT_EFS	The disk partition does not support file encryption.
6118	0x000017E6	ERROR_NO_BROWSER_SERVERS_FOUND	The list of servers for this workgroup is not currently available.
6200	0x00001838	SCHED_E_SERVICE_NOT_LOCALSYSTEM	The Task Scheduler service must be configured to run in the System account to function properly. Individual tasks may be configured to run in other accounts.
7001	0x00001B59	ERROR_CTX_WINSTATION_NAME_INVALID	The specified session name is invalid.
7002	0x00001B5A	ERROR_CTX_INVALID_PD	The specified protocol driver is invalid.
7003	0x00001B5B	ERROR_CTX_PD_NOT_FOUND	The specified protocol driver was not found in the system path.
7004	0x00001B5C	ERROR_CTX_WD_NOT_FOUND	The specified terminal connection driver was not found in the system path.
7005	0x00001B5D	ERROR_CTX_CANNOT_MAKE_EVENTLOG_ENTRY	A registry key for event logging could not be created for this session.
7006	0x00001B5E	ERROR_CTX_SERVICE_NAME_COLLISION	A service with the same name already exists on the system.
7007	0x00001B5F	ERROR_CTX_CLOSE_PENDING	A close operation is pending on the session.
7008	0x00001B60	ERROR_CTX_NO_OUTBUF	There are no free output buffers available.
7009	0x00001B61	ERROR_CTX_MODEM_INF_NOT_FOUND	The MODEM.INF file was not found.
7010	0x00001B62	ERROR_CTX_INVALID_MODEMNAME	The modem name was not found in MODEM.INF.
7011	0x00001B63	ERROR_CTX_MODEM_RESPONSE_ERROR	The modem did not accept the command sent to it. Verify that the configured modem name matches the attached modem.
7012	0x00001B64	ERROR_CTX_MODEM_RESPONSE_TIMEOUT	The modem did not respond to the command sent to it. Verify that the modem is properly cabled and powered on.
7013	0x00001B65	ERROR_CTX_MODEM_RESPONSE_NO_CARRIER	Carrier detect has failed or carrier has been dropped due to disconnect.

Error			Description
decimal	Hexadecimal	Name	
7014	0x00001B66	ERROR_CTX_MODEM_RESPONSE_NO_DIAL-TONE	Dial tone not detected within the required time. Verify that the phone cable is properly attached and functional.
7015	0x00001B67	ERROR_CTX_MODEM_RESPONSE_BUSY	Busy signal detected at remote site on callback.
7016	0x00001B68	ERROR_CTX_MODEM_RESPONSE_VOICE	Voice detected at remote site on callback.
7017	0x00001B69	ERROR_CTX_TD_ERROR	Transport driver error
7022	0x00001B6E	ERROR_CTX_WINSTATION_NOT_FOUND	The specified session cannot be found.
7023	0x00001B6F	ERROR_CTX_WINSTATION_ALREADY_EXISTS	The specified session name is already in use.
7024	0x00001B70	ERROR_CTX_WINSTATION_BUSY	The requested operation cannot be completed because the terminal connection is currently busy processing a connect, disconnect, reset, or delete operation.
7025	0x00001B71	ERROR_CTX_BAD_VIDEO_MODE	An attempt has been made to connect to a session whose video mode is not supported by the current client.
7035	0x00001B7B	ERROR_CTX_GRAPHICS_INVALID	The application attempted to enable DOS graphics mode. DOS graphics mode is not supported.
7037	0x00001B7D	ERROR_CTX_LOGON_DISABLED	Your interactive logon privilege has been disabled. Please contact your administrator.
7038	0x00001B7E	ERROR_CTX_NOT_CONSOLE	The requested operation can be performed only on the system console. This is most often the result of a driver or system DLL requiring direct console access.
7040	0x00001B80	ERROR_CTX_CLIENT_QUERY_TIMEOUT	The client failed to respond to the server connect message.
7041	0x00001B81	ERROR_CTX_CONSOLE_DISCONNECT	Disconnecting the console session is not supported.
7042	0x00001B82	ERROR_CTX_CONSOLE_CONNECT	Reconnecting a disconnected session to the console is not supported.
7044	0x00001B84	ERROR_CTX_SHADOW_DENIED	The request to control another session remotely was denied.
7045	0x00001B85	ERROR_CTX_WINSTATION_ACCESS_DENIED	The requested session access is denied.
7049	0x00001B89	ERROR_CTX_INVALID_WD	The specified terminal connection driver is invalid.
7050	0x00001B8A	ERROR_CTX_SHADOW_INVALID	The requested session cannot be controlled remotely. This may be because the session is disconnected or does not currently have a user logged on.
7051	0x00001B8B	ERROR_CTX_SHADOW_DISABLED	The requested session is not configured to allow remote control.
7052	0x00001B8C	ERROR_CTX_CLIENT_LICENSE_IN_USE	Your request to connect to this Terminal Server has been rejected. Your Terminal Server client license number is currently being used by another user. Please call your system administrator to obtain a unique license number.
7053	0x00001B8D	ERROR_CTX_CLIENT_LICENSE_NOT_SET	Your request to connect to this Terminal Server has been rejected. Your Terminal Server client license number has not been entered for this copy of the Terminal Server client. Please contact your system administrator.
7054	0x00001B8E	ERROR_CTX_LICENSE_NOT_AVAILABLE	The system has reached its licensed logon limit. Please try again later.
7055	0x00001B8F	ERROR_CTX_LICENSE_CLIENT_INVALID	The client you are using is not licensed to use this system. Your logon request is denied.
7056	0x00001B90	ERROR_CTX_LICENSE_EXPIRED	The system license has expired. Your logon request is denied.
7057	0x00001B91	ERROR_CTX_SHADOW_NOT_RUNNING	Remote control could not be terminated because the specified session is not currently being remotely controlled.

Error			Description
decimal	Hexadecimal	Name	
8001	0x00001F41	FRS_ERR_INVALID_API_SEQUENCE	The file replication service API was called incorrectly.
8002	0x00001F42	FRS_ERR_STARTING_SERVICE	The file replication service cannot be started.
8003	0x00001F43	FRS_ERR_STOPPING_SERVICE	The file replication service cannot be stopped.

Error			Description
decimal	Hexadecimal	Name	
8004	0x00001F44	FRS_ERR_INTERNAL_API	The file replication service API terminated the request. The event log may have more information.
8005	0x00001F45	FRS_ERR_INTERNAL	The file replication service terminated the request. The event log may have more information.
8006	0x00001F46	FRS_ERR_SERVICE_COMM	The file replication service cannot be contacted. The event log may have more information.
8007	0x00001F47	FRS_ERR_INSUFFICIENT_PRIV	The file replication service cannot satisfy the request because the user has insufficient privileges. The event log may have more information.
8008	0x00001F48	FRS_ERR_AUTHENTICATION	The file replication service cannot satisfy the request because authenticated RPC is not available. The event log may have more information.
8009	0x00001F49	FRS_ERR_PARENT_INSUFFICIENT_PRIV	The file replication service cannot satisfy the request because the user has insufficient privileges on the domain controller. The event log may have more information.
8010	0x00001F4A	FRS_ERR_PARENT_AUTHENTICATION	The file replication service cannot satisfy the request because authenticated RPC is not available on the domain controller. The event log may have more information.
8011	0x00001F4B	FRS_ERR_CHILD_TO_PARENT_COMM	The file replication service cannot communicate with the file replication service on the domain controller. The event log may have more information.
8012	0x00001F4C	FRS_ERR_PARENT_TO_CHILD_COMM	The file replication service on the domain controller cannot communicate with the file replication service on this computer. The event log may have more information.
8013	0x00001F4D	FRS_ERR_SYSVOL_POPULATE	The file replication service cannot populate the system volume because of an internal error. The event log may have more information.
8014	0x00001F4E	FRS_ERR_SYSVOL_POPULATE_TIMEOUT	The file replication service cannot populate the system volume because of an internal timeout. The event log may have more information.
8015	0x00001F4F	FRS_ERR_SYSVOL_IS_BUSY	The file replication service cannot process the request. The system volume is busy with a previous request.
8016	0x00001F50	FRS_ERR_SYSVOL_DEMOTE	The file replication service cannot stop replicating the system volume because of an internal error. The event log may have more information.
8017	0x00001F51	FRS_ERR_INVALID_SERVICE_PARAMETER	The file replication service detected an invalid parameter.
8200	0x00002008	ERROR_DS_NOT_INSTALLED	An error occurred while installing the directory service. For more information, see the event log.
8201	0x00002009	ERROR_DS_MEMBERSHIP_EVALUATED_LOCALLY	The directory service evaluated group memberships locally.
8202	0x0000200A	ERROR_DS_NO_ATTRIBUTE_OR_VALUE	The specified directory service attribute or value does not exist.
8203	0x0000200B	ERROR_DS_INVALID_ATTRIBUTE_SYNTAX	The attribute syntax specified to the directory service is invalid.
8204	0x0000200C	ERROR_DS_ATTRIBUTE_TYPE_UNDEFINED	The attribute type specified to the directory service is not defined.
8205	0x0000200D	ERROR_DS_ATTRIBUTE_OR_VALUE_EXISTS	The specified directory service attribute or value already exists.
8206	0x0000200E	ERROR_DS_BUSY	The directory service is busy.
8207	0x0000200F	ERROR_DS_UNAVAILABLE	The directory service is unavailable.
8208	0x00002010	ERROR_DS_NO_RIDS_ALLOCATED	The directory service was unable to allocate a relative identifier.
8209	0x00002011	ERROR_DS_NO_MORE_RIDS	The directory service has exhausted the pool of relative identifiers.
8210	0x00002012	ERROR_DS_INCORRECT_ROLE_OWNER	The requested operation could not be performed because the directory service is not the master for that type of operation.
8211	0x00002013	ERROR_DS_RIDMGR_INIT_ERROR	The directory service was unable to initialize the subsystem that allocates relative identifiers.
8212	0x00002014	ERROR_DS_OBJ_CLASS_VIOLATION	The requested operation did not satisfy one or more constraints associated with the class of the object.

		Error		Description
decimal	Hexadecimal	Name		
8213	0x00002015	ERROR_DS_CANT_ON_NON_LEAF		The directory service can perform the requested operation only on a leaf object.
8214	0x00002016	ERROR_DS_CANT_ON_RDN		The directory service cannot perform the requested operation on the RDN attribute of an object.
8215	0x00002017	ERROR_DS_CANT_MOD_OBJ_CLASS		The directory service detected an attempt to modify the object class of an object.
8216	0x00002018	ERROR_DS_CROSS_DOM_MOVE_ERROR		The requested cross-domain move operation could not be performed.
8217	0x00002019	ERROR_DS_GC_NOT_AVAILABLE		Unable to contact the global catalog server.
8218	0x0000201A	ERROR_SHARED_POLICY		The policy object is shared and can only be modified at the root.
8219	0x0000201B	ERROR_POLICY_OBJECT_NOT_FOUND		The policy object does not exist.
8220	0x0000201C	ERROR_POLICY_ONLY_IN_DS		The requested policy information is only in the directory service.
8221	0x0000201D	ERROR_PROMOTION_ACTIVE		A domain controller promotion is currently active.
8222	0x0000201E	ERROR_NO_PROMOTION_ACTIVE		A domain controller promotion is not currently active
8224	0x00002020	ERROR_DS_OPERATIONS_ERROR		An operations error occurred.
8225	0x00002021	ERROR_DS_PROTOCOL_ERROR		A protocol error occurred.
8226	0x00002022	ERROR_DS_TIMELIMIT_EXCEEDED		The time limit for this request was exceeded.
8227	0x00002023	ERROR_DS_SIZELIMIT_EXCEEDED		The size limit for this request was exceeded.
8228	0x00002024	ERROR_DS_ADMIN_LIMIT_EXCEEDED		The administrative limit for this request was exceeded.
8229	0x00002025	ERROR_DS_COMPARE_FALSE		The compare response was false.
8230	0x00002026	ERROR_DS_COMPARE_TRUE		The compare response was true.
8231	0x00002027	ERROR_DS_AUTH_METHOD_NOT_SUPPORTED		The requested authentication method is not supported by the server.
8232	0x00002028	ERROR_DS_STRONG_AUTH_REQUIRED		A more secure authentication method is required for this server.
8233	0x00002029	ERROR_DS_INAPPROPRIATE_AUTH		Inappropriate authentication.
8234	0x0000202A	ERROR_DS_AUTH_UNKNOWN		The authentication mechanism is unknown.
8235	0x0000202B	ERROR_DS_REFERRAL		A referral was returned from the server.
8236	0x0000202C	ERROR_DS_UNAVAILABLE_CRIT_EXTENSION		The server does not support the requested critical extension.
8237	0x0000202D	ERROR_DS_CONFIDENTIALITY_REQUIRED		This request requires a secure connection.
8238	0x0000202E	ERROR_DS_INAPPROPRIATE_MATCHING		Inappropriate matching.
8239	0x0000202F	ERROR_DS_CONSTRAINT_VIOLATION		A constraint violation occurred.
8240	0x00002030	ERROR_DS_NO_SUCH_OBJECT		There is no such object on the server.
8241	0x00002031	ERROR_DS_ALIAS_PROBLEM		There is an alias problem.
8242	0x00002032	ERROR_DS_INVALID_DN_SYNTAX		An invalid dn syntax has been specified.
8243	0x00002033	ERROR_DS_IS_LEAF		The object is a leaf object.
8244	0x00002034	ERROR_DS_ALIAS_DEREF_PROBLEM		There is an alias dereferencing problem.
8245	0x00002035	ERROR_DS_UNWILLING_TO_PERFORM		The server is unwilling to process the request.
8246	0x00002036	ERROR_DS_LOOP_DETECT		A loop has been detected.
8247	0x00002037	ERROR_DS_NAMING_VIOLATION		There is a naming violation.
8248	0x00002038	ERROR_DS_OBJECT_RESULTS_TOO_LARGE		The result set is too large.
8249	0x00002039	ERROR_DS_AFFECTS_MULTIPLE_DSAS		The operation affects multiple DSAs
8250	0x0000203A	ERROR_DS_SERVER_DOWN		The server is not operational.
8251	0x0000203B	ERROR_DS_LOCAL_ERROR		A local error has occurred.
8252	0x0000203C	ERROR_DS_ENCODING_ERROR		An encoding error has occurred.
8253	0x0000203D	ERROR_DS_DECODING_ERROR		A decoding error has occurred.
8254	0x0000203E	ERROR_DS_FILTER_UNKNOWN		The search filter cannot be recognized.
8255	0x0000203F	ERROR_DS_PARAM_ERROR		One or more parameters are illegal.
8256	0x00002040	ERROR_DS_NOT_SUPPORTED		The specified method is not supported.
8257	0x00002041	ERROR_DS_NO_RESULTS_RETURNED		No results were returned.
8258	0x00002042	ERROR_DS_CONTROL_NOT_FOUND		The specified control is not supported by the server.
8259	0x00002043	ERROR_DS_CLIENT_LOOP		A referral loop was detected by the client.
8260	0x00002044	ERROR_DS_REFERRAL_LIMIT_EXCEEDED		The preset referral limit was exceeded.

Error			Description
decimal	Hexadecimal	Name	
8261	0x00002045	ERROR_DS_SORT_CONTROL_MISSING	The search requires a SORT control.
8262	0x00002046	ERROR_DS_OFFSET_RANGE_ERROR	The search results exceed the offset range specified.
8301	0x0000206D	ERROR_DS_ROOT_MUST_BE_NC	The root object must be the head of a naming context. The root object cannot have an instantiated parent.
8302	0x0000206E	ERROR_DS_ADD_REPLICA_INHIBITED	The add replica operation cannot be performed. The naming context must be writable in order to create the replica.
8303	0x0000206F	ERROR_DS_ATT_NOT_DEF_IN_SCHEMA	A reference to an attribute that is not defined in the schema occurred.
8304	0x00002070	ERROR_DS_MAX_OBJ_SIZE_EXCEEDED	The maximum size of an object has been exceeded.
8305	0x00002071	ERROR_DS_OBJ_STRING_NAME_EXISTS	An attempt was made to add an object to the directory with a name that is already in use.
8306	0x00002072	ERROR_DS_NO_RDN_DEFINED_IN_SCHEMA	An attempt was made to add an object of a class that does not have an RDN defined in the schema.
8307	0x00002073	ERROR_DS_RDN_DOESNT_MATCH_SCHEMA	An attempt was made to add an object using an RDN that is not the RDN defined in the schema.
8308	0x00002074	ERROR_DS_NO_REQUESTED_ATTRS_FOUND	None of the requested attributes were found on the objects.
8309	0x00002075	ERROR_DS_USER_BUFFER_TOO_SMALL	The user buffer is too small.
8310	0x00002076	ERROR_DS_ATT_IS_NOT_ON_OBJ	The attribute specified in the operation is not present on the object.
8311	0x00002077	ERROR_DS_ILLEGAL_MOD_OPERATION	Illegal modify operation. Some aspect of the modification is not permitted.
8312	0x00002078	ERROR_DS_OBJ_TOO_LARGE	The specified object is too large.
8313	0x00002079	ERROR_DS_BAD_INSTANCE_TYPE	The specified instance type is not valid.
8314	0x0000207A	ERROR_DS_MASTERDSA_REQUIRED	The operation must be performed at a master DSA.
8315	0x0000207B	ERROR_DS_OBJECT_CLASS_REQUIRED	The object class attribute must be specified.
8316	0x0000207C	ERROR_DS_MISSING_REQUIRED_ATT	A required attribute is missing.
8317	0x0000207D	ERROR_DS_ATT_NOT_DEF_FOR_CLASS	An attempt was made to modify an object to include an attribute that is not legal for its class.
8318	0x0000207E	ERROR_DS_ATT_ALREADY_EXISTS	The specified attribute is already present on the object.
8320	0x00002080	ERROR_DS_CANT_ADD_ATT_VALUES	The specified attribute is not present, or has no values.
8321	0x00002081	ERROR_DS_SINGLE_VALUE_CONSTRAINT	Multiple values were specified for an attribute that can have only one value.
8322	0x00002082	ERROR_DS_RANGE_CONSTRAINT	A value for the attribute was not in the acceptable range of values.
8323	0x00002083	ERROR_DS_ATT_VAL_ALREADY_EXISTS	The specified value already exists.
8324	0x00002084	ERROR_DS_CANT_REM_MISSING_ATT	The attribute cannot be removed because it is not present on the object.
8325	0x00002085	ERROR_DS_CANT_REM_MISSING_ATT_VAL	The attribute value cannot be removed because it is not present on the object.
8326	0x00002086	ERROR_DS_ROOT_CANT_BE_SUBREF	The specified root object cannot be a subref.
8327	0x00002087	ERROR_DS_NO_CHAINING	Chaining is not permitted.
8328	0x00002088	ERROR_DS_NO_CHAINED_EVAL	Chained evaluation is not permitted.
8329	0x00002089	ERROR_DS_NO_PARENT_OBJECT	The operation could not be performed because the object's parent is either uninstantiated or deleted.
8330	0x0000208A	ERROR_DS_PARENT_IS_AN_ALIAS	Having a parent that is an alias is not permitted. Aliases are leaf objects.
8331	0x0000208B	ERROR_DS_CANT_MIX_MASTER_AND_REPS	The object and parent must be of the same type, either both masters or both replicas.
8332	0x0000208C	ERROR_DS_CHILDREN_EXIST	The operation cannot be performed because child objects exist. This operation can only be performed on a leaf object.
8333	0x0000208D	ERROR_DS_OBJ_NOT_FOUND	Directory object not found.
8334	0x0000208E	ERROR_DS_ALIASED_OBJ_MISSING	The aliased object is missing.
8335	0x0000208F	ERROR_DS_BAD_NAME_SYNTAX	The object name has bad syntax.

		Error	Description
decimal	Hexadecimal	Name	
8336	0x00002090	ERROR_DS_ALIAS_POINTS_TO_ALIAS	It is not permitted for an alias to refer to another alias.
8337	0x00002091	ERROR_DS_CANT_DEREF_ALIAS	The alias cannot be dereferenced.
8338	0x00002092	ERROR_DS_OUT_OF_SCOPE	The operation is out of scope.
8339	0x00002093	ERROR_DS_OBJECT_BEING_REMOVED	The operation cannot continue because the object is in the process of being removed.
8340	0x00002094	ERROR_DS_CANT_DELETE_DSA_OBJ	The DSA object cannot be deleted.
8341	0x00002095	ERROR_DS_GENERIC_ERROR	A directory service error has occurred.
8342	0x00002096	ERROR_DS_DSA_MUST_BE_INT_MASTER	The operation can only be performed on an internal master DSA object.
8343	0x00002097	ERROR_DS_CLASS_NOT_DSA	The object must be of class DSA.
8344	0x00002098	ERROR_DS_INSUFF_ACCESS_RIGHTS	Insufficient access rights to perform the operation.
8345	0x00002099	ERROR_DS_ILLEGAL_SUPERIOR	The object cannot be added because the parent is not on the list of possible superiors.
8346	0x0000209A	ERROR_DS_ATTRIBUTE_OWNED_BY_SAM	Access to the attribute is not permitted because the attribute is owned by the Security Accounts Manager (SAM).
8347	0x0000209B	ERROR_DS_NAME_TOO_MANY_PARTS	The name has too many parts.
8348	0x0000209C	ERROR_DS_NAME_TOO_LONG	The name is too long.
8349	0x0000209D	ERROR_DS_NAME_VALUE_TOO_LONG	The name value is too long.
8350	0x0000209E	ERROR_DS_NAME_UNPARSEABLE	The directory service encountered an error parsing a name.
8351	0x0000209F	ERROR_DS_NAME_TYPE_UNKNOWN	The directory service cannot get the attribute type for a name.
8352	0x000020A0	ERROR_DS_NOT_AN_OBJECT	The name does not identify an object; the name identifies a phantom.
8353	0x000020A1	ERROR_DS_SEC_DESC_TOO_SHORT	The security descriptor is too short.
8354	0x000020A2	ERROR_DS_SEC_DESC_INVALID	The security descriptor is invalid.
8355	0x000020A3	ERROR_DS_NO_DELETED_NAME	Failed to create name for deleted object.
8356	0x000020A4	ERROR_DS_SUBREF_MUST_HAVE_PARENT	The parent of a new subref must exist.
8357	0x000020A5	ERROR_DS_NCNAME_MUST_BE_NC	The object must be a naming context.
8358	0x000020A6	ERROR_DS_CANT_ADD_SYSTEM_ONLY	It is not permitted to add an attribute which is owned by the system.
8359	0x000020A7	ERROR_DS_CLASS_MUST_BE_CONCRETE	The class of the object must be structural; you cannot instantiate an abstract class.
8360	0x000020A8	ERROR_DS_INVALID_DMD	The schema object could not be found.
8361	0x000020A9	ERROR_DS_OBJ_GUID_EXISTS	A local object with this GUID (dead or alive) already exists.
8362	0x000020AA	ERROR_DS_NOT_ON_BACKLINK	The operation cannot be performed on a back link.
8363	0x000020AB	ERROR_DS_NO_CROSSREF_FOR_NC	The cross reference for the specified naming context could not be found.
8364	0x000020AC	ERROR_DS_SHUTTING_DOWN	The operation could not be performed because the directory service is shutting down.
8365	0x000020AD	ERROR_DS_UNKNOWN_OPERATION	The directory service request is invalid.
8366	0x000020AE	ERROR_DS_INVALID_ROLE_OWNER	The role owner attribute could not be read.
8367	0x000020AF	ERROR_DS_COULDNT_CONTACT_FSMO	The requested FSMO operation failed. The current FSMO holder could not be reached.
8368	0x000020B0	ERROR_DS_CROSS_NC_DN_RENAME	Modification of a DN across a naming context is not permitted.
8369	0x000020B1	ERROR_DS_CANT_MOD_SYSTEM_ONLY	The attribute cannot be modified because it is owned by the system.
8370	0x000020B2	ERROR_DS_REPLICATOR_ONLY	Only the replicator can perform this function.
8371	0x000020B3	ERROR_DS_OBJ_CLASS_NOT_DEFINED	The specified class is not defined.
8372	0x000020B4	ERROR_DS_OBJ_CLASS_NOT_SUBCLASS	The specified class is not a subclass.
8373	0x000020B5	ERROR_DS_NAME_REFERENCE_INVALID	The name reference is invalid.
8374	0x000020B6	ERROR_DS_CROSS_REF_EXISTS	A cross reference already exists.
8375	0x000020B7	ERROR_DS_CANT_DEL_MASTER_CROSSREF	It is not permitted to delete a master cross reference.
8376	0x000020B8	ERROR_DS_SUBTREE_NOTIFY_NOT_NC_HEAD	Subtree notifications are only supported on NC heads.
8377	0x000020B9	ERROR_DS_NOTIFY_FILTER_TOO_COMPLEX	Notification filter is too complex.

		Error	Description
decimal	Hexadecimal	Name	
8378	0x000020BA	ERROR_DS_DUP_RDN	Schema update failed: duplicate RDN.
8379	0x000020BB	ERROR_DS_DUP_OID	Schema update failed: duplicate OID
8380	0x000020BC	ERROR_DS_DUP_MAPI_ID	Schema update failed: duplicate MAPI identifier.
8381	0x000020BD	ERROR_DS_DUP_SCHEMA_ID_GUID	Schema update failed: duplicate schema-id GUID.
8382	0x000020BE	ERROR_DS_DUP_LDAP_DISPLAY_NAME	Schema update failed: duplicate LDAP display name.
8383	0x000020BF	ERROR_DS_SEMANTIC_ATT_TEST	Schema update failed: range-lower less than range upper
8384	0x000020C0	ERROR_DS_SYNTAX_MISMATCH	Schema update failed: syntax mismatch
8385	0x000020C1	ERROR_DS_EXISTS_IN_MUST_HAVE	Schema deletion failed: attribute is used in must-contain
8386	0x000020C2	ERROR_DS_EXISTS_IN_MAY_HAVE	Schema deletion failed: attribute is used in may-contain
8387	0x000020C3	ERROR_DS_NONEXISTENT_MAY_HAVE	Schema update failed: attribute in may-contain does not exist
8388	0x000020C4	ERROR_DS_NONEXISTENT_MUST_HAVE	Schema update failed: attribute in must-contain does not exist
8389	0x000020C5	ERROR_DS_AUX_CLS_TEST_FAIL	Schema update failed: class in aux-class list does not exist or is not an auxiliary class
8390	0x000020C6	ERROR_DS_NONEXISTENT_POSS_SUP	Schema update failed: class in poss-superiors does not exist
8391	0x000020C7	ERROR_DS_SUB_CLS_TEST_FAIL	Schema update failed: class in subclassof list does not exist or does not satisfy hierarchy rules
8392	0x000020C8	ERROR_DS_BAD_RDN_ATT_ID_SYNTAX	Schema update failed: Rdn-Att-Id has wrong syntax
8393	0x000020C9	ERROR_DS_EXISTS_IN_AUX_CLS	Schema deletion failed: class is used as auxiliary class
8394	0x000020CA	ERROR_DS_EXISTS_IN_SUB_CLS	Schema deletion failed: class is used as sub class
8395	0x000020CB	ERROR_DS_EXISTS_IN_POSS_SUP	Schema deletion failed: class is used as poss superior
8396	0x000020CC	ERROR_DS_RECALCSHEMA_FAILED	Schema update failed in recalculating validation cache.
8397	0x000020CD	ERROR_DS_TREE_DELETE_NOT_FINISHED	The tree deletion is not finished.
8398	0x000020CE	ERROR_DS_CANT_DELETE	The requested delete operation could not be performed.
8399	0x000020CF	ERROR_DS_ATT_SCHEMA_REQ_ID	Cannot read the governs class identifier for the schema record.
8400	0x000020D0	ERROR_DS_BAD_ATT_SCHEMA_SYNTAX	The attribute schema has bad syntax.
8401	0x000020D1	ERROR_DS_CANT_CACHE_ATT	The attribute could not be cached.
8402	0x000020D2	ERROR_DS_CANT_CACHE_CLASS	The class could not be cached.
8403	0x000020D3	ERROR_DS_CANT_REMOVE_ATT_CACHE	The attribute could not be removed from the cache.
8404	0x000020D4	ERROR_DS_CANT_REMOVE_CLASS_CACHE	The class could not be removed from the cache.
8405	0x000020D5	ERROR_DS_CANT_RETRIEVE_DN	The distinguished name attribute could not be read.
8406	0x000020D6	ERROR_DS_MISSING_SUPREF	A required subref is missing.
8407	0x000020D7	ERROR_DS_CANT_RETRIEVE_INSTANCE	The instance type attribute could not be retrieved.
8408	0x000020D8	ERROR_DS_CODE_INCONSISTENCY	An internal error has occurred.
8409	0x000020D9	ERROR_DS_DATABASE_ERROR	A database error has occurred.
8410	0x000020DA	ERROR_DS_GOVERNSID_MISSING	The attribute GOVERNSID is missing.
8411	0x000020DB	ERROR_DS_MISSING_EXPECTED_ATT	An expected attribute is missing.
8412	0x000020DC	ERROR_DS_NCNAME_MISSING_CR_REF	The specified naming context is missing a cross reference.
8413	0x000020DD	ERROR_DS_SECURITY_CHECKING_ERROR	A security checking error has occurred.
8414	0x000020DE	ERROR_DS_SCHEMA_NOT_LOADED	The schema is not loaded.
8415	0x000020DF	ERROR_DS_SCHEMA_ALLOC_FAILED	Schema allocation failed. Please check if the machine is running low on memory.
8416	0x000020E0	ERROR_DS_ATT_SCHEMA_REQ_SYNTAX	Failed to obtain the required syntax for the attribute schema.
8417	0x000020E1	ERROR_DS_GCVERIFY_ERROR	The global catalog verification failed. The global catalog is not available or does not support the operation. Some part of the directory is currently not available.

Error			Description
decimal	Hexadecimal	Name	
8418	0x000020E2	ERROR_DS_DRA_SCHEMA_MISMATCH	The replication operation failed because of a schema mismatch between the servers involved.
8419	0x000020E3	ERROR_DS_CANT_FIND_DSA_OBJ	The DSA object could not be found.
8420	0x000020E4	ERROR_DS_CANT_FIND_EXPECTED_NC	The naming context could not be found.
8421	0x000020E5	ERROR_DS_CANT_FIND_NC_IN_CACHE	The naming context could not be found in the cache.
8422	0x000020E6	ERROR_DS_CANT_RETRIEVE_CHILD	The child object could not be retrieved.
8423	0x000020E7	ERROR_DS_SECURITY_ILLEGAL_MODIFY	The modification was not permitted for security reasons.
8424	0x000020E8	ERROR_DS_CANT_REPLACE_HIDDEN_REC	The operation cannot replace the hidden record.
8425	0x000020E9	ERROR_DS_BAD_HIERARCHY_FILE	The hierarchy file is invalid.
8426	0x000020EA	ERROR_DS_BUILD_HIERARCHY_TABLE_FAILED	The attempt to build the hierarchy table failed.
8427	0x000020EB	ERROR_DS_CONFIG_PARAM_MISSING	The directory configuration parameter is missing from the registry.
8428	0x000020EC	ERROR_DS_COUNTING_AB_INDICES_FAILED	The attempt to count the address book indices failed.
8429	0x000020ED	ERROR_DS_HIERARCHY_TABLE_MALLOC_FAILED	The allocation of the hierarchy table failed.
8430	0x000020EE	ERROR_DS_INTERNAL_FAILURE	The directory service encountered an internal failure.
8431	0x000020EF	ERROR_DS_UNKNOWN_ERROR	The directory service encountered an unknown failure.
8432	0x000020F0	ERROR_DS_ROOT_REQUIRES_CLASS_TOP	A root object requires a class of 'top'.
8433	0x000020F1	ERROR_DS_REFUSING_FSMO_ROLES	This directory server is shutting down, and cannot take ownership of new floating single-master operation roles.
8434	0x000020F2	ERROR_DS_MISSING_FSMO_SETTINGS	The directory service is missing mandatory configuration information, and is unable to determine the ownership of floating single-master operation roles.
8435	0x000020F3	ERROR_DS_UNABLE_TO_SURRENDER_ROLES	The directory service was unable to transfer ownership of one or more floating single-master operation roles to other servers.
8436	0x000020F4	ERROR_DS_DRA_GENERIC	The replication operation failed.
8437	0x000020F5	ERROR_DS_DRA_INVALID_PARAMETER	An invalid parameter was specified for this replication operation.
8438	0x000020F6	ERROR_DS_DRA_BUSY	The directory service is too busy to complete the replication operation at this time.
8439	0x000020F7	ERROR_DS_DRA_BAD_DN	The distinguished name specified for this replication operation is invalid.
8440	0x000020F8	ERROR_DS_DRA_BAD_NC	The naming context specified for this replication operation is invalid.
8441	0x000020F9	ERROR_DS_DRA_DN_EXISTS	The distinguished name specified for this replication operation already exists.
8442	0x000020FA	ERROR_DS_DRA_INTERNAL_ERROR	The replication system encountered an internal error.
8443	0x000020FB	ERROR_DS_DRA_INCONSISTENT_DIT	The replication operation encountered a database inconsistency.
8444	0x000020FC	ERROR_DS_DRA_CONNECTION_FAILED	The server specified for this replication operation could not be contacted.
8445	0x000020FD	ERROR_DS_DRA_BAD_INSTANCE_TYPE	The replication operation encountered an object with an invalid instance type.
8446	0x000020FE	ERROR_DS_DRA_OUT_OF_MEM	The replication operation failed to allocate memory.
8447	0x000020FF	ERROR_DS_DRA_MAIL_PROBLEM	The replication operation encountered an error with the mail system.
8448	0x00002100	ERROR_DS_DRA_REF_ALREADY_EXISTS	The replication reference information for the target server already exists.
8449	0x00002101	ERROR_DS_DRA_REF_NOT_FOUND	The replication reference information for the target server does not exist.
8450	0x00002102	ERROR_DS_DRA_OBJ_IS_REP_SOURCE	The naming context cannot be removed because it is replicated to another server.
8451	0x00002103	ERROR_DS_DRA_DB_ERROR	The replication operation encountered a database error.

		Error	Description
decimal	Hexadecimal	Name	
8452	0x00002104	ERROR_DS_DRA_NO_REPLICA	The naming context is in the process of being removed or is not replicated from the specified server.
8453	0x00002105	ERROR_DS_DRA_ACCESS_DENIED	Replication access was denied.
8454	0x00002106	ERROR_DS_DRA_NOT_SUPPORTED	The requested operation is not supported by this version of the directory service.
8455	0x00002107	ERROR_DS_DRA_RPC_CANCELLED	The replication remote procedure call was cancelled.
8456	0x00002108	ERROR_DS_DRA_SOURCE_DISABLED	The source server is currently rejecting replication requests.
8457	0x00002109	ERROR_DS_DRA_SINK_DISABLED	The destination server is currently rejecting replication requests.
8458	0x0000210A	ERROR_DS_DRA_NAME_COLLISION	The replication operation failed due to a collision of object names.
8459	0x0000210B	ERROR_DS_DRA_SOURCE_REINSTALLED	The replication source has been reinstalled.
8460	0x0000210C	ERROR_DS_DRA_MISSING_PARENT	The replication operation failed because a required parent object is missing.
8461	0x0000210D	ERROR_DS_DRA_PREEMPTED	The replication operation was preempted.
8462	0x0000210E	ERROR_DS_DRA_ABANDON_SYNC	The replication synchronization attempt was abandoned because of a lack of updates.
8463	0x0000210F	ERROR_DS_DRA_SHUTDOWN	The replication operation was terminated because the system is shutting down.
8464	0x00002110	ERROR_DS_DRA_INCOMPATIBLE_PARTIAL_SET	The replication synchronization attempt failed as the destination partial attribute set is not a subset of source partial attribute set.
8465	0x00002111	ERROR_DS_DRA_SOURCE_IS_PARTIAL_REPLICA	The replication synchronization attempt failed because a master replica attempted to sync from a partial replica.
8466	0x00002112	ERROR_DS_DRA_EXTN_CONNECTION_FAILED	The server specified for this replication operation was contacted, but that server was unable to contact an additional server needed to complete the operation.
8467	0x00002113	ERROR_DS_INSTALL_SCHEMA_MISMATCH	The version of the Active Directory schema of the source forest is not compatible with the version of Active Directory on this computer. You must upgrade the operating system on a domain controller in the source forest before this computer can be added as a domain controller to that forest.
8468	0x00002114	ERROR_DS_DUP_LINK_ID	Schema update failed: An attribute with the same link identifier already exists.
8469	0x00002115	ERROR_DS_NAME_ERROR_RESOLVING	Name translation: Generic processing error.
8470	0x00002116	ERROR_DS_NAME_ERROR_NOT_FOUND	Name translation: Could not find the name or insufficient right to see name.
8471	0x00002117	ERROR_DS_NAME_ERROR_NOT_UNIQUE	Name translation: Input name mapped to more than one output name.
8472	0x00002118	ERROR_DS_NAME_ERROR_NO_MAPPING	Name translation: Input name found, but not the associated output format.
8473	0x00002119	ERROR_DS_NAME_ERROR_DOMAIN_ONLY	Name translation: Unable to resolve completely, only the domain was found.
8474	0x0000211A	ERROR_DS_NAME_ERROR_NO_SYNTACTICAL_MAPPING	Name translation: Unable to perform purely syntactical mapping at the client without going out to the wire.
8475	0x0000211B	ERROR_DS_CONSTRUCTED_ATT_MOD	Modification of a constructed att is not allowed.
8476	0x0000211C	ERROR_DS_WRONG_OM_OBJ_CLASS	The OM-Object-Class specified is incorrect for an attribute with the specified syntax.
8477	0x0000211D	ERROR_DS_DRA_REPL_PENDING	The replication request has been posted; waiting for reply.
8478	0x0000211E	ERROR_DS_DS_REQUIRED	The requested operation requires a directory service, and none was available.
8479	0x0000211F	ERROR_DS_INVALID_LDAP_DISPLAY_NAME	The LDAP display name of the class or attribute contains non-ASCII characters.
8480	0x00002120	ERROR_DS_NON_BASE_SEARCH	The requested search operation is only supported for base searches.
8481	0x00002121	ERROR_DS_CANT_RETRIEVE_ATTRS	The search failed to retrieve attributes from the database.

Error			Description
decimal	Hexadecimal	Name	
8482	0x00002122	ERROR_DS_BACKLINK_WITHOUT_LINK	The schema update operation tried to add a backward link attribute that has no corresponding forward link.
8483	0x00002123	ERROR_DS_EPOCH_MISMATCH	Source and destination of a cross domain move do not agree on the object's epoch number. Either source or destination does not have the latest version of the object.
8484	0x00002124	ERROR_DS_SRC_NAME_MISMATCH	Source and destination of a cross domain move do not agree on the object's current name. Either source or destination does not have the latest version of the object.
8485	0x00002125	ERROR_DS_SRC_AND_DST_NC_IDENTICAL	Source and destination of a cross domain move operation are identical. Caller should use local move operation instead of cross domain move operation.
8486	0x00002126	ERROR_DS_DST_NC_MISMATCH	Source and destination for a cross domain move are not in agreement on the naming contexts in the forest. Either source or destination does not have the latest version of the Partitions container.
8487	0x00002127	ERROR_DS_NOT_AUTHORITY_FOR_DST_NC	Destination of a cross domain move is not authoritative for the destination naming context.
8488	0x00002128	ERROR_DS_SRC_GUID_MISMATCH	Source and destination of a cross domain move do not agree on the identity of the source object. Either source or destination does not have the latest version of the source object.
8489	0x00002129	ERROR_DS_CANT_MOVE_DELETED_OBJECT	Object being moved across domains is already known to be deleted by the destination server. The source server does not have the latest version of the source object.
8490	0x0000212A	ERROR_DS_PDC_OPERATION_IN_PROGRESS	Another operation which requires exclusive access to the PDC PSMO is already in progress.
8491	0x0000212B	ERROR_DS_CROSS_DOMAIN_CLEANUP_REQD	A cross domain move operation failed such that the two versions of the moved object exist - one each in the source and destination domains. The destination object needs to be removed to restore the system to a consistent state.
8492	0x0000212C	ERROR_DS_ILLEGAL_XDOM_MOVE_OPERATION	This object may not be moved across domain boundaries either because cross domain moves for this class are disallowed, or the object has some special characteristics, eg: trust account or restricted RID, which prevent its move.
8493	0x0000212D	ERROR_DS_CANT_WITH_ACCT_GROUP_MEMBERSHPS	Can't move objects with memberships across domain boundaries as once moved, this would violate the membership conditions of the account group. Remove the object from any account group memberships and retry.
8494	0x0000212E	ERROR_DS_NC_MUST_HAVE_NC_PARENT	A naming context head must be the immediate child of another naming context head, not of an interior node.
8495	0x0000212F	ERROR_DS_CR_IMPOSSIBLE_TO_VALIDATE	The directory cannot validate the proposed naming context name because it does not hold a replica of the naming context above the proposed naming context. Please ensure that the domain naming master role is held by a server that is configured as a global catalog server, and that the server is up to date with its replication partners. (Applies only to Windows 2000 Domain Naming masters)
8496	0x00002130	ERROR_DS_DST_DOMAIN_NOT_NATIVE	Destination domain must be in native mode.
8497	0x00002131	ERROR_DS_MISSING_INFRASTRUCTURE_CONTAINER	The operation can not be performed because the server does not have an infrastructure container in the domain of interest.
8498	0x00002132	ERROR_DS_CANT_MOVE_ACCOUNT_GROUP	Cross-domain move of non-empty account groups is not allowed.
8499	0x00002133	ERROR_DS_CANT_MOVE_RESOURCE_GROUP	Cross-domain move of non-empty resource groups is not allowed.

		Error	Description
decimal	Hexadecimal	Name	
8500	0x00002134	ERROR_DS_INVALID_SEARCH_FLAG	The search flags for the attribute are invalid. The ANR bit is valid only on attributes of Unicode or Teletex strings.
8501	0x00002135	ERROR_DS_NO_TREE_DELETE_ABOVE_NC	Tree deletions starting at an object which has an NC head as a descendant are not allowed.
8502	0x00002136	ERROR_DS_COULDNT_LOCK_TREE_FOR_DELETE	The directory service failed to lock a tree in preparation for a tree deletion because the tree was in use.
8503	0x00002137	ERROR_DS_COULDNT_IDENTIFY_OBJECTS_FOR_TREE_DELETE	The directory service failed to identify the list of objects to delete while attempting a tree deletion.
8504	0x00002138	ERROR_DS_SAM_INIT_FAILURE	Security Accounts Manager initialization failed because of the following error: %1. Error Status: 0x%2. Click OK to shut down the system and reboot into Directory Services Restore Mode. Check the event log for detailed information.
8505	0x00002139	ERROR_DS_SENSITIVE_GROUP_VIOLATION	Only an administrator can modify the membership list of an administrative group.
8506	0x0000213A	ERROR_DS_CANT_MOD_PRIMARYGROUPID	Cannot change the primary group ID of a domain controller account.
8507	0x0000213B	ERROR_DS_ILLEGAL_BASE_SCHEMA_MOD	An attempt is made to modify the base schema.
8508	0x0000213C	ERROR_DS_NONSAFE_SCHEMA_CHANGE	Adding a new mandatory attribute to an existing class, deleting a mandatory attribute from an existing class, or adding an optional attribute to the special class Top that is not a backlink attribute (directly or through inheritance, for example, by adding or deleting an auxiliary class) is not allowed.
8509	0x0000213D	ERROR_DS_SCHEMA_UPDATE_DISALLOWED	Schema update is not allowed on this DC because the DC is not the schema FSMO Role Owner.
8510	0x0000213E	ERROR_DS_CANT_CREATE_UNDER_SCHEMA	An object of this class cannot be created under the schema container. You can only create attribute-schema and class-schema objects under the schema container.
8511	0x0000213F	ERROR_DS_INSTALL_NO_SRC_SCH_VERSION	The replica/child install failed to get the objectVersion attribute on the schema container on the source DC. Either the attribute is missing on the schema container or the credentials supplied do not have permission to read it.
8512	0x00002140	ERROR_DS_INSTALL_NO_SCH_VERSION_IN_INIFILE	The replica/child install failed to read the objectVersion attribute in the SCHEMA section of the file schema.ini in the system32 directory.
8513	0x00002141	ERROR_DS_INVALID_GROUP_TYPE	The specified group type is invalid.
8514	0x00002142	ERROR_DS_NO_NEST_GLOBAL_GROUP_IN_MIXEDDOMAIN	Cannot nest global groups in a mixed domain if the group is security-enabled.
8515	0x00002143	ERROR_DS_NO_NEST_LOCAL_GROUP_IN_MIXEDDOMAIN	Cannot nest local groups in a mixed domain if the group is security-enabled.
8516	0x00002144	ERROR_DS_GLOBAL_CANT_HAVE_LOCAL_MEMBER	A global group cannot have a local group as a member.
8517	0x00002145	ERROR_DS_GLOBAL_CANT_HAVE_UNIVERSAL_MEMBER	A global group cannot have a universal group as a member.
8518	0x00002146	ERROR_DS_UNIVERSAL_CANT_HAVE_LOCAL_MEMBER	A universal group cannot have a local group as a member.
8519	0x00002147	ERROR_DS_GLOBAL_CANT_HAVE_CROSSDOMAIN_MEMBER	A global group cannot have a cross-domain member.
8520	0x00002148	ERROR_DS_LOCAL_CANT_HAVE_CROSSDOMAIN_LOCAL_MEMBER	A local group cannot have another cross-domain local group as a member.
8521	0x00002149	ERROR_DS_HAVE_PRIMARY_MEMBERS	A group with primary members cannot change to a security-disabled group.
8522	0x0000214A	ERROR_DS_STRING_SD_CONVERSION_FAILED	The schema cache load failed to convert the string default SD on a class-schema object.
8523	0x0000214B	ERROR_DS_NAMING_MASTER_GC	Only DSAs configured to be Global Catalog servers should be allowed to hold the Domain Naming Master FSMO role. (Applies only to Windows 2000 servers)
8524	0x0000214C	ERROR_DS_LOOKUP_FAILURE	The DSA operation is unable to proceed because of a DNS lookup failure.

		Error		Description
decimal	Hexadecimal	Name		
8525	0x0000214D	ERROR_DS_COULDNT_UPDATE_SPNS		While processing a change to the DNS Host Name for an object, the Service Principal Name values could not be kept in sync.
8526	0x0000214E	ERROR_DS_CANT_RETRIEVE_SD		The Security Descriptor attribute could not be read.
8527	0x0000214F	ERROR_DS_KEY_NOT_UNIQUE.		The object requested was not found, but an object with that key was found.
8528	0x00002150	ERROR_DS_WRONG_LINKED_ATT_SYNTAX		The syntax of the linked attributed being added is incorrect. Forward links can only have syntax 2.5.5.1, 2.5.5.7, and 2.5.5.14, and backlinks can only have syntax 2.5.5.1.
8529	0x00002151	ERROR_DS_SAM_NEED_BOOTKEY_PASS-WORD		Security Account Manager needs to get the boot password.
8530	0x00002152	ERROR_DS_SAM_NEED_BOOTKEY_FLOPPY		Security Account Manager needs to get the boot key from floppy disk.
8531	0x00002153	ERROR_DS_CANT_START		Directory Service cannot start.
8532	0x00002154	ERROR_DS_INIT_FAILURE		Directory Services could not start.
8533	0x00002155	ERROR_DS_NO_PKT_PRIVACY_ON_CONNEC-TION		The connection between client and server re-quires packet privacy or better.
8534	0x00002156	ERROR_DS_SOURCE_DOMAIN_IN_FOREST		The source domain may not be in the same forest as destination.
8535	0x00002157	ERROR_DS_DESTINATION_DO-MAIN_NOT_IN_FOREST		The destination domain must be in the forest.
8536	0x00002158	ERROR_DS_DESTINATION_AUDITING_NOT_EN-ABLED		The operation requires that destination domain auditing be enabled.
8537	0x00002159	ERROR_DS_CANT_FIND_DC_FOR_SRC_DO-MAIN		The operation couldn't locate a DC for the source domain.
8538	0x0000215A	ERROR_DS_SRC_OBJ_NOT_GROUP_OR_USER		The source object must be a group or user.
8539	0x0000215B	ERROR_DS_SRC_SID_EXISTS_IN_FOREST		The source object's SID already exists in destina-tion forest.
8540	0x0000215C	ERROR_DS_SRC_AND_DST_OB-JECT_CLASS_MISMATCH		The source and destination object must be of the same type.
8541	0x0000215D	ERROR_SAM_INIT_FAILURE		Security Accounts Manager initialization failed be-cause of the following error: %1. Error Status: 0x%2. Click OK to shut down the system and re-boot into Safe Mode. Check the event log for de-tailed information.
8542	0x0000215E	ERROR_DS_DRA_SCHEMA_INFO_SHIP		Schema information could not be included in the replication request.
8543	0x0000215F	ERROR_DS_DRA_SCHEMA_CONFLICT		The replication operation could not be completed due to a schema incompatibility.
8544	0x00002160	ERROR_DS_DRA_EARLIER_SCHEMA_CONFLICT		The replication operation could not be completed due to a previous schema incompatibility.
8545	0x00002161	ERROR_DS_DRA_OBJ_NC_MISMATCH		The replication update could not be applied be-cause either the source or the destination has not yet received information regarding a recent cross-domain move operation.
8546	0x00002162	ERROR_DS_NC_STILL_HAS_DSAS		The requested domain could not be deleted be-cause there exist domain controllers that still host this domain.
8547	0x00002163	ERROR_DS_GC_REQUIRED		The requested operation can be performed only on a global catalog server.
8548	0x00002164	ERROR_DS_LOCAL_MEMBER_OF_LO-CAL_ONLY		A local group can only be a member of other local groups in the same domain.
8549	0x00002165	ERROR_DS_NO_FPO_IN_UNIVERSAL_GROUPS		Foreign security principals cannot be members of universal groups.
8550	0x00002166	ERROR_DS_CANT_ADD_TO_GC		The attribute is not allowed to be replicated to the GC because of security reasons.
8551	0x00002167	ERROR_DS_NO_CHECKPOINT_WITH_PDC		The checkpoint with the PDC could not be taken because there are too many modifications being processed currently.
8552	0x00002168	ERROR_DS_SOURCE_AUDITING_NOT_EN-ABLED		The operation requires that source domain audit-ing be enabled.
8553	0x00002169	ERROR_DS_CANT_CREATE_IN_NONDO-MAIN_NC		Security principal objects can only be created in-side domain naming contexts.

		Error	Description
decimal	Hexadecimal	Name	
8554	0x0000216A	ERROR_DS_INVALID_NAME_FOR_SPN	A Service Principal Name (SPN) could not be constructed because the provided hostname is not in the necessary format.
8555	0x0000216B	ERROR_DS_FILTER_USES_CONSTRUCTED_ATTRIBUTES	A Filter was passed that uses constructed attributes.
8556	0x0000216C	ERROR_DS_UNICODEPWD_NOT_IN_QUOTES	The unicodePwd attribute value must be enclosed in double quotes.
8557	0x0000216D	ERROR_DS_MACHINE_ACCOUNT_QUOTA_EXCEEDED	Your computer could not be joined to the domain. You have exceeded the maximum number of computer accounts you are allowed to create in this domain. Contact your system administrator to have this limit reset or increased.
8558	0x0000216E	ERROR_DS_MUST_BE_RUN_ON_DST_DC	For security reasons, the operation must be run on the destination DC.
8559	0x0000216F	ERROR_DS_SRC_DC_MUST_BE_SP4_OR_GREATER	For security reasons, the source DC must be NT4SP4 or greater.
8560	0x00002170	ERROR_DS_CANT_TREE_DELETE_CRITICAL_OBJ	Critical Directory Service System objects cannot be deleted during tree delete operations. The tree delete may have been partially performed.
8561	0x00002171	ERROR_DS_INIT_FAILURE_CONSOLE	Directory Services could not start because of the following error: %1. Error Status: 0x%2. Please click OK to shutdown the system. You can use the recovery console to diagnose the system further.
8562	0x00002172	ERROR_DS_SAM_INIT_FAILURE_CONSOLE	Security Accounts Manager initialization failed because of the following error: %1. Error Status: 0x%2. Please click OK to shutdown the system. You can use the recovery console to diagnose the system further.
8563	0x00002173	ERROR_DS_FOREST_VERSION_TOO_HIGH	This version of Windows is too old to support the current directory forest behavior. You must upgrade the operating system on this server before it can become a domain controller in this forest.
8564	0x00002174	ERROR_DS_DOMAIN_VERSION_TOO_HIGH	This version of Windows is too old to support the current domain behavior. You must upgrade the operating system on this server before it can become a domain controller in this domain.
8565	0x00002175	ERROR_DS_FOREST_VERSION_TOO_LOW	This version of Windows no longer supports the behavior version in use in this directory forest. You must advance the forest behavior version before this server can become a domain controller in the forest.
8566	0x00002176	ERROR_DS_DOMAIN_VERSION_TOO_LOW	This version of Windows no longer supports the behavior version in use in this domain. You must advance the domain behavior version before this server can become a domain controller in the domain.
8567	0x00002177	ERROR_DS_INCOMPATIBLE_VERSION	The version of Windows is incompatible with the behavior version of the domain or forest.
8568	0x00002178	ERROR_DS_LOW_DSA_VERSION	The behavior version cannot be increased to the requested value because Domain Controllers still exist with versions lower than the requested value.
8569	0x00002179	ERROR_DS_NO_BEHAVIOR_VERSION_IN_MIXEDDOMAIN	The behavior version value cannot be increased while the domain is still in mixed domain mode. You must first change the domain to native mode before increasing the behavior version.
8570	0x0000217A	ERROR_DS_NOT_SUPPORTED_SORT_ORDER	The sort order requested is not supported.
8571	0x0000217B	ERROR_DS_NAME_NOT_UNIQUE	Found an object with a non unique name.
8572	0x0000217C	ERROR_DS_MACHINE_ACCOUNT_CREATED_PRENT4	The machine account was created pre-NT4. The account needs to be recreated.
8573	0x0000217D	ERROR_DS_OUT_OF_VERSION_STORE	The database is out of version store.
8574	0x0000217E	ERROR_DS_INCOMPATIBLE_CONTROLS_USED	Unable to continue operation because multiple conflicting controls were used.
8575	0x0000217F	ERROR_DS_NO_REF_DOMAIN	Unable to find a valid security descriptor reference domain for this partition.

Error			Description
decimal	Hexadecimal	Name	
8576	0x00002180	ERROR_DS_RESERVED_LINK_ID	Schema update failed: The link identifier is reserved.
8577	0x00002181	ERROR_DS_LINK_ID_NOT_AVAILABLE	Schema update failed: There are no link identifiers available.
8578	0x00002182	ERROR_DS_AG_CANT_HAVE_UNIVERSAL_MEMBER	An account group can not have a universal group as a member.
8579	0x00002183	ERROR_DS_MODIFYDN_DISALLOWED_BY_INSTANCE_TYPE	Rename or move operations on naming context heads or read-only objects are not allowed.
8580	0x00002184	ERROR_DS_NO_OBJECT_MOVE_IN_SCHEMA_NC	Move operations on objects in the schema naming context are not allowed.
8581	0x00002185	ERROR_DS_MODIFYDN_DISALLOWED_BY_FLAG	A system flag has been set on the object and does not allow the object to be moved or renamed.
8582	0x00002186	ERROR_DS_MODIFYDN_WRONG_GRANDPARENT	This object is not allowed to change its grandparent container. Moves are not forbidden on this object, but are restricted to sibling containers.
8583	0x00002187	ERROR_DS_NAME_ERROR_TRUST_REFERRAL	Unable to resolve completely, a referral to another forest is generated.
8584	0x00002188	ERROR_NOT_SUPPORTED_ON_STANDARD_SERVER	The requested action is not supported on standard server.
8585	0x00002189	ERROR_DS_CANT_ACCESS_REMOTE_PART_OF_AD	Could not access a partition of the Active Directory located on a remote server. Make sure at least one server is running for the partition in question.
8586	0x0000218A	ERROR_DS_CR_IMPOSSIBLE_TO_VALIDATE_V2	The directory cannot validate the proposed naming context (or partition) name because it does not hold a replica nor can it contact a replica of the naming context above the proposed naming context. Please ensure that the parent naming context is properly registered in DNS, and at least one replica of this naming context is reachable by the Domain Naming master.
8587	0x0000218B	ERROR_DS_THREAD_LIMIT_EXCEEDED	The thread limit for this request was exceeded.
8588	0x0000218C	ERROR_DS_NOT_CLOSEST	The Global catalog server is not in the closet site.

Error			Description
decimal	Hexadecimal	Name	
9001	0x00002329	DNS_ERROR_RCODE_FORMAT_ERROR	DNS server unable to interpret format.
9002	0x0000232A	DNS_ERROR_RCODE_SERVER_FAILURE	DNS server failure.
9003	0x0000232B	DNS_ERROR_RCODE_NAME_ERROR	DNS name does not exist.
9004	0x0000232C	DNS_ERROR_RCODE_NOT_IMPLEMENTED	DNS request not supported by name server.
9005	0x0000232D	DNS_ERROR_RCODE_REFUSED	DNS operation refused.
9006	0x0000232E	DNS_ERROR_RCODE_YXDOMAIN	DNS name that ought not exist, does exist.
9007	0x0000232F	DNS_ERROR_RCODE_YXRRSET	DNS RR set that ought not exist, does exist.
9008	0x00002330	DNS_ERROR_RCODE_NXRRSET	DNS RR set that ought to exist, does not exist.
9009	0x00002331	DNS_ERROR_RCODE_NOTAUTH	DNS server not authoritative for zone.
9010	0x00002332	DNS_ERROR_RCODE_NOTZONE	DNS name in update or prereq is not in zone.
9016	0x00002338	DNS_ERROR_RCODE_BADSIG	DNS signature failed to verify.
9017	0x00002339	DNS_ERROR_RCODE_BADKEY	DNS bad key.
9018	0x0000233A	DNS_ERROR_RCODE_BADTIME	DNS signature validity expired.
9501	0x0000251D	DNS_INFO_NO_RECORDS	No records found for given DNS query.
9502	0x0000251E	DNS_ERROR_BAD_PACKET	Bad DNS packet.
9503	0x0000251F	DNS_ERROR_NO_PACKET	No DNS packet.
9504	0x00002520	DNS_ERROR_RCODE	DNS error, check rcode.
9505	0x00002521	DNS_ERROR_UNSECURE_PACKET	Unsecured DNS packet.
9551	0x0000254F	DNS_ERROR_INVALID_TYPE	Invalid DNS type.
9552	0x00002550	DNS_ERROR_INVALID_IP_ADDRESS	Invalid IP address.
9553	0x00002551	DNS_ERROR_INVALID_PROPERTY	Invalid property.
9554	0x00002552	DNS_ERROR_TRY_AGAIN_LATER	Try DNS operation again later.
9555	0x00002553	DNS_ERROR_NOT_UNIQUE	Record for given name and type is not unique.
9556	0x00002554	DNS_ERROR_NON_RFC_NAME	DNS name does not comply with RFC specifications.
9557	0x00002555	DNS_STATUS_FQDN	DNS name is a fully-qualified DNS name.

		Error	Description
decimal	Hexadecimal	Name	
9558	0x00002556	DNS_STATUS_DOTTED_NAME	DNS name is dotted (multi-label).
9559	0x00002557	DNS_STATUS_SINGLE_PART_NAME	DNS name is a single-part name.
9560	0x00002558	DNS_ERROR_INVALID_NAME_CHAR	DSN name contains an invalid character.
9561	0x00002559	DNS_ERROR_NUMERIC_NAME	DNS name is entirely numeric.
9601	0x00002581	DNS_ERROR_ZONE_DOES_NOT_EXIST	DNS zone does not exist.
9602	0x00002582	DNS_ERROR_NO_ZONE_INFO	DNS zone information not available.
9603	0x00002583	DNS_ERROR_INVALID_ZONE_OPERATION	Invalid operation for DNS zone.
9604	0x00002584	DNS_ERROR_ZONE_CONFIGURATION_ERROR	Invalid DNS zone configuration.
9605	0x00002585	DNS_ERROR_ZONE_HAS_NO_SOA_RECORD	DNS zone has no start of authority (SOA) record.
9606	0x00002586	DNS_ERROR_ZONE_HAS_NO_NS_RECORDS	DNS zone has no name server (NS) record.
9607	0x00002587	DNS_ERROR_ZONE_LOCKED	DNS zone is locked.
9608	0x00002588	DNS_ERROR_ZONE_CREATION_FAILED	DNS zone creation failed.
9609	0x00002589	DNS_ERROR_ZONE_ALREADY_EXISTS	DNS zone already exists.
9610	0x0000258A	DNS_ERROR_AUTOZONE_ALREADY_EXISTS	DNS automatic zone already exists.
9611	0x0000258B	DNS_ERROR_INVALID_ZONE_TYPE	Invalid DNS zone type.
9612	0x0000258C	DNS_ERROR_SECONDARY_REQUIRES_MASTER_IP	Secondary DNS zone requires master IP address.
9613	0x0000258D	DNS_ERROR_ZONE_NOT_SECONDARY	DNS zone not secondary.
9614	0x0000258E	DNS_ERROR_NEED_SECONDARY_ADDRESSES	Need secondary IP address.
9615	0x0000258F	DNS_ERROR_WINS_INIT_FAILED	WINS initialization failed.
9616	0x00002590	DNS_ERROR_NEED_WINS_SERVERS	Need WINS servers.
9617	0x00002591	DNS_ERROR_NBSTAT_INIT_FAILED	NBTSTAT initialization call failed.
9618	0x00002592	DNS_ERROR_SOA_DELETE_INVALID	Invalid delete of start of authority (SOA)
9619	0x00002593	DNS_ERROR_FORWARDER_ALREADY_EXISTS	A conditional forwarding zone already exists for that name.
9651	0x000025B3	DNS_ERROR_PRIMARY_REQUIRES_DATAFILE	Primary DNS zone requires datafile.
9652	0x000025B4	DNS_ERROR_INVALID_DATAFILE_NAME	Invalid datafile name for DNS zone.
9653	0x000025B5	DNS_ERROR_DATAFILE_OPEN_FAILURE	Failed to open datafile for DNS zone.
9654	0x000025B6	DNS_ERROR_FILE_WRITEBACK_FAILED	Failed to write datafile for DNS zone.
9655	0x000025B7	DNS_ERROR_DATAFILE_PARSING	Failure while reading datafile for DNS zone.
9701	0x000025E5	DNS_ERROR_RECORD_DOES_NOT_EXIST	DNS record does not exist.
9702	0x000025E6	DNS_ERROR_RECORD_FORMAT	DNS record format error.
9703	0x000025E7	DNS_ERROR_NODE_CREATION_FAILED	Node creation failure in DNS.
9704	0x000025E8	DNS_ERROR_UNKNOWN_RECORD_TYPE	Unknown DNS record type.
9705	0x000025E9	DNS_ERROR_RECORD_TIMED_OUT	DNS record timed out.
9706	0x000025EA	DNS_ERROR_NAME_NOT_IN_ZONE	Name not in DNS zone.
9707	0x000025EB	DNS_ERROR_CNAME_LOOP	CNAME loop detected.
9708	0x000025EC	DNS_ERROR_NODE_IS_CNAME	Node is a CNAME DNS record.
9709	0x000025ED	DNS_ERROR_CNAME_COLLISION	A CNAME record already exists for given name.
9710	0x000025EE	DNS_ERROR_RECORD_ONLY_AT_ZONE_ROOT	Record only at DNS zone root.
9711	0x000025EF	DNS_ERROR_RECORD_ALREADY_EXISTS	DNS record already exists.
9712	0x000025F0	DNS_ERROR_SECONDARY_DATA	Secondary DNS zone data error.
9713	0x000025F1	DNS_ERROR_NO_CREATE_CACHE_DATA	Could not create DNS cache data.
9714	0x000025F2	DNS_ERROR_NAME_DOES_NOT_EXIST	DNS name does not exist.
9715	0x000025F3	DNS_WARNING_PTR_CREATE_FAILED	Could not create pointer (PTR) record.
9716	0x000025F4	DNS_WARNING_DOMAIN_UNDELETED	DNS domain was undeleted.
9717	0x000025F5	DNS_ERROR_DS_UNAVAILABLE	The directory service is unavailable.
9718	0x000025F6	DNS_ERROR_DS_ZONE_ALREADY_EXISTS	DNS zone already exists in the directory service.
9719	0x000025F7	DNS_ERROR_NO_BOOTFILE_IF_DS_ZONE	DNS server not creating or reading the boot file for the directory service integrated DNS zone.
9751	0x00002617	DNS_INFO_AXFR_COMPLETE	DNS AXFR (zone transfer) complete.
9752	0x00002618	DNS_ERROR_AXFR	DNS zone transfer failed.
9753	0x00002619	DNS_INFO_ADDED_LOCAL_WINS	Added local WINS server.
9801	0x00002649	DNS_STATUS_CONTINUE_NEEDED	Secure update call needs to continue update request.
9851	0x0000267B	DNS_ERROR_NO_TCPIP	TCP/IP network protocol not installed.
9852	0x0000267C	DNS_ERROR_NO_DNS_SERVERS	No DNS servers configured for local system.
9901	0x000026AD	DNS_ERROR_DP_DOES_NOT_EXIST	The specified directory partition does not exist.

Error			Description
decimal	Hexadecimal	Name	
9902	0x000026AE	DNS_ERROR_DP_ALREADY_EXISTS	The specified directory partition already exists.
9903	0x000026AF	DNS_ERROR_DP_NOT_ENLISTED	The DS is not enlisted in the specified directory partition.
9904	0x000026B0	DNS_ERROR_DP_ALREADY_ENLISTED	The DS is already enlisted in the specified directory partition.

Error			Description
decimal	Hexadecimal	Name	
10004	0x00002714	WSAEINTR	A blocking operation was interrupted by a call to WSACancelBlockingCall.
10009	0x00002719	WSAEBADF	The file handle supplied is not valid.
10013	0x0000271D	WSAEACCES	An attempt was made to access a socket in a way forbidden by its access permissions.
10014	0x0000271E	WSAEFAULT	The system detected an invalid pointer address in attempting to use a pointer argument in a call.
10022	0x00002726	WSAEINVAL	An invalid argument was supplied.
10024	0x00002728	WSAEMFILE	Too many open sockets.
10035	0x00002733	WSAEWOULDBLOCK	A non-blocking socket operation could not be completed immediately.
10036	0x00002734	WSAEINPROGRESS	A blocking operation is currently executing.
10037	0x00002735	WSAEALREADY	An operation was attempted on a non-blocking socket that already had an operation in progress.
10038	0x00002736	WSAENOTSOCK	An operation was attempted on something that is not a socket.
10039	0x00002737	WSAEDESTADDRREQ	A required address was omitted from an operation on a socket.
10040	0x00002738	WSAEMSGSIZE	A message sent on a datagram socket was larger than the internal message buffer or some other network limit, or the buffer used to receive a datagram into was smaller than the datagram itself.
10041	0x00002739	WSAEPROTOTYPE	A protocol was specified in the socket function call that does not support the semantics of the socket type requested.
10042	0x0000273A	WSAENOPROTOOPT	An unknown, invalid, or unsupported option or level was specified in a getsockopt or setsockopt call.
10043	0x0000273B	WSAEPROTONOSUPPORT	The requested protocol has not been configured into the system, or no implementation for it exists.
10044	0x0000273C	WSAESOCKTNOSUPPORT	The support for the specified socket type does not exist in this address family.
10045	0x0000273D	WSAEOPNOTSUPP	The attempted operation is not supported for the type of object referenced.
10046	0x0000273E	WSAEPFNOSUPPORT	The protocol family has not been configured into the system or no implementation for it exists.
10047	0x0000273F	WSAEAFNOSUPPORT	An address incompatible with the requested protocol was used.
10048	0x00002740	WSAEADDRINUSE	Only one usage of each socket address (protocol/network address/port) is normally permitted.
10049	0x00002741	WSAEADDRNOTAVAIL	The requested address is not valid in its context.
10050	0x00002742	WSAENETDOWN	A socket operation encountered a dead network.
10051	0x00002743	WSAENETUNREACH	A socket operation was attempted to an unreachable network.
10052	0x00002744	WSAENETRESET	The connection has been broken due to keep-alive activity detecting a failure while the operation was in progress.
10053	0x00002745	WSAECONNABORTED	An established connection was aborted by the software in your host machine.
10054	0x00002746	WSAECONNRESET	An existing connection was forcibly closed by the remote host.
10055	0x00002747	WSAENOBUFS	An operation on a socket could not be performed because the system lacked sufficient buffer space or because a queue was full.
10056	0x00002748	WSAEISCONN	A connect request was made on an already connected socket.

		Error		Description
decimal	Hexadecimal	Name		
10057	0x00002749	WSAENOTCONN		A request to send or receive data was disallowed because the socket is not connected and (when sending on a datagram socket using a sendto call) no address was supplied.
10058	0x0000274A	WSAESHUTDOWN		A request to send or receive data was disallowed because the socket had already been shut down in that direction with a previous shutdown call.
10059	0x0000274B	WSAETOOMANYREFS		Too many references to some kernel object.
10060	0x0000274C	WSAETIMEDOUT		A connection attempt failed because the connected party did not properly respond after a period of time, or established connection failed because connected host has failed to respond.
10061	0x0000274D	WSAECONNREFUSED		No connection could be made because the target machine actively refused it.
10062	0x0000274E	WSAELOOP		Cannot translate name.
10063	0x0000274F	WSAENAMETOOLONG		Name component or name was too long.
10064	0x00002750	WSAEHOSTDOWN		A socket operation failed because the destination host was down.
10065	0x00002751	WSAEHOSTUNREACH		A socket operation was attempted to an unreachable host.
10066	0x00002752	WSAENOTEMPTY		Cannot remove a directory that is not empty.
10067	0x00002753	WSAEPROCLIM		A Windows Sockets implementation may have a limit on the number of applications that may use it simultaneously.
10068	0x00002754	WSAEUSERS		Ran out of quota.
10069	0x00002755	WSAEDQUOT		Ran out of disk quota.
10070	0x00002756	WSAESTALE		File handle reference is no longer available.
10071	0x00002757	WSAEREMOTE		Item is not available locally.
10091	0x0000276B	WSASYSNOTREADY		WSAStartup cannot function at this time because the underlying system it uses to provide network services is currently unavailable.
10092	0x0000276C	WSAVERNOTSUPPORTED		The Windows Sockets version requested is not supported.
10093	0x0000276D	WSANOTINITIALISED		Either the application has not called WSAStartup, or WSAStartup failed.
10101	0x00002775	WSAEDISCON		Returned by WSAREcv or WSAREcvFrom to indicate the remote party has initiated a graceful shutdown sequence.
10102	0x00002776	WSAENOMORE		No more results can be returned by WSA-LookupServiceNext.
10103	0x00002777	WSAECANCELLED		A call to WSALookupServiceEnd was made while this call was still processing. The call has been canceled.
10104	0x00002778	WSAEINVALIDPROCTABLE		The procedure call table is invalid.
10105	0x00002779	WSAEINVALIDPROVIDER		The requested service provider is invalid.
10106	0x0000277A	WSAEPROVIDERFAILEDINIT		The requested service provider could not be loaded or initialized.
10107	0x0000277B	WSASYSCALLFAILURE		A system call that should never fail has failed.
10108	0x0000277C	WSASERVICE_NOT_FOUND		No such service is known. The service cannot be found in the specified name space.
10109	0x0000277D	WSATYPE_NOT_FOUND		The specified class was not found.
10110	0x0000277E	WSA_E_NO_MORE		No more results can be returned by WSA-LookupServiceNext.
10111	0x0000277F	WSA_E_CANCELLED		A call to WSALookupServiceEnd was made while this call was still processing. The call has been canceled.
10112	0x00002780	WSAEREFUSED		A database query failed because it was actively refused.
11001	0x00002AF9	WSAHOST_NOT_FOUND		No such host is known.
11002	0x00002AFA	WSATRY_AGAIN		This is usually a temporary error during hostname resolution and means that the local server did not receive a response from an authoritative server.
11003	0x00002AFB	WSANO_RECOVERY		A non-recoverable error occurred during a database lookup.

Error			Description
decimal	Hexadecimal	Name	
11004	0x00002AFC	WSANO_DATA	The requested name is valid and was found in the database, but it does not have the correct associated data being resolved for.
11005	0x00002AFD	WSA_QOS_RECEIVERS	At least one reserve has arrived.
11006	0x00002AFE	WSA_QOS_SENDERS	At least one path has arrived.
11007	0x00002AFF	WSA_QOS_NO_SENDERS	There are no senders.
11008	0x00002B00	WSA_QOS_NO_RECEIVERS	There are no receivers.
11009	0x00002B01	WSA_QOS_REQUEST_CONFIRMED	Reserve has been confirmed.
11010	0x00002B02	WSA_QOS_ADMISSION_FAILURE	Error due to lack of resources.
11011	0x00002B03	WSA_QOS_POLICY_FAILURE	Rejected for administrative reasons - bad credentials.
11012	0x00002B04	WSA_QOS_BAD_STYLE	Unknown or conflicting style.
11013	0x00002B05	WSA_QOS_BAD_OBJECT	Problem with some part of the filterspec or providerspecific buffer in general.
11014	0x00002B06	WSA_QOS_TRAFFIC_CTRL_ERROR	Problem with some part of the flowspec.
11015	0x00002B07	WSA_QOS_GENERIC_ERROR	General QOS error.
11016	0x00002B08	WSA_QOS_ESERVICETYPE	An invalid or unrecognized service type was found in the flowspec.
11017	0x00002B09	WSA_QOS_EFLOWSPEC	An invalid or inconsistent flowspec was found in the QOS structure.
11018	0x00002B0A	WSA_QOS_EPROVSPECBUF	Invalid QOS provider-specific buffer.
11019	0x00002B0B	WSA_QOS_EFILTERSTYLE	An invalid QOS filter style was used.
11020	0x00002B0C	WSA_QOS_EFILTERTYPE	An invalid QOS filter type was used.
11021	0x00002B0D	WSA_QOS_EFILTERCOUNT	An incorrect number of QOS FILTERSPECS were specified in the FLOWDESCRIPTOR.
11022	0x00002B0E	WSA_QOS_EOBJLENGTH	An object with an invalid ObjectLength field was specified in the QOS provider-specific buffer.
11023	0x00002B0F	WSA_QOS_EFLOWCOUNT	An incorrect number of flow descriptors was specified in the QOS structure.
11024	0x00002B10	WSA_QOS_EUNKNOWNPSOBJ	An unrecognized object was found in the QOS provider-specific buffer.
11025	0x00002B11	WSA_QOS_EPOLICYOBJ	An invalid policy object was found in the QOS provider-specific buffer.
11026	0x00002B12	WSA_QOS_EFLOWDESC	An invalid QOS flow descriptor was found in the flow descriptor list.
11027	0x00002B13	WSA_QOS_EPSFLOWSPEC	An invalid or inconsistent flowspec was found in the QOS provider-specific buffer.
11028	0x00002B14	WSA_QOS_EPSFILTERSPEC	An invalid FILTERSPEC was found in the QOS provider-specific buffer.
11029	0x00002B15	WSA_QOS_ESDMODEOBJ	An invalid shape discard mode object was found in the QOS provider-specific buffer.
11030	0x00002B16	WSA_QOS_ESHAPERATEOBJ	An invalid shaping rate object was found in the QOS provider-specific buffer.
11031	0x00002B17	WSA_QOS_RESERVED_PETYPE	A reserved policy element was found in the QOS provider-specific buffer.

Error			Description
decimal	Hexadecimal	Name	
12000	0x00002EE0	ERROR_SXS_SECTION_NOT_FOUND	The requested section was not present in the activation context.
12001	0x00002EE1	ERROR_SXS_CANT_GEN_ACTCTX	This application has failed to start because the application configuration is incorrect. Reinstalling the application may fix this problem.
12002	0x00002EE2	ERROR_SXS_INVALID_ACTCTXDATA_FORMAT	The application binding data format is invalid.
12003	0x00002EE3	ERROR_SXS_ASSEMBLY_NOT_FOUND	The referenced assembly is not installed on your system.
12004	0x00002EE4	ERROR_SXS_MANIFEST_FORMAT_ERROR	The manifest file does not begin with the required tag and format information.
12005	0x00002EE5	ERROR_SXS_MANIFEST_PARSE_ERROR	The manifest file contains one or more syntax errors.
12006	0x00002EE6	ERROR_SXS_ACTIVATION_CONTEXT_DISABLED	The application attempted to activate a disabled activation context.

Error			Description
decimal	Hexadecimal	Name	
12007	0x00002EE7	ERROR_SXS_KEY_NOT_FOUND	The requested lookup key was not found in any active activation context.
12008	0x00002EE8	ERROR_SXS_VERSION_CONFLICT	A component version required by the application conflicts with another component version already active.
12009	0x00002EE9	ERROR_SXS_WRONG_SECTION_TYPE	The type requested activation context section does not match the query API used.
12010	0x00002EEA	ERROR_SXS_THREAD_QUERIES_DISABLED	Lack of system resources has required isolated activation to be disabled for the current thread of execution.
12011	0x00002EEB	ERROR_SXS_PROCESS_DEFAULT_ALREADY_SET	An attempt to set the process default activation context failed because the process default activation context was already set.
12012	0x00002EEC	ERROR_SXS_UNKNOWN_ENCODING_GROUP	The encoding group identifier specified is not recognized.
12013	0x00002EED	ERROR_SXS_UNKNOWN_ENCODING	The encoding requested is not recognized.
12014	0x00002EEE	ERROR_SXS_INVALID_XML_NAMESPACE_URI	The manifest contains a reference to an invalid URI.
12015	0x00002EEF	ERROR_SXS_ROOT_MANIFEST_DEPENDENCY_NOT_INSTALLED	The application manifest contains a reference to a dependent assembly which is not installed.
12016	0x00002EF0	ERROR_SXS_LEAF_MANIFEST_DEPENDENCY_NOT_INSTALLED	The manifest for an assembly used by the application has a reference to a dependent assembly which is not installed.
12017	0x00002EF1	ERROR_SXS_INVALID_ASSEMBLY_IDENTITY_ATTRIBUTE	The manifest contains an attribute for the assembly identity which is not valid.
12018	0x00002EF2	ERROR_SXS_MANIFEST_MISSING_REQUIRED_DEFAULT_NAMESPACE	The manifest is missing the required default namespace specification on the assembly element.
12019	0x00002EF3	ERROR_SXS_MANIFEST_INVALID_REQUIRED_DEFAULT_NAMESPACE	The manifest has a default namespace specified on the assembly element but its value is not "urn:schemas-microsoft-com:asm.v1".
12020	0x00002EF4	ERROR_SXS_PRIVATE_MANIFEST_CROSS_PATH_WITH_REPARSE_POINT	The private manifest probe has crossed the reparse-point-associated path.
12021	0x00002EF5	ERROR_SXS_DUPLICATE_DLL_NAME	Two or more components referenced directly or indirectly by the application manifest have files by the same name.
12022	0x00002EF6	ERROR_SXS_DUPLICATE_WINDOWCLASS_NAME	Two or more components referenced directly or indirectly by the application manifest have window classes with the same name.
12023	0x00002EF7	ERROR_SXS_DUPLICATE_CLSID	Two or more components referenced directly or indirectly by the application manifest have the same COM server CLSIDs.
12024	0x00002EF8	ERROR_SXS_DUPLICATE_IID	Two or more components referenced directly or indirectly by the application manifest have proxies for the same COM interface IIDs.
12025	0x00002EF9	ERROR_SXS_DUPLICATE_TLBID	Two or more components referenced directly or indirectly by the application manifest have the same COM type library TLBIDs.
12026	0x00002EFA	ERROR_SXS_DUPLICATE_PROGID	Two or more components referenced directly or indirectly by the application manifest have the same COM ProgIDs.
12027	0x00002EFB	ERROR_SXS_DUPLICATE_ASSEMBLY_NAME	Two or more components referenced directly or indirectly by the application manifest are different versions of the same component which is not permitted.
12028	0x00002EFC	ERROR_SXS_FILE_HASH_MISMATCH	A component's file does not match the verification information present in the component manifest.
12029	0x00002EFD	ERROR_SXS_POLICY_PARSE_ERROR	The policy manifest contains one or more syntax errors.
12030	0x00002EFE	ERROR_SXS_XML_E_MISSINGQUOTE	Manifest Parse Error : A string literal was expected, but no opening quote character was found.
12031	0x00002EFF	ERROR_SXS_XML_E_COMMENTSYNTAX	Manifest Parse Error : Incorrect syntax was used in a comment.
12032	0x00002F00	ERROR_SXS_XML_E_BADSTARTNAMECHAR	Manifest Parse Error : A name was started with an invalid character.

		Error		Description
decimal	Hexadecimal	Name		
12033	0x00002F01	ERROR_SXS_XML_E_BADNAMECHAR		Manifest Parse Error : A name contained an invalid character.
12034	0x00002F02	ERROR_SXS_XML_E_BADCHARINSTRING		Manifest Parse Error : A string literal contained an invalid character.
12035	0x00002F03	ERROR_SXS_XML_E_XMLDECLSYNTAX		Manifest Parse Error : Invalid syntax for an XML declaration.
12036	0x00002F04	ERROR_SXS_XML_E_BADCHARDATA		Manifest Parse Error : An invalid character was found in text content.
12037	0x00002F05	ERROR_SXS_XML_E_MISSINGWHITESPACE		Manifest Parse Error : Required white space was missing.
12038	0x00002F06	ERROR_SXS_XML_E_EXPECTINGTAGEND		Manifest Parse Error : The character '>' was expected.
12039	0x00002F07	ERROR_SXS_XML_E_MISSINGSEMICOLON		Manifest Parse Error : A semi colon character was expected.
12040	0x00002F08	ERROR_SXS_XML_E_UNBALANCEDPAREN		Manifest Parse Error : Unbalanced parentheses.
12041	0x00002F09	ERROR_SXS_XML_E_INTERNALERROR		Manifest Parse Error : Internal error.
12042	0x00002F0A	ERROR_SXS_XML_E_UNEXPECTED_WHITE-SPACE		Manifest Parse Error : White space is not allowed at this location.
12043	0x00002F0B	ERROR_SXS_XML_E_INCOMPLETE_ENCODING		Manifest Parse Error : End of file reached in invalid state for current encoding.
12044	0x00002F0C	ERROR_SXS_XML_E_MISSING_PAREN		Manifest Parse Error : Missing parenthesis.
12045	0x00002F0D	ERROR_SXS_XML_E_EXPECTINGCLOSEQUOTE		Manifest Parse Error : A single or double closing quote character (' or ") is missing.
12046	0x00002F0E	ERROR_SXS_XML_E_MULTIPLE_COLONS		Manifest Parse Error : Multiple colons are not allowed in a name.
12047	0x00002F0F	ERROR_SXS_XML_E_INVALID_DECIMAL		Manifest Parse Error : Invalid character for decimal digit.
12048	0x00002F10	ERROR_SXS_XML_E_INVALID_HEXIDECIMAL		Manifest Parse Error : Invalid character for hexadecimal digit.
12049	0x00002F11	ERROR_SXS_XML_E_INVALID_UNICODE		Manifest Parse Error : Invalid Unicode character value for this platform.
12050	0x00002F12	ERROR_SXS_XML_E_WHITESPACEORQUESTIONMARK		Manifest Parse Error : Expecting white space or '?'.
12051	0x00002F13	ERROR_SXS_XML_E_UNEXPECTEDENDTAG		Manifest Parse Error : End tag was not expected at this location.
12052	0x00002F14	ERROR_SXS_XML_E_UNCLOSEDTAG		Manifest Parse Error : The following tags were not closed: %1.
12053	0x00002F15	ERROR_SXS_XML_E_DUPLICATEATTRIBUTE		Manifest Parse Error : Duplicate attribute.
12054	0x00002F16	ERROR_SXS_XML_E_MULTIPLEROOTS		Manifest Parse Error : Only one top level element is allowed in an XML document.
12055	0x00002F17	ERROR_SXS_XML_E_INVALIDATROOTLEVEL		Manifest Parse Error : Invalid at the top level of the document.
12056	0x00002F18	ERROR_SXS_XML_E_BADXMLDECL		Manifest Parse Error : Invalid XML declaration.
12057	0x00002F19	ERROR_SXS_XML_E_MISSINGROOT		Manifest Parse Error : XML document must have a top level element.
12058	0x00002F1A	ERROR_SXS_XML_E_UNEXPECTEDEOF		Manifest Parse Error : Unexpected end of file.
12059	0x00002F1B	ERROR_SXS_XML_E_BADPEREFINSUBSET		Manifest Parse Error : Parameter entities cannot be used inside markup declarations in an internal subset.
12060	0x00002F1C	ERROR_SXS_XML_E_UNCLOSEDSTARTTAG		Manifest Parse Error : Element was not closed.
12061	0x00002F1D	ERROR_SXS_XML_E_UNCLOSEDENDTAG		Manifest Parse Error : End element was missing the character '>'.
12062	0x00002F1E	ERROR_SXS_XML_E_UNCLOSEDSTRING		Manifest Parse Error : A string literal was not closed.
12063	0x00002F1F	ERROR_SXS_XML_E_UNCLOSEDCOMMENT		Manifest Parse Error : A comment was not closed.
12064	0x00002F20	ERROR_SXS_XML_E_UNCLOSEDDECL		Manifest Parse Error : A declaration was not closed.
12065	0x00002F21	ERROR_SXS_XML_E_UNCLOSEDCDATA		Manifest Parse Error : A CDATA section was not closed.
12066	0x00002F22	ERROR_SXS_XML_E_RESERVEDNAMESPACE		Manifest Parse Error : The namespace prefix is not allowed to start with the reserved string "xml".
12067	0x00002F23	ERROR_SXS_XML_E_INVALIDENCODING		Manifest Parse Error : System does not support the specified encoding.

		Error	Description
decimal	Hexadecimal	Name	
12068	0x00002F24	ERROR_SXS_XML_E_INVALIDSWITCH	Manifest Parse Error : Switch from current encoding to specified encoding not supported.
12069	0x00002F25	ERROR_SXS_XML_E_BADXMLCASE	Manifest Parse Error : The name 'xml' is reserved and must be lower case.
12070	0x00002F26	ERROR_SXS_XML_E_INVALID_STANDALONE	Manifest Parse Error : The standalone attribute must have the value 'yes' or 'no'.
12071	0x00002F27	ERROR_SXS_XML_E_UNEXPECTED_STANDALONE	Manifest Parse Error : The standalone attribute cannot be used in external entities.
12072	0x00002F28	ERROR_SXS_XML_E_INVALID_VERSION	Manifest Parse Error : Invalid version number.
12073	0x00002F29	ERROR_SXS_XML_E_MISSINGEQUALS	Manifest Parse Error : Missing equals sign between attribute and attribute value.
13000	0x000032C8	ERROR_IPSEC_QM_POLICY_EXISTS	The specified quick mode policy already exists.
13001	0x000032C9	ERROR_IPSEC_QM_POLICY_NOT_FOUND	The specified quick mode policy was not found.
13002	0x000032CA	ERROR_IPSEC_QM_POLICY_IN_USE	The specified quick mode policy is being used.
13003	0x000032CB	ERROR_IPSEC_MM_POLICY_EXISTS	The specified main mode policy already exists.
13004	0x000032CC	ERROR_IPSEC_MM_POLICY_NOT_FOUND	The specified main mode policy was not found.
13005	0x000032CD	ERROR_IPSEC_MM_POLICY_IN_USE	The specified main mode policy is being used.
13006	0x000032CE	ERROR_IPSEC_MM_FILTER_EXISTS	The specified main mode filter already exists.
13007	0x000032CF	ERROR_IPSEC_MM_FILTER_NOT_FOUND	The specified main mode filter was not found.
13008	0x000032D0	ERROR_IPSEC_TRANSPORT_FILTER_EXISTS	The specified transport mode filter already exists.
13009	0x000032D1	ERROR_IPSEC_TRANSPORT_FILTER_NOT_FOUND	The specified transport mode filter does not exist.
13010	0x000032D2	ERROR_IPSEC_MM_AUTH_EXISTS	The specified main mode authentication list exists.
13011	0x000032D3	ERROR_IPSEC_MM_AUTH_NOT_FOUND	The specified main mode authentication list was not found.
13012	0x000032D4	ERROR_IPSEC_MM_AUTH_IN_USE	The specified quick mode policy is being used.
13013	0x000032D5	ERROR_IPSEC_DEFAULT_MM_POLICY_NOT_FOUND	The specified main mode policy was not found.
13014	0x000032D6	ERROR_IPSEC_DEFAULT_MM_AUTH_NOT_FOUND	The specified quick mode policy was not found.
13015	0x000032D7	ERROR_IPSEC_DEFAULT_QM_POLICY_NOT_FOUND	The manifest file contains one or more syntax errors.
13016	0x000032D8	ERROR_IPSEC_TUNNEL_FILTER_EXISTS	The application attempted to activate a disabled activation context.
13017	0x000032D9	ERROR_IPSEC_TUNNEL_FILTER_NOT_FOUND	The requested lookup key was not found in any active activation context.
13018	0x000032DA	ERROR_IPSEC_MM_FILTER_PENDING_DELETION	The Main Mode filter is pending deletion.
13019	0x000032DB	ERROR_IPSEC_TRANSPORT_FILTER_PENDING_DELETION	The transport filter is pending deletion.
13020	0x000032DC	ERROR_IPSEC_TUNNEL_FILTER_PENDING_DELETION	The tunnel filter is pending deletion.
13021	0x000032DD	ERROR_IPSEC_MM_POLICY_PENDING_DELETION	The Main Mode policy is pending deletion.
13022	0x000032DE	ERROR_IPSEC_MM_AUTH_PENDING_DELETION	The Main Mode authentication bundle is pending deletion.
13023	0x000032DF	ERROR_IPSEC_QM_POLICY_PENDING_DELETION	The Quick Mode policy is pending deletion.
13801	0x000035E9	ERROR_IPSEC_IKE_AUTH_FAIL	IKE authentication credentials are unacceptable.
13802	0x000035EA	ERROR_IPSEC_IKE_ATTRIB_FAIL	IKE security attributes are unacceptable.
13803	0x000035EB	ERROR_IPSEC_IKE_NEGOTIATION_PENDING	IKE Negotiation in progress.
13804	0x000035EC	ERROR_IPSEC_IKE_GENERAL_PROCESSING_ERROR	General processing error.
13805	0x000035ED	ERROR_IPSEC_IKE_TIMED_OUT	Negotiation timed out.
13806	0x000035EE	ERROR_IPSEC_IKE_NO_CERT	IKE failed to find valid machine certificate.
13807	0x000035EF	ERROR_IPSEC_IKE_SA_DELETED	IKE SA deleted by peer before establishment completed.
13808	0x000035F0	ERROR_IPSEC_IKE_SA_REAPED	IKE SA deleted before establishment completed.
13809	0x000035F1	ERROR_IPSEC_IKE_MM_ACQUIRE_DROP	Negotiation request sat in Queue too long.
13810	0x000035F2	ERROR_IPSEC_IKE_QM_ACQUIRE_DROP	Negotiation request sat in Queue too long.
13811	0x000035F3	ERROR_IPSEC_IKE_QUEUE_DROP_MM	Negotiation request sat in Queue too long.

		Error	Description
decimal	Hexadecimal	Name	
13812	0x000035F4	ERROR_IPSEC_IKE_QUEUE_DROP_NO_MM	Negotiation request sat in Queue too long.
13813	0x000035F5	ERROR_IPSEC_IKE_DROP_NO_RESPONSE	No response from peer.
13814	0x000035F6	ERROR_IPSEC_IKE_MM_DELAY_DROP	Negotiation took too long.
13815	0x000035F7	ERROR_IPSEC_IKE_QM_DELAY_DROP	Negotiation took too long.
13816	0x000035F8	ERROR_IPSEC_IKE_ERROR	Unknown error occurred.
13817	0x000035F9	ERROR_IPSEC_IKE_CRL_FAILED	Certificate Revocation Check failed.
13818	0x000035FA	ERROR_IPSEC_IKE_INVALID_KEY_USAGE	Invalid certificate key usage.
13819	0x000035FB	ERROR_IPSEC_IKE_INVALID_CERT_TYPE	Invalid certificate type.
13820	0x000035FC	ERROR_IPSEC_IKE_NO_PRIVATE_KEY	No private key associated with machine certificate.
13822	0x000035FE	ERROR_IPSEC_IKE_DH_FAIL	Failure in Diffie-Helman computation.
13824	0x00003600	ERROR_IPSEC_IKE_INVALID_HEADER	Invalid header.
13825	0x00003601	ERROR_IPSEC_IKE_NO_POLICY	No policy configured.
13826	0x00003602	ERROR_IPSEC_IKE_INVALID_SIGNATURE	Failed to verify signature.
13827	0x00003603	ERROR_IPSEC_IKE_KERBEROS_ERROR	Failed to authenticate using Kerberos.
13828	0x00003604	ERROR_IPSEC_IKE_NO_PUBLIC_KEY	Peer's certificate did not have a public key.
13829	0x00003605	ERROR_IPSEC_IKE_PROCESS_ERR	Error processing error payload.
13830	0x00003606	ERROR_IPSEC_IKE_PROCESS_ERR_SA	Error processing SA payload.
13831	0x00003607	ERROR_IPSEC_IKE_PROCESS_ERR_PROP	Error processing Proposal payload.
13832	0x00003608	ERROR_IPSEC_IKE_PROCESS_ERR_TRANS	Error processing Transform payload.
13833	0x00003609	ERROR_IPSEC_IKE_PROCESS_ERR_KE	Error processing KE payload.
13834	0x0000360A	ERROR_IPSEC_IKE_PROCESS_ERR_ID	Error processing ID payload.
13835	0x0000360B	ERROR_IPSEC_IKE_PROCESS_ERR_CERT	Error processing Cert payload.
13836	0x0000360C	ERROR_IPSEC_IKE_PROCESS_ERR_CERT_REQ	Error processing Certificate Request payload.
13837	0x0000360D	ERROR_IPSEC_IKE_PROCESS_ERR_HASH	Error processing Hash payload.
13838	0x0000360E	ERROR_IPSEC_IKE_PROCESS_ERR_SIG	Error processing Signature payload.
13839	0x0000360F	ERROR_IPSEC_IKE_PROCESS_ERR_NONCE	Error processing Nonce payload.
13840	0x00003610	ERROR_IPSEC_IKE_PROCESS_ERR_NOTIFY	Error processing Notify payload.
13841	0x00003611	ERROR_IPSEC_IKE_PROCESS_ERR_DELETE	Error processing Delete Payload.
13842	0x00003612	ERROR_IPSEC_IKE_PROCESS_ERR_VENDOR	Error processing Vendorid payload.
13843	0x00003613	ERROR_IPSEC_IKE_INVALID_PAYLOAD	Invalid payload received.
13844	0x00003614	ERROR_IPSEC_IKE_LOAD_SOFT_SA	Soft SA loaded.
13845	0x00003615	ERROR_IPSEC_IKE_SOFT_SA_TORN_DOWN	Soft SA torn down.
13846	0x00003616	ERROR_IPSEC_IKE_INVALID_COOKIE	Invalid cookie received..
13847	0x00003617	ERROR_IPSEC_IKE_NO_PEER_CERT	Peer failed to send valid machine certificate.
13848	0x00003618	ERROR_IPSEC_IKE_PEER_CRL_FAILED	Certification Revocation check of peer's certificate failed.
13849	0x00003619	ERROR_IPSEC_IKE_POLICY_CHANGE	New policy invalidated SAs formed with old policy.
13850	0x0000361A	ERROR_IPSEC_IKE_NO_MM_POLICY	There is no available Main Mode IKE policy.
13851	0x0000361B	ERROR_IPSEC_IKE_NOTCBPRIV	Failed to enabled TCB privilege.
13852	0x0000361C	ERROR_IPSEC_IKE_SECLOADFAIL	Failed to load SECURITY.DLL.
13853	0x0000361D	ERROR_IPSEC_IKE_FAILSSPINIT	Failed to obtain security function table dispatch address from SSPI.
13854	0x0000361E	ERROR_IPSEC_IKE_FAILQUERYSSP	Failed to query Kerberos package to obtain max token size.
13855	0x0000361F	ERROR_IPSEC_IKE_SRVACQFAIL	Failed to obtain Kerberos server credentials for ISAKMP/ERROR_IPSEC_IKE service. Kerberos authentication will not function. The most likely reason for this is lack of domain membership. This is normal if your computer is a member of a workgroup.
13856	0x00003620	ERROR_IPSEC_IKE_SRVQUERYCRED	Failed to determine SSPI principal name for ISAKMP/ERROR_IPSEC_IKE service (QueryCredentialsAttributes).
13857	0x00003621	ERROR_IPSEC_IKE_GETSPIFAIL	Failed to obtain new SPI for the inbound SA from Ipsec driver. The most common cause for this is that the driver does not have the correct filter. Check your policy to verify the filters.
13858	0x00003622	ERROR_IPSEC_IKE_INVALID_FILTER	Given filter is invalid.
13859	0x00003623	ERROR_IPSEC_IKE_OUT_OF_MEMORY	Memory allocation failed.

		Error		Description
decimal	Hexadecimal	Name		
13860	0x00003624	ERROR_IPSEC_IKE_ADD_UPDATE_KEY_FAILED		Failed to add Security Association to IPsec Driver. The most common cause for this is if the IKE negotiation took too long to complete. If the problem persists, reduce the load on the faulting machine.
13861	0x00003625	ERROR_IPSEC_IKE_INVALID_POLICY		Invalid policy.
13862	0x00003626	ERROR_IPSEC_IKE_UNKNOWN_DOI		Invalid DOI.
13863	0x00003627	ERROR_IPSEC_IKE_INVALID_SITUATION		Invalid situation.
13864	0x00003628	ERROR_IPSEC_IKE_DH_FAILURE		Diffie-Hellman failure.
13865	0x00003629	ERROR_IPSEC_IKE_INVALID_GROUP		Invalid Diffie-Hellman group.
13866	0x0000362A	ERROR_IPSEC_IKE_ENCRYPT		Error encrypting payload.
13867	0x0000362B	ERROR_IPSEC_IKE_DECRYPT		Error decrypting payload.
13868	0x0000362C	ERROR_IPSEC_IKE_POLICY_MATCH		Policy match error.
13869	0x0000362D	ERROR_IPSEC_IKE_UNSUPPORTED_ID		Unsupported ID.
13870	0x0000362E	ERROR_IPSEC_IKE_INVALID_HASH		Hash verification failed.
13871	0x0000362F	ERROR_IPSEC_IKE_INVALID_HASH_ALG		Invalid hash algorithm.
13872	0x00003630	ERROR_IPSEC_IKE_INVALID_HASH_SIZE		Invalid hash size.
13873	0x00003631	ERROR_IPSEC_IKE_INVALID_ENCRYPT_ALG		Invalid encryption algorithm.
13874	0x00003632	ERROR_IPSEC_IKE_INVALID_AUTH_ALG		Invalid authentication algorithm.
13875	0x00003633	ERROR_IPSEC_IKE_INVALID_SIG		Invalid certificate signature.
13876	0x00003634	ERROR_IPSEC_IKE_LOAD_FAILED		Load failed.
13877	0x00003635	ERROR_IPSEC_IKE_RPC_DELETE		Deleted via RPC call.
13878	0x00003636	ERROR_IPSEC_IKE_BENIGN_REINIT		Temporary state created to perform reinitialization. This is not a real failure.
13879	0x00003637	ERROR_IPSEC_IKE_INVALID_RESPONDER_LIFETIME_NOTIFY		The lifetime value received in the Responder Lifetime Notify is below the Windows 2000 configured minimum value. Please fix the policy on the peer machine.
13880	0x00003638	ERROR_IPSEC_IKE_QM_LIMIT_REAP		SA reaped because QM limit was reached.
13881	0x00003639	ERROR_IPSEC_IKE_INVALID_CERT_KEYLEN		Key length in certificate is too small for configured security requirements.
13882	0x0000363A	ERROR_IPSEC_IKE_MM_LIMIT		Max number of established MM SAs to peer exceeded.
13883	0x0000363B	ERROR_IPSEC_IKE_NEGOTIATION_DISABLED		IKE received a policy that disables negotiation.
13884	0x0000363C	ERROR_IPSEC_IKE_QM_LIMIT		Reached maximum quick mode limit for the main mode. New main mode will be started.

4 NC Error Codes

4.1 General NC Errors

Error(Hex)	Error(Dec)	Error Type	Description
4000	16384	Internal	"Internal error" Internal system error in the NC on ring 0, no further details.
4001	16385	Memory	"Memory error" The ring-0 memory management is not providing the required memory. This is usually a result of another error, as a result of which the controller will halt normal operation (now if not before).
4002	16386	Internal	"Nc retain data error (persistent data)" Error while loading the Nc retain data. The axes concerned are no longer referenced (status flag "Homed" is set to FALSE). Possible reasons are: - Nc retain data not found - Nc retain data expired (old backup data) - Nc retain data corrupt or inconsistent
4003	16387	Parameter	Parameter for Monitoring the NC Setpoint Issuing is Invalid The parameter for activating or deactivating the function "cyclic monitoring of NC setpoint issuing on continuity and consistency" is invalid. (Special function.)
4004	16388	Internal	External Error This error code can be set by an external module (e.g. third-party module) or can be set when an external module exhibits an error.
4010	16400	Parameter	"Channel identifier not allowed" Either an unacceptable value (not 1...255) has been used, or a channel that does not exist in the system has been named.
4011	16401	Parameter	"Group identifier not allowed" Either an unacceptable value (not 1...255) has been used, or a group that does not exist in the system has been named.
4012	16402	Parameter	"Axis identifier not allowed" Either an unacceptable value (not 1...255) has been used, or an axis that does not exist in the system has been named.
4013	16403	Parameter	"Encoder identifier not allowed" Either an unacceptable value (not 1...255) has been used, or an encoder that does not exist in the system has been named.
4014	16404	Parameter	"Controller identifier not allowed" Either an unacceptable value (not 1...255) has been used, or a controller that does not exist in the system has been named.
4015	16405	Parameter	"Drive identifier not allowed" Either an unacceptable value (not 1...255) has been used, or a drive that does not exist in the system has been named.
4016	16406	Parameter	"Table identifier not allowed" Either an unacceptable value (not 1...255) has been used, or a table that does not exist in the system has been named.
4020	16416	Internal	"No process image" No PLC-axis interface during creation of an axis.

Error(Hex)	Error(Dec)	Error Type	Description
4021	16417	Internal	"No process image" No axis-PLC interface during creation of an axis.
4022	16418	Internal	"No process image" No encoder-I/O interface during creation of an axis.
4023	16419	Internal	"No process image" No I/O-encoder interface during creation of an axis.
4024	16420	Internal	"No process image" No drive-I/O interface during creation of an axis.
4025	16421	Internal	"No process image" No I/O-drive interface during creation of an axis.
4030	16432	Internal	"Coupling type not allowed" Unacceptable master/slave coupling type.
4031	16433	Internal	"Axis type not allowed" Unacceptable type specification during creation of an axis.
4032	16434	Parameter	Unknown Channel Type The NC channel type is unknown. Known types are e.g. an NCI channel, a FIFO channel, etc..
4040	16448	Internal	"Axis is incompatible" Axis is not suitable for the intended purpose. A high speed/low speed axis, for example, cannot function as a slave in an axis coupling.
4050	16464	Internal	"Channel not ready for operation" The channel is not complete, and is therefore not ready for operation. This is usually a consequence of problems at system start-up.
4051	16465	Internal	"Group not ready for operation" The group is not complete, and is therefore not ready for operation. This is usually a consequence of problems at system start-up.
4052	16466	Internal	"Axis not ready for operation" The axis is not complete, and is therefore not ready for operation. This is usually a consequence of problems at system start-up.
4060	16480	Internal	"Channel exists" The channel that is to be created already exists.
4061	16481	Internal	"Group exists" The group that is to be created already exists.
4062	16482	Internal	"Axis exists" The axis that is to be created already exists.
4063	16483	Internal	"Table exists" The table that is to be created already exists, resp. it is tried internally to use an already existing table id (e.g. for the universal flying saw).
4070	16496	Internal	"Axis index not allowed" The location within the channel specified for an axis is not allowed.
4071	16497	Internal	"Axis index not allowed" The location within the group specified for an axis is not allowed.

4.2 Channel Errors

Error(Hex)	Error(Dec)	Error Type	Description
4101	16641	Parameter	"Group index not allowed" The location within the channel specified for a group is not allowed.
4102	16642	Address	"Null pointer" The pointer to the group is invalid. This is usually a consequence of an error at system start-up.

Error(Hex)	Error(Dec)	Error Type	Description
4103	16643	Internal	"No process image" It is not possible to exchange data with the PLC. Possible causes: n the channel does not have an interface (no interpreter present) n The connection to the PLC is faulty
4104	16644	Parameter	"M-function index not allowed" Unacceptable M-function (not 0...159) detected at the execution level.
4105	16645	Memory	"No memory" No more system memory is available. This is usually the result of another error.
4106	16646	Function	"Not ready" The function is not presently available, because a similar function is already being processed. This is usually the result of access conflicts: more than one instance wants to issue commands to the channel. This can, for example, be the consequence of an incorrect PLC program.
4107	16647	Function	"Function/command not supported" A requested function or command is not supported by the channel.
4108	16648	Parameter	"Invalid parameter while starting" Parameters to start the channel (TwinCAT-Start) are invalid. Typically there is an invalid memory size or channel type requested.
4109	16649	Function	"Channel function/command not executable" A channel function e.g. interpreter start is not executable because the channel is already busy, no program is loaded or in an error state.
410A	16650	Function	"ItpGoAhead not executable" The requested command is not executable, because the interpreter is not executing a decoder stop.
4110	16656	Parameter	"Error opening a file" The specified file does not exist. Sample: NC program unknown.
4111	16657	NC Programming	"Syntax error during loading" The NC has found a syntax error when loading an NC program.
4112	16658	NC Programming	"Syntax error during interpretation" The NC has found a syntax error when executing an NC program.
4113	16659	NC Programming	"Missing subroutine" The NC has found a missing subroutine while loading.
4114	16660	Memory	"Loading buffer of interpreter is too small" The capacity of the interpreter loading buffer has been exceeded.
4115	16661	Internal	"Symbolic" - reserved
4116	16662	Internal	"Symbolic" - reserved
4117	16663	NC Programming	"Subroutine incomplete" Header of subroutine is missing
4118	16664	NC Programming	"Error while loading the NC program" The maximum number of loadable NC programs has been reached. Possible cause: Too many sub-programs were loaded from a main program.
4119	16665	NC Programming	"Error while loading the NC program" The program name is too long.
4120	16672	NC Programming	"Divide by zero" The NC encountered a computation error during execution: division by 0.

Error(Hex)	Error(Dec)	Error Type	Description
4121	16673	NC Programming	"Invalid circle parameterization" The NC encountered a computation error during execution: The specified circle cannot be calculated.
4122	16674	NC Programming	"Invalid FPU-Operation" The NC encountered an invalid FPU-Operation during execution. This error occurs e.g. by calculating the square root of a negative number.
4130	16688	NC Programming	"Stack overflow: subroutines" The NC encountered a stack overflow during execution: too many subroutine levels.
4131	16689	NC Programming	"Stack underflow: subroutines" The NC encountered a stack underflow during execution: too many subroutine return commands. Note: A main program must not end with a return command.
4132	16690	NC Programming	"Stack overflow: arithmetic unit" The NC encountered a stack overflow during execution: The calculation is too complex, or has not been correctly written.
4133	16691	NC Programming	"Stack underflow: arithmetic unit" The NC encountered a stack underflow during execution: The calculation is too complex, or has not been correctly written.
4140	16704	Parameter	"Register index not allowed" The NC encountered an unacceptable register index during execution: Either the program contains an unacceptable value (not R0...R999) or a pointer register contains an unacceptable value.
4141	16705	NC Programming	"Unacceptable G-function index" The NC has encountered an unacceptable G-function (not 0...159) during execution.
4142	16706	NC Programming	"Unacceptable M-function index" The NC has encountered an unacceptable M-function (not 0...159) during execution.
4143	16707	NC Programming	"Unacceptable extended address" The NC has encountered an unacceptable extended address (not 1...9) during execution.
4144	16708	NC Programming	"Unacceptable index to the internal H-function" The NC has encountered an unacceptable internal H-function in the course of processing. This is usually a consequence of an error during loading.
4145	16709	Parameter	"Machine data value unacceptable" While processing instructions the NC has detected an impermissible value for the machine data (MDB) (not 0...7).
4150	16720	Parameter	"Cannot change tool params here" The NC has encountered an unacceptable change of parameters for the tool compensation during execution. This error occurred for instance by changing the tool radius and programming a circle in the same block.
4151	16721	Parameter	"Cannot calculate tool compensation" The NC has encountered an error by the calculation of the tool compensation.
4152	16722	NC Programming	Tool compensation: The plane for the tool compensation cannot be changed here. This error occurred for instance by changing the tool plane when the compensation is turned on or active.

Error(Hex)	Error(Dec)	Error Type	Description
4153	16723	NC Programming	Tool compensation: The D-Word is missing or invalid by turning on the tool compensation.
4154	16724	NC Programming	Tool compensation: The specified tool radius is invalid because the value is less or equal zero.
4155	16725	NC Programming	Tool compensation: The tool radius cannot be changed here
4156	16726	Internal	Tool compensation: Collision Detection Table is full.
4157	16727	Internal	Tool compensation: Internal error while turning on the contour collision detection.
4158	16728	Internal	Tool compensation: Internal error within the contour collision detection: update reversed geo failed.
4159	16729	NC Programming	Tool compensation: Unexpected combination of geometry types by active contour collision detection.
415A	16730	NC Programming	Tool compensation: Programmed inner circle is smaller than the cutter radius
415B	16731	NC Programming	Tool compensation: Bottle neck detection recognized contour violation
415C	16732	Memory	Table for corrected entries is full
415D	16733	Memory	Input table for tangential following is full
415E	16734	Memory	Executing table for tangential following is full
415F	16735	Internal	Geometric entry for tangential following cannot be calculated
4160	16736	Internal	reserved
4161	16737	Internal	reserved
4162	16738	Parameter	The actual active interpolation rules (g-code), zero-shifts, or rotation cannot be detected
4170	16752	NC Programming	"Error while loading: Invalid parameter" The NC has found an invalid parameter while loading an NC program.
4171	16753	Internal	"Invalid contour start position" The NC encountered a computation error during execution: The specified contour cannot be calculated because the initial position is not on the contour.
4172	16754	Internal	"Retrace: Invalid internal entry index" The NC encountered an invalid internal entry index during execution of the retrace function.
4173	16755	NC Programming	Invalid G Code Invalid default G Code. False expression/syntax in default G Code.
4174	16756	NC Programming	Error while Opening the G Code File Error while opening the default G code file.

4.3 Group Errors

Error(Hex)	Error(Dec)	Error Type	Description
4200	16896	Parameter	"Group ID not allowed" The value for the group ID is not allowed, e.g. because it has already been assigned, is less than or equal to zero, or is greater than 255. Value range: [1 ... 255] Unit: 1

Error(Hex)	Error(Dec)	Error Type	Description
4201	16897	Parameter	<p>"Group type not allowed" The value for the group type is unacceptable because it is not defined. Type 1: PTP group with slaves (servo) Type 4: DXD group with slaves (3D group) Type 5: High/low speed group Type 6: Stepper motor group Type 9: Encoder group with slaves (servo) ...</p> <p>Value range: [1 ... 12] Unit: 1</p>
4202	16898	Initialization	<p>"Master axis index not allowed" The value for the master axis index in an interpolating 3D group is not allowed, because, for instance, it has gone outside the value range. Index 0: X axis (first master axis) Index 1: Y axis (second master axis) Index 2 : Z axis (third master axis)</p> <p>Value range: [0, 1, 2] Unit: 1</p>
4203	16899	Initialization	<p>"Slave axis index not allowed" (INTERNAL ERROR) The value for the slave axis index in a group is not allowed, because, for instance, it has passed outside the value range, the slave location to be used when inserting a new slave connection is already occupied, or because no slave is present when such a connection is being removed. Index 0: First slave axis Index 1: Second slave axis Index 2: etc.</p> <p>Value range: [0 ... 7] Unit: 1</p>
4204	16900	Initialization	<p>Internal Error</p> <p>A nonexpected internal error has occurred. The following situations may have caused this effect:</p> <p>There is not enough TC router memory or Windows memory to establish the internal NC objects, internal NC structures and links (pointers between NC objects) are erroneous or are missing, a fatal internal error in calculating a stop command or a halt command has occurred, internal checking of NC own logic and algorithms (self-checking software), nonexpected modes and cases that are not intended regularly, but are recognized being erroneous.</p> <p>Note: Quite often in such an error situation an additional error message in the Windows event logger is thrown that can be helpful for a more detailed analysis by Beckhoff or by the user.</p>
4205	16901	Parameter	<p>"Invalid cycle time for statement execution task (SAF)" The value of the cycle time for the NC block execution task (SAF 1/2) is not allowed, because it has passed outside the value range.</p> <p>Value range: [0.001 ... 0.1] Unit: s</p>
4206	16902	Initialization	<p>"GROUPERR_RANGE_MAXELEMENTSINAXIS "</p>
4207	16903	Parameter	<p>"Invalid cycle time for the statement preparation task (SVB)" The value of the cycle time for the NC statement preparation task (SVB 1/2) is not allowed, because it has passed outside the value range.</p> <p>Value range: [0.001 ... 1.0] Unit: s</p>

Error(Hex)	Error(Dec)	Error Type	Description
4208	16904	Parameter	<p>"Single step mode not allowed" The flag for the activation or deactivation of single step mode is not allowed. Value 0: Passive (buffered operation) Value 1: Active (single-block operation)</p> <p>Value range: [0, 1] Unit: 1</p>
4209	16905	Parameter	<p>"Group deactivation not allowed" (INTERNAL ERROR) The flag for the deactivation or activation of the complete group is not allowed. Value 0: Group active Value 1: Group passive</p> <p>Value range: [0, 1] Unit: 1</p>
420A	16906	Initialization	<p>"Statement execution state (SAF state) not allowed" (INTERNAL ERROR) The value for the state of the block execution state machine (SAF state) is not allowed. This error occurs on passing outside the range of values, or if the state machine enters an error state.</p> <p>Value range: [0 ... 5] Unit: 1</p>
420B	16907	Address	"Channel address" The group does not have a channel, or the channel address has not been initialized.
420C	16908	Address	"Axis address (master axis)" The group does not have a master axis (or axes) or the axis address(es) has (have) not been initialized.
420D	16909	Address	"Master axis address" A new master/slave coupling is to be inserted into the group, but there is no valid address for the leading master axis.
420E	16910	Address	"Slave axis address" A master/slave coupling is to be inserted into the group, but there is no valid address for the slave axis.
420F	16911	Address	"Slave set value generator address" A master/slave coupling is to be inserted into the group, but there is no valid address for the slave set value generator.
4210	16912	Address	"Encoder address" An axis in the group does not have an encoder, or the encoder address has not been initialized.
4211	16913	Address	"Controller address" An axis in the group does not have a controller, or the controller address has not been initialized.
4212	16914	Address	"Drive address" An axis in the group does not have a drive, or the drive address has not been initialized.
4213	16915	Address	<p>Address Master Setpoint Generator</p> <p>A group (e.g. FIFO group) does not own a master setpoint generator or a setpoint generator address has not been initialized. Possibly, there may not be enough memory available.</p>
4214	16916	Address	"Axis interface NC to PLC address" Group/axis does not have an axis interface from the NC to the PLC, or the axis interface address has not been initialized.
4215	16917	Address	"Slave axis address" An existing master/slave coupling is to be removed from the group, but there is no valid address for the slave axis.
4216	16918	Address	"Table address unknown" The table, respectively the table ID, is unknown. This table is used for the master/slave coupling or for the characteristic curve.
4217	16919	Address	"NcControl address" The NcControl address has not been initialized.
4218	16920	Initialization	"Axis is blocked for commands while persistent NC data are queued" Axis is blocked for commands while waiting for valid IO data to accept the queued persistent NC data.

Error(Hex)	Error(Dec)	Error Type	Description
4219	16921	Function	"The scaling mode MASTER-AUTOOFFSET is invalid because no reference table was found" . The used scaling mode MASTER-AUTOOFFSET is invalid in this context because an existing reference table is missing. This error can occur for example when adding cam tables without a unique reference to an existing cam table.
421A	16922	Parameter	"The master axis start position does not permit synchronization" When a slave axis is being coupled on, the position of the master axis does not permit synchronization at the given synchronization positions.
421B	16923	Parameter	"Slave coupling factor (gearing factor) of 0.0 is not allowed" A master/slave coupling with a gearing factor of 0.0 is being created. This value is not allowed, since it does not correspond to any possible coupling, and division will generate an FPU exception.
421C	16924	Function	"Insertion of master axis into group not allowed" A master axis is to be inserted into a group at a location that is already occupied by another master axis. Maybe the reconfiguration cannot be done, because this axis has got an existing slave coupling. This master/slave coupling must be revoked before.
421D	16925	Function	"Deletion of master axis from group not allowed" (INTERNAL ERROR) A master axis is to be removed from a location in a group that is not in fact occupied by master axis.
421E	16926	Function	"Function/feature is not supported from the setpoint generator" A function or feature is not supported from the setpoint generator (e.g. PTP master setpoint generator). This can be in general or only in a special situation.
421F	16927	Initialization	"Group initialization" Group has not been initialized. Although the group has been created, the rest of the initialization has not been performed (1. Initialization of group I/O, 2. Initialization of group, 3. Reset group).
4220	16928	Monitoring	"Group not ready / group not ready for new task" The group is being given a new task while it is still in the process of executing an existing task. This request is not allowed because it would interrupt the execution of the previous task. The new task could, for instance, be a positioning command, or the "set actual position" function. Precisely the converse relationships apply for the "set new end position" function. In that case, the group/axis must still be actively moving in order to be able to cause a change in the end position.
4221	16929	Monitoring	"Requested set velocity is not allowed" The value requested for the set velocity of a positioning task is less than or equal to zero, larger than the "maximum velocity" (see axis parameters), or, in the case of servo-drives, is larger than the "reference velocity" of the axis (see drive parameters).
4222	16930	Monitoring	"Requested target position is not allowed (master axis)" The requested value for the target position of a positioning task is not within the software end locations. In other words, it is either less than the minimum software end location or larger than the maximum software end location. This check is only carried out if the relevant end position monitoring is active.

Error(Hex)	Error(Dec)	Error Type	Description
4223	16931	Monitoring	"No enable for controller and/or feed (Master axis)" The axis enables for the master axis needed for positioning are not present. This can involve the controller enable and/or the relevant, direction-dependent feed enable (see axis interface PlcToNc).
4224	16932	Monitoring	"Movement smaller than one encoder increment (INTERNAL ERROR)" The distance that a group/axis is supposed to move is smaller than the physical significance of one encoder increment. In other words the movement is smaller than the scaling factor of the axis. The reaction to this is that the axis is reported as having logically finished without having actively moved. This means that an external error is not generated for the user. This error is also issued for high/low speed axes if a loop movement with nonzero parameters is smaller than the sum of the creeping and braking distances. In such a case it is not meaningful to either exceed or to fail to reach the target position.
4225	16933	Monitoring	"Drive not ready during axis start" During an axis start it is ascertained that the drive is not ready. The following are possible causes: - the drive is in the error state (hardware error) - the drive is in the start-up phase (e.g. after an axis reset that was preceded by a hardware error) - the drive is missing the controller enable (ENABLE) Note: The time required for "booting" a drive after a hardware fault can amount to several seconds.
4226	16934	Monitoring	"Invalid parameters of the emergency stop." Either, both, the deceleration and the jerk are less than zero or one of the parameters is weaker than the corresponding parameter of the start data.
4227	16935	Function	"The setpoint generator is inactive such that no instructions are accepted."
4228	16936	Monitoring	"Requested traverse distance is not allowed" The requested traverse distance or looping distance is smaller than the braking distance of the two/speed axis.
4229	16937	Monitoring	"Requested target position is not allowed (slave axis)" The value for the target position of a positioning task when calculated for the slave axis is not within the software end locations. In other words, it is either less than the minimum software end location or larger than the maximum software end location. This check is only carried out if the relevant end position monitoring is active.
422A	16938	Monitoring	"No enable for controller and/or feed (slave axis)" The axis enables for one or more coupled slave axes needed for positioning are not present. This can involve the controller enable and/or the relevant, direction-dependent feed enable (see axis interface PlcToNc).
422B	16939	Parameter	"The activation position (position threshold) is out of range of the actual positioning" The activation position (position threshold) of a new axis command (e.g. "new velocity activated at a position") is out of range. E.g. the activation position is before the actual position or behind the target position.
422C	16940	Parameter	"The start or activation data of the external setpoint generation are not valid" This may be caused through: 1. The external setpoint generation is active and a new activation with a start type (1: absolute, 2: relative) unequal to the current one is send.

Error(Hex)	Error(Dec)	Error Type	Description
			2. The internal setpoint generation is active (e.g. PTP) and the external one is activated with the type absolute (two setpoint generators of the type absolute are not possible).
422D	16941	Parameter	"Velocity is not constant" For changing the dynamic parameter 'acceleration' und 'deceleration' the axis has to be in dynamic state without acceleration and deceleration (that means constant velocity).
422E	16942	Parameter	"Jerk less than or equal to 0.0 is not allowed" A value less than or equal to 0.0 for the jerk (PTP and CNC) is not allowed, since the jerk is by definition positive, and with a jerk of 0.0, division will generate an FPU exception.
422F	16943	Parameter	"Acceleration less than or equal to 0.0 is not allowed" A value less than or equal to 0.0 for the acceleration (PTP and CNC) is not allowed, since the acceleration is positive by definition, and an acceleration of 0.0 will not allow a motion to be generated.
4230	16944	Parameter	"Absolute deceleration value less than or equal to 0.0 is not allowed" A value less than or equal to 0.0 for the absolute value of the deceleration (PTP and CNC) is not allowed, since the absolute value of the deceleration is positive by definition, and an absolute value of the deceleration of 0.0 will not allow a motion to be generated.
4231	16945	Parameter	"Set velocity less than or equal to 0.0 is not allowed" A value less than or equal to 0.0 or outside the range from 10^{-3} up to 10^{+10} for the set velocity (PTP and CNC) is not allowed, since the set velocity is by definition strictly positive, and with a set velocity of 0.0, division will generate an FPU exception.
4232	16946	Monitoring	"Loss of precision when trying a positioning" The positioning is so long in space or time that decimal parts lose their relevance (LOSS_OF_PRECISION).
4233	16947	Parameter	"Cycle time less than or equal to 0.0 is not allowed" A value less than or equal to 0.0 for the cycle time (PTP and CNC) is not allowed, since the cycle time is by definition strictly positive, and with a cycle time of 0.0, division will generate an FPU exception.
4234	16948	Internal	"PTP data type <intasdouble> range exceeded" Such extreme parameters have been supplied for the start task, the override or the new target position that the internal data type loses its precision.
4235	16949	Function	"PTP LHL velocity profile cannot be generated" (INTERNAL ERROR) Such extreme parameters have been supplied for the start task, the override or the new target position that it is not possible to generate a velocity profile of the type LHL (Low-High-Low).
4236	16950	Function	"PTP HML velocity profile cannot be generated" (INTERNAL ERROR) Such extreme parameters have been supplied for the override or the new target position that it is not possible to generate a velocity profile of the type HML (High-Middle-Low).
4237	16951	Address	"Start data address is invalid" The address of the start data is invalid.
4238	16952	Parameter	"Velocity override (start override) is not allowed" The value for the velocity override is not allowed, because it is less than 0.0% or more than 100.0% (see axis interface PlcToNc). Here, 100.0 % corresponds to the integral value 1000000 in the axis interface. Value range: [0 ... 1000000]

Error(Hex)	Error(Dec)	Error Type	Description
4239	16953	Parameter	"Start type not allowed" The start type supplied does not exist.
423A	16954	Monitoring	"Velocity overflow (overshoot in the velocity)" The new dynamic with the parameterized jerk is so weak that a velocity overflow will occur (overshoot in the velocity). The command is therefore not supported.
423B	16955	Parameter	"Start parameter for the axis structure is invalid" External or internal parameters for the start structure for a positioning task are invalid. Thus, for instance, the scaling factor, the SAF cycle time or the requested velocity may be less than or equal to zero, which is not allowed.
423C	16956	Parameter	"Override generator initialization parameter invalid" One of the override generator (re)initialization parameters is invalid.
423D	16957	Monitoring	"Slave axis has not set value generator" (INTERNAL ERROR) It is found that a slave axis within a group does not have a valid slave generator (set value generator). A slave axis and a slave set value generator must always be present as a pair. This is an internal error.
423E	16958	Function	"Table is empty" Either the SVB table or the SAF table does not contain any entries.
423F	16959	Function	"Table is full" The SVB table or the SAF table has no more free lines.
4240	16960	Memory	"No memory available" SVB memory allocation for dynamic entry in SAF table failed.
4241	16961	Function	"Table already contains an entry" (INTERNAL ERROR) SAF table entry abandoned, because, incorrectly, an entry already exists.
4242	16962	Function	"Stop is already active" The stop instruction is not forwarded, because it has already been activated.
4243	16963	Function	"Compensation has not been carried out over the full compensation section" The compensations start parameters do not permit compensation over the full section to be compensated. For this reason the compensation will be carried out over a smaller section.
4244	16964	Parameter	"Internal parameters for the compensation are invalid" (INTERNAL ERROR) Invalid internal parameters or start parameters of the lower-level generator.
4245	16965	Function	"Compensation active" Start of compensation refused, because compensation is already active. It's also possible that the M/S axes are not active moved. Therefore an execution of the compensation is impossible.
4246	16966	Function	"Compensation not active" Stop of compensation refused, because compensation is not active.
4247	16967	Function	"Compensation type invalid" The type supplied for the section compensation is invalid. At the present time only compensation type 1 (trapezoidal velocity profile) is allowed.
4248	16968	Function	"Axis address for compensation invalid" (INTERNAL ERROR) The address of the master of slave axis on which the section compensation is to act is invalid. This is an internal error.
4249	16969	Address	"Invalid slave address" (INTERNAL ERROR) The slave address given for on-line coupling/decoupling is invalid.
424A	16970	Function	"Coupling velocity invalid" The velocity of what is to become the master axis is 0, which means that on-line coupling is not possible.

Error(Hex)	Error(Dec)	Error Type	Description
424B	16971	Function	"Coupling velocities not constant" The velocity of what is to become the master axis and the velocity of what is to become the slave axis are not constant, so that on-line coupling is not possible.
424C	16972	Parameter	"Cycle time less than or equal to 0.0 is not allowed" A value less than or equal to 0.0 for the cycle time (Slave) is not allowed, since the cycle time is by definition strictly positive, and with a cycle time of 0.0, division will generate an FPU exception.
424D	16973	Function	"Decoupling task not allowed" The slave axis is of such a type (e.g. a table slave) or is in such a state (master velocity 0) that on-line decoupling is not possible.
424E	16974	Function	"Function not allowed" The function cannot logically be executed, e.g. some commands are not possible and not allowed for slave axes.
424F	16975	Parameter	"No valid table weighting has been set" The weighting factor of each table is 0, so that no table can be read.
4250	16976	Function	"Axis type, actual position type or end position type is not allowed" The start type for a positioning task is invalid. Valid start types are ABSOLUTE (1), RELATIVE (2), CONTINUOUS POSITIVE (3), CONTINUOUS NEGATIVE (4), MODULO (5), etc. It is also possible that the types for setting a new actual position or for travel to a new end position are invalid.
4251	16977	Function	"Function not presently supported" An NC function has been activated that is currently not released for use, or which is not even implemented. This can be a command which is not possible or not allowed for master axes.
4252	16978	Monitoring	"State of state machine invalid" (INTERNAL ERROR) The state of an internal state machine is invalid. This is an internal error.
4253	16979	Monitoring	"Reference cam became free too soon" During the referencing process for an axis it is moved in the direction of the referencing cam, and is only stopped again when the cam signal is reached. After the axis has then also physically stopped, the referencing cam must remain occupied until the axis subsequently starts back down from the cam in the normal way.
4254	16980	Monitoring	"Clearance monitoring between activation of the hardware latch and appearance of the sync pulse" When the clearance monitoring is active, a check is kept on whether the number of increments between activation of the hardware latch and occurrence of the sync pulse (zero pulse) has become smaller than a pre-set value. This error is generated when that happens. (See parameters for the incremental encoder)
4255	16981	Memory	"No memory available" The dynamic memory allocation for the set value generator, the SVB table or the SAF table has failed.
4256	16982	Monitoring	"The table slave axis has no active table" Although the table slave axis has tables, none of the tables is designated as active. If this occurs during the run time the whole master/slave group is stopped by a run time error.
4257	16983	Function	"Function not allowed" The requested function or the requested task is not logically allowed. An example for such an error message would be "set an actual position" for an absolute encoder (M3000, KL5001, etc.).

Error(Hex)	Error(Dec)	Error Type	Description
4258	16984	Function	"Stopping compensation not allowed" It is not possible to stop the compensation, since compensation is already in the stopping phase.
4259	16985	Function	"Slave table is being used" The slave table cannot be activated, because it is currently being used.
425A	16986	Function	"Master or slave axis is processing a job (e.g. positioning command) while coupling is requested" A master/slave coupling of a certain slave type (e.g. linear coupling) cannot be executed. The master or intended slave axis is not in stand still state and is executing a job (e.g. positioning) at the same time as the coupling request received. For this couple type this is not allowed.
425B	16987	Parameter	"Slave (start) parameter is incorrect" One of the slave start/coupling parameters is not allowed (Coupling factor is zero, the master position scaling of a cam is zero, etc.).
425C	16988	Parameter	"Slave type is incorrect" The slave type does not match up to the (SVB) start type.
425D	16989	Function	"Axis stop is already active" The axis stop/Estop is not initiated, because the stop/estop is already active.
425E	16990	Function	"Maximum number of tables per slave generator reached" The maximum number of tables per slave generator is reached (e.g. "MC_MultiCamIn" is limited to 4 tables).
425F	16991	Function	"The scaling mode is invalid" . The used scaling is invalid in this context. Either the mode is not defined or yet not implemented or however it cannot in this constellation be put into action. For example MASTER-AUTOOFFSET cannot be used when a cam table is coupled in relative mode because this is a contradiction. Further MASTER-AUTOOFFSET cannot be used when a cam table is coupled for the first time because a relationship to an existing reference table is missing.
4260	16992	Monitoring	"Controller enable" Controller enable for the axis or for a coupled slave axis is not present (see axis interface PlcToNc). This error occurs if the controller enable is withdrawn while an axis or a group of axes (also a master/slave group) is being actively positioned. The error also occurs if a PTP axis or a coupled slave axis is started without controller enable.
4261	16993	Function	"Table not found" No table exists with the ID prescribed or the table ID is not unique.
4262	16994	Function	"Incorrect table type" The table referred to in the function is of the incorrect type.
4263	16995	Function	"Single step mode" This error occurs if single step mode is selected for a group or axis and a new task is requested while one of the individual tasks is still being processed.
4264	16996	Function	"Group task unknown (asynchronous table entry)" The group has received a task whose type or sub-type is unknown. Valid tasks can be single or multi-dimensional positioning tasks (Geo 1D, Geo 3D), referencing tasks, etc.
4265	16997	Function	"Group function unknown (synchronous function)" The group has received a function whose type is unknown. Valid functions are "Reset", "Stop", "New end position", "Start/stop section compensation", "Set actual position", "Set/reset referencing status" etc.

Error(Hex)	Error(Dec)	Error Type	Description
4266	16998	Function	"Group task for slave not allowed" Group tasks are usually only possible for master axes, not for slave axes. A slave axis only moves as an indirect result of a positioning task given to its associated master axis. A slave can thus never directly be given a task. Exception: see axis parameter "Allow motion commands to slave axis".
4267	16999	Function	"Group function for slave not allowed" Group functions are in principle only possible for master axes, not for slave axes. The only exception is represented by the "Start/stop section compensation" function, which is possible both for masters and for slaves. A slave cannot directly execute any other functions beyond this.
4268	17000	Function	NCI Setpoint Generator is Inactive An NCI command like e.g. "StopAndKeep" is sent to a logically inactive DXD group or to a group with the state channel override zero. Though, it is expected that for performing this command the NCI group resides actively in setpoint generation. This error can occur related to the functions "delete distance to go" and "measurement event (latch actual position)".
4269	17001	Parameter	"Startposition=Setpoint Position" Invalid position parameters.
426A	17002	Parameter	"Parameters of the delay-generator are invalid" Invalid external/internal parameters of the delay generator (delay time, cycle time, tics).
426B	17003	Parameter	"External parameters of the superimposed instruction are invalid" Invalid external parameters of the superimposed functionality (acceleration, deceleration, velocity, process velocity, length).
426C	17004	Parameter	"Invalid override type."
426D	17005	Function	"Activation position under/overrun" The requested activation position is located in the past of the master (e.g. when exchanging a cam table).
426E	17006	Function	"Activation impossible: Master is standing" The required activation of the correction is impossible since the master axis is not moving. A synchronization is not possible, because the master axis standing and the slave axis is still not synchronous.
426F	17007	Function	"Activation mode not possible" The requested activation mode is not possible when the slave axis is moving. Otherwise the slave velocity would jump to zero.
4270	17008	Parameter	"Start parameter for the compensation is invalid" One of the dynamic parameters for the compensation is invalid (necessary condition): Acceleration (>0) Deceleration (>0) Process velocity (>0)
4271	17009	Parameter	"Start parameter for the compensation is invalid" Velocity camber is negative.
4272	17010	Parameter	"Start parameter for the compensation is invalid" The section on which the compensation is to occur is not positive.
4273	17011	Monitoring	"Target position under/overrun" (INTERNAL ERROR) The position (calculated from the modulo-target-position) where the axis should stand at end of oriented stop has been run over.

Error(Hex)	Error(Dec)	Error Type	Description
4274	17012	Monitoring	"Target position will be under/overrun" (INTERNAL ERROR) The position (calculated from the modulo-target-position) where the axis should stand at end of oriented stop is too near and will be run over.
4275	17013	Parameter	Group Parameter is Invalid A group parameter is invalid. In this connection it may be e.g. a parameterized velocity, acceleration, deceleration, jerk or NC cycle time whose value has been parameterized smaller than or equal to zero.
4276	17014	Monitoring	Joint Error at Start of Setpoint Generation At start of setpoint generation for e.g. a flying saw different parameters or states may lead to this error. E.g. dynamic parameters as acceleration, deceleration and jerk may be invalid (smaller than or equal to zero) or the NC cycle time or the override value may reside apart from the interval 0% to 100%.
4277	17015	Monitoring	"Dynamic parameters not permitted" (INTERNAL ERROR) The dynamic parameters resulting from internal calculation like acceleration, deceleration and jerk are not permitted.
4279	17017	Monitoring	The New Target Position is Invalid or Cannot be Reached A new commanded target position is invalid because it has already been gone through or will be gone through while stopping with the currently active dynamic.
427A	17018	Monitoring	New Velocity for Moving or the Final Target Velocity is Invalid For a newly commanded command the demanded moving velocity or the demanded final velocity (target velocity in the target position) is invalid. The moving velocity has to be greater than zero value and the final target velocity has always to be greater than or equal to zero (default case is zero value).
427B	17019	Monitoring	The Final Velocity or the New Target Position is Invalid For a newly commanded command the demanded final velocity (target velocity in the target position) or the demanded target position is invalid. The final velocity has to be greater than or equal to zero (default case is zero value).
427C	17020	Monitoring	The New Moving Velocity is Invalid The newly commanded moving velocity is invalid because it is smaller than or equal to zero or other reasons do not facilitate this velocity.
427D	17021	Monitoring	Internal Starting Mode is Invalid For a newly commanded command this starting mode is invalid or is not permitted within this situation of movement. The user cannot influence the starting mode directly.
427E	17022	Monitoring	"A requested motion command could not be realized (BISECTION)" A requested motion command could not be realized using the requested parameters. The command has been executed best possible and this message is therefore to be understood just as a warning. Samples: An axis motion command is requested while the axis is in a unfavorable dynamic situation (acceleration phase), in which the covered distance is too short or the velocity is clearly too

Error(Hex)	Error(Dec)	Error Type	Description
			high. Another possibility is a slave axis, which is decoupled in motion in an unfavorable dynamic situation and is afterwards given a motion as in the previous case.
427F	17023	Monitoring	"The new target position either has been overrun or will be overrun" The new target position either has been overrun or will be overrun, since until there it is impossible to stop. An internal stop command is commended.
4280	17024	Monitoring	"Group not ready / group not ready for new task" (INTERNAL ERROR / INFORMATION) The group is being given a new task while it is still in the process of executing an existing task. This request is not allowed because it would interrupt the execution of the previous task. The new task could, for instance, be a positioning command, or the "set actual position" function. Precisely the converse relationships apply for the "set new end position" function. In that case, the group/axis must still be actively moving in order to be able to cause a change in the end position.
4281	17025	Parameter	"The parameters of the oriented stop (O-Stop) are not admitted." The modulo-target position should not be smaller than zero and not larger or equal than the encoder mod-period (e.g. in the interval [0.0,360.0]). Note: In the case of error the axis is safely stopped, but is afterwards not at the requested oriented position.
4282	17026	Monitoring	"The modulo target position of the modulo-start is invalid" The modulo target position is outside of the valid parameter range. So the position value should not be smaller than zero and not greater or equal than the encoder modulo-period (e. g. in the interval [0.0,360.0] for the modulo start type "SHORTEST_WAY (261)").
4283	17027	Parameter	"The online change activation mode is invalid" . The activation can be used with online scaling or with online modification of motion function. The used activation is invalid in this context. Either the mode is not defined or yet not implemented or however it cannot in this constellation be put into action (e.g. when linear tables are used with an unexpected cyclic activation mode NEXTCYCLE or NEXTCYCLEONCE). In some case, the activation mode may be valid but the command cannot be executed due to a pending previous command.
4284	17028	Parameter	"The parameterized jerk rate is not permitted" . The jerk rate is smaller than the minimum jerk rate. The minimum value for jerk rate is 1.0 (e.g. mm/s ³).
4285	17029	Parameter	"The parameterized acceleration or deceleration is not permitted" . The parameterized acceleration or deceleration is lower than the permitted minimum acceleration. The value for minimum acceleration is calculated from minimum jerk rate and NC cycle time (minimum jerk rate multiplied with NC cycle time). The unit for example is mm/s ² .
4286	17030	Parameter	"The parameterized velocity is not permitted" . The parameterized target velocity is lower than the minimum velocity (but the value zero is permitted). The value for minimum velocity is calculated from the minimum jerk rate and the NC cycle time (minimum jerk rate multiplied with the square of the NC cycle time). The unit for example is mm/s.

Error(Hex)	Error(Dec)	Error Type	Description
4287	17031	Monitoring	"A activation cannot be executed due to a pending activation" A activation e.g. "CamIn", "CamScaling" or "WriteMotionFunction" cannot be executed due to a pending activation (e.g. "CamIn", "CamScaling", "WriteMotionFunction"). Only activation can be enabled.
4288	17032	Monitoring	"Illegal combination of different cycle times within an axis group" A logical axis group includes elements (axes) with different cycle times for a common setpoint generator and I/O-execution, resp. This situation can occur with Master/Slave-coupling or configuring 3D- and FIFO-groups (including path, auxiliary, and slave axes).
4289	17033	Monitoring	"Illegal motion reversal" Due to the actual dynamical state a motion reversal will happen. To avoid this motion reversal the axis command is not performed and the previous system state restored.
428A	17034	Monitoring	"Illegal moment for an axis command because there is an old axis command with activation position still active" The moment for the command is illegal because there is still an old command with activation position active (e.g. "go to new velocity at threshold position" or "reach new velocity at threshold position").
428B	17035	Monitoring	"Error in the stop-calculation routine" (INTERNAL ERROR) Due to an internal error in the stop-calculation routine the current commando cannot be performed. The previous system state is restored.
428C	17036	Monitoring	"A command with activation position cannot fully be performed because the remaining path is too short" A command with activation position (threshold) like "reach a new velocity at a position" can be just partially executed because the path from the actual position to the activation position is too short.
428D	17037	Monitoring	"Illegal decouple type when decoupling a slave axis" The decouple and restart command contains an invalid decouple type.
428E	17038	Monitoring	"Illegal target velocity when decoupling a slave axis" The decouple and restart command contains an illegal target velocity [$1 < V < V_{max}$].
428F	17039	Monitoring	"The command new dynamic parameter cannot be performed since this would require a new target velocity" Das Kommando zum Aktivieren neuer Dynamikparameter wie Beschleunigung, Verzögerung und Ruck kann nicht durchgeführt werden, da dies eine neue beauftragte Fahrgeschwindigkeit erfordern würde. This situation can occur, for example, if the axis is near the target position in an accelerated state and the dynamics parameter are chosen softer.
4290	17040	Monitoring	"A command with activation position cannot be performed because the axis is already in the brake phase" A command with activation position (threshold) e.g. "reach new velocity at position" cannot be performed because the axis is already in the brake phase and the remaining path from the actual position to the activation position is too short.
4291	17041	Monitoring	"Decouple routine of slave axis doesn't return a valid solution" Internal jerk scaling of decouple routine cannot evaluate a valid solution (decoupling slave axis and transform to master axis). The command is rejected because velocity can become too high, a reversal of movement can occur, or the target position can be passed.

Error(Hex)	Error(Dec)	Error Type	Description
4292	17042	Monitoring	"Command not be executed because the command buffer is full filled" The command is rejected because the command buffer is full filled.
4293	17043	Internal	"Command is rejected due to an internal error in the Look Ahead" (INTERNAL ERROR) The command is rejected due to an internal error in the "look ahead".
4294	17044	Monitoring	"Command is rejected because the segment target velocity is not realized" The command is rejected, because the new target segment velocity <i>Vrequ</i> is not realizable and an internal optimizing is impossible.
4295	17045	Monitoring	"Successive commands have the same final position" Successive commands have the same final position. So the moving distance is zero.
4296	17046	Monitoring	"Logical positioning direction is inconsistent with the direction of the buffer command" In the extended buffer mode, where the actual end position is replaced by the new buffer start position, the logical positioning direction is inconsistent with the direction of the buffer command (=> contradiction). A buffered command (<i>BufferMode</i> , <i>BlendingLow</i> , <i>BlendingPrevious</i> , <i>BlendingNext</i> , <i>BlendingHigh</i>) is rejected with error 0x4296 if the command is using the Beckhoff specific <i>optional BlendingPosition</i> but the blending position is located beyond the target position of the previous motion command.
4297	17047	Monitoring	"Command is rejected because the remaining positioning length is to small" The command is rejected because the remaining path length is too small. E.g. when the buffer mode is used and the remaining positioning length in the actual segment is too small for getting the axis in a force free state or to reach the new target velocity at the change of segment.
429A	17050	Function	Restart has Failed There is already a motion command within the <i>PTP</i> command buffer and a further new motion command that should have modified the current motion command by restart has failed.
429B	17051	Monitoring	„collect error for invalid start parameters“ This error refers to a wrong parameterization of the user (collect error). E. g. dynamic parameters like <i>Velo</i> , <i>Acc</i> or <i>Dec</i> could be equal or less than zero. Or following errors: - <i>BaseFrequency</i> < 0.0 - <i>StartFrequency</i> < 1.0 - <i>StepCount</i> < 1, <i>StepCount</i> > 200 - <i>BaseAmplitude</i> <= 0.0 - <i>StepDuration</i> <= 0.0 - <i>StopFrequency</i> >= 1/(2* <i>CycleTime</i>)
429C	17052	Monitoring	"Reference cam is not found" During the referencing process for an axis it is moved in the direction of the referencing cam. This reference cam, however, was not found as expected (=> leads to the abortion of the referencing procedure).
429D	17053	Monitoring	"Reference cam became not free" During the referencing process for an axis it is moved in the direction of the referencing cam, and is only stopped again when the cam signal is reached. After the axis has also come to a physical

Error(Hex)	Error(Dec)	Error Type	Description
			standstill, the axis is subsequently started regularly from the cam again. In this case, the reference cam did not become free again as expected when driving down (=> leads to the abortion of the referencing procedure).
429E	17054	Monitoring	"IO sync pulse was not found (only when using hardware latch)" If the hardware latch is activated, a sync pulse (zero pulse) is expected to be found and a sync event triggered following the expiry of a certain time or a certain distance. If this is not the case, the reaction is an error and the abortion of the referencing procedure.
429F	17055	Function	The Used Buffer Mode is Unknown or not Supported in this Context The buffer mode used for a PTP command (e.g. ABORTING, etc.) is unknown or not supported in this context.
42A0	17056	Internal	"Group/axis consequential error" Consequential error resulting from another causative error related to another axis within the group. Group/axis consequential errors can occur in relation to master/slave couplings or with multiple axis interpolating DXD groups. If, for instance, it is detected that the following error limit of a master axis has been exceeded, then this consequential error is assigned to all the other master axes and slave axes in this group.
42A1	17057	Parameter	"Velocity reduction factor for C0/C1 transition is not allowed" A C0 transition describes two geometries which, while they are themselves continuous, do not have either continuous first or second differentials. The velocity reduction factor C0 acts on such transitions. Note: A C1 transition is characterized by the two geometries being continuous, but having only a first differential that is continuous. The velocity reduction factor C1 acts on such transitions. Value range: [0.0 ... 1.0] Unit: 1
42A2	17058	Parameter	"Critical angle at segment transition not allowed" Value range: (0.0 ... 180.0] Unit: degree
42A3	17059	Parameter	"Radius of the tolerance sphere" is in an invalid range Value range: [0.0 ... 100.0] Unit: e.g. mm
42A4	17060	Parameter	Not implemented.
42A5	17061	Parameter	"Start type" Value range: [0,1] Unit: 1
42A6	17062	Parameter	Not implemented.
42A7	17063	Parameter	"Blending" with given parameters not possible
42A8	17064	Parameter	Not implemented.
42A9	17065	Parameter	"Curve velocity reduction method not allowed" (INTERNAL ERROR) The curve velocity reduction method does not exist.
42AA	17066	Parameter	"Minimum velocity not allowed" The minimum velocity that has been entered is less than 0.0.
42AB	17067	Parameter	"Power function input not allowed" (INTERNAL ERROR) The input parameters in the power_() function lead to an FPU exception.
42AC	17068	Parameter	"Dynamic change parameter not allowed" A parameter that controls alterations to the dynamics is invalid. Parameter: 1. Absolute motion dynamics change: All parameters must be strictly positive. 2. Relative reduction c_f: 0.0 < c_f <= 1.0
42AD	17069	Memory	"Memory allocation error" (INTERNAL ERROR)

Error(Hex)	Error(Dec)	Error Type	Description
42AE	17070	Function	"The calculated end position differs from the end position in the nc instruction (internal error)."
42AF	17071	Parameter	"Calculate remaining chord length" invalid value Value range: [0,1]
42B0	17072	Function	"Set value generator SVB active" Starting the set value generator (SVB, SAF) has been refused, since the SVB task is already active.
42B1	17073	Parameter	"SVB parameter not allowed" (INTERNAL ERROR) A parameter related to the internal structure of the set value generator (SVB) results in logical errors and/or to an FPU exception. Affects these parameters: Minimum velocity (>0.0), TimeMode, ModeDyn, ModeGeo, StartType, DistanceToEnd, TBallRadius.
42B2	17074	Parameter	"Velocity reduction factor not allowed" A parameter that controls reduction of the velocity at segment transitions is invalid. Parameter: 1. Transitions with continuous first differential: VeloVertexFactorC1 2. Not once continuously differentiable transitions: VeloVertexFactorC0, CriticalVertexAngleLow, CriticalVertexAngleHigh.
42B3	17075	Parameter	"Helix is a circle" The helix has degenerated to a circle, and should be entered as such.
42B4	17076	Parameter	"Helix is a straight line" The helix has degenerated to a straight line, and should be entered as such.
42B5	17077	Parameter	"Guided parameter not allowed" One of the guider's parameters leads to logical errors and/or to an FPU exception.
42B6	17078	Address	"Invalid segment address" (INTERNAL ERROR) The geometry segment does not have a valid geometry structure address or does not have a valid dynamic structure address.
42B7	17079	Parameter	"Unparameterized generator" (INTERNAL ERROR) The SVB generator is not yet parameterized and is therefore unable to operate.
42B8	17080	Address	"Unparameterized table" (INTERNAL ERROR) The table has no information concerning the address of the corresponding dynamic generator.
42BA	17082	Internal	"The calculation of the arc length of the smoothed path failed (internal error)."
42BB	17083	Parameter	"The radius of the tolerance ball is too small (smaller than 0.1 mm)."
42BC	17084	Internal	Error while calculating DXD-Software-Limit switches (internal error)
42BD	17085	Function	"NC-Block violates software limit switches of the group" At least one path axis with active software limit monitoring has violated the limit switches. Therefore the geometric entry is denied with an error.
42BE	17086	Parameter	"Internal error in the evaluation of a possible software limit switch violation for the segment with the block-number xx." At least one path axis with active position limit monitoring has violated the limit switches.
42BF	17087	Parameter	Invalid reference speed type.
42C0	17088	Internal	"Interpolating group contains axes of an incorrect axis type" An interpolating 3D group may only contain continuously guided axes of axis type 1 (SERVO).
42C1	17089	Internal	"Scalar product cannot be calculated" The length of one of the given vectors is 0.0.

Error(Hex)	Error(Dec)	Error Type	Description
42C2	17090	Internal	"Inverse cosine cannot be calculated" The length of one of the given vectors is 0.0.
42C3	17091	Parameter	"Invalid table entry type" The given table entry type is unknown.
42C4	17092	Parameter	"Invalid DIN66025 information type" (INTERNAL ERROR) The given DIN66025 information type is unknown. Known types: G0, G1, G2, G3, G17, G18, G19.
42C5	17093	Parameter	"Invalid dimension" (INTERNAL ERROR) The CNC dimension is unknown. Known dimensions: 1, 2, 3. Or: The CNC dimension is invalid for the given geometrical object. For a circle the dimension must be 2 or 3, while for a helix it must be 3.
42C6	17094	Parameter	"Geometrical object is not a straight line" The given object, interpreted as a straight line, has a length of 0.0.
42C7	17095	Parameter	"Geometrical object is not a circle" Interpreted as a circular arc, the given object has a length of 0.0, or an angle of 0.0 or a radius of 0.0.
42C8	17096	Parameter	"Geometrical object is not a helix" Interpreted as a circular arc, the given object has a length of 0.0, or an angle of 0.0, or a radius of 0.0. or a height of 0.0.
42C9	17097	Parameter	"Set velocity less than or equal to 0.0 is invalid" A value less than or equal to 0.0 for the set velocity (CNC) is not allowed, since the set velocity is positive by definition, and a set velocity of 0.0 cannot generate any motion.
42CA	17098	Address	"Address for look-ahead invalid" (INTERNAL ERROR) The address supplied for the look-ahead is invalid.
42CB	17099	Function	"Set value generator SAF active" Starting the set value generator (SAF) has been refused, since the SAF task is already active.
42CC	17100	Function	"CNC set value generation not active" Stop or change of override refused, because the set value generation is not active.
42CD	17101	Function	"CNC set value generation in the stop phase" Stop or change of override refused, because the set value generation is in the stop phase.
42CE	17102	Parameter	"Override not allowed" An override of less than 0.0 % or more than 100.0 % is invalid.
42CF	17103	Address	"Invalid table address" (INTERNAL ERROR) The table address given for the initialization of the set value generator is invalid, or no valid logger connection (report file) is present.
42D0	17104	Parameter	"Invalid table entry type" The given table entry type is unknown.
42D1	17105	Memory	"Memory allocation failed" Memory allocation for the table has failed.
42D2	17106	Memory	"Memory allocation failed" Memory allocation for the filter has failed.
42D3	17107	Parameter	"Invalid parameter" Filter parameter is not allowed.
42D4	17108	Function	"Delete Distance To Go failed" Delete Distance to go (only interpolation) failed. This error occurred, if e.g. the command 'DelDTG' was not programmed in the actual movement of the nc program.
42D5	17109	Internal	"The setpoint generator of the flying saw generates incompatible values (internal error)"

Error(Hex)	Error(Dec)	Error Type	Description
42D6	17110	Function	"Axis will be stopped since otherwise it will overrun its target position (old PTP setpoint generator)" If, for example, in case of a slave to master transformation for the new master a target position is commanded that will be overrun because of the actual dynamics the axis will be stopped internally to guarantee that the target position will not be overrun.
42D7	17111	Function	"Internal error in the transformation from slave to master."
42D8	17112	Function	"Wrong direction in the transformation of slave to master."
42DA	17114	Parameter	"Parameter of Motion Function (MF) table incorrect" The parameter of the Motion Function (MF) are invalid. This may refer to the first time created data set or to online changed data.
42DB	17115	Parameter	"Parameter of Motion Function (MF) table incorrect" The parameter of the Motion Function (MF) are invalid. This may refer to the first time created data set or to online changed data. The error cause can be, that an active MF point (no IGNORE point) points at a passive MF point (IGNORE point).
42DC	17116	Monitoring	"Internal error by using Motion Function (MF)" An internal error occurs by using the Function (MF). This error cannot be solved by the user. Please ask the TwinCAT Support.
42DD	17117	Function	"Axis coupling with synchronization generator declined because of incorrect axis dynamic values" The axis coupling with the synchronization generator has been declined, because one of the slave dynamic parameter (machine data) is incorrect. Either the maximum velocity, the acceleration, the deceleration or the jerk is smaller or equal to zero, or the expected synchronous velocity of the slave axis is higher as the maximum allowed slave velocity.
42DE	17118	Function	"Coupling conditions of synchronization generator incorrect" During positive motion of the master axis it has to be considered, that the master synchronous position is larger than the master coupling position ("to be in the future"). During negative motion of the master axis it has to be considered that the master synchronous position is smaller than the master coupling position.
42DF	17119	Monitoring	"Moving profile of synchronization generator declines dynamic limit of slave axis or required characteristic of profile" One of the parameterized checks has recognized an overstepping of the dynamic limits (max. velocity, max. acceleration, max. deceleration or max. jerk) of the slave axis, or an profile characteristic (e.g. overshoot or undershoot in the position or velocity) is incorrect. See also further messages in the windows event log and in the message window of the System Manager.
42E0	17120	Parameter	"Invalid parameter" The encoder generator parameter is not allowed.
42E1	17121	Parameter	"Invalid parameter" The external (Fifo) generator parameter is not allowed.
42E2	17122	Function	"External generator is active" The external generator cannot be started, as it is already active.
42E3	17123	Function	"External generator is not active" The external generator cannot be stopped, as it is not active.

Error(Hex)	Error(Dec)	Error Type	Description
42E4	17124	Function	"NC-Block with auxiliary axis violates software limit switches of the group" At least one auxiliary axis with active software limit monitoring has violated the limit switches. Therefore the geometric entry is denied with an error.
42E5	17125	Function	"NC-Block type Bezier spline curve contains a cusp (singularity)" The Bezier spline curve contain a cusp, i.e. at a certain interior point both the curvature and the modulus of the velocity tend to 0 such that the radius of curvature is infinite. Note: Split the Bezier curve at that point into two Bezier spline curves according to the de "Casteljau algorithm". This preserves the geometry and eliminates the interior singularity.
42E7	17127	Parameter	"Value for dead time compensation not allowed" The value for the dead time compensation in seconds for a slave coupling to an encoder axis (virtual axis) is not allowed. Value range: [0.0 ... 60.0] Unit: s
42E8	17128	Parameter	"GROUPERR_RANGE_NOMOTIONWINDOW" Value range: [0.0 ... 1000.0] Unit: e.g. mm/s
42E9	17129	Parameter	"GROUPERR_RANGE_NOMOTIONFILTERTIME" Value range: [0.0 ... 60.0] Unit: s
42EA	17130	Parameter	"GROUPERR_RANGE_TIMEUNITFIFO" Value range: (0.0 ... 1000.0) Unit: s
42EB	17131	Parameter	"GROUPERR_RANGE_OVERRIDETYPE" Value range: [1, 2] Unit: 1
42EC	17132	Parameter	"GROUPERR_RANGE_OVERRIDECHANGETIME" Value range: (0.0 ... 1000.0) Unit: s
42ED	17133	Parameter	"GROUPERR_FIFO_INVALIDDIMENSION" Note: Since TC 2.11 Build 1547 the FIFO-dimension (number of axes) has been increased from 8 to 16. Value range: [1 ... 8] resp. [1 ... 16] Unit: 1 (number of axes)
42EE	17134	Address	"GROUPERR_ADDR_FIFOTABLE"
42EF	17135	Monitoring	"Axis is locked for motion commands because a stop command is still active" The axis/group is locked for motion commands because a stop command is still active. The axis can be released by calling <i>MC_Stop</i> with <i>Execute=FALSE</i> or by using <i>MC_Reset (TcMC2.Lib)</i> .
42F0	17136	Parameter	"Invalid number of auxiliary axes" The local number of auxiliary axes does not tally with the global number of auxiliary axes.
42F1	17137	Parameter	"Invalid reduction parameter for auxiliary axes" The velocity reduction parameters for the auxiliary axes are inconsistent.
42F2	17138	Parameter	"Invalid dynamic parameter for auxiliary axes" The dynamic parameters for the auxiliary axes are inconsistent.
42F3	17139	Parameter	"Invalid coupling parameter for auxiliary axes" The coupling parameters for the auxiliary axes are inconsistent.
42F4	17140	Parameter	"Invalid auxiliary axis entry" The auxiliary axis entry is empty (no axis motion).
42F6	17142	Parameter	"Invalid parameter" The limit for velocity reduction of the auxiliary axes is invalid. It has to be in the interval 0..1.0

Error(Hex)	Error(Dec)	Error Type	Description
42F8	17144	Parameter	<p>"Block search - segment not found" The segment specified as a parameter could not be found by the end of the NC program.</p> <p>Possible cause:</p> <ul style="list-style-type: none"> nBlockId is not specified in the mode described by eBlockSearchMode
42F9	17145	Parameter	"Blocksearch – invalid remaining segment length" The remaining travel in the parameter fLength is incorrectly parameterized
42FB	17147	Internal	<p>Internal Error in the Context of Coupled Axes (Slave Axes)</p> <p>Fatal internal error using coupled axes (slave axes). Inconsistent internal state. Please, contact the support team.</p>
42FC	17148	Parameter	<p>Parameter for the Maximum Number of Jobs (Entries) to be Transferred is Invalid</p> <p>The parameter that describes the maximum number of entries to transfer from the SVB to the SAF table per NC Cycle is invalid.</p> <p>Range of values: [1, 20] Unit: 1</p>
42FF	17151	Monitoring	<p>Customer Specific Error</p> <p>In this connection it is about a customer specific monitoring function.</p>

4.4 Axis Errors

Error(Hex)	Error(Dec)	Error type	Description
4300	17152	Parameter	<p>"Axis ID not allowed" The value for the axis ID is not allowed, e.g. because it has already been assigned, is less than or equal to zero, is greater than 255, or does not exist in the current configuration.</p> <p>Value range: [1 ... 255] Unit: 1</p>
4301	17153	Parameter	<p>"Axis type not allowed" The value for the axis type is not allowed, because it is not defined. Type 1: Servo Type 2: Fast/creep Type 3: Stepper motor</p> <p>Value range: [1 ... 3] Unit: 1</p>
4306	17158	Parameter	<p>"Slow manual velocity not allowed" The value for the slow manual velocity is not allowed.</p> <p>Value range: [0.0, 10000.0] Unit: e.g. m/min</p>
4307	17159	Parameter	<p>"Fast manual velocity not allowed" The value for the fast manual velocity is not allowed.</p> <p>Value range: [0.0, 10000.0] Unit: e.g. m/min</p>
4308	17160	Parameter	<p>"High speed not allowed" The value for the high speed is not allowed.</p> <p>Value range: [0.0, 10000.0] Unit: e.g. m/min</p>
4309	17161	Parameter	<p>"Acceleration not allowed" The value for the axis acceleration is not allowed.</p> <p>Value range: [0.0, 1000000.0] Unit: e.g. m/s/s</p>
430A	17162	Parameter	<p>"Deceleration not allowed" The value for the axis deceleration is not allowed.</p> <p>Value range: [0.0, 1000000.0] Unit: e.g. m/s/s</p>

Error(Hex)	Error(Dec)	Error type	Description
430B	17163	Parameter	"Jerk not allowed" The value for the axis jerk is not allowed.
			Value range: [0.0, 1000000.0] Unit: e.g. m/s/s/s
430C	17164	Parameter	"Delay time between position and velocity is not allowed (dead time compensation)" The value for the delay time between position and velocity ("dead time compensation") is not allowed.
			Value range: [0, 0.1] Unit: s
430D	17165	Parameter	"Override type not allowed" The value for the velocity override type is not allowed, because it is not defined. Type 1: related to internal reduced velocity (default value) Type 2: related to original external start velocity
			Value range: [1 ... 4] Unit: 1
430E	17166	Parameter	"NCI: Velo-Jump-Factor not allowed" An attempt was made to specify an invalid value for the velo-jump-factor. This parameter only works for TwinCAT NCI.
			Value range: [0, 1000000] Unit: 1
430F	17167	Parameter	"NCI: Size of tolerance sphere for auxiliary axis invalid" An attempt was made to specify an invalid value for the size of the tolerance sphere. This sphere affects only auxiliary axes!
			Value range: [0, 1000] Unit: e.g. mm
4310	17168	Parameter	"NCI: Value for maximum deviation for auxiliary axis invalid" An attempt was made to specify an invalid value for the value of the maximum deviation. This parameter affects only auxiliary axes!
			Value range: [0, 10000] Unit: e.g. mm
4312	17170	Parameter	"Referencing velocity in direction of cam not allowed" The value for the referencing velocity in the direction of the referencing cam is not allowed.
			Value range: [0.0, 10000.0] Unit: e.g. m/min
4313	17171	Parameter	"Referencing velocity in sync direction not allowed" The value for the referencing velocity in direction of the sync pulse (zero track) is not allowed.
			Value range: [0.0, 10000.0] Unit: e.g. m/min
4314	17172	Parameter	"Pulse width in positive direction not allowed" The value for the pulse width in positive direction is not allowed (pulsed operation). The use of the pulse width for positioning is chosen implicitly through the axis start type. Pulsed operation corresponds to positioning with a relative displacement that corresponds precisely to the pulse width.
			Value range: [0.0, 1000000.0] Unit: e.g. mm
4315	17173	Parameter	"Pulse width in negative direction not allowed" The value for the pulse width in negative direction is not allowed (pulsed operation). The use of the pulse width for positioning is chosen implicitly through the axis start type. Pulsed operation corresponds to positioning with a relative displacement that corresponds precisely to the pulse width.
			Value range: [0.0, 1000000.0] Unit: e.g. mm

Error(Hex)	Error(Dec)	Error type	Description
4316	17174	Parameter	"Pulse time in positive direction not allowed" The value for the pulse width in positive direction is not allowed (pulsed operation).
			Value range: [0.0, 600.0] Unit: s
4317	17175	Parameter	"Pulse time in negative direction not allowed" The value for the pulse width in negative direction is not allowed (pulsed operation).
			Value range: [0.0, 600.0] Unit: s
4318	17176	Parameter	"Creep distance in positive direction not allowed" The value for the creep distance in positive direction is not allowed.
			Value range: [0.0, 100000.0] Unit: e.g. mm
4319	17177	Parameter	"Creep distance in negative direction not allowed" The value for the creep distance in negative direction is not allowed.
			Value range: [0.0, 100000.0] Unit: e.g. mm
431A	17178	Parameter	"Braking distance in positive direction not allowed" The value for the braking distance in positive direction is not allowed.
			Value range: [0.0, 100000.0] Unit: e.g. mm
431B	17179	Parameter	"Braking distance in negative direction not allowed" The value for the braking distance in negative direction is not allowed.
			Value range: [0.0, 100000.0] Unit: e.g. mm
431C	17180	Parameter	"Braking time in positive direction not allowed" The value for the braking time in positive direction is not allowed.
			Value range: [0.0, 60.0] Unit: s
431D	17181	Parameter	"Braking time in negative direction not allowed" The value for the braking time in negative direction is not allowed.
			Value range: [0.0, 60.0] Unit: s
431E	17182	Parameter	"Switching time from high to low speed not allowed" The value for the switching time from high to low speed is not allowed.
			Value range: [0.0, 60.0] Unit: s
431F	17183	Parameter	"Creep distance for stop not allowed" The value for the creep distance for an explicit stop is not allowed.
			Value range: [0.0, 100000.0] Unit: e.g. mm
4320	17184	Parameter	"Motion monitoring time not allowed" The value for the motion monitoring time is not allowed.
			Value range: [0, 1] Unit: 1
4321	17185	Parameter	"Position window monitoring not allowed" The value for the activation of the position window monitoring is not allowed.
			Value range: [0, 1] Unit: 1
4322	17186	Parameter	"Target window monitoring not allowed" The value for the activation of target window monitoring is not allowed.
			Value range: [0, 1] Unit: 1
4323	17187	Parameter	"Loop not allowed" The value for the activation of loop movement is not allowed.
			Value range: [0, 1] Unit: 1

Error(Hex)	Error(Dec)	Error type	Description
4324	17188	Parameter	"Motion monitoring time not allowed" The value for the motion monitoring time is not allowed.
			Value range: [0.0, 600.0] Unit: s
4325	17189	Parameter	"Target window range not allowed" The value for the target window is not allowed.
			Value range: [0.0, 10000.0] Unit: e.g. mm
4326	17190	Parameter	"Position window range not allowed" The value for the position window is not allowed.
			Value range: [0.0, 10000.0] Unit: e.g. mm
4327	17191	Parameter	"Position window monitoring time not allowed" The value for the position window monitoring time is not allowed.
			Value range: [0.0, 600.0] Unit: s
4328	17192	Parameter	"Loop movement not allowed" The value for the loop movement is not allowed.
			Value range: [0.0, 10000.0] Unit: e.g. mm
4329	17193	Parameter	"Axis cycle time not allowed" The value for the axis cycle time is not allowed.
			Value range: [0.001, 0.1] Unit: s
432A	17194	Parameter	"Stepper motor operating mode not allowed" The value for the stepper motor operating mode is not allowed.
			Value range: [1, 2] Unit: 1
432B	17195	Parameter	"Displacement per stepper motor step not allowed" The value for the displacement associated with one step of the stepper motor is not allowed (step scaling).
			Value range: [0.000001, 1000.0] Unit: e.g. mm/STEP
432C	17196	Parameter	"Minimum speed for stepper motor set value profile not allowed" The value for the minimum speed of the stepper motor speed profile is not allowed.
			Value range: [0.0, 1000.0] Unit: e.g. m/min
432D	17197	Parameter	"Stepper motor steps per speed level not allowed" The value for the number of steps per speed level of the setpoint generation is not allowed.
			Value range: [0, 100] Unit: 1
432E	17198	Parameter	"DWORD for the interpretation of the axis units not allowed" The value containing the flags for the interpretation of position and velocity units is not allowed.
			Value range: [0, 0xFFFFFFFF] Unit: 1
432F	17199	Parameter	"Maximum velocity not allowed" The value for the maximum permitted velocity is not allowed.
			Value range: [0.0, 10000.0] Unit: e.g. m/min
4330	17200	Parameter	"Motion monitoring window not allowed" The value for the motion monitoring window is not allowed.
			Value range: [0.0, 10000.0] Unit: e.g. mm
4331	17201	Parameter	"PEH time monitoring not allowed" The value for the activation of the PEH time monitoring is not allowed (PEH: positioning end and halt).
			Value range: [0, 1] Unit: 1

Error(Hex)	Error(Dec)	Error type	Description
4332	17202	Parameter	"PEH monitoring time not allowed" The value for the PEH monitoring time (timeout) is not allowed (PEH: positioning end and halt). Default value: 5s
			Value range: [0.0, 600.0] Unit: s
4333	17203	Parameter	Parameter "Brake Release Delay" is invalid The parameter for the brake release delay of a high/low speed axis is invalid.
			Value range: [0.0, 60.0] Unit: s
4334	17204	Parameter	Parameter "NC Data Persistence" is invalid The boolean parameter NC Data Persistence of an axis is invalid.
			Value range: [0, 1] Unit: 1
4335	17205	Parameter	Parameter for Error Reaction Mode is invalid The parameter for the error reaction mode of the axis is invalid (instantaneous, delayed).
			Value range: [0, 1] Unit: 1
4336	17206	Parameter	Parameter for the Error Reaction Delay is invalid The parameter for the error reaction delay of the axis is invalid.
			Value range: [0.0, 1000.0] Unit: s
4337	17207	Parameter	Parameter "Use actual values in deactivated state" is invalid The parameter "Use actual values in deactivated state" is invalid.
			Value range: [0, 1] Unit: 1
4338	17208	Parameter	Parameter "Allow Motion Commands for Slave Axes" is invalid The boolean parameter "Allow Motion Commands for Slave Axes" is invalid. This parameter determines whether a motion command may be sent to a slave axis or whether this is rejected with a NC error 0x4266 or 0x4267.
			Value range: [0, 1] Unit: 1
4339	17209	Parameter	Parameter "Allow Motion Commands for axis in external setpoint generation" is invalid The boolean parameter "Allow Motion Commands for axis in external setpoint generation" is invalid. This parameter determines whether a motion command may be sent to an axis in the external setpoint generation state or whether this is rejected with an error 0x4257.
			Value range: [0, 1] Unit: 1
433A	17210	Parameter	Parameter "Fading Acceleration" is invalid The Fading Acceleration parameter for the fading profile from SET to ACTUAL values is invalid. This parameter defines how to crossfade from a setpoint based axis coupling to an actual value based coupling (indirectly results in a time for the crossfade). Note: The value 0.0 causes the minimum of the default acceleration and default deceleration to be used internally in the NC as the fading acceleration.
			Value range: [0; 0.01 .. 1.0e+20] Unit: e.g. mm/s^2

Error(Hex)	Error(Dec)	Error type	Description
433B	17211	Parameter	"Fast Axis Stop' signal type not allowed" The value for the signal type of the 'Fast Axis Stop' is not allowed [0...5].
4340	17216	Initialization	"Axis initialization" Axis has not been initialized. Although the axis has been created, the rest of the initialization has not been performed (1. Initialization of axis I/O, 2. Initialization of axis, 3. Reset axis).
4341	17217	Address	"Group address" Axis does not have a group, or the group address has not been initialized (group contains the setpoint generation).
4342	17218	Address	"Encoder address" The axis does not have an encoder, or the encoder address has not been initialized.
4343	17219	Address	"Controller address" An axis does not have a controller, or the controller address has not been initialized.
4344	17220	Address	"Drive address" The axis does not have a drive, or the drive address has not been initialized.
4345	17221	Address	"Axis interface PLC to NC address" Axis does not have an axis interface from the PLC to the NC, or the axis interface address has not been initialized.
4346	17222	Address	"Axis interface NC to PLC address" Axis does not have an axis interface from the NC to the PLC, or the axis interface address has not been initialized.
4347	17223	Address	"Size of axis interface NC to PLC not allowed" (INTERNAL ERROR) The size of the axis interface from the NC to the PLC (NC to PLC) is not allowed.
4348	17224	Address	" Size of axis interface PLC to NC not allowed"(INTERNAL ERROR) The size of the axis interface from the PLC to the NC is not allowed.
4356	17238	Monitoring	"Controller enable" Controller enable for the axis is not present (see axis interface SPS@NC). This enable is required, for instance, for an axis positioning task.
4357	17239	Monitoring	Feed enable negative: There is no feed enable for negative motion direction (see axis interface SPS->NC). This enable is required, for instance, for an axis positioning task in the negative direction.
4358	17240	Monitoring	"Feed enable plus" Feed enable for movement in the positive direction is not present (see axis interface SPS@NC). This enable is required, for instance, for an axis positioning task in the positive direction.
4359	17241	Monitoring	"Set velocity not allowed" The set velocity requested for a positioning task is not allowed. This can happen if the velocity is less than or equal to zero, larger than the maximum permitted axis velocity, or, in the case of servo-drives, is larger than the reference velocity of the axis (see axis and drive parameters).
435A	17242	Monitoring	"Movement smaller than one encoder increment" (INTERNAL ERROR) The movement required of an axis is, in relation to a positioning task, smaller than one encoder increment (see scaling factor). This information is, however, handled internally in such a way that the positioning is considered to have been completed without an error message being returned.
435B	17243	Monitoring	"Set acceleration monitoring" (INTERNAL ERROR) The set acceleration has exceeded the maximum permitted acceleration or deceleration parameters of the axis

Error(Hex)	Error(Dec)	Error type	Description
435C	17244	Monitoring	"PEH time monitoring" The PEH time monitoring has detected that, after the PEH monitoring time that follows a positioning has elapsed, the target position window has not been reached. The following points must be checked: Is the PEH monitoring time, in the sense of timeout monitoring, set to a sufficiently large value (e.g. 1-5 s)? The PEH monitoring time must be chosen to be significantly larger than the target position monitoring time. Have the criteria for the target position monitoring (range window and time) been set too strictly? Note: The PEH time monitoring only functions when target position monitoring is active!
435D	17245	Monitoring	Motion Monitoring The actual position of the axis has not changed or has changed only slightly during the motion monitoring time. To avoid an error, the axis must change by more than the parameterized motion monitoring window in at least one NC cycle during the monitoring time. => Check, whether axis is mechanically blocked, or the encoder system failed.
435E	17246	Monitoring	"Looping distance less than breaking distance" The absolute value of the looping distance is less or equal than the positive or negative breaking distance. This is not allowed.
435F	17247	Monitoring	Starting velocity not allowed The required starting velocity for a positioning task is not allowed (normally the starting velocity is zero). This can happen if the velocity is less than or equal to zero, larger than the maximum permitted axis velocity, or, in the case of servo drives, is larger than the reference velocity of the axis (see axis and drive parameters).
4360	17248	Monitoring	Final velocity not allowed The required final velocity for a positioning task is not allowed (normally the final velocity is zero). This can happen if the velocity is less than or equal to zero, larger than the maximum permitted axis velocity, or, in the case of servo drives, is larger than the reference velocity of the axis (see axis and drive parameters).
4361	17249	Monitoring	"Time range exceeded (future)" The calculated position lies too far in the future (e.g. when converting a position value in a DC time stamp).
4362	17250	Monitoring	"Time range exceeded (past)" The calculated position lies too far in the past (e.g. when converting a position value in a DC time stamp).
4363	17251	Monitoring	"Position cannot be determined" The requested position cannot be determined. Case 1: It was not passed through in the past. Case 2: It cannot be reached in future. A reason can be a zero velocity value or an acceleration that causes a motion reversal.
4364	17252	Monitoring	"Position indeterminable (conflicting direction of travel)" The direction of travel expected by the caller of the function deviates from the actual direction of travel (conflict between PLC and NC view, for example when converting a position to a DC time).

Error(Hex)	Error(Dec)	Error type	Description
4370	17264	Monitoring	No slave coupling possible (velocity violation) A slave coupling to a master axis (e.g. by a universal flying saw) is rejected because otherwise the maximum velocity of the slave axis would be exceeded (a velocity monitoring has been selected).
4371	17265	Monitoring	No slave coupling possible (acceleration violation) A slave coupling to a master axis (e.g. by a universal flying saw) is rejected, because otherwise the maximum acceleration of the slave axis will be exceeded (an acceleration monitoring is selected).
4372 – 438B	17266 – 17291		See TF5055 NC Flying Saw - Error Codes
43A0	17312	Internal	"Axis consequential error" Consequential error resulting from another causative error related to another axis. Axis consequential errors can occur in relation to master/slave-couplings or with multiple axis interpolating DXD groups.

4.5 Encoder Errors

Error(Hex)	Error(Dec)	Error Type	Description
4400	17408	Parameter	"Encoder ID not allowed" The value for the encoder ID is not allowed, e.g. because it has already been assigned, is less than or equal to zero, or is bigger than 255. Value range: [1 ... 255] Unit: 1
4401	17409	Parameter	"Encoder type not allowed" The value for the encoder type is unacceptable because it is not defined. Type 1: Simulation (incremental) Type 2: M3000 (24 bit absolute) Type 3: M31x0 (24 bit incremental) Type 4: KL5101 (16 bit incremental) Type 5: KL5001 (24 bit absolute SSI) Type 6: KL5051 (16 bit BISSI) Value range: [1 ... 6] Unit: 1
4402	17410	Parameter	"Encoder mode" The value for the encoder (operating) mode is not allowed. Mode 1: Determination of the actual position Mode 2: Determination of the actual position and the actual velocity (filter) Value range: [1, 2] Unit: 1
4403	17411	Parameter	"Encoder counting direction inverted?" The flag for the encoder counting direction is not allowed. Flag 0: Positive encoder counting direction Flag 1: Negative encoder counting direction Value range: [0, 1] Unit: 1
4404	17412	Initialization	"Referencing status" The flag for the referencing status is not allowed. Flag 0: Axis has not been referenced Flag 1: Axis has been referenced Value range: [0, 1] Unit: 1
4405	17413	Parameter	"Encoder increments for each physical encoder rotation" The value for the number of encoder increments for each physical rotation of the encoder is not allowed. This value is used by the software for the calculation of encoder overruns and underruns. Value range: [255, 0xFFFFFFFF] Unit: INC

Error(Hex)	Error(Dec)	Error Type	Description
4406	17414	Parameter	"Scaling factor" The value for the scaling factor is not allowed. This scaling factor provides the weighting for the conversion of an encoder increment (INC) to a physical unit such as millimeters or degrees.
			Value range: [0.000001, 100.0] Unit: e.g. mm/INC
4407	17415	Parameter	"Position offset (zero point offset)" The value for the position offset of the encoder is not allowed. This value is added to the calculated encoder position, and is interpreted in the physical units of the encoder.
			Value range: [-1000000.0, 1000000.0] Unit: e.g. mm
4408	17416	Parameter	"Modulo factor" The value for the encoder's modulo factor is not allowed.
			Value range: [1.0, 1000000.0] Unit: e.g. mm
4409	17417	Parameter	"Position filter time" The value for the actual position filter time is not allowed (P-T1 filter).
			Value range: [0.0, 60.0] Unit: s
440A	17418	Parameter	"Velocity filter time" The value for the actual velocity filter time is not allowed (P-T1 filter).
			Value range: [0.0, 60.0] Unit: s
440B	17419	Parameter	"Acceleration filter time" The value for the actual acceleration filter time is not allowed (P-T1 filter).
			Value range: [0.0, 60.0] Unit: s
440C	17420	Initialization	"Cycle time not allowed" (INTERNAL ERROR) The value of the SAF cycle time for the calculation of actual values is not allowed (e.g. is less than or equal to zero).
440D	17421	Initialization	"Configuration of the selected units is invalid" E.g. settings for modulo position, velocity per minute etc. lead to an error.
440E	17422	Parameter	"Actual position correction / measurement system error correction" The value for the activation of the actual position correction ("measuring system error correction") is not allowed.
			Value range: [0, 1] Unit: 1
440F	17423	Parameter	"Filter time actual position correction" The value for the actual position correction filter time is not allowed (P-T1 filter).
			Value range: [0.0, 60.0] Unit: s
4410	17424	Parameter	"Search direction for referencing cam inverted" The value of the search direction of the referencing cam in a referencing procedure is not allowed. Value 0: Positive direction Value 1: Negative direction
			Value range: [0, 1] Unit: 1
4411	17425	Parameter	"Search direction for sync pulse (zero pulse) inverted" The value of the search direction of the sync pulse (zero pulse) in a referencing procedure is not allowed. Value 0: Positive direction Value 1: Negative direction
			Value range: [0, 1] Unit: 1
4412	17426	Parameter	"Reference position" The value of the reference position in a referencing procedure is not allowed.
			Value range: [-1000000.0, 1000000.0] Unit: e.g. mm
4413	17427	Parameter	"Clearance monitoring between activation of the hardware latch and appearance of the sync pulse" (NOT IMPLEMENTED) The flag for the clearance monitoring between activation of the hardware latch and occurrence of the sync/zero pulse ("latch valid") is not allowed. Value 0: Passive Value 1: Active

Error(Hex)	Error(Dec)	Error Type	Description
			Value range: [0, 1] Unit: 1
4414	17428	Parameter	<p>"Minimum clearance between activation of the hardware latch and appearance of the sync pulse" (NOT IMPLEMENTED) The value for the minimum clearance in increments between activation of the hardware latch and occurrence of the sync/zero pulse ("latch valid") during a referencing procedure is not allowed.</p> <p>Value range: [0, 65536] Unit: INC</p>
4415	17429	Parameter	<p>"External sync pulse" (NOT IMPLEMENTED) The value of the activation or deactivation of the external sync pulse in a referencing procedure is not allowed. Value 0: Passive Value 1: Active</p> <p>Value range: [0, 1] Unit: 1</p>
4416	17430	Parameter	<p>"Scaling of the noise rate is not allowed" The value of the scaling (weighting) of the synthetic noise rate is not allowed. This parameter exists only in the simulation encoder and serves to produce a realistic simulation.</p> <p>Value range: [0, 1000000] Unit: 1</p>
4417	17431	Parameter	<p>„Tolerance window for modulo-start“ The value for the tolerance window for the modulo-axis-start is invalid. The value must be greater or equal than zero and smaller than the half encoder modulo-period (e. g. in the interval [0.0,180.0)).</p> <p>Value range: [0.0, 180], Max: 0.5*modulo-periode Unit: e. g. mm or degree</p>
4418	17432	Parameter	<p>„Encoder reference mode“ The value for the encoder reference mode is not allowed, resp. is not supported for this encoder type.</p> <p>Value range: [0, 5] Unit: 1</p>
4419	17433	Parameter	<p>„Encoder evaluation direction“ The value for the encoder evaluation direction (log. counter direction) is not allowed.</p> <p>Value range: [0, 3] Unit: 1</p>
441A	17434	Parameter	<p>„Encoder reference system“ The value for the encoder reference system is invalid (0: incremental, 1: absolute, 2: absolute+modulo).</p> <p>Value range: [0, 2] Unit: 1</p>
441B	17435	Parameter	<p>„Encoder position initialization mode“ When starting the TC system the value for the encoder position initialization mode is invalid.</p> <p>Value range: [0, 1] Unit: 1</p>
441C	17436	Parameter	<p>„Encoder sign interpretation (UNSIGNED- / SIGNED- data type)“ The value for the encoder sign interpretation (data type) for the encoder the actual increment calculation (0: Default/not defined, 1: UNSIGNED, 2:/ SIGNED) is invalid.</p> <p>Value range: [0, 2] Unit: 1</p>
441D	17437	Parameter	<p>“Homing Sensor Source” The value for the encoder homing sensor source is not allowed, resp. is not supported for this encoder type.</p> <p>Value range: [0, 16] Unit: 1</p>
4420	17440	Parameter	<p>"Software end location monitoring minimum not allowed" The value for the activation of the software location monitoring minimum is not allowed.</p> <p>Value range: [0, 1] Unit: 1</p>
4421	17441	Parameter	<p>"Software end location monitoring maximum not allowed" The value for the activation of the software location monitoring maximum is not allowed.</p>

Error(Hex)	Error(Dec)	Error Type	Description
			Value range: [0, 1] Unit: 1
4422	17442	Function	"Actual value setting is outside the value range" The "set actual value" function cannot be carried out, because the new actual position is outside the expected range of values. Value range: [-1000000.0, 1000000.0] Unit: e.g. mm
4423	17443	Parameter	"Software end location minimum not allowed" The value for the software end location minimum is not allowed. Value range: [-1000000000.0, 1000000000.0] Unit: e.g. mm
4424	17444	Parameter	"Software end location maximum not allowed" The value for the software end location maximum is not allowed. Value range: [-1000000000.0, 1000000000.0] Unit: e.g. mm
4425	17445	Parameter	„Filter mask for the raw data of the encoder is invalid“ The value for the filter mask of the encoder raw data in increments is invalid. Value range: [0, 0xFFFFFFFF] Unit: 1
4426	17446	Parameter	„Reference mask for the raw data of the encoder is invalid“ The value for the reference mask (increments per encoder turn, absolute resolution) for the raw data of the encoder is invalid. E.g. this value is used for axis reference sequence (calibration) with the reference mode "Software Sync". Value range: [0x0000000F, 0xFFFFFFFF] Unit: 1
4427	17447	Parameter	Parameter Dead Time Compensation Mode (Encoder) is Invalid The parameter for the mode of dead time compensation at the NC encoder is invalid (OFF, ON with velocity, ON with velocity and acceleration). Range of values: [0, 1, 2] Unit: 1
4428	17448	Parameter	Parameter "Control Bits of Dead Time Compensation" (Encoder) is Invalid The parameter for the control bits of dead time compensation at the encoder is invalid (e.g. relative or absolute time interpretation). Range of values: [>0] Unit: 1
4429	17449	Parameter	Parameter "Time Related Shift of Dead Time Compensation Mode" (Encoder) is Invalid The parameter for time related shift of dead time compensation (time shift in nanoseconds) at the encoder is invalid. Range of values: [-1.0E9 .. 1.0E9] Unit: ns
4430	17456	Function	"Hardware latch activation (encoder)" Activation of the encoder hardware latch was implicitly initiated by the referencing procedure. If this function has already been activated but a latch value has not yet become valid ("latch valid"), another call to the function is refused with this error.
4431	17457	Function	"External hardware latch activation (encoder)" The activation of the external hardware latch (only available on the KL5101) is initiated explicitly by an ADS command (called from the PLC program of the Visual Basic interface). If this function has already been activated, but the latch value has not yet been made valid by an external signal ("external latch valid"), another call to the function is refused with this error.

Error(Hex)	Error(Dec)	Error Type	Description
4432	17458	Function	"External hardware latch activation (encoder)" If a referencing procedure has previously been initiated and the hardware still signals a valid latch value ("latch valid"), this function must not be called. In practice, however, this error can almost never occur.
4433	17459	Function	"External hardware latch activation (encoder)" If this function has already been initiated and the hardware is still signaling that the external latch value is still valid ("extern latch valid"), a further activation should not be carried out and the commando will be declined with an error (the internal handshake communication between NC and IO device is still active). In that case the validity of the external hardware latch would immediately be signaled, although the old latch value would still be present.
4434	17460	Monitoring	"Encoder function not supported" An encoder function has been activated that is currently not released for use, or which is not even implemented.
4435	17461	Monitoring	„Encoder function is already active“ An encoder function can not be activated because this functionality is already active.
4440	17472	Initialization	"Encoder initialization" Encoder has not been initialized. Although the axis has been created, the rest of the initialization has not been performed (1. Initialization of axis I/O, 2. Initialization of axis, 3. Reset axis).
4441	17473	Address	"Axis address" The encoder does not have an axis, or the axis address has not been initialized.
4442	17474	Address	"I/O input structure address" The drive does not have a valid I/O input address in the process image.
4443	17475	Address	"I/O output structure address" The encoder does not have a valid I/O output address in the process image.
4450	17488	Monitoring	"Encoder counter underflow monitoring" The encoder's incremental counter has underflowed.
4451	17489	Monitoring	"Encoder counter overflow monitoring" The encoder's incremental counter has overflowed.
4460	17504	Monitoring	"Minimum Software Position Limit (Axis Start)" While monitoring of the minimum software position limit is active, an axis start has been performed towards a position that lies below the minimum software position limit.
4461	17505	Monitoring	"Maximum Software Position Limit (Axis Start)" While monitoring of the maximum software position limit is active, an axis start has been performed towards a position that lies above the maximum software position limit.
4462	17506	Monitoring	"Minimum Software Position Limit (Positioning Process)" While monitoring of the minimum software position limit is active, the actual position has fallen below the minimum software position limit. In case of servo axes, which are moved continuously, this limit is expanded by the magnitude of the parameterized following error position window.
4463	17507	Monitoring	"Maximum Software Position Limit (Positioning Process)" While monitoring of the maximum software position limit is active, the actual position has exceeded the maximum software position limit. In case of servo axes, which are moved continuously, this limit is expanded by the magnitude of the parameterized following error position window.
4464	17508	Monitoring	„Encoder hardware error“ The drive resp. the encoder system reports a hardware error of the encoder. An optimal error code is displayed in the message of the event log.

Error(Hex)	Error(Dec)	Error Type	Description
4465	17509	Monitoring	„Position initialization error at system start“ At the first initialization of the set position was this for all initialization trials (without over-/under-flow, with underflow and overflow) out of the final position minimum and maximum.
4466	17510	Monitoring	Invalid IO data for more than n subsequent NC cycles (encoder) The axis (encoder) has detected for more than n subsequent NC cycles (NC SAF task) invalid encoder IO data (e.g. n=3). Typically, regarding an EtherCAT member it is about a Working Counter Error (WcState) what displays that data transfer between IO device and controller is disturbed. If this error is set for a longer period of time continuously, this situation can lead to losing the axis reference (the “homed” flag will be reset and the encoder will get the state “unreferenced”). Possible reasons for this error: An EtherCAT slave may have left its OP state or there is a too high real time usage or a too high real time jitter.
4467	17511	Monitoring	Invalid Actual Position (Encoder) The IO device delivers an invalid actual position (for CANopen/CoE look at bit 13 of encoder state “TxPDO data invalid” or “invalid actual position value”).
4468	17512	Monitoring	Invalid IO Input Data (Error Type 1) The monitoring of the “cyclic IO input counter” (2 bit counter) has detected an error. The input data has not been refreshed for at least 3 NC SAF cycles (the 2 bit counter displays a constant value for multiple NC SAF cycles, instead of incrementing by exactly one from cycle to cycle).
4469	17513	Monitoring	Invalid IO Input Data (Error Type 2) The monitoring of the “cyclic IO input counter” (2 bit counter) has detected an error. The quality of input data based on this two bit counter is not sufficient (there is here a simple statistic evaluation that evaluates GOOD cases and BAD cases and in exceeding a special limit value leads to an error).
4470	17520	Monitoring	"SSI transformation fault or not finished" The SSI transformation of the FOX 50 module was faulty for some NC-cycles or did not finished respectively.
44A2	17570	Monitoring	"ENCERR_ADDR_CONTROLLER"
44A3	17571	Monitoring	"ENCERR_INVALID_CONTROLLERTYPE"

4.6 Controller Errors

Error(Hex)	Error(Dec)	Error Type	Description
4500	17664	Parameter	"Controller ID not allowed" The value for the controller ID is not allowed, e.g. because it has already been assigned, is less than or equal to zero, or is greater than 255. Value range: [1 ... 255] Unit: 1
4501	17665	Parameter	"Controller type not allowed" The value for the controller type is unacceptable because it is not defined. Type 1: P-controller (position) . . . Type 7: High/low speed controller Type 8: Stepper motor controller Type 9: Sercos controller Value range: [1 ... 8] Unit: 1

Error(Hex)	Error(Dec)	Error Type	Description
4502	17666	Parameter	"Controller operating mode not allowed" The value for the controller operating mode is not allowed.
			Value range: [1] Unit: 1
4503	17667	Parameter	"Weighting of the velocity pre-control not allowed" The value for the percentage weighting of the velocity pre-control is not allowed. The parameter is pre-set to 1.0 (100%) as standard.
			Value range: [0.0 ... 1.0] Unit: %
4504	17668	Parameter	"Following error monitoring (position) not allowed" The value for the activation of the following error monitoring is not allowed.
			Value range: [0, 1] Unit: 1
4505	17669	Parameter	"Following error (velocity) not allowed" The value for the activation of the following error monitoring (velocity) is not allowed.
			Value range: [0, 1] Unit: 1
4506	17670	Parameter	"Following error window (position) not allowed" The value for the following error window (maximum allowable following error) is not allowed.
			Value range: [0.0, 10000.0] Unit: e.g. mm

Error(Hex)	Error(Dec)	Error Type	Description
4507	17671	Parameter	"Following error filter time (position) not allowed" The value for the following error filter time (position) is not allowed.
			Value range: [0.0, 600.0] Unit: s
4508	17672	Parameter	"Following error window (velocity) not allowed" The value for the following error window (velocity) is not allowed.
			Value range: [0.0, 10000.0] Unit: e.g. m/min
4509	17673	Parameter	"Following error filter time (velocity) not allowed" The value for the following error filter time (velocity) is not allowed.
			Value range: [0.0, 600.0] Unit: s
450A	17674	Parameter	"Controller Output Limitation" Improper The value for output limitation of the controller at the overall setpoint quantity is improper. The presetting amounts to 0.5 (50 percent). Typically, this parameter is at work if to the motion controller device the velocity interface has been parameterized and the NC performs position control of the position on the controller.
4510	17680	Parameter	"Proportional gain Kv or Kp (controller) not allowed" <i>position</i> The value for the proportional gain (Kv factor or Kp factor) is not allowed.
			Value range: [0.0, 10000.0] Unit: e.g. mm/s/mm
4511	17681	Parameter	"Integral-action time Tn (controller) not allowed" <i>position</i> The value for the integral-action time is not allowed (I proportion of the PID T1 controller).
			Value range: [0.0, 60.0] Unit: s
4512	17682	Parameter	"Derivative action time Tv (controller) not allowed" <i>position</i> The value for the derivative action time is not allowed (D proportion of the PID T1 controller).
			Value range: [0.0, 60.0] Unit: s
4513	17683	Parameter	"Damping time Td (controller) not allowed" <i>position</i> The value for the damping time is not allowed (D proportion of the PID T1 controller). Suggested value: 0.1 * Tv
			Value range: [0.0, 60.0] Unit: s

Error(Hex)	Error(Dec)	Error Type	Description
4514	17684	Function	"Activation of the automatic offset compensation not allowed" Activation of the automatic offset compensation is only possible for certain types of controller (with no I component).
4515	17685	Parameter	"Additional proportional gain Kv or Kp (controller) not allowed" <i>position</i> The value for the second term of the proportional gain (Kv factor or Kp factor) is not allowed. Value range: [0.0, 10000.0] Unit: e.g. mm/s/mm
4516	17686	Parameter	"Reference velocity for additional proportional gain Kv or Kp (controller) not allowed" <i>position</i> The value for the reference velocity percentage data entry, to which the additional proportional gain is applied, is not allowed. The standard setting for the parameter is 0.5 (50%). Value range: [0.0 ... 1.0] Unit: %
4517	17687	Parameter	"Proportional gain Pa (proportion) not allowed" <i>acceleration</i> The value for the proportional gain (Pa factor) is not allowed. Value range: [0.0, 1000000.0] Unit: s
4518	17688	Parameter	"Proportional gain Kv (velocity controller) not allowed" The value for the proportional gain (Kv factor) is not allowed. Value range: [0.0, 10000.0] Unit: 1
4519	17689	Parameter	"Reset time Tn (velocity controller) not allowed" The value for the integral-action time is not allowed (I proportion of the PID T1 controller). Value range: [0.0, 60.0] Unit: s
451A	17690	Parameter	Reserved Reserved, currently not used.
451B	17691	Parameter	Reserved Reserved, currently not used.
451C	17692	Parameter	"Velocity Filter Time" Improper The parameter for velocity filter time in seconds is improper (P-T1 filter). This filter can be used within the NC for filtering an actual velocity or a velocity difference ($\text{velocity error} = \text{setpoint velocity} - \text{actual velocity}$) in special NC controllers (e.g. within the torque interface). Range of values: [0.0, 60.0] Unit: s
451D	17693	Parameter	"Dead zone not allowed" The value for the dead zone from the position error or the velocity error (system deviation) is not allowed (only for complex controller with velocity or torque interface). Value range: [0.0, 10000.0] Unit: mm resp. mm/s
451F	17695	Parameter	"Proportionality Factor Kcp" Improper The parameter for the "proportional factor K_{cp} " of the slave coupling differential control is improper. Range of values: [0.0, 10000.0] Unit: e.g. mm ² /mm
4520	17696	Parameter	"Rate time Tv (velocity controller) not allowed" The value for the derivative action time is not allowed (D proportion of the PID T1 controller). Value range: [0.0, 60.0] Unit: s
4521	17697	Parameter	"Damping time Td (velocity controller) not allowed" The value for the damping time is not allowed (D proportion of the PID T1 controller). Suggested value: $0.1 \cdot T_v$ Value range: [0.0, 60.0] Unit: s

Error(Hex)	Error(Dec)	Error Type	Description
4522	17698	Parameter	“Limitation of the I Part” Improper The parameter for limiting the I part of a PI or PID controller is improper. This inner state quantity can be limited in percent (1.0 refers to 100 percent).
			Range of values: [0.0 .. 1.0] Unit: %
4523	17699	Parameter	“Limitation of the D Part” Improper The parameter for limitation of the D part of a PI or PID controller is improper. This inner state quantity may be limited in percent (1.0 refers to 100 percent).
			Range of values: [0.0 .. 1.0] Unit: %
4524	17700	Parameter	Parameter “Switching Off the I Part During Motion” is Improper The boolean parameter for switching off the I part during an active positioning is improper.
			Range of values: [0, 1] Unit: 1
4525	17701	Parameter	Parameter “Filter Time for P-T2 Filter” Improper The time T ₀ in seconds is as filter time for the velocity controller P-T ₂ element improper. The filter time has to be smaller than twice the NC-SAF cycle time.
			Range of values: [0.0, 60.0] Unit: s
4526	17702	Parameter	Velocity Observer: “Parameterized Mode” is Improper The parameterized mode (0=OFF, 1=LUENBERGER) for the special NC controller velocity observer within the torque interface is improper.
			Range of values: [0, 1] Unit: 1
4527	17703	Parameter	Velocity Observer: “Motor Torque Constant K_t or K_f” is Improper The parameter for the motor torque constant K _t (rotational motor) or K _f (linear motor) of the special NC controller velocity observer within the torque interface is improper.
			Range of values: [0.0 .. 100000.0] Unit: Nm/A or N/A
4528	17704	Parameter	Velocity Observer: “Motor Moment of Inertia J_M” is Improper The parameter for the motor moment of inertia J _M of the special NC controller velocity observer within the torque interface is improper.
			Range of values: [0.0001 .. 100000.0] Unit: kg cm ²
4529	17705	Parameter	Velocity Observer: “Band Width f₀” is Improper The parameter for the band width f ₀ of the special NC controller velocity observer within the torque interface is improper. The band width has to be smaller than the reciprocal value of six times the NC cycle time (f ₀ < 1/(6*T)).
			Range of values: [0.0 .. 10000.0] Unit: Hz
452A	17706	Parameter	Velocity Observer: “Correction Factor k_c” is Improper The parameter for the correction factor k _c of the special NC controller velocity observer within the torque interface is improper. The correction factor k _c implements the relation between current and acceleration or angular acceleration.
			Range of values: [0.0 .. 100.0] Unit: s
452B	17707	Parameter	Velocity Observer: “Time Constant T for First Order Filter” is Improper

Error(Hex)	Error(Dec)	Error Type	Description
			The time constant T for the first order velocity filter (PID- T_2 or "Lead Lag") of the specific NC controller velocity observer within the torque interface is improper. The correction factor k_c implements the relation between current and acceleration or angular acceleration. Range of values: [0.0 .. 100.0] Unit: s
452C	17708	Parameter	Velocity Observer: "Amplitude Damping d for Second Order Filter" is Improper The high pass/ low pass amplitude damping d_{HP} or d_{TP} for the second order velocity filter ("Bi-Quad") of the special NC controller velocity observer within the torque interface is improper. Range of values: [0.2 .. 10.0] Unit: 1
452D	17709	Parameter	Velocity Observer: "Frequency fHP or Frequency fTP for Filters of Second Order" is Improper The high pass frequency f_{HP} or the low pass frequency f_{TP} for the second order velocity filter ("Bi-Quad") of the specific NC controller velocity observer within the torque interface is improper. Range of values: [0.0, .. 10000.0] Unit: Hz
4540	17728	Initialization	"Controller initialization" Controller has not been initialized. Although the controller has been created, the rest of the initialization has not been performed (1. Initialization of controller, 2. Reset controller).
4541	17729	Address	"Axis address" Controller does not know its axis, or the axis address has not been initialized.
4542	17730	Address	"Drive address" Controller does not know its drive, or the drive address has not been initialized.
4550	17744	Monitoring	"Following error monitoring (position)" With active following error monitoring (position) a following error exceedance has occurred, whose magnitude is greater than the following error window, and whose duration is longer than the parameterized following error filter time.
4551	17745	Monitoring	"Following error monitoring (velocity)" With active following error monitoring (velocity) a velocity following error exceedance has occurred, whose magnitude is greater than the following error window, and whose duration is longer than the parameterized following error filter time.
45A0	17824	Monitoring	"CONTROLERR_RANGE_AREA_ASIDE"
45A1	17825	Monitoring	"CONTROLERR_RANGE_AREA_BSIDE"
45A2	17826	Monitoring	"CONTROLERR_RANGE_QNENN"
45A3	17827	Monitoring	"CONTROLERR_RANGE_PNENN"
45A4	17828	Monitoring	"CONTROLERR_RANGE_AXISIDPRESPO"

4.7 Drive Errors

Error(hex)	Error(dec)	Error type	Description
4600	17920	Parameter	"Drive ID not allowed" The value for the drive ID is not allowed, e.g. because it has already been assigned, is less than or equal to zero, or is greater than 255. Value range: [1 ... 255] Unit: 1
4601	17921	Parameter	'Drive type impermissible' The value for the drive type is impermissible, since it is not defined. Value range: [1, 20] Unit: 1

Error(hex)	Error(dec)	Error type	Description
4602	17922	Parameter	<p>'Drive operating mode impermissible' The value for the drive operating mode is impermissible (mode 1: standard).</p> <p>Value range: [1] Unit: 1</p>
4603	17923	Parameter	<p>"Motor polarity inverted?" The flag for the motor polarity is not allowed. Flag 0: Positive motor polarity flag 1: Negative motor polarity</p> <p>Value range: [0, 1] Unit: 1</p>
4604	17924	Parameter	<p>'Drift compensation/speed offset (DAC offset)' The value for the drift compensation (DAC offset) is impermissible.</p> <p>Value range: [-100.0, 100.0] Unit: e.g. m/min</p>
4605	17925	Parameter	<p>'Reference speed (velocity pre-control)' The value for the reference speed (also called velocity pilot control) is impermissible.</p> <p>Value range: [0.0, 10000.0] Unit: e.g. m/min</p>
4606	17926	Parameter	<p>'Reference output in percent' The value for the reference output in percent is impermissible. The value 1.0 (100 %) usually corresponds to a voltage of 10.0 V.</p> <p>Value range: [0.0, 5.0] Unit: %</p>
4607	17927	Parameter	<p>'Quadrant compensation factor' The value for the quadrant compensation factor is impermissible.</p> <p>Value range: [0.0, 100.0] Unit: 1</p>
4608	17928	Parameter	<p>'Velocity reference point' The value for the velocity reference point in percent is impermissible. The value 1.0 corresponds to 100 percent.</p> <p>Value range: [0.01, 1.0] Unit: %</p>
4609	17929	Parameter	<p>'Output reference point' The value for the output reference point in percent is impermissible. The value 1.0 corresponds to 100 percent.</p> <p>Value range: [0.01, 1.0] Unit: %</p>
460A	17930	Parameter	<p>'Minimum or maximum output limits (output limitation)' The value for the minimum and/or maximum output limit is impermissible. This will happen if the range of values is exceeded, the maximum limit is smaller than the minimum limit, or the distance between the minimum and maximum limits is zero. The minimum limit is initially set to -1.0 (-100 percent) and the maximum limit to 1.0 (100 percent).</p> <p>Value range: [-1.0, 1.0] Unit: %</p>
460B	17931	Parameter	"DRIVEERR_RANGE_MAXINCREMENT"
460C	17932	Parameter	"DRIVEERR_RANGE_DRIVECONTROLWORD"
460D	17933	Parameter	"DRIVEERR_RANGE_RESETCYCLECOUNTER"
460F	17935	Parameter	<p>'Drive torque output scaling impermissible' The value is impermissible as drive torque output scaling (rotary motor) or as force output scaling (linear motor).</p> <p>Value range: [0, 1000000] Unit: 1</p>
4610	17936	Parameter	<p>„Drive velocity output scaling is not allowed“ The value for the drive velocity output scaling is not allowed.</p> <p>Value range: [0, 1000000] Unit: 1</p>
4611	17937	Parameter	<p>'Profi Drive DSC proportional gain Kpc (controller) impermissible' <i>Positions</i> The value for the Profi Drive DSC position control gain (Kpc factor) is impermissible.</p> <p>Value range: [0, 0xFFFFFFFF] Unit: 0.001 * 1/s</p>
4612	17938	Parameter	<p>'Table ID is impermissible' The value for the table ID is impermissible.</p> <p>Value range: [0, 255] Unit: 1</p>

Error(hex)	Error(dec)	Error type	Description
4613	17939	Parameter	'Table interpolation type is impermissible' The value is impermissible as the table interpolation type. Value range: 0 (LINEAR), 2 (SPLINE) Unit: 1
4614	17940	Parameter	'Output offset in percent is impermissible' The value is impermissible as an output offset in percent (+/- 1.0). Value range: [-1.0, 1.0] Unit: %
4615	17941	Parameter	'Profi Drive DSC scaling for calculation of "Xerr" (controller) impermissible' <i>Positions:</i> the value is impermissible as Profi Drive DSC scaling for the calculation of 'Xerr'. Value range: [0, 1000000] Unit: 1
4616	17942	Parameter	'Drive acceleration output scaling impermissible' The value is impermissible as drive acceleration/deceleration output scaling. Value range: [0, 1000000] Unit: 1
4617	17943	Parameter	'Drive position output scaling impermissible' The value is impermissible as drive position output scaling. Value range: [0, 1000000] Unit: 1
461C	17948	Parameter	'Drive filter type impermissible for command variable filter for the output position' The value is impermissible as a drive filter type for the smoothing of the output position (command variable filter for the setpoint position). Value range: [0, 2] Unit: 1
461D	17949	Parameter	'Drive filter time impermissible for command variable filter for the output position' The value is impermissible as a drive filter time for the smoothing of the output position (command variable filter for the setpoint position). Value range: [0.0, 1.0] Unit: s
461E	17950	Parameter	'Drive filter order impermissible for command variable filter for the output position' The value is impermissible as a drive filter order (P-Tn) for the smoothing of the output position (command variable filter for the setpoint position). Value range: [0, 10] Unit: 1
4620	17952	Parameter	'Bit mask for stepper motor cycle impermissible' A value of the different stepper motor masks is impermissible for the respective cycle. Value range: [0, 255] Unit: 1
4621	17953	Parameter	'Bit mask for stepper motor holding current impermissible' The value for the stepper motor holding mask is impermissible. Value range: [0, 255] Unit: 1
4622	17954	Parameter	'Scaling factor for actual torque (actual current) impermissible' The value is impermissible as a scaling factor for the actual torque (or actual current). Value range: [0, 1E+30] Unit:
4623	17955	Parameter	'Filter time for actual torque is impermissible' The value is impermissible as a filter time for the actual torque (or the actual current) (P-T1 filter). Value range: [0.0, 60.0] Unit: s
4624	17956	Parameter	'Filter time for the temporal derivation of the actual torque is impermissible' The value is impermissible as a filter time for the temporal derivation of the actual torque (or actual current) (P-T1 filter). Value range: [0.0, 60.0] Unit: s

Error(hex)	Error(dec)	Error type	Description
4627	17959	Function	DRIVEOPERATIONMODEBUSY. The activation of the drive operation mode failed, because another object with OID ... is already using this interface.
0x4630 ... 0x463F: Error codes are reserved for external drive errors (e.g. stepper motor terminal or 'MC_PowerStepper' function block)			
4630	17968	Monitoring	'Overtemperature' Overtemperature was detected or reported in the drive or terminal.
4631	17969	Monitoring	'Undervoltage' Undervoltage was detected or reported in the drive or terminal.
4632	17970	Monitoring	'Wire break in phase A' A wire break in phase A was detected or reported in the drive or terminal.
4633	17971	Monitoring	'Wire break in phase B' A wire break in phase B was detected or reported in the drive or terminal.
4634	17972	Monitoring	'Overcurrent in phase A' Overcurrent was detected or reported in phase A in the drive or terminal.
4635	17973	Monitoring	'Overcurrent in phase B' Overcurrent was detected or reported in phase B in the drive or terminal.
4636	17974	Monitoring	'Torque overload (stall)' A torque overload (stall) was detected or reported in the drive or terminal.
4640	17984	Initialization	'Drive initialization' Drive has not been initialized. Although the drive has been created, the rest of the initialization has not been performed (1. Initialization of drive I/O, 2. Initialization of drive, 3. Reset drive).
4641	17985	Address	'Axis address' Drive does not know its axis, or the axis address has not been initialized.
4642	17986	Address	'Address IO input structure' Drive has no valid IO input address in the process image.
4643	17987	Address	'Address IO output structure' Drive has no valid IO output address in the process image.
4650	18000	Monitoring	'Drive hardware not ready to operate' The drive hardware is not ready for operation. The following are possible causes: - the drive is in the error state (hardware error) - the drive is in the start-up phase (e.g. after an axis reset that was preceded by a hardware error) - the drive is missing the controller enable (ENABLE) Note: The time required for "booting" a drive after a hardware fault can amount to several seconds.
4651	18001	Monitoring	Error in the cyclic communication of the drive (Life Counter). Reasons for this could be an interrupted fieldbus or a drive that is in the error state.
4652	18002	Monitoring	'Changing the table ID when active controller enable is impermissible' . Changing (deselecting, selecting) the characteristic curve table ID is not permissible when the controller enable for the axis is active.
4655	18005	Monitoring	'Invalid IO data for more than 'n' continuous NC cycles' The axis (encoder or drive) has detected invalid IO data (e.g. n=3) for more than 'n' continuous NC cycles (NC SAF task). EtherCAT fieldbus: 'working counter error ('WCState')' As a result it is possible that the encoder referencing flag will be reset to FALSE (i.e. the encoder is given the status 'unreferenced'). Lightbus fieldbus: 'CDL state error ('CdIState')' As a result it is possible that the encoder calibration flag will set to FALSE (that means uncalibrated).

4.8 Table Errors

Error(Hex)	Error(Dec)	Error Type	Description
4A00	18944	Parameter	"Table ID not allowed" The value for the table ID is not allowed, e.g. because it has already been assigned, is less than or equal to zero, or is greater than 255.
			Value range: [1 ... 255] Unit: 1
4A01	18945	Parameter	"Table type not allowed" The value for the table type is unacceptable because it is not defined.
			Value range: [1] Unit: 1
4A02	18946	Parameter	"Number of lines in the table not allowed" The value of the number of lines in the table is not allowed, because, for example, it is smaller than two at linear interpolation and smaller than four at spline interpolation.
			Value range: [2, 0xFFFF] Unit: 1
4A03	18947	Parameter	"Number of columns in the table is not allowed" The value of the number of columns in the table is not allowed, because, for example, it is less than or equal to zero (depends upon the type of table or slave).
			Value range: [1, 0xFFFF] Unit: 1
4A04	18948	Parameter	"Step size (position delta) not allowed" The value for the step size between two lines (position delta) is not allowed, because, for example, it is less than or equal to zero.
			Value range: [0.001, 1.0E+6] Unit: e.g. mm
4A05	18949	Parameter	"Period not allowed" The value for the period is not allowed, because, for example, it is less than or equal to zero.
			Value range: [0.001, 1.0E+9] Unit: e.g. mm
4A06	18950	Parameter	"Table is not monotonic" The value for the step size is not allowed, because, for example, it is less than or equal to zero.
4A07	18951	Initialization	„Table sub type is not allowed“ The value for the table sub type is not allowed or otherwise the table class (slave type) do not match up to the table main type. Table sub type: (1) equidistant linear position table, (2) equidistant cyclic position table, (3) none equidistant linear position table, (4) none equidistant cyclic position table
			Value range: [1, 4] Unit: 1
4A08	18952	Initialization	„Table interpolation type is not allowed“ The value for the table interpolation type is allowed. Table interpolation type: (0) linear-interpolation, (1) 4-point-interpolation, (2) spline-interpolation
			Value range: [0, 2] Unit: 1

Error(Hex)	Error(Dec)	Error Type	Description
4A09	18953	Initialization	"Incorrect table main type" The table main type is unknown or otherwise the table class (slave type) do not match up to the table main type. Table main type: (1) camming table, (2) characteristic table, (3) 'motion function' table (MF)
4A10	18960	Initialization	"Table initialization" Table has not been initialized. Although the table has been created, the rest of the initialization has not been performed. For instance, the number of lines or columns may be less than or equal to zero.

Error(Hex)	Error(Dec)	Error Type	Description
4A11	18961	Initialization	"Not enough memory" Table could not be created, since there is not enough memory.
4A12	18962	Function	"Function not executed, function not available" The function has not been implemented, or cannot be executed, for the present type of table.
4A13	18963	Function	"Line index not allowed" The start line index or the stop line index to be used for read or write access to the table is not allowed. For instance, the line index may be greater than the total number of lines in the table.
4A14	18964	Function	"Column index not allowed" The start column index or the stop column index to be used for read or write access to the table is not allowed. For instance, the column index may be greater than the total number of columns in the table.
4A15	18965	Function	"Number of lines not allowed" The number of lines to be read from or written to the table is not allowed. The number of lines must be an integer multiple of the number of elements in a line (n * number of columns).
4A16	18966	Function	"Number of columns not allowed" The number of columns to be read from or written to the table is not allowed. The number of columns must be an integer multiple of the number of elements in a column (n * number of lines).
4A17	18967	Function	"Error in scaling or in range entry" The entries in the table header are inconsistent, e.g. the validity range is empty. If the error is generated during the run time it is a run time error and stops the master/slave group.
4A18	18968	Function	"Multi table slave out of range" The slave master position is outside the table values for the master. The error is a run-time error, and stops the master/slave group.
4A19	18969	Function	"Solo table underflow" The slave master position is outside the table values for the master. The master value of the equidistant table, to be processed linearly, lies under the first table value. The error is a run-time error, and stops the master/slave group.
4A1A	18970	Function	"Solo table overflow" The slave master position is outside the table values for the master. The master value of the equidistant table, to be processed linearly, lies above the first table value. The error is a run-time error, and stops the master/slave group.
4A1B	18971	Parameter	"Incorrect execution mode" The cyclic execution mode can only be "true" or "false".
4A1C	18972	Parameter	"Impermissible parameter" The Fifo parameter is not allowed.
4A1D	18973	Parameter	"Fifo is empty" The Fifo of the external generator is empty. This can signify end of track or a run time error.
4A1E	18974	Parameter	"Fifo is full" The Fifo of the external generator is full. It is the user's task to continue to attempt to fill the Fifo with the rejected values.
4A1F	18975	Parameter	„Point-Index of Motion Function invalid“ The point index of a Motion Function Point of a Function Table is invalid. First the point index has to be larger than zero and second it has to be numerical continuously for one column in the Motion Function Table (e.g. 1,2,3,... or 10,11,12,...). Remark: The point index is not online-changeable but must be constant.
4A20	18976	Initialization	„No diagonalization of matrix“ The spline can not be calculated. The master positions are not correct.

Error(Hex)	Error(Dec)	Error Type	Description
4A21	18977	Initialization	„ Number of spline points to less “ The number of points of a cubic spline has to be greater than two.
4A22	18978	Initialization	„ Fifo must not be overwritten “ Fifo must not be overwritten since then the active line would be overwritten. It is the task of the user to secure that the active line is not modified.
4A23	18979	Function	„ Insufficient number of Motion Function points “ The number of valid Motion Function points is less than two. Either the entire number of points is too low or the point type of many points is set to <i>Ignore Point</i> .
4A25	18981	Initialization	“ Table master start position is not allowed ” A periodic position table must start with a master position zero. A Motion Function (MF) table can start at a position greater than zero but less than the cam period.

4.9 NC-PLC Errors

Error(Hex)	Error(dec)	Error type	Description
4B00	19200	Parameter	"Axis was stopped" The axis was stopped during travel to the target position. The axis may have been stopped with a PLC command via ADS, a call via AXFNC, or by the System Manager.
4B01	19201	Parameter	"Axis cannot be started" The axis cannot be started because: <ul style="list-style-type: none"> • the axis is in error status, • the axis is executing another command, • the axis is in protected mode, • the axis is not ready for operation.
4B02	19202	Parameter	"Control mode not permitted" No target position control, and no position range control.
4B03	19203	Parameter	"Axis is not moving" The position and velocity can only be restarted while the axis is physically in motion.
4B04	19204	Parameter	"Invalid mode" Examples: Invalid <i>Direction</i> with <i>MC_MoveModulo</i> . Inactive axis parameter <i>Position correction</i> with <i>MC_BacklashCompensation</i> .
4B05	19205	Parameter	"Command not permitted" <ul style="list-style-type: none"> • Continuous motion in an unspecified direction • Read/Write parameters: type mismatch
4B06	19206	Parameter	"Parameter incorrect" <ul style="list-style-type: none"> • Incorrect override: > 100% or < 0% • Incorrect gear ratio: RatioDenominator = 0
4B07	19207	Parameter	"Timeout axis function block" After positioning, all "MC_Move..." blocks check whether positioning was completed successfully. In the simplest case, the "AxisHasJob" flag of the NC axis is checked, which initially signifies that positioning was logically completed. Depending on the parameterization of the NC axis, further checks (quality criteria) are used: <ul style="list-style-type: none"> • "Position range monitoring" If position range monitoring is active, the system waits for feedback from the NC. After positioning, the axis must be within the specified positioning range window.

Error(Hex)	Error(dec)	Error type	Description
			<p>If necessary, the position controller ensures that the axis is moved to the target position. If the position controller is switched off (Kv=0) or weak, the target may not be reached.</p> <ul style="list-style-type: none"> "Target position monitoring" If target position monitoring is active, the system waits for feedback from the NC. After positioning, the axis must be within the specified target position window for at least the specified time. If necessary, the position controller ensures that the axis is moved to the target position. If the position controller is switched off (Kv=0) or weak, the target may not be reached. Floating position control may lead to the axis oscillating around the window but not remaining inside the window. <p>If the axis is logically at the target position (logical standstill) but the parameterized position window has not been reached, monitoring of the above-mentioned NC feedback is aborted with error 19207 (0x4B07) after a constant timeout of 6 seconds.</p>
4B08	19208	Parameter	"Axis is in protected mode" The axis is in protected mode (e.g., coupled) and cannot be moved.
4B09	19209	Parameter	"Axis is not ready" The axis is not ready and cannot be moved.
4B0A	19210	Parameter	"Error during referencing" Referencing (homing) of the axis could not be started or was not successful.
4B0B	19211	Parameter	"Incorrect definition of the trigger input" The definition of the trigger signal for function block MC_TouchProbe is incorrect. The defined encoder-ID, the trigger signal or the trigger edge are invalid.
4B0C	19212	Function	"Position latch was disabled" The function block MC_TouchProbe has detected that a measuring probe cycle it had started was disabled. The reason may be an axis reset, for example.
4B0D	19213	Function	"NC status feedback timeout" A function was successfully sent from the PLC to the NC. An expected feedback in the axis status word has not arrived.
4B0E	19214	Function	"Additional product not installed" The function is available as an additional product but is not installed on the system.
4B0F	19215	Function	"No NC Cycle Counter Update" – The NcToPlc Interface or the NC Cycle Counter in the NcToPlc Interface was not updated.
Error numbers 0x4B10 .. 0x4B2F are used in the <i>TwinCAT NCI</i> context:			
4B10	19216	Function	"M-function query missing" This error occurs if the M-function was confirmed, but the request bit was not set.
4B11	19217	Parameter	"Zero shift index is outside the range" The index of the zero shift is invalid.
4B12	19218	Parameter	"R-parameter index or size is invalid" This error occurs if the R-parameters are written or read but the index or size are outside the range.
4B13	19219	Parameter	"Index for tool description is invalid"
4B14	19220	Function	"Version of the cyclic channel interface does not match the requested function or the function block" This error occurs if an older TwinCAT version is used to call new functions of a later TcNci.lib version.

Error(Hex)	Error(dec)	Error type	Description
4B15	19221	Function	"Channel is not ready for the requested function" The requested function cannot be executed, because the channel is in the wrong state. This error occurs during reverse travel, for example, if the axis was not stopped with ItpEStop first.
4B16	19222	Function	"Requested function is not activated" The requested function requires explicit activation.
4B17	19223	Function	"Axis is already in another group" The axis has already been added to another group.
4B18	19224	Function	"Block search could not be executed successfully" The block search has failed. Possible causes: <ul style="list-style-type: none"> Invalid block number
4B19	19225	Parameter	"Invalid block search parameter" This error occurs if the FB ItpBlocksearch is called with invalid parameters (e.g., E_ItpDryRunMode, E_ItpBlockSearchMode)
4B20	19232	Function	"Cannot add all axes" This error occurs if an auxiliary axis is to be added to an interpolation group, but the function fails. It is likely that a preceding instruction of an auxiliary axis was skipped.
Error numbers 0x4B30 .. 0x4B3F are used in the TcMcCam library (MC_NC_TableErrorCodes):			
4B30	19248	Parameter	"Pointer is invalid" A pointer to a data structure is invalid, e.g., Null <ul style="list-style-type: none"> Data structure MC_CAM_REF was not initialized
4B31	19249	Parameter	"Memory size invalid" The specification of the memory size (SIZE) for a data structure is invalid. <ul style="list-style-type: none"> The value of the size parameter is 0 or less than the size of one element of the addressed data structure. The value of the size parameter is less than the requested amount of data. The value of the size parameter does not match other parameters as number of points, number of rows or number of columns.
4B32	19250	Parameter	"Cam table ID is invalid" The ID of a cam table is not between 1 and 255.
4B33	19251	Parameter	"Point ID is invalid" The ID of a point (sampling point) of a motion function is less than 1.
4B34	19252	Parameter	"Number of points is invalid" The number of points (sampling points) of a cam plate to be read or written is less than 1.
4B35	19253	Parameter	"MC table type is invalid" The type of a cam plate does not match the definition <i>MC_TableType</i> .
4B36	19254	Parameter	"Number of rows invalid" The number of rows (sampling points) of a cam table is less than 1.
4B37	19255	Parameter	"Number of columns invalid" The number of columns of a cam table is invalid. <ul style="list-style-type: none"> The number of columns of a motion function is not equal 1 The number of columns of a standard cam table is not equal 2 The number of columns does not match another parameter (ValueSelectMask)
4B38	19256	Parameter	"Step size invalid" . The increment for the interpolation is invalid, e.g., less than or equal to zero.

Error(Hex)	Error(dec)	Error type	Description
Error numbers 0x4B0F, 0x4B40 .. 0x4B4F are used in several libraries (TcNc-Lib / Tc2_MC2_XFC-Lib):			
4B40	19264	Monitoring	"Terminal type not supported" The terminal used is not supported by this function block.
4B41	19265	Monitoring	"Register read/write error" This error implies a validity error.
4B42	19266	Monitoring	"Axis is enabled" The axis is enabled but should not be enabled for this process.
4B43	19267	Parameter	"Incorrect size of the compensation table" The specified table size (in bytes) does not match the actual size
4B44	19268	Parameter	The minimum/maximum position in the compensation table does not match the position in the table description (ST_CompensationDesc)
4B45	19269	Parameter	"Not implemented" The requested function is not implemented in this combination
4B46	19270	Parameter	"Window not in the specified modulo range" The parameterized min or max position is not in the specified modulo range
4B47	19271	Monitoring	"Buffer overflow" The number of events has led to an overflow of the buffer and not all events could be acquired.
Error numbers 0x4B50 .. 0x4B5F are used in the TcRemoteSyn-Lib:			
Error numbers 0x4B60 .. 0x4B6F are used in the TcMc2-Lib in the buffered commands context:			
4B60	19296	Monitoring	"Motion command did not become active" A motion command has been started and has been buffered and confirmed by the NC. Nevertheless, the motion command did not become active (possibly due to a terminating condition or an internal NC error).
4B61	19297	Monitoring	"Motion command could not be monitored by the PLC" A motion command has been started and has been buffered and confirmed by the NC. The PLC has not been able to monitor the execution of this command and the execution status is unclear since the NC is already executing a more recent command. The execution state is unclear. This error may come up with very short buffered motion commands which are executed during one PLC cycle.
4B62	19298	Monitoring	"Buffered command was terminated with an error" A buffered command was terminated with an error. The error number is not available, because a new command is already being executed.
4B63	19299	Monitoring	"Buffered command was completed without feedback" A buffered command was completed but there was no feedback to indicate success or failure.
4B64	19300	Monitoring	" 'BufferMode' is not supported by the command" The 'BufferMode' is not supported by this command.
4B65	19301	Monitoring	"Command number is zero" The command number for queued commands managed by the system unexpectedly has the value 0.
4B66	19302	Monitoring	"Function block was not called cyclically" The function block was not called cyclically. The command execution could not be monitored by the PLC, because the NC was already executing a subsequent command. The execution state is unclear.
Error numbers 0x4B70 .. 0x4B8F are used in the TcPlcInterpolation-Lib:			

Error(Hex)	Error(dec)	Error type	Description
4B71	19313	Parameter	"Invalid NCI entry type". The FB FB_NciFeedTablePreparation was called with an unknown nEntryType.
4B72	19314	Function	"NCI feed table full" The table is full, and the entry is therefore not accepted. Remedy: Transfer the context of the table with FB_NciFeedTable to the NC kernel. If bFeedingDone = TRUE, the table can be reset in FB_NciFeedTablePreparation with bResetTable and then filled with new entries.
4B73	19315	Function	internal error
4B74	19316	Parameter	"ST_NciTangentialFollowingDesc: Tangential axis is not an auxiliary axis" In the entry for the tangential following, a tangential axis was named that is not an auxiliary axis.
4B75	19317	Parameter	ST_NciTangentialFollowingDesc: nPathAxis1 or nPathAxis2 is not a path axis. It is therefore not possible to determine the plane.
4B76	19318	Parameter	ST_NciTangentialFollowingDesc: nPathAxis1 and nPathAxis2 are the same. It is therefore not possible to determine the plane.
4B77	19319	Parameter	ST_NciGeoCirclePlane: Circle incorrectly parameterized
4B78	19320	Function	Internal error during calculation of tangential following
4B79	19321	Monitoring	Tangential following: Monitoring of the deviation angle was activated during activation of tangential following (E_TfErrorOnCritical1), and an excessively large deviation angle was detected in the current segment.
4B7A	19322	Function	not implemented
4B7B	19323	Parameter	Tangential following: the radius of the current arc is too small
4B7C	19324	Parameter	FB_NciFeedTablePreparation: pEntry is NULL
4B7D	19325	Parameter	FB_NciFeedTablePreparation: the specified nEntryType does not match the structure type
4B7E	19326	Parameter	ST_NciMFuncFast and ST_NciMFuncHsk: the requested M-function is not between 0 and 159
4B7F	19327	Parameter	ST_NciDynOvr: the requested value for the dynamic override is not between 0.01 and 1
4B80	19328	Parameter	ST_NciVertexSmoothing: invalid parameter. This error is generated if a negative smoothing radius or an unknown smoothing type is encountered.
4B81	19329	Parameter	FB_NciFeedTablePreparation: The requested velocity is not in the valid range
4B82	19330	Parameter	ST_Nci*: invalid parameter
Error numbers 0x4B90 .. 0x4B9F are used in the Tc3_MC2_AdvancedHoming-Lib(PLCopen Part 5: Homing Procedures):			
4B90	19344	Parameter	Determined drive type is not supported
4B91	19345	Parameter	Direction is impermissible
4B92	19346		SwitchMode is impermissible
4B93	19347		Mode for the parameter handling is impermissible
4B94	19348		Parameterization of the torque limits is inconsistent
4B95	19349		Parameterization of the position lag limit is impermissible (<=0).
4B96	19350		Parameterization of the distance limit is impermissible (<0)

Error(Hex)	Error(dec)	Error type	Description
4B97	19351		An attempt was made to back up parameters again, although they have already been backed up.
4B98	19352		An attempt was made to restore parameters, although none have been backed up.
4B9F	19359		The abortion of a homing has failed.
Error numbers 0x4BA0 .. 0x4BAF are used in the <i>TcNcKinematicTransformation-Lib</i>:			
4BA0	19360	Function	KinGroup error: the kinematic group is in an error state. This error may occur if the kinematic group is in an error state or an unexpected state when it is called (e.g., simultaneous call via several FB instances).
4BA1	19361	Function	KinGroup timeout: timeout during call of a kinematic block
Error numbers 0x4BB0 .. 0x4BBF are used in the <i>Tc2_MC2_Drive-Lib</i>:			
4BB0	19376	Function	The current axis position or the axis position resulting from the new position offset exceeds the valid range of values.
4BB1	19377	Function	The new position offset exceeds the valid range of values [AX5000: 2 ³¹].
4BB2	19378	Function	The current axis position or the axis position resulting from the new position offset falls below the valid range of values.
4BB3	19379	Function	The new position offset falls below the valid range of values [AX5000: -2 ³¹].
4BB4	19380	Function	The activated feedback and/or storage location (AX5000: P-0-0275) differ from the parameterization on the function block.
4BB5	19381	Function	Reinitialization of the actual NC position has failed, e.g., reference system = "ABSOLUTE (with single overflow)" & software end position monitoring is disabled.
4BB6	19382	Function	The command to set or delete a position offset was rejected without feedback data, e.g., if the drive controller's firmware does not support the corresponding command.
4BB7	19383	Function	The command to set or delete a position offset was rejected with feedback data. The information in the feedback data may contain further information about the cause. e.g., if the drive controller's firmware does not support the corresponding command.
4BB8	19384	Function	A firmware version >= 19 is required for the servo terminal.
4BB9	19385	Function	The modulo settings on the drive controller and NC are different.
Error numbers 0x4BC0 .. 0x4BCF are used in the <i>Tc3_DriveMotionControl-Lib</i>:			
4BC2	19394		The new position offset exceeds the valid value range.
4BC3	19395		I/O data are invalid or the terminal is in an error state.

4.10 Kinematic Transformation

Error(Hex)	Error(Dec)	Error Type	Description
4C00	19456		Transformation failed.
4C01	19457		Ambiguous answer. The answer of the transformation is not explicit.

Error(Hex)	Error(Dec)	Error Type	Description
4C02	19458		Invalid axis position: The transformation can not be calculated with the current position data. Possible causes: <ul style="list-style-type: none"> The position is outside the working area of the kinematics
4C03	19459	Configuration	Invalid dimension: The dimension of the parameterized input parameter does not match the dimension expected by the kinematic object. Possible causes: <ul style="list-style-type: none"> Too many position values are supplied for this configuration. Check the number of parameterized axes.
4C04	19460		NCERR_KINTRAFO_REGISTRATION
4C05	19461	Internal	Newton iteration failed: The Newton iteration does not converge.
4C06	19462	Internal	Jacobi matrix cannot be inverted
4C07	19463	Configuration	Invalid cascade: This kinematic configuration is not permitted.
4C08	19464	Programming	Singularity: The machine configuration results in singular axis velocities.
4C0B	19467	Internal	No metainfo: Metainfo pointer is null.
4C13	19475	Internal	NCERR_RBTFRAME_INVALIDWCSTOMCS The employed <code>WcsToMcs</code> component leads to positions that the selected kinematics cannot adopt to. Tailoring the <code>WcsToMcs</code> parameters is required.
4C20	19488	Internal	Transformation failed: Call of extended kinematic model failed.
4C30	19504	Programming	Invalid input frame: Programmed Cartesian position cannot be reached in the ACS configuration.
4C50	19536	Internal	Invalid Offset: Access violation within the observer detected.

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