



SQL Server BI Health Dashboard

Installation Guide

Version 1.0 for SQL Server 2005

12/1/2009

Project Name: SQL Server BI Health Dashboard

Document History

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Overview

This document provides instructions on how to “install” the SQL Server BI Health Dashboard. It is a manual process at this point.

Future versions will likely have an msi or something comparable that will automate the setup process.

Assumptions

Version 1.0 of this product makes some rather significant assumptions and will only work if these assumptions are true for your BI environment.

1. ****This project currently assumes a pure Microsoft SQL Server BI implementation**
2. Your ETL solution consists of **one** SQL Server Agent job that calls SSIS packages
3. SSIS is used as the ETL solution in your BI environment
4. SSRS is used as the reporting solution in your BI environment
5. SSAS is used as the OLAP solution in your environment
6. SSIS logging is implemented via the SQL Server log provider writing to the sysdtslog90 table
7. Currently only SQL Server 2005 is supported although it can be easily modified to work with 2008
8. The reports can run under a user context that has read permissions on the following tables
 1. msdb.dbo.sysjobhistory
 2. msdb.dbo.sysjobsteps
 3. ReportServer.Catalog
 4. ReportServer.ExecutionLog
 5. *YourDB*.sysdtslog90
9. Creation of a date table name DimDate (script provided)

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Files

There are four files necessary for installing the SQL Server BI Health Dashboard. They are listed with their descriptions below.

| File | Description |
|----------------------------------------|--------------------------------------------------------------------------------------------------|
| SQL Server BI Health Dashboard.rptproj | The Visual Studio 2005 Report Server project file for the four SSRS reports. |
| BIHD1 BI Health Dashboard.rdl | The main dashboard report. |
| BIHD2 ETL Execution Failures.rdl | Report detailing ETL process execution failures. |
| BIHD3 OLAP Processing Failures.rdl | Report detailing OLAP processing failures. |
| BIHD4 Report Execution Failures.rdl | Report detailing SSRS execution failures. |
| msdb.rds | Report Server project shared data source pointing to the msdb database. |
| MyDW.rds | Report Server project shared data source pointing to the BI database that is being loaded. |
| ReportServer.rds | Report Server project shared data source pointing to the ReportServer database used by SSRS. |
| Create and Populate Date Table.sql | SQL Script used to create and populate a date table used by some of the above report's datasets. |

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Configuration

Some of the reports and their corresponding data sources must be modified before deployment. To begin configuration, open the SQL Server BI Health Dashboard.rptproj file using Visual Studio 2005 or BIDS (Business Intelligence Development Studio) 2005.

msbd.rds

Double click the *msdb.rds* file in the Shared Data Sources folder. Modify the connection string by changing `[enter name/instance of server used for SQL Agent Jobs]` to the name of the server, and if necessary instance, that the SQL Server Agent service that runs your ETL jobs lives on.

MyDW.rds

Double click the *MyDW.rds* file in the Shared Data Sources folder. Modify the connection string by changing `[enter name/instance of server used to host your data warehouse]` to the name of the server, and if necessary instance, that the data warehouse database is hosted on. Also change `[enter name of DW database]` to the name of your data warehouse.

ReportServer.rds

Double click the *ReportServer.rds* file in the Shared Data Sources folder. Modify the connection string by changing `[enter the name/instance of server used by SSRS to host the ReportServer database]` to the name of the server, and if necessary instance, that the SSRS ReportServer database is hosted on.

BIHD1 BI Health Dashboard.rdl

Double click the *BIHD1 BI Health Dashboard.rdl* file under the Reports folder in the Report Server project.

- 1) Click on the Data tab and select ETL from the Dataset drop-down. Modify the second line by replacing `'Populate DW'` with the name of the step in your SQL Server Agent job that is responsible for executing the ETL process.

*If there is more than one step responsible for the ETL this report will not be accurate. This was designed for a set of SSIS packages with a single parent package calling out to child packages. Future versions will support multiple job, multiple step ETL solutions.

- 2) Navigate to the OLAPProcessing dataset. Modify the second line by replacing `'Process Analysis Service Database'` with the name of the step in your SQL Server Agent job that is responsible for processing your Analysis Services Database.

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*If there is more than one step responsible for the ETL this report will not be accurate.

- 3) Navigate to the ETLHistory dataset. Modify the second line by replacing 'Populate DW' with the name of the step in your SQL Server Agent job that is responsible for executing the ETL process.
- 4) Navigate to the OLAPProcessingHistory dataset. Modify the second line by replacing 'Process Analysis Service Database' with the name of the step in your SQL Server Agent job that is responsible for processing your Analysis Services Database.
- 5) If you already have a table that contains a sequence of dates that cover at least the previous month and a few years into the future, navigate to the ReportsErrorCountHistory dataset and modify the line after the FROM clause to point to that table. If you do not have such a table you will create one during the deployment step and can leave this dataset as is.
- 6) Navigate to the ETLErrorCount dataset. Modify the second line by replacing 'Populate DW' with the name of the step in your SQL Server Agent job that is responsible for executing the ETL process.
- 7) Navigate to the OLAPProcessingErrorCount dataset. Modify the second line by replacing 'Process Analysis Service Database' with the name of the step in your SQL Server Agent job that is responsible for processing your Analysis Services Database.

BIHD3 BI OLAP Processing Failures.rdl

- 1) Navigate to the OLAPProcessingExceptions dataset. Modify the fourth from last line by replacing 'Process Analysis Service Database' with the name of the step in your SQL Server Agent job that is responsible for processing your Analysis Services Database.

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Deployment

There are a number of steps necessary to deploy the code base that was modified to suite your BI environment. They are listed below.

- 1) If the BI environment does not contain a table that contains a sequence of dates that cover at least the previous month and a few years into the future, execute the *Create and Populate Date Table.sql* against your data warehouse database or any other database accessible by these reports.
- 2) Deploy the project (reports and datasources) to your Report Manager instance using either BIDS or rs.exe.