

Re: How do I convert sid retrieved from the AD to SDDL string form

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Source: <http://www.derkeiler.com/Newsgroups/microsoft.public.dotnet.security/2007-01/msg00068.html>

- *From:* "Joe Kaplan" <joseph.e.kaplan@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 17 Jan 2007 21:23:46 -0600
-

LDAP doesn't support joins. You have to do this manually on the client. The OLEDB provider for LDAP supports a SQL syntax in theory, but it is very limited, as it has to be able to translate that query into an LDAP search which is just a base, scope, filter, attribute list and a collection of controls that can modify the search behavior (to do paging and such).

What you might be able to do is load the data into two datatables manually and stick them in a dataset to do the join client side. I'm not much of an ADO.NET guy, so I really don't know much how some of that stuff works, but I seem to remember hearing somewhere that you could do stuff like that. Ask an ADO.NET MVP. :)

Joe K.

--

Joe Kaplan-MS MVP Directory Services Programming
Co-author of "The .NET Developer's Guide to Directory Services Programming"
<http://www.directoryprogramming.net>

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"Pucca" <Pucca@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:C9C83041-FDFB-440B-A124-947D59DA6F25@xxxxxxxxxxxxxxxxxxxx

Hi Joe,
The reasons that I was still messing with query instead of DirectorySearcher is because I need to get result of join table with data from 2 different AD path. But, that doesn't work at all. The following is what I tried.

Now, I have to do 2 loops usins SearchResultCollection from the 1st AD path and then one by one find its matching object in the other path using sid as the key. I then combine selected attributes from the 2 path finding and create a 3rd table that I pass to Crystal Report for producing reports.

I have to do this for AD computer, user and group objects. I wonder if there is a more efficient way of doing?

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```
filter = "select contextAtt.cn as SID, contextAtt.meetingID as [Context] "  
+  
", adAtt.cn as [Computer Name], adAtt.operatingSystem as [O/S Name] ,  
adAtt.operatingSystemVersion as [O/S Version] from " +  
globalCompPath + " as contextAtt join 'LDAP://CN=Computers +  
delimitedDomain +  
" as adAtt on contextAtt.SID = adAtt.objectSid";
```

==
Thanks.

"Joe Kaplan" wrote:

It needs to be a byte[], because the data is a variable length byte
array.
AD SIDs are generally bigger than GUIDs, so that isn't a good idea. I
think
the problem from your previous code sample was that you were calling
ToString on the data.

I'm still confused why you are using OLEDB for searching AD, but whatever
works for you...

Joe K.

==
Joe Kaplan-MS MVP Directory Services Programming
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<http://www.directoryprogramming.net>

==
"Pucca" <Pucca@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:A498835F-3C6E-4569-B83E-B897B1D90025@xxxxxxxxxxxxxxxxxxxx

In the Dataset table definition, what type should I set for
storing
SID,
which is a byte[]. I tried GUID type but it doesn' like it.

==
Thanks.

"Henning Krause [MVP - Exchange]" wrote:

Hello,

if you are using .NET 2.0, you can pass the
byte[] you get from the

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objectSid property to a SecurityIdentifier class.

Otherwise, you have at least these options:

1) (easy one) Call the Win32 function ConvertSidToStringSid.

2) (more difficult, but more flexibility) Call the Win32 DsCrackNames function

Best regards,
Henning Krause

"Pucca"

<Pucca@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

news:0972CEEE-1D2D-4605-8C4B-3B4995A2195D@xxxxxxxxxxxxxxxxxxxx

I retrieve sid from AD into a dataset table. How can I convert this to SDDL format string? My code below is not working.

```
ReportPreview repPreview  
= new ReportPreview();  
string AdSelect = "select  
objectSid, cn,  
operatingSystem,  
operatingSystemVersion  
from  
'LDAP://CN=Computers, +  
delimitedDomain + ''";  
string padSelect = "Select  
cn, meetingName from " +  
globalCompPath;  
string temp;  
int rs, num;  
OleDbConnection adCon =  
new  
OleDbConnection("Provider=ADsDSOObject");  
OleDbDataAdapter  
qryAdapter = new  
OleDbDataAdapter(AdSelect,  
adCon);  
try  
{  
DataRow newRow =  
dsReport.Tables["Computers"].NewRow();
```

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```
qryAdapter.Fill(dsReport,  
"AdComputers");  
num =  
dsReport.Tables["AdComputers"].Rows.Count;  
for (int y = 0; y <  
dsReport.Tables["AdComputers"].Rows.Count;  
y++)  
{  
SecurityIdentifier si = new  
SecurityIdentifier(dsReport.Tables["AdComputers"].Rows[y][0].ToString());  
dsReport.Tables["AdComputers"].Rows[y][0]  
=  
si.Value;  
}  
==  
Thanks.
```