OPC Common Questions

COM/DCOM Error Codes

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Introduction

There are many thousands of COM/DCOM error codes. Because OPC is based on the COM/DCOM framework many of the errors you may encounter via OPC may **actually** be COM/DCOM errors.

This document outlines just a few of the most common error codes, by translating them into a description and providing very basic information on resolving them.

COM/DCOM Error Code Descriptions

Hex Code	Description	Resolution
0x80010108	The object invoked has disconnected from its clients.	Re-initialize your OPC Server Connection.
0x80040004	There is no connection for this connection ID	
0x80040005	Need to run the object to perform this operation	
0x80040007	Uninitialized object	
0x80040154	Class not registered	The OPC Server, or a component needed to make the OPC connection is not registered with Windows. This may mean that you simply need to register a DLL or OCX file.
0x80040155	Interface not registered	The OPC Server does not support the interface that you are trying to connect to. Examples may include Item Browsing, Asynchronous I/O or OPC DA v2.x or 3.x interfaces etc.
0x800401f3	Invalid class string	The GUID/CLSID of the specified OPC Server is not valid.
0x80040200	• Unable to impersonate DCOM Client • Unknown OLE status code	DCOM security problem, typically on the Client side. This error typically occurs when trying to specify a callback address for Asynchronous I/O.
0x80040202	Cannot Connect	Error typically occurs when a call is made to Advise on the connection point. This often means that **OPCPROXY.DLL** is not the same version on your different computers.
0x80070002	The system cannot find the file specified.	Re-install your software.
0x80070005	Access is denied.	You need to configure your DCOM Security settings. See our DCOM Tutorial: http://www.softwaretoolbox.com/dcom

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Hex Code	Description	Resolution
0x80070057	The parameter is incorrect.	The OPC Server has rejected your request, indicating that the parameter(s) you specified are not valid for the type of request being made. You will need more details on the actual OPC calls being made between the Client and Server.
0x8007041d	The service did not respond to the start or control request in a timely fashion.	Specific to Windows Services. The service did not start within the allowed time-frame. This indicates an initialization problem with the Windows service.
0x800705b4	This operation returned because the timeout period expired.	This is a timeout. You may need to increase your timeout settings.
0x800706ea	A floating-point underflow occurred at the RPC server.	
0x80070725	Incompatible version of the RPC stub.	
0x80080005	Server execution failed	There is a problem with the OPC Server preventing it from being started by Windows. This may be the result of file-permissions, DCOM Security permissions, or a lack of resources.
0x80004002	No such interface supported	The OPC Server does not support the interface that you are trying to connect to. Examples may include Item Browsing, Asynchronous I/O or OPC DA v2.x or 3.x interfaces etc.
0x80004005	Unspecified error	The most common message seen, that yields the least information. In these cases you often need to check the event-logs at your OPC Server for more information.
0x8000401a	The server process could not be started because the configured identity is incorrect. Check the username and password.	DCOM Configuration permissions. Modify the identity that the application should run under, perhaps specify a named account or choose "Interactive User".
0x800706ba	The RPC server is unavailable.	The OPC Server could not be contacted. This is usually the result of a firewall blocking the application.

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Hex Code	Description	Resolution
0xc0040001		
0xc0040004		
0xc0040005		
0xc0040006		
0xc0040007		
0xc0040009		
0xc004000a		
0xc004000b		
0xc004000c		
0xc004000d		
0xc004000e		
0xc004000f		