**PRS BI**

**Deployment Notes for BI UAT TM1 Integration Implementation Release on 12 May 2018**

TFS Label @ $/AnalyticsPlatform/Hector2/H2RevenueTM1/Deploy/**TM1FDM\_UATRelease1\_2.0.0**

TFS Changeset = 13129

**People Involved**

BI Team (BI)

* Release Manager: Chris Ellis ([BIReleasemgmt@prsformusic.com](mailto:BIReleasemgmt@prsformusic.com))
* Release Assistance : Tim Firmin

Project Engineering and Technology (PET)

* <TBC> (SQLSupport@prsformusic.com)

**Sub Release Numbers**

TM1FDM\_UATRelease1\_1.0.0

**Release Content**

This release implements the components related to the integration of TM1 data into the BI Finance Data Mart as well as some additional changes for Hector 2 (Pipeline Reporting):

* Azure SQL Database – FinanceStage Objects under Schemas:
  + TM1Control, TM1Staging, TM1Transform
* Azure SQL Database – FinanceDataMart Objects:
  + TM1 Fact Related and objects under [TM1reporting]
* Integration Services Catalog – Refresh Projects under
  + SSISDB Folder - FinanceDataMart
    - Project Packages:
      * ETL.FDM.GlobalProcessor
      * ETL.FDM.LandAndStage
      * ETL.FDM.MDSAndTransform
      * ETL.FDM.ExtractAndReport
* Integration Services Catalog – New Release of Projects under
  + SSISDB Folder - TM1FDM.H2PlanningTM1
    - Project Packages:
      * H2PlanningTM1.GlobalProcess.dtsx
  + Environment:
    - UAT
* SQL Server Agent Job – New Agent Job Creation
  + SSIS\_TM1FDM301\_Load
* Updated Tabular FDM Cube – Financial Analytics

**Back Out Strategy**

Ensure pre deployment backups are taken for the following:

* ADW Server: azp-ms-sql-U001.database.windows.net
  + BISystemUAT
* SSIS Server: AZI-MS-SIS-U001
* SQL Server: AZI-MS-SQL-U001
* SSISDB: AZI-MS-SIS-U001, 50501

Recover from these backups

**Release Summary**

* Pre-Release Start Datetime 03 May 2018 13:00 <TBC>
* Release Start Datetime 03 May 2018 16:00 <TBC>
* Estimated Duration 3 hours <TBC>

**Support Required**

* Normal Hours 09:00 to 17:00
* Out of Hours None

**Support Tasks**

**Project Engineering and Technology**

Release Manger UAT Access Requirements:

* ADW Server: azp-ms-sql-U002.database.windows.net
  + BISystemUAT
* Azure SQL Server: AZI-MS-SQL-U001
* Azure SSIS Server: AZI-MS-SIS-U001
* Azure Tabular Server : AZI-MS-SAS-U002:50502
* SSISConfiguration DB: AZI-MS-SIS-U001, 50501
* SSISDB: AZI-MS-SIS-U001, 50501
* UAT FileShare for TM1 @ \\ONP-MS-FSS-DV01\Data\Proj\Hector2\UAT\

**Release Dependencies**

* Note – databases used for TM1 Integration are shared with the FDM/Turquoise project – data is Finance-Planning-CODA based so this makes business sense.

**Pre-Release Actions**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Date | Time | Step | Activity | Deployment  Software | Who? | Completed |
| <TBC> | 09:00 | 1 | **Start Azure UAT Servers using Azure Portal** | Azure Portal | BI |  |
|  |  | 1.1 | Start AZP-MS-SQL-U002.database.windows.net Azure DW Server |  |  |  |
|  |  | 1.2 | Start AZI-MS-SIS-U001 Azure SSIS Server |  |  |  |
|  |  | 1.3 | Start AZI-MS-SAS-U002:50502 Tabular Server |  |  |  |
|  |  | 1.4 | **Setup Deployment Files**  **[for UAT data appears to have been already deployed]**  Deploy Code Folder :  Hector2\H2RevenueTM1\Deploy\TM1FDM\_UATRelease1\_1.0.0\ |  |  |  |
|  |  | 3 | Check Network FileShare Folders are Set-Up to receive / manage TM1Incoming Revenue and Cost Files. Check **PRS\SQLProxyBIUAT** has appropriate permissions. Ensure Users have appropriate Read/Move permissions on various folders.  UAT = \\ONP-MS-FSS-DV01\Data\Proj\Hector2\UAT\01CostDataExtract\ |  |  |  |
|  |  | 3.1 | Create Folder Structure as per  [\\ONP-MS-FSS-DV01\Data\Proj\Hector2\UAT](\\\\ONP-MS-FSS-DV01\\Data\\Proj\\Hector2\\UAT)  01CostDataExtract  02RevenueDataExtract  FilesArchive  01Cost  02Revenue  FilesFailed  01Cost  02Revenue  FilesProcessed  01Cost  02Revenue |  |  |  |
|  |  | 4 | [blank] |  |  |  |
|  |  | 5 | Ensure latest BISystem Scripts Released - ApplicationCode = 'TM1FDM' must exist in Control.Application server.  [!! Release issue – Issues with running [Control].[InsertSourceFile] BISystem Sproc !!] |  |  |  |
|  |  | 6 | Check Permissions of BI Service Account on SQL objects are installed and appropriate:   * strBISystemADOConnectionString|Data Source=AZP-MS-SQL-U001.database.windows.net;Initial Catalog=BISystemUAT; * strSSISConfigurationConnectionString|Data Source=AZI-MS-SIS-U001,50501;Initial Catalog=SSISConfiguration;Integrated Security=True; * strSSISDBConnectionString|Data Source=AZI-MS-SIS-U001,50501;Initial Catalog=SSISDB;Integrated Security=True; * strCodaDestinationADONETConnectionString|Data Source=STUPRSMSQLV03;Initial Catalog=CFNUAT;UID=SQLProxyBIUAT;Integrated Security=True; * strFinanceDataMartADONETConnectionString|Data Source=AZI-MS-sql-U001,50501;Initial Catalog=FinanceDataMart;Integrated Security=True; * strFinanceStageADONETConnectionString|Data Source=AZI-MS-sql-U001,50501;Initial Catalog=FinanceStage;Integrated Security=True; * strHectorADONETConnectionString=AZI-MS-sql-U001,50501;Initial Catalog=Hector2;Integrated Security=True; * Data Source=AZI-MS-SAS-U002:50502;Initial Catalog=FinancialAnalytics;Provider=MSOLAP.7;Integrated Security=SSPI; |  |  |  |

**Release Actions [note – some of these tasks now voided due to previous FDM releases]**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Date | Time | Step | Activity | Deployment  Software | Who? | Completed |
| <TBC> | 14:00 | 1 | **Deploy FinanceStage DB Objects**  Execute the following scripts from the Deployment folder:   * TM1H2\_FinanceStage\_SQLObjects.sql in the **SQLCMD mode**   Save the results for each script in the release folder. | SSMS | BI |  |
| <TBC> |  | 2 | **Deploy FinanceDataMart DB Objects**   * FDM\_FDM\_SQLObjects.sql in the **SQLCMD mode**   + Builds CodaWarehouse.FactTM1Planning etc. * TM1H2\_FDM\_SQLObjects.sql in the **SQLCMD mode**   Save the results for each script in the release folder. | SSMS | BI |  |
|  |  | 3 | **[blank]** |  |  |  |
|  |  | 4 | **Deploy SQL Database Permissions**   * PermissionsSetup.sql – for prs\_subscribed\_application * UserSetupUAT.sql - should already be in place | SSMS | BI |  |
|  |  | 5 | **Setup SSISDB Permissions (on AZI-MS-SIS-U001, 50501)** | SSMS | BI |  |
|  |  | 5.1 | Create the UAT SSISDB BITurquoise folder | SSMS |  |  |
|  |  | 5.2 | Grant the following Permissions on the Integration Services  [Check proxy permissions on TM1FDM folder ]  Catalogs\SSISDB\TM1FDM folder to PRS\SQLProxyBIUAT Windows User:   * Read, Execute Objects, Read Objects |  |  |  |
|  |  | 6 | **Deploy Azure SSIS Packages and Setup Environment** |  | BI |  |
|  |  | 6.1 | IS Project Deployment files must be executed on the server:  Remote Desktop to AZI-MS-SIS-U001 using Admin User | RDP Client | BI |  |
|  |  | 6.2 | Copy the FinanceDataMart\_Release1\_1.0.0\Deployment folder to C:\Releases folder on the AZI-MS-SIS-U001 server |  | BI |  |
|  |  | 6.3 | Execute the following IS Project Deployment files to deploy the SSIS Project at **FinanceDataMart** Packages to AZI-MS-SIS-U001: **SSISDB/FinanceDataMart/Projects:**   * ETL.FDM.GlobalProcess.ispac * ETL.FDM.LandAndStage.ispac * ETL.FDM.MDSAndTransform.ispac * ETL.FDM.ExtractAndReport.ispac | IS Deploy Wizard | BI |  |
|  |  | 6.4 | Execute the following IS Project Deployment files to deploy the SSIS Project Packages to AZI-MS-SIS-U001: TM1FDM/H2PlanningTM1/Projects:   * H2PlanningTM1.ispac | IS Deploy Wizard | BI |  |
|  |  | 6.5 | Execute the following script to setup the UAT Environment (including Variables and Project References):   * SSIS\UATEnvironmentSetup.sql   [!! Check Reading Destination Environment Variable @ strFPVDestinationSchemaTable[HctrStaging.BaseRevenueTM1]!!] | SSMS | BI |  |
|  |  | 6.6 | Execute the following script to get the reference id of the newly created environment in step 6.4   * \SSIS\GetEnvReferenceIdUAT.sql |  |  |  |
|  |  | 7 | **Deploy Azure Sql Server Agent Job**  Execute the following script to create the Job:  Before executing the below update the @command variable value to use the correct env reference id of the environment variable obtained in step 6.5   * SSISDB.UATSQLAgentJobSetup.sql   e.g. /ENVREFERENCE 30 | SSMS | BI |  |
|  |  | 8 | Deploy updated Financial Analaytics Cube – contains TM1 measures and some new measure for Pipeline Distribution Reporting   * \SSAS\FinancialAnalytics.xmla   Deploy to : AZI-MS-SAS-U002:50502 |  |  |  |
|  |  | 9 | Deploy Power BI Reports to TM1FDM Reporting Workspace  Dashboard – FDM Related  Published/Linked Reports  TM1 Integration Report  [assumes Gateway PRSfMPRSProductionGateway02 enabled for AZI-MS-SQL-U001] |  | BI |  |
|  |  |  |  |  |  |  |

**Post Release**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Date | Time | Step | Activity | Deployment  Software | Who? | Completed |
| <TBC> | 18:00 | 1 | **Regression Testing** |  |  |  |
|  |  | 1.1 | Warehouse – Test User Query Access  <TBC> | SSMS | BI |  |
|  |  | 1.2 | SSIS – Test Load by executing  <TBC> | SSMS | BI |  |

**Points of Interest (Specials for this Release):**

* None

**All Modules within this release contained and labelled in TFS under the Release reference.**

**Summary of UAT SSIS Environment Variables**

DECLARE @strApplicationCode SQL\_VARIANT = N'TM1FDM'

DECLARE @strBISystemADOConnectionString SQL\_VARIANT = N'Data Source=AZP-MS-SQL-U001.database.windows.net;Initial Catalog=BISystemUAT;Connect Timeout=60;ConnectRetryCount=3;ConnectRetryInterval=20;Authentication="Active Directory Integrated"';

DECLARE @strBITDataMartDBName SQL\_VARIANT = N'FinanceDataMart'

DECLARE @strBITStageDBName SQL\_VARIANT = N'FinanceStage'

DECLARE @strFinanceDataMartADONETConnectionString SQL\_VARIANT = N'Data Source=AZI-MS-SQL-U001,50501;Initial Catalog=FinanceDataMart;Integrated Security=True;'

DECLARE @strFinanceStageADONETConnectionString SQL\_VARIANT = N'Data Source=AZI-MS-SQL-U001,50501;Initial Catalog=FinanceStage;Integrated Security=True;'

DECLARE @strHectorADONETConnectionString SQL\_VARIANT = N'Data Source=AZI-MS-SQL-U001,50501;Initial Catalog=Hector2;Integrated Security=True;'

DECLARE @strMailProfileName SQL\_VARIANT = N'AZI-MS-SQL-U001 SQL Database Mail'

DECLARE @strSISDatabaseMail SQL\_VARIANT = N'AZI-MS-SIS-U001 SQL Database Mail'

DECLARE @strMailRecipientList SQL\_VARIANT = N'tim.firmin@prsformusic.com; support-bi-apps@prsformusic.com'

DECLARE @strMailRecipientListSupport SQL\_VARIANT = N'tim.firmin@prsformusic.com; support-bi-apps@prsformusic.com'

DECLARE @strMDSADOConnectionString SQL\_VARIANT = N'Data Source=AZI-MS-SQL-U001,50501;Initial Catalog=MDS;Integrated Security=True;'

DECLARE @strMDSConnectionString SQL\_VARIANT = N'Data Source=AZI-MS-SQL-U001,50501;Initial Catalog=mds;Provider=SQLOLEDB;Integrated Security=SSPI;Auto Translate=false;'

DECLARE @strMDSUserName SQL\_VARIANT = N'PRS\ServiceDevSQLU001MDS'

DECLARE @strSourceFileFolder SQL\_VARIANT = N'\\ONP-MS-FSS-DV01\Data\Proj\Hector2\UAT\'

DECLARE @strSSISConfigurationConnectionString SQL\_VARIANT = N'Data Source=AZI-MS-SIS-U001,50501;Initial Catalog=SSISConfiguration;Integrated Security=True;'

DECLARE @strSSISDBConnectionString SQL\_VARIANT = N'Data Source=AZI-MS-SIS-U001,50501;Initial Catalog=SSISDB;Integrated Security=True;'

DECLARE @strSSISDBProjectFolder SQL\_VARIANT = N'TM1FDM'

DECLARE @strSSISProjectEnvironment SQL\_VARIANT = N'UAT'