

## **DSA-S Overview**

The SQL Data Staging Area (DSA-S) provides each college with access to their college data that is stored in the SQL databases hosted at the State Data Center by the State Board for Community and Technical Colleges. Data may be extracted from the DSA-S to the college campuses using a SQL Server Linked Server. The DSA-S has been developed to become your data source to populate your locally hosted data staging area.

### **Document Purpose**

This document will illustrate how to create a Linked Server within SQL Server using the Microsoft OLE DB Provider for SQL Server. The steps will work for either SQL 2005 or SQL 2008.

### **Prerequisites**

Please see the **Prerequisites** section in the **DSAs Overview** documentation for what will need to be in place and acquired in order to proceed with creating your SQL Server Linked Server.

# **Creating the SQL Server Linked Server**

- Within SQL Server Management Studio (SSMS), expand the Server object and then expand the Server Objects object
- 🗉 🚞 Databases
- 💿 🚞 Security
- 🖃 🚞 Server Objects
  - 🕞 🚞 Backup Devices
  - 🕢 📄 Endpoints
  - 🗉 🚞 Linked Servers
  - 🗉 🚞 Triggers
- 🕢 🚞 Replication
- 🗉 🚞 Management
- 🗉 🛞 SQL Server Agent
- Right click the Linked Servers object and select New Linked Server...





😤 New Linked Server				
Select a page	🖾 Script 👻 🌇 Help			
Security	Li <u>n</u> ked server:	[		
	Server type:			
	SQL Server			
	Other data source			
	<u>P</u> rovider:	Microsoft OLE DB Provider for SQL Server		
	Prod <u>u</u> ct name:			
	Data source:			
	Provider string:			
	Location			
	<u>L</u> atalog			
Connection				
Server: CULLD\CULLD2005				
Connection: SBCTC2\dcull				
View connection properties				
Progress	Linked Server: This is the name	the linked server will be referenced by.		
C Ready				
		OK Cancel		

- Fill in the Linked Server fields as follows:
  - Name the Linked Server according to your naming standards
  - o In the **Provider** dropdown menu, leave the default
  - In the **Product name**: field, type Microsoft
  - In the **Data source:** field, type the **IP** of the **DSAs SQL Server**



Provide A Server		
Select a page	🔄 Script 🔻 🛐 Help	
Security		
Server Options	Li <u>n</u> ked server:	LS_TEST
	Server type:	
	SQL Server	
	Other data source	
	Provider:	Microsoft OLE DB Provider for SQL Server
	Prod <u>u</u> ct name:	Microsoft
	<u>D</u> ata source:	172.000.000
	Pro <u>v</u> ider string:	
	Location	
	<u>C</u> atalog	
Connection		
Server: CULLD\CULLD2005		
Connection: SBCTC2\dcull		
View connection properties		
Progress	Network name of SQL Server.	
Ready		
		OK Cancel

• In the left pane, click the **Security** page



😤 New Linked Server					
Select a page	🛒 Script 👻 🎼 He	elp			
General Security Server Options	Local server login to remote server login mappings:				
	Local Login	Impersonate	Remote User	Remote Password	
				<u>A</u> dd Remo <u>v</u> e	
Connection	For a login not defi	ned in the list shove, connec	tions will:		
Server: CULLD\CULLD2005 Connection: SBCTC2\dcull	<ul> <li>For a login not defined in the list above, connections will:</li> <li>Not be made</li> <li>Be made without using a security context</li> </ul>				
View connection properties	Be made using the login's current security context				
	💿 Be <u>m</u> ade usin	g this security context:			
Progress	Permete login				
C) Ready	With passwor	d:			
			C	OK Cancel	

• Select the **Be made using this security context:** radio button and enter the credentials supplied by the SBCTC as part of the **Prerequisites** found in the **DSAs Overview** documentation



😤 New Linked Server			- • •		
Select a page	🔄 Script 👻 📭 Help				
Security	Local server login to remote server login mappings:				
	Local Login Impersonate	Remote User	Remote Password		
			dd Remo <u>v</u> e		
Connection	For a login not defined in the list above, conne	ctions will:			
Server: CULLD\CULLD2005 Connection: SBCTC2\dcull	<ul> <li>Not be made</li> <li>Be made without using a security context</li> </ul>				
View connection properties	Be made using the login's current security	Be made using the login's current security context			
	Be made using this security context:				
Progress	Bemote login:	BnnnDSAUser			
Ready	With password:	***********			
			OK Cancel		

• Click the **OK** button to save the **Linked Server**. The connection is automatically tested as part of the save process.

### **Testing the Linked Server**

There are two ways to test the **Linked Server** after the initial creation, as follows:

```
    T-SQL syntax.
    EXEC sp_testlinkedserver <Linked Server Name> -- minus <>
```

Or

• Using SSMS, navigate to Server Objects – Linked Servers. Right click the Linked Server object name and click Test Connection

# **Support**

Direct issues regarding the DSA-S to the SBCTC-ITD Service Desk:

- *Email:* SBCTC-ITD Service Desk (support@sbctc.edu)
- *Phone:* 425-803-9721