

# **Project Plan 2015-002**

## **25Live**

### **Snippet Only of 25Live Interface**

#### **Contents**

Description.....	1
(Bellevue) Universal Interface .....	2
usp_25LiveDataInFiles.sql .....	2
Web Server to host 25Live Interface .....	2
Suggestions .....	4
Suggestion 1 .....	4
Suggestion 2 .....	4
Suggestion 3 .....	4
Suggestion 5 .....	4
Suggestion 6 .....	5
Suggestion 7 .....	5
Errors .....	5
Error 1.....	5
Error 2.....	5
Error 3.....	5
Error 4.....	5
Error 5.....	6
Error 6.....	6
Definitions .....	6
Modifications.....	6

---

## **Description**

This document describes the Project Plan for 25Live, containing only the snippet for 25Live Interface.

---

## (Bellevue) Universal Interface

usp\_25LiveDataInFiles.sql

Update: newer version available, use latest with parameter logic included.

Change line:

```
ALTER PROCEDURE [dbo].[usp_25LiveDataInFile] WITH RECOMPILE  
to  
CREATE PROCEDURE [dbo].[usp_25LiveDataInFile] WITH RECOMPILE
```

### Web Server to host 25Live Interface

[installing .NET 4.5, if not already installed]

- at command prompt: `dism /online /enable-feature /all /featurename:IIS-ASPNET45`

*[Visual Studio Solution-->25Live]*

(see Error 1)

(see Error 2)

- click: [Tools](#)
- choose: [Nuget Package Manager](#)
- choose: [Package Manager Console](#)
- if you see: Some NuGet packages are missing from this solution. Click to restore from your online package sources.
  - click: [Restore](#)

*[Visual Studio Solution-->25Live]*

- edit: [Web.config](#)
- edit line: `<add key="FilePath" value="C:\dev\" />`  
Change C:\dev\ to path that will store output (file)
- edit line: `<add key="ArchivePath" value="C:\dev\Archive\" />`  
Change C:\dev\Archive\ to path that will store output archives
- edit line: `<add name="ClassDal" connectionString="Data Source='Server Name';Initial Catalog=ODS;Integrated Security=True" providerName="System.Data.SqlClient" />`  
Change 'Server' Name' to the SQL server hosting ODS. Change the 'ODS' to the name of the database for ODS.
- (optional) change the previous line to User authentication, not 'Integrated' if the App Pool isn't running with credentials to access ODS.
- compile project

*[Solution Explorer]*

- right-click: [25Live](#)
- choose: [Publish](#)

*[Publish Web-->Select or import a publish profile]*

- click: (drop down to left of Import button)
- choose: [New Profile](#)
- type: (profile name, ex: ourWebServer)

- click: [OK](#)

*[Publish method]*

- choose: [File System](#)

*[Target location]*

- type: (server path, ex: [\\ourServer\share\\$](#))

- click: [Next](#)

*[Settings]*

- click: [Next](#)

*[Preview]*

- click: [Publish](#)

*[Web Server-->IIS]*

- expand: [Sites](#)

- right-click: (Web Site, ex: Default Web Site)

- choose: [Add Application](#)

*[Add Application]*

- type: (Alias, ex: 25Live)

- choose: (Application Pool desired, recommend creating one for 25Live)

- choose: (Physical path)

- click: [OK](#)

*[Website/URL for 25Live]*

- test URL: [https://yourserver.edu/\(your path\)](#) (ex: /25Live)

- should see: Please click here to create a new Datain file

(see Error 3)

- test URL: [https://yourserver.edu/\(your path\)/Views/CreateDatain/CreateNewFile/B561](#)

*[Visual Studio-->Controllers-->CreateDataInController.cs]*

- fix line: `string exception = dict["exception"];`

- to: `string exception = dict["message"];`

*[Visual Studio-->Controllers-->CreateDataInController.cs]*

- fix line: `Console.WriteLine("Exception", ex);`

- to: `return "[getData] ERROR: [" + ex.Message + "];`

*[Visual Studio-->Models-->ctrl.cs]*

- fix line: `Console.WriteLine("Exception", ex);`

- to lines: `dict["message"] = "[createDataInFile] ERROR [" + ex.Message.ToString()+"]";`  
`dict["status"] = "failure";`

*[Website]*

- Access website.

- Click 'here' to generate Datain file.

(see Error 4)

[SQL-->ODS-->usp\_25LiveDataInFile]

- give Execute permission to the user accessing

(deprecated) [Website]

-Access website.

-Click 'here' to generate Datain file.

(see Error 5)

(deprecated) [Website]

-Access website.

-Click 'here' to generate Datain file.

(see Error 6)

[Website]

ex: <https://yoursite.edu/25Live/CreateDatain/CreateNewFile/B562>

Should receive a message like:

A new file named datainB562.dat is created at location [location].

---

## Suggestions

### Suggestion 1

[Website]

**Change:** Add 'progress' feedback so that the viewer knows it is working on the procedure 'usp\_25LiveDataInFile', our currently takes 25 seconds)

**Reason:** more user friendly.

### Suggestion 2

[Visual Studio-->25Live-->Models-->ctrl.cs--> createDataInFile]

**Change:** Move (string) line to outside of foreach loop, only initialize once at top of function 'createDataInFile'.

**Reason:** reduce memory reallocation on each loop.

### Suggestion 3

[Visual Studio-->25Live-->Models-->ctrl.cs--> createDataInFile]

**Change:** Create (StringBuilder) lccALLines to contain all lines.

**String line = new StringBuilder();**

**Reason:** reduce memory reallocation.

### Suggestion 5

[Visual Studio-->25Live-->Models-->ctrl.cs--> createDataInFile]

**Change:** Change logic to not create/append file on each line from JSON, but, write entire 'lccALLines' (StringBuilder) after loop if Length > 0.

**Reason:** single open/close for file.

### Suggestion 6

[Visual Studio-->25Live-->Models-->ctrl.cs--> createDataInFile]

**Change:** Add NewLine to 'line' at end of each record.

**Reason:** single open/close for file, instead of at each JSON record/line.

### Suggestion 7

[Visual Studio-->25Live-->Models-->ctrl.cs--> createDataInFile]

**Change:** Move 'filename' and 'path' to top of function, build value after first record

**Reason:** reduce memory reallocation

### Suggestion 8

[Visual Studio-->25Live]

**Change:** Logging module to allow both debugging for new installations, and monitoring later for performance/etc.

**Reason:** help debugging, monitoring

---

## Errors

### Error 1

**Error:** [Visual Studio-->Solution-->25Live-->Properties-->PublishProfiles] Dev.pubxml missing.

**Solution:** Build new Publish Profile, delete this one.

### Error 2

**Error:** [Visual Studio-->Solution-->25Live] Web.config missing.

**Solution:** [Visual Studio-->Solution] Right-click 25Live, choose Add-->New Item. Choose 'Web Configuration File', name 'Web.config'. Copy web.config-template contents into Web.config.

### Error 3

**Error:** [Website] Blank page received after click create datain file.

**Solution:** check SQL credentials, or add User credentials if IIS App Pool user has no right on SQL.

### Error 4

**Error:** [Website] The EXECUTE permission was denied on the object 'usp\_25LiveDataInFile', database 'ODS', schema 'dbo'.

**Solution:** [SQL-->ODS-->Stored Procedures] Give 'execute' rights to SQL Connection User for procedure 'dbo.usp\_25LiveDataInFile'.

#### Error 5

**Error:** [Website] Procedure usp\_25LiveDataInFile has no parameters and arguments were supplied..

**Solution:** [SQL-->ODS-->Stored Procedures] Replace USP 'dbo.usp\_25LiveDataInFile' with latest version.

#### Error 6

**Error:** [Website] Procedure or function 'usp\_25LiveDataInFile' expects parameter '@DataInYearQuarter', which was not supplied.

**Solution:** [Visual Studio-->25Live-->Views-->CreateDataIn-->Index.cshtml] Upgrade code to add quarter code to URL.

---

## Definitions

**25Live**- Event scheduling software

**ADFS** - Active Directory Federation Services

**DBCS** - DataBase Customer Site

**HPUX** - Hewlett Packard UniX environment

**IdP** - Identity Provider (college)

**LCC** - Lower Columbia College

**Lingua Franca** - protocol language

**SAAS** - Software As A Service

**SAML** - Security Assertion Markup Language (protocol)

**SBCTC** - State Board for Community and Technical Colleges

**SP** - Service Provider (CollegeNet, 25Live)

**SSO** - Single-Sign On

---

## Modifications

NAME	DATE	MODIFICATION
David Mielcarek	8/5/2015	Created

---

End of document