

RE: dcom permissions and vista?

Source: <http://www.tech-archive.net/Archive/VC/microsoft.public.vc.atl/2007-04/msg00039.html>

- *From:* changliw@xxxxxxxxxxxxxxxxxxxxxx (Charles Wang[MSFT])
 - *Date:* Fri, 06 Apr 2007 08:27:57 GMT
-

Hi,

I understand that you encountered the DCOM local activation permission issue on Vista; however your application worked fine on Windows XP. If I have misunderstood, please let me know.

I would like to know if you run `dcomcnfg.exe` to explicitly to configure the user BLAH with Local Activation and Local Launch permissions.

Windows Vista indeed do some changes in handling DCOM and you may need to program to implement the permission. I recommend that you refer to the section "COM Permissions and Mandatory Access Labels" of this article: The COM Elevation Moniker
<http://msdn2.microsoft.com/en-us/library/ms679687.aspx>

For your convenience, I extract it here:

=====

Windows Vista introduces the notion of Mandatory Access Labels in security descriptors. The label dictates whether clients can get execute access to a COM object. The label is specified in the system access control list (SACL) portion of the security descriptor. In Windows Vista, COM supports the `SYSTEM_MANDATORY_LABEL_NO_EXECUTE_UP` label. SACLs in the COM permissions are ignored on operating systems prior to Windows Vista.

In Windows Vista, `dcomcnfg.exe` does not support changing the integrity level (IL) in COM permissions. It must be set programmatically.

The following code example shows how to create a COM security descriptor with a label that allows launch/activation requests from all LOW IL clients. Note that the labels are valid for Launch/Activation and Call permissions. Thus, it is possible to write a COM server that disallows launch, activation or calls from clients with a certain IL. For more information about integrity levels, see the section "Understanding Windows Vista's Integrity Mechanism" in Understanding and Working in Protected Mode Internet Explorer.

```
BOOL GetLaunchActPermissionsWithIL (SECURITY_DESCRIPTOR **ppSD)
{
// Allow World Local Launch/Activation permissions. Label the SD for LOW IL
Execute UP
```

RE: dcom permissions and vista?

```
LPWSTR lpszSDDL = L"O:BAG:BAD:(A;;0xb;;;WD)S:(ML;;NX;;;LW)";
if (ConvertStringSecurityDescriptorToSecurityDescriptorW(lpszSDDL,
SDDL_REVISION_1, (PSECURITY_DESCRIPTOR *)&pSD, NULL))
{
*ppSD = pSD;
return TRUE;
}
}

BOOL SetLaunchActPermissions(HKEY hkey, PSECURITY_DESCRIPTOR pSD)
{

BOOL bResult = FALSE;
DWORD dwLen = GetSecurityDescriptorLength(pSD);
LONG lResult;
lResult = RegSetValueExA(hkey,
"LaunchPermission",
0,
REG_BINARY,
(BYTE*)pSD,
dwLen);
if (lResult != ERROR_SUCCESS) goto done;
bResult = TRUE;
done:
return bResult;
};
=====
```

Hope this helps. If you have any other questions or concerns, please feel free to let me know.

Best regards,
Charles Wang
Microsoft Online Community Support

=====

Get notification to my posts through email? Please refer to:
<http://msdn.microsoft.com/subscriptions/managednewsgroups/default.aspx#notifications>

If you are using Outlook Express, please make sure you clear the check box "Tools/Options/Read: Get 300 headers at a time" to see your reply promptly.

Note: The MSDN Managed Newsgroup support offering is for non-urgent issues where an initial response from the community or a Microsoft Support Engineer within 1 business day is acceptable. Please note that each follow up response may take approximately 2 business days as the support professional working with you may need further investigation to reach the most efficient resolution. The offering is not appropriate for situations that require urgent, real-time or phone-based interactions or complex project analysis and dump analysis issues. Issues of this nature are best

RE: dcom permissions and vista?

RE: dcom permissions and vista?

handled working with a dedicated Microsoft Support Engineer by contacting Microsoft Customer Support Services (CSS) at <http://msdn.microsoft.com/subscriptions/support/default.aspx>.

=====
When responding to posts, please "Reply to Group" via your newsreader so that others may learn and benefit from this issue.

=====
This posting is provided "AS IS" with no warranties, and confers no rights.
=====