

## Re: Execute Permission denied on object 'sp\_OACreate'

**Source:** <http://www.derkeiler.com/Newsgroups/microsoft.public.sqlserver.security/2005-02/0108.html>

---

**From:** Dan Guzman ([guzmanda\\_at\\_nospam-online.sbcglobal.net](mailto:guzmanda_at_nospam-online.sbcglobal.net))

**Date:** 02/12/05

Date: Fri, 11 Feb 2005 21:45:30 -0600

> I logged in as that user, tried to execute the DTS  
> via the client application and the same access denied errors as stated  
> previously.

Just to be clear, I understand this user is executing a stored procedure which then launches the DTS package using the sp\_OA\* procs? In that case, ensure your user database is owned by 'sa' (sp\_helpdb) and that the 'db chaining' option is enabled (sp\_dboption)..

> Does Sql Server Agent recognize that a user does not have SysAdmin  
> privileges and automatically invoke the proxy account to execute these  
> sp\_OAxxxx stored procedures?

Yes, when a non-sysadmin role member executes an sp\_OAxxxx proc, the proxy account is used during proc execution.

--

Hope this helps.

Dan Guzman

SQL Server MVP

"WhiskyRomeo" <[WhiskyRomeo@discussions.microsoft.com](mailto:WhiskyRomeo@discussions.microsoft.com)> wrote in message news:F00C361E-D230-4C56-9D06-83A02B8B11D4@microsoft.com...

> Dan,

>

> This did not work. I created a user called SqlAgent. I set this as the  
> proxy account to use in the Job Systems tab of SQL Server Agent  
> Properties.

> I logged in as SqlAgent was able execute the DTS via the client  
> application.

>

> Then created a user and made him a member of a group which has the  
> appropriate permission. I logged in as that user, tried to execute the  
> DTS  
> via the client application and the same access denied errors as stated  
> previously.

>

> What I am missing? What relation does this proxy account have to other  
> users? Does Sql Server Agent recognize that a user does not have SysAdmin  
> privileges and automatically invoke the proxy account to execute these  
> sp\_OAxxxx stored procedures?

microsoft.public.sqlserver.security: Re: Execute Permission denied on object 'sp\_OACreate'

```
>
> Bill
>
> "Dan Guzman" wrote:
>
>> > In my case, do I have to specify a windows account, give it a login,
>> > and
>> > give it access and permissions. If so what access and permissions.
>>
>> The account is a windows account. It will need permissions to whatever
>> your
>> DTS package requires. For example, if your package creates a file, the
>> account will need permissions to the target folder or share. Similarly,
>> if
>> the packages establishes a trusted SQL connection, the account will need
>> granted access to SQL Server and access to needed databases just like any
>> user.
>>
>> One method to test permissions is to log in to your SQL Server box using
>> the
>> proxy account and then execute the DTS package interactively.
>>
>> --
>> Hope this helps.
>>
>> Dan Guzman
>> SQL Server MVP
>>
>> "WhiskyRomeo" <WhiskyRomeo@discussions.microsoft.com> wrote in message
>> news:2BCA3B22-55DE-45A0-9586-5CCFDFBCBEA3@microsoft.com...
>> > This has been very helpful. I see via Books Online and Job System tab
>> > how
>> > you specify the proxy account; but, is this an account that has login
>> > and
>> > permissions to what?
>> >
>> > In my case, do I have to specify a windows account, give it a login,
>> > and
>> > give it access and permissions. If so what access and permissions.
>> >
>> > The Books Online does not explain.
>> > wr
>> > "Dan Guzman" wrote:
>> >
>> >> > No job is involved since the DTS package is being executed directly
>> >> > unless
>> >> > SQL Server is creating a job behind the scenes. Is that the case?
>> >>
>> >> You are correct - no job is involved. It's just that the proxy
>> >> account
>> >> for
>> >> non-sysadmin users is configured in the EM GUI under the Job System
>> >> tab.
>> >> The specified account is used as the OS security context for
>> >> non-sysadmin
>> >> users regardless of whether or not jobs are involved.
>> >>
>> >> > I am using Windows Authentication only and the SA account has no
>> >> > permissions. The idea behind that was to prevent someone trying to
>> >> > guess
>> >> > the
>> >> > SA account password and gaining access to the database.
```

microsoft.public.sqlserver.security: Re: Execute Permission denied on object 'sp\_OACreate'

```
>> >>
>> >> The SQL authentication mode doesn't matter for ownership chaining
>> >> purposes.
>> >> A login can still own databases even when it can't be used to connect
>> >> to
>> >> SQL
>> >> Server.
>> >>
>> >> --
>> >> Hope this helps.
>> >>
>> >> Dan Guzman
>> >> SQL Server MVP
>> >>
>> >> "WhiskyRomeo" <WhiskyRomeo@discussions.microsoft.com> wrote in message
>> >> news:90F41D81-9174-4AFB-8504-0464C8249AEA@microsoft.com...
>> >> > Thanks for the reply. I need to clarify . . .
>> >> >
>> >> > You wrote:
>> >> > You'll also need to specify
>> >> > the proxy account security context for non-sysadmin users from
>> >> > Enterprise
>> >> > Manager under SQL Server Agent --> Job System.
>> >> >
>> >> > No job is involved since the DTS package is being executed directly
>> >> > unless
>> >> > SQL Server is creating a job behind the scenes. Is that the case?
>> >> >
>> >> > I am using Windows Authentication only and the SA account has no
>> >> > permissions. The idea behind that was to prevent someone trying to
>> >> > guess
>> >> > the
>> >> > SA account password and gaining access to the database.
>> >> >
>> >> > Bill
>> >> >
>> >> > "Dan Guzman" wrote:
>> >> >
>> >> >> > How can get a user permissions to execute these stored procedures
>> >> >> > without
>> >> >> > assigning the dbo role. Surely I do not have to assign
>> >> >> > permissions
>> >> >> > in
>> >> >> > the
>> >> >> > master database.
>> >> >>
>> >> >> SQL Server doesn't check permissions on indirectly referenced
>> >> >> objects
>> >> >> as
>> >> >> long as the ownership chain is unbroken. For dbo-owned objects in
>> >> >> different
>> >> >> databases, the databases involved need to be owned by the same
>> >> >> user.
>> >> >> If
>> >> >> you
>> >> >> are running SQL 2000 SP3+, the databases involved also need to have
>> >> >> the
>> >> >> 'db
>> >> >> chaining' option enabled. See Cross Db Ownership Chaining
>> >> >> <adminsqli.chm:/ad_config_8d7m.htm> in the SQL Server 2000 Books
>> >> >> Online
>> >> >> for
```

microsoft.public.sqlserver.security: Re: Execute Permission denied on object 'sp\_OACreate'

```
>> >> >> more information.
>> >> >>
>> >> >> You can prevent ad-hoc execution of powerful master database procs
>> >> >> while
>> >> >> providing the needed functionality as follows. Your user database
>> >> >> needs
>> >> >> to
>> >> >> be owned by 'sa' so that the ownership chain is unbroken for the
>> >> >> dbo-owned
>> >> >> sp_OA* procs in the sa-owned master database. You'll also need to
>> >> >> specify
>> >> >> the proxy account security context for non-sysadmin users from
>> >> >> Enterprise
>> >> >> Manager under SQL Server Agent --> Job System. This account is
>> >> >> used
>> >> >> as
>> >> >> the
>> >> >> OS security context for processes invoked by non-sysadmin users and
>> >> >> should
>> >> >> have the minimum permissions needed by your application.
>> >> >>
>> >> >> It is important to note that you should enable 'db chaining' in an
>> >> >> sa-owned
>> >> >> database when only sysadmin role members have permissions to create
>> >> >> dbo-owned objects in that database. Also, ensure that parameters
>> >> >> passed
>> >> >> to
>> >> >> your proc is can't be used to inject unintended commands.
>> >> >>
>> >> >>
>> >> >> --
>> >> >> Hope this helps.
>> >> >>
>> >> >> Dan Guzman
>> >> >> SQL Server MVP
>> >> >>
>> >> >> "WhiskyRomeo" <WhiskyRomeo@discussions.microsoft.com> wrote in
>> >> >> message
>> >> >> news:0D0422D2-0350-46B7-A963-7AAE1011EC3@microsoft.com...
>> >> >> >I have a user who has execute permissions on a store procedure in
>> >> >> >a
>> >> >> >database
>> >> >> > which in turns executes 4 stored procedures in the master
>> >> >> > database.
>> >> >> > These
>> >> >> > 4
>> >> >> > stored procedures execute a DTS package.
>> >> >> >
>> >> >> > Users, when given the dbo role, have no problem. Users who only
>> >> >> > have
>> >> >> > the
>> >> >> > Public role but execute permissions on the parent stored
>> >> >> > procedure
>> >> >> > get
>> >> >> > the
>> >> >> > following error.
>> >> >> >
>> >> >> > Execute Permission denied on object 'sp_OACreate', database
>> >> >> > 'master',
>> >> >> > owner
>> >> >> > 'dbo'
>> >> >> >
```

microsoft.public.sqlserver.security: Re: Execute Permission denied on object 'sp\_OACreate'

```
>> >> >> > How can get a user permissions to execute these stored procedures
>> >> >> > without
>> >> >> > assigning the dbo role. Surely I do not have to assign
>> >> >> > permissions
>> >> >> > in
>> >> >> > the
>> >> >> > master database.
>> >> >> >
>> >> >> > Any help would be appreciated.
>> >> >> >
>> >> >> > WR
>> >> >> >
>> >> >>
>> >> >>
>> >> >>
>> >>
>> >>
>> >>
>>
>>
>>
```