



## PROJECTIONS SUITE

*Database Setup Utility (and Prerequisites)*

Installation and General Instructions



# Introduction

These are the instructions for installing, updating, and using the Projections Suite (PS) Database Setup Utility (a.k.a. DB tool, etc.). They are fairly technical in nature and written with advanced users and IT personnel in mind. (Instructions for installing the Projections Suite software are separate.) The DBtool makes it possible to setup and manage the PS System database and test data. This documentation also includes known issues and workarounds (troubleshooting) when installation problems may be encountered.

All previous versions of the new Projection Suite **test** application and DBtool should be uninstalled prior to installing PS 2.0. **(DO NOT uninstall the FoxPro version!)**

**IMPORTANT: The installation steps must be completed by a user with administrative rights who is logged into the target computer.**

## 1: First Time Installation Overview

The Database Setup Utility must be installed prior to the PS System. The installation program for the utility will check to see if your system has the required supporting application prerequisites installed. If not, then it will install those as needed.

You may (but it is not required) use the Windows control panel and list of installed programs to determine if the prerequisites are already installed or not. The prerequisites (url's to the applications in Section 5) consist of the following:

- Windows Installer 4.5
- Microsoft .Net Framework 4
- SQL Server 2008 Express (or Enterprise) Note that Express version "R2" (and with tools) is also acceptable.) See section below for more detailed information.
- Windows PowerShell (optional for XP users not included in DBtool install)
- FoxPro Microsoft OLEDB driver (optional for OP users, not installed automatically)

(Links to the prerequisites above are found on the last page of this document.) If none (or some) of the prerequisites are installed, you may either install them separately first or run the DSU installation and let it install the Windows Installer and .Net framework. SQL Server 2008 Express is an automatic install option depending which install link you choose. If you let the DSU install the prerequisites, should any of them fail (see Troubleshooting section 7), you will need to complete the prerequisites installation separately.

The installation is designed to install on a local standalone computer. If you use a shared network SQL server, a DBA with sysadmin access rights can administrate the database(s) using this tool from a local machine.

**NOTE: See installation guidance section below for more information about which version of SQL Express to install and why.**

### Local machine SQL Server 2008 Express Configuration and Installation Guidance:

The local machine configuration and whether or not the local end user has administrative rights on the machine will vary from State to State. This information is intended to guide you in the right direction for the type of configuration and rights issues which may be encountered.

- 1) Local user has administrative rights and will install SQL Server Express under own ID:
  - Install either SQL Express and/or R2. If none exists on the machine, select the link where SQL Express is included if desired to install automatically.

- 2) Local user DOES NOT have administrative rights and an IT administrator will install SQL Server Express:
- Install SQL Express version R2. Note it is OK to still have both versions installed. However due to authentication issues which may arise, the IT administrator will need the tools associated with R2 (such as SQL Server Management Studio) installed.
  - Once R2 is installed, the IT administrator should run SQL Server Management Studio, connect to the SQL Express instance, and do the following:
    - i. Add the windows login of the local user to the Security Logins section.
    - ii. Under Server Properties, set Security Server Authentication to both SQL Server and Windows authentication mode. (This will require restart of the SQL server process which can be done from control panel or the SQL Server Configuration Manager.)

#### **Software Download Location and Installation:**

**IMPORTANT:** The following steps must be completed by a user with administrative rights who is logged into the target computer.

The IT support person (or user, IF the user has full administrative rights) should click on the link on the PS install page:

- [http://dev.projectionscentral.com/psinstall\\_public.asp](http://dev.projectionscentral.com/psinstall_public.asp)  
in order to install the Projections Suite Database Setup Utility.

If you do not have any version of SQL Server 2008 installed on your machine, click on the link labeled:

Install the Database Setup Utility WITH SQL SERVER 2008 EXPRESS

If you already have any version of SQL Server 2008 installed, click on the link labeled:

Install the Database Setup Utility (NO SQL SERVER included)

\*See SQL Server installation section below for more detailed information.

When prompted, **select Run** and follow the prompts. If you experience trouble installing, then try again using Save (and then run the setup.exe file which is downloaded).

Installation Sequence assuming no prerequisites installed. Note that this sequence and prompts may vary slightly with operating system such as Windows XP and Windows 7:

1. Prompt to install Windows Installer 4.5. On completion, you will be prompted to reboot. On completion of reboot, you will be prompted to continue the installation.
2. Prompt to install Microsoft .Net Framework 4
3. Prompt to install SQL Server 2008 Express. This can take 15 to 20 minutes (or longer) depending on the machine. (See troubleshooting section in the event of problems.)
4. Installation and startup of DSU.

After installation, when the DBtool opens, verify that the default field values are accurate. Unless changes were made during a past installation (uninstalling the DSU only removes the tool not the database), the system will read the correct values. By default the values are:

Field	Default Value	Changes
<b>Server Name</b>	MACHINENAME\SQLEXPRESS	
<b>Application Username</b>	ps_user	
<b>Application Password</b>	<a href="#">P@ssw0rd</a>	
<b>Use Windows Login</b>	Checked (Enabled)	
<b>Database Name</b>	ProjectionsSuite	
<b>Database Backup Folder</b>	(none, you can set it)	

If your system deviates from the default values, or you make an intentional change, please record the value in the Changes column.

### **SQL Server Express Installation Details**

1) SQL Server Express 2008 runs with no prompts and according to MS does not need Windows Powershell to install. The default instance is SQLEXPRESS and the default authentication mode is Windows Authentication. Without the tools installed from R2, there is no way to manually set Mixed Mode authentication.

2) SQL Server Express 2008 R2 runs with prompts and according to MS needs Windows Powershell to install. If you are an XP user, you must install Windows Powershell first before attempting to install R2.

### **Installation Sequence and options guidance for R2:**

- 1) Features to Install:  
Click Select All
- 2) Instance configuration:  
Named instance SQLEXPRESS is the default selection.  
Accept this selection.
- 3) Server Configuration SQL Server database Engine:  
Account Name - Select from dropdown: NTAUTHORITY\NETWORK SERVICE  
No PW and startup is automatic.  
Sql Server Browser startup is disabled.
- 4) Database Engine Configuration Account Provisioning tab  
Choose Mixed Mode  
Enter a Password for the SA account

Complete the installation.

## 2: QUICKSTART – Local machine Database Setup

Post installation the application will start automatically or start it from the Windows menu or desktop icon.

The majority of users will be using a database on their local machine (SQL Express). The DSU is installed with local machine settings as the default. If you are in this group, then you do not need to change any settings. (If you wish to customize your local database settings then skip the to advanced instructions section.)

To setup the database on a local machine using default settings do the following steps. Wait for each step to complete successfully before moving on to the next. Monitor the lower half of the application which gives feedback on what process/task is being started and completed in addition to the progress of a particular task.

1. Click the Connect button to connect to the local SQL server process.
2. Once connected, you must first run required steps 1 through 4 in sequence.
3. Click Step 1 – Create Database
4. Unless using the default selection of Use Windows Login - Click Step 2 Create User
5. Click Step 3 – Required Data (this may take 5-10 minutes depending on machine speed).
6. Click Step 4 – Save Configuration
7. Your database is now setup for you to begin using with the PS application.

### Setting up the Database backup/restore folder:

The Database Backup Folder and a button for Restore Database are used in conjunction with the Backup Database feature in the PS software. It is highly recommended that you specify a backup folder now. Otherwise the PS application will ask the user each time they exit to setup the backup folder.

NOTE: After you setup a backup folder, you must click Step 4 Save Configuration.

**Warning:** *The users of the PS software MUST have write permissions on the backup folder specified or there will be an error and failure when they attempt to backup!*

### Adding Demo / Training data

8. You may use the optional step “Add Demo Data” for demo and training purposes to add the imaginary state and sub-state area (Freedonia) information that can be used to test/preview system features. *This procedure could take up to 5 or 15 minutes, depending on the computer and connection speed!*  
**Note:** Demo data can only be added to a new database which has no other data! Once other data has been added via the PS Software, demo data cannot be added later.
9. Click the Disconnect button to disconnect from the local server and database. (This enables the Exit button.)

### Installation of FoxPro OLEDB Driver

10. Users of the Occupational Projections module should install the FoxPro OLEDB database driver which enables import of DBF files. (This is an optional installation for users of the OP module only and can be accomplished at any time from within the DSU.)

Installation options:

- a. Sample data files and programs do not need to be installed – leave unchecked.
- b. If more than one person will be using the PS program, select Everyone.

### Save and Exit

11. Click the Exit button to Exit the DSU. If asked “Would you like to save your changes?” answer Yes. (This writes a small text file (with a .INI extension) to Windows Desktop for all users.)
12. Note: The DSU and PS System will place a number of icons on your desktop. Do not remove them!

### 3: QUICKSTART – Network Server Database Setup

Post installation the application will start automatically or start it from the Windows menu or desktop icon.

The DSU is installed with PS application database settings defaults which can also be used on a network server. You will simply need to add network server login information so that you can login to the server and administrate the database (if you have “sysadmin” access rights). (For more detailed information on customizing your network database settings, please read the advanced instructions section.) (NOTE: if a network database is accessed among a group of people using the PS system, while the DBtool may be installed on each machine in order to install prerequisites and to setup the connection, only one person would need to be the database administrator. (If it is not possible for a Projections analyst to be the database “administrator”, then the projections group must work with the IT database administrator (DBA) to work out the process.)

To setup the database on a network server using default settings simply do the following:

1. Enter a server in the Server Name field for example: PRODSERVER1 .  
The server name can include a named instance for example PRODSERVER1\INSTANCE.

Note: If after entering a server name, the field frame is red, that means the db tool cannot find the server specified. Check the server name again.

You may also wait a few seconds for the Server name list to automatically populate with SQL servers it finds on the network. Once populated, click on the Server Name drop down list and select a server.

2. Enter a port number in the Port field if the port is a nonstandard number other than 1433.
3. Determine the method with which you have been setup to access the server with administrative rights. This could be via one of two methods:
  - a. If you were given a specific login ID and password to use on the server, enter the Username and Password in the Server Administrator section (uncheck Use Windows Login if necessary to enable the fields).
  - b. If you were given access via your Windows login, then select and check “Use Windows Login”.
  - c. **NOTE: You must not** use the PS applications user, once created, to login as the “server administrator” to manage any database functions. The PS user does not contain all the necessary permissions, and errors can occur as a result.

Also note: An IT DBA can do all the same functions as the DB tool without using this tool and may choose to do so depending on the IT policies of your group.

4. Continue using the same process described above in the Local Machine Quickstart in Section 2 starting with item 1.
5. Note that you cannot set a backup location (or use the Restore Database function) when using a network database server. You must coordinate with your network database server administrator for backup and restore of your database.
6. See section 4 below on how to setup a connection to a network server if you do not have Server Admin access.

## 4: QUICKSTART – **Network Server** Connection Setup

If you are using a database that has already been setup on a network server, you or someone who can login to your computer as an administrative user can setup the connection and save the configuration which the PS system uses. There are two methods to accomplish this.

Method 1: Copy the ProjectionSuiteSettings.ini file from the person who setup the network server onto your local machine desktop. Overwrite the existing copy if necessary.

Method 2: Run the DSU. (Do not attempt to connect to the server.) Enter the settings necessary to connect to the network server. Click the button: “4. Save Configuration”. Exit the DSU.

## 5: Automatic Software Updates

The application will notify you on startup if a new version is available. Once you update the application, you will need to run Step 3 if the button is enabled in order to update the database to the correct version and with any other required updates.

When a new version of the PS software is deployed, Step 3 will also need to be run in that case as well to update the database to the correct version.

## 6: DSU Features – Detailed Descriptions / Advanced Instructions

The features of the DBtool have been designed to be simple and easy to use while at the same time giving flexibility and additional options for those users that need it. The quick start instructions are meant to lead users through the most commonly used installation scenarios. The information here details all options which can be used for your specific environment.

### Server Name field:

Correct syntax:

Local machine: .\SQLEXPRESS or MACHINENAME\SQLEXPRESS

Network server: SERVERNAME

Network server with named instance: SERVERNAME\INSTANCE

Field is disabled when connected.

Note: If you are using an “instance” with a non-standard port number, entering just the server name and port without the instance name is valid syntax as well.

If after entering a server name, the connect button is not enabled, that means the db tool cannot find the server specified. Check the server name (and port number) again.

The server name field keeps a list of the last nine most recently used server names you have entered. Use as a drop down list to select a server.

### Port number field:

The default port for local or remote is 1433. Non-standard port numbers are generally only used for network servers.

If using a non-standard port number, you will need to check your Windows firewall to ensure the port is open. If it is not open, then you can create a rule for it.

Field is disabled when connected.

### Server Admin/PS Application Username and Password or Using Windows Login

For both of these users, you may use either SQL Server or Windows login credentials. Using the windows login integrates with active directory and is called integrated security/authentication. It allows more flexibility especially with using remote servers. Checking Use Windows Login disables the Username and Password fields. See the troubleshooting section if there are authentication problems.

### Username and Password for Server Administrator:

This login information is used only by the DSU to connect to the local or remote SQL server. It is not a saved setting in the configuration file (ProjectionSuiteSettings.ini).

When using a local SQL server connection, select “Use Windows Login” (the default setting).

When connecting to a network server, use the authentication method and/or credentials as indicated by your database server administrator. *Note that your credentials must possess sysadmin rights to use any of the functions on a network server database.*

DO NOT use the PS applications user, once created, to login as the “server administrator” to manage any database functions. The PS user does not contain all the necessary permissions, and errors can occur as a result.

### Username and Password for PS Application User:

This setting is used by the Projections Suite software to connect to the database when it is run. You may use the supplied default settings for a local or remote database. Only change it as needed based on the specific situation for your production environment. You must enter the information or select the authentication method to use before running Step 2 – Create User on a new database. Step 2 is only available when Use Windows Login is not selected.

If you select a different Username and Password, ensure you write down the information in the table in Section 1.

It is possible (but not recommended without a business case) to create and enter more than one PS application user per database.

The PS application user once created, also exists on the server. Therefore deleting a database with the user will not delete the user. What this means is that if you then create a new database and elect to use an existing user, on completion of Step 1 Create Database, Step 2 – Create User will automatically process and disable the button.

Click the Save Configuration button to save the Username and Password settings that the PS software will use.

### Database Name:

The default database name is “ProjectionsSuite”. The field remains disabled until you are connected to a server/database.

Normally one database is sufficient. However you can clear the field and enter a new database name. Clicking Step 1 Create Database will then create another database.

Once connected, if there are multiple databases, use the drop down list to select the active database.

Click the Save Configuration button to save the active database that the PS software will use.

### Database Backup Folder:

The Database Backup Folder and a button for Restore Database are used in conjunction with the Backup Database feature in the PS software. It is highly recommended that you specify a backup folder now. Otherwise the PS application will ask the user each time they exit to setup the backup folder.

Warning: The users of the PS software MUST have write permissions on the backup folder specified or there will be an error and failure when they attempt to backup!

You can use the browse button to select a directory (folder) to be used to save database backup files or enter the path manually. The backup function is performed from within the PS software. A database restore can only be performed from within the DSU as the user must be logged in as an administrator to overwrite the current database.

You cannot use this tool to restore a database backup file that was made on another computer or server. For that you must use SQL Server Management Studio the instructions for which are outside the scope of this document.

NOTE for network server users: It is not possible to backup or restore a database on a network server using these applications. Therefore the database backup folder area is disabled when the Server Name is set to a network server. You must coordinate with your network database server administrator for backup and restore of your database.

### Connect/Disconnect button:

You need to be connected to a database in order to run database specific tasks.

Disconnect when done and ready to exit the DBtool.

### Required Install Steps – Buttons 1 and 3

These steps are required to be run in sequence on first installation and will setup the database and supporting data for first time use. They must also be run anytime the database is deleted (dropped) and you want to recreate it or create a new database.

Note: Wait for each step to complete successfully before moving on to the next. If you experience problems with any step and an error occurs, click the Details link to bring up the error window. Click the Copy button to copy the error to the clipboard. Paste the error from the clipboard into an email to the Utah Development Staff for help.

Step 4 – Save Configuration must also be run on completion of Step 3.

### Step 4 - Save Configuration button:

Clicking the Save Configuration button saves the information necessary (also known as a “connection string”) for the Projections Suite software to connect to the database when it is run. These settings are saved to your local machine desktop in a file called “ProjectionSuiteSettings.ini”. (This file cannot be modified by the end user.) Unlike other buttons, this button is always enabled to allow flexibility for various connection usage scenarios (for example see section 4). A message in the process status area confirms that it is saved. Advanced users can open the file and confirm that the information is saved as expected.

The configuration only needs to be saved in one or more of the following instances:

- Initial installation (See sections 2 - 4)
- Running Steps 1 – 3
- Changing the Server Name and / or Port number
- Changing the PS Application User Name / Password
- Changing the PS Application authentication method
- Changing the database selected
- Adding or changing the database backup folder path

All other steps, for example “Add Demo Data”, do not require the configuration to be saved.

### Cancel button:

Clicking Cancel will stop and cancel a specific process when running. For example, Step 3 Add Required Data, or Add Demo Data.

If data scripts are cancelled before completion, the last script run will be remembered. The next time you click the button, the system will start with the next script to be run in sequence.

### Exit button:

Clicking Exit will close the application. This button is not enabled when connected to a server. Disconnect first and then Exit the application.

## Optional Tasks / Features

The following buttons are for use in the following situations:

1. **Add Demo Data** – this will add a complete set of Areas (Freedonia) and related data including projections for the Short Term, Long Term, and Occupational Projections applications. It is meant for training purposes, and you may remove it in the application by 1) deleting the Freedonia sub-state Areas, 2) deleting all area employment and projection data for Freedonia (at State level), and then 2) un-checking the Freedonia state in the Manage Areas screen.

**Note:** Demo data can only be added to a new database which has no other data! Once other data has been added via the PS Software, demo data cannot be added later.

2. **Restore Database** – pressing this button will restore a database which was backed-up from within the PS software using the Backup Database feature. You need to be connected to a server/database. Note that this function will only work for restoring databases on a local machine (and from the same machine). (You do not need to delete the database first in order to run Restore.)

You will be prompted to select a database file that resides in the directory set in the Database Backup Folder field. You may also navigate to another directory. The name of the database to be restored is part of the database backup file name.

As part of the restore process, you will be asked to verify the database name which will be restored.

You cannot use this tool to restore a database backup file that was created on another computer or server. For that you must use SQL Server Management Studio the instructions for which are outside the scope of this document.

NOTE for network server users: It is not possible to backup or restore a database on a network server using these applications. Therefore the database backup folder area is disabled when the Server Name is set to a network server. You must coordinate with your network database server administrator for backup and restore of your database.

3. **Delete Database** – This will delete the database and ALL data. Use with caution.

### Optional For OP – FoxPro OLEDB Driver

You may use this button to Install or Uninstall the Foxpro OLEDB driver. The text for the button will vary depending on whether or not you have already installed the driver. You may also install the driver using the website listed in Section 8. The driver may also be uninstalled from the Windows Control Panel.

### Process Status Description and Progress Bars

The lower half of the application gives feedback on what process/task is being started and completed in addition to the progress of a particular task. If an error should occur, you can click on the message to open it in a separate window. You can copy and paste the error to send in an email to your IT administrator for help, or the Utah Development Staff for review. Many error situations may be resolved by your IT administrator.

## 7: Installation Troubleshooting

Systems vary in specifications and devices, and what works on one system may not work on another. The following is a set of some issues you may run into during installation with suggested troubleshooting solutions. If problems persist or you find a solution to an issue not listed below, contact the Utah development staff.

### Errors due to insufficient privilege/rights

There are many potential causes for installation problems with ProjectionsSuite. The most likely causes have to do with the user not having sufficient privileges. For example, the Database Setup Tool must be installed and executed under credentials that have administrative privilege on the target computer. Failure to do so will result in issues such as:

- Attempting to install SQL Server without sufficient privilege will fail utterly, but without saying anything about privilege. And it will require full admin rights to uninstall successfully (which is necessary after the fail) and reinstall successfully.
- Attempting to install the Database Setup Tool will generate the message "Unable to satisfy all prerequisites for DatabaseSetupUtility. Setup cannot continue... ". The details of this message will show that the user does not have the required privileges.

### Staffing Pattern import tells you that you need to have the FoxPro driver installed.

One of the more difficult install issues to track down is when you attempt to import, for example EDS data, and the importer tells you that you "Need to install FoxPro OLE driver" even though you or your admin user already installed the driver.

The fix for this is to invoke the DB admin tool and uninstall the FoxPro driver, then reinstall it. The difference is that on the "Select Installation Folder" page of the FoxPro installer you must be sure to select the "Everyone" radio button near the bottom of the page.

### SQL Server 2008 Express Failure during installation of prerequisites

If this part of the installation fails, you can try uninstalling whatever part of SQL server was installed, reboot, and try the DSU installation again. If this fails again, uninstall SQL server and reboot. Then try installing SQL server by itself. XP users must install Windows Powershell first before attempting manual installation of SQL Server Express version R2.

Go to the web page linked in Section 8 and download Microsoft SQL Server 2008 Express. Install and on success reboot and run the DSU installation again.

### Standalone SQL Server 2008 Express or R2 Installation Failure

So far we have one example of this type of failure with "performance counter registry hive inconsistency" error (kb 300956). In this case the users "performance counter registry hive" in Windows SP2 was corrupted. Upgrading the SP3 did not correct the problem. The workaround was to install SQL server with the following parameters:

```
setup.exe /ACTION=install /SKIPRULES=PerfMonCounterNotCorruptedCheck
```

## Manual Installation Failure of Standalone/Server SQL Server 2008 Express or R2

If you experience a manual installation failure either on standalone or server installation, try installing Windows Powershell:

<http://www.microsoft.com/downloads/en/details.aspx?FamilyID=6ccb7e0d-8f1d-4b97-a397-47bcc8ba3806&amp;displaylang=en>

Then try installing SQL Server Express again.

## Unable to connect to the database

In some cases the default connection string/options noted in Section 1 & 2 were changed. If this was done accidentally, reset the options to the default and try again.

## Errors which occur in the Process Status Description history area

If you experience problems with any function and an error occurs, click the Details link to bring up the error window. Click the Copy button to copy the error to the clipboard. Paste the error from the clipboard into an email to the Utah Development Staff for help.

## **Local machine PS application user Authentication Issues Scenarios and Resolutions**

Once you have setup the configuration and saved it, the PS software will use it to login and access the database. Depending on what type of SQL Server version you have installed, and the PS app user authentication method you have chosen, a number of issues may arise.

### 1) Login fails for ps\_user

This can occur where Mixed Mode has not been set on the server and the SQL user is not accepted as a valid login.

Two resolutions:

A) Using the db tool, change authentication method for the PS app user to Windows Authentication and save to the configuration file. See caveat in section 2 below.

B) Use Management Studio to reset the server authentication method from Windows Authentication only to Mixed Mode. Select the server and right click Properties, Security. This will require restart of the SQL server process which can be done from control panel or the SQL Server Configuration Manager.

### 2) Login fails for windows authentication

This can occur on a local machine in the following scenario:

A) The local user is not admin on their machine and SQL Server Express was installed by a different IT admin user. In this scenario, the local user will not have been added as a valid user to the server user list. If only SQL Server Express was installed, there are no tools installed to manage the server, and so R2 will need to be installed so that the admin user can add additional users.

## **Diagnostics Tab**

If enabled, do not use any of the functions in this tab unless specifically instructed to do so by the Utah Development Support Staff.

## 8: Links to Prerequisite Applications

### Windows Installer 4.5:

<http://www.microsoft.com/downloads/en/details.aspx?FamilyId=5A58B56F-60B6-4412-95B9-54D056D6F9F4&displaylang=en>

### Microsoft .Net Framework 4

<http://msdn.microsoft.com/en-us/netframework/aa569263.aspx>

### Windows PowerShell

This is mostly needed for Windows XP users (more than likely not in Windows 7) who manually install SQL Server Express or R2. Install it before attempting to install SQL Server.

<http://www.microsoft.com/downloads/en/details.aspx?FamilyID=6ccb7e0d-8f1d-4b97-a397-47bcc8ba3806&displaylang=en>

### Microsoft® SQL Server® 2008 Express

<http://www.microsoft.com/downloads/en/details.aspx?FamilyID=58ce885d-508b-45c8-9fd3-118edd8e6fff>

### Microsoft SQL Server 2008 R2 RTM - Express with Management Tools

<http://www.microsoft.com/downloads/en/details.aspx?FamilyID=967225EB-207B-4950-91DF-EEB5F35A80EE&displayLang=en>

### Microsoft OLE DB Provider for Visual FoxPro 9.0

<http://www.microsoft.com/downloads/en/details.aspx?familyid=e1a87d8f-2d58-491f-a0fa-95a3289c5fd4&displaylang=en>

## 9: Feedback and Comments

If you have feedback, comments, questions on this document or the application, please contact the Utah development staff.

### **Contact the Utah development staff with any additional questions.**

Mike Sylvester (ST) - MSYLVES@utah.gov

Steve Brock (LT) - SBROCK@utah.gov

Brett Judd (OP) - BDJUDD@utah.gov

Dave Kendall – DSU developer - davidkendall@utah.gov

###