**RAMS Database Deployment Guide**

**Introduction**: The purpose of this document is to provide instructions to set up RAMS database for the RAMS application. The following contents contain manual deployment instructions to create and configure RAMS database.

**Document provided**: Script in the deployment package

1. Open SSMS
2. Create RAMS database: Open and execute the script ‘RAMSdb.sql’ to create RAMS database



1. Create tables: Open and execute the script ‘RAMSTables.sql’ in a new query window



**List of Tables:**

1. dbo.Comments
2. dbo.Study\_Members
3. dbo.Questions
4. dbo.Study\_Status
5. dbo.Studies
6. dbo.Answers
7. dbo.Forms\_Questions
8. dbo.Forms
9. dbo.Response\_Formats
10. dbo.Users
11. dbo.Facilities
12. dbo.Form\_Versions
13. dbo.Contained\_Forms
14. dbo.Study\_States
15. dbo.Study\_Status\_Reviewers
16. dbo.Data\_call\_CSV
17. dbo.Data\_call\_CSV\_arch
18. dbo.Data\_call\_CSV\_err
19. dbo.Data\_call\_CSV\_processed
20. dbo.data\_call\_process\_summary
21. dbo.Data\_Load\_CITI\_Table
22. dbo.Data\_Load\_TMS\_Table
23. dbo.Form\_Comments
24. dbo.Question\_Comments
25. dbo.Questions\_Responses
26. Create Views: Open and execute RAMSViews.sql in a new query window



**List of Views:**

* 1. v\_data\_call\_csv\_nonflat
  2. V\_data\_call\_csv\_nonflat\_mapped
  3. v\_data\_load\_training\_Combined
  4. v\_form\_question
  5. v\_qlist\_datacall

1. created functions: Open and execute CreateRAMSFunctions.sql in a new query window



**List of Functions:**

1. f\_rams\_study\_get\_new\_id
2. GETSTUDYID
3. Create Stored Procedure: Open and execute CreateRAMStoredProc.sql



**List of Stored Procedures:**

* 1. usp\_check\_users\_for\_datacall
  2. usp\_insert\_datacall\_into\_rams
  3. usp\_pre\_treat\_datacall
  4. usp\_update\_pi\_for\_datacall

1. Insert data: Open and execute RAMSData.sql in a new query window



1. Create relationships: Open and execute RAMSRelationships.sql to create relationship between tables



1. Verify each objects by expanding the RAMS Database within the Object explorer
2. Create SQL Login:

***Create SQL - TomcatUser:***

* 1. In the ***Object Explorer*** Window on the left side of the Microsoft SQL Server Management Studio expand ***localhost (SQL Server...***and right click the ***Security*** folder
  2. Choose ***New > Login…***
  3. Enter a Login name and then choose ***SQL Server authentication (SQL Server authentication must be enabled prior to this step in the Database Server settings)***
  4. Enter a password (**Save the password for later use**) and then turn off ***User must change password at next login*** and click ***OK*** and you should now have a valid login which does not use “Windows authentication” and must be used for setting up the JDBC connection from the Tomcat webserver to the SQL Server in the Tomcat Webapp deployment steps.

***Configure SQL - TomcatUser:***

* 1. In the ***Object Explorer*** Window on the left side of the Microsoft SQL Server Management Studio expand ***localhost (SQL Server...)***and double click ***Security*** folder > Double Click ***Logins* >** Double click ***SQL Tomcat User set up by the DBA)***
  2. Set ***Default database*** appropriately to ***RAMS***
  3. Go to the ***User Mappings*** page and check the Map box next to the Database : ***RAMS*** and Default Schema should be entered as ***dbo***
  4. In the ***User Mappings*** page, select the ***RAMS*** cell under the column ***Database*** and make sure the bottom pane ***Database role memberships for: RAMS*** has the following selected:
     1. ***db\_datareader***
     2. ***db\_datawriter***
     3. ***Public***

Hit ***OK*** and you should now have a valid login which does not use “Windows authentication” and must be used for setting up the JDBC connection from the Tomcat webserver to the SQL Server in the Tomcat Webapp deployment steps.

***Create SSISUser:***

* 1. In the ***Object Explorer*** Window on the left side of the Microsoft SQL Server Management Studio expand ***localhost (SQL Server...***and right click the ***Security*** folder
  2. Choose ***New > Login…***
  3. Enter a Login name (**SSISUser**) and then choose ***SQL Server authentication (SQL Server authentication must be enabled prior to this step in the Database Server settings)***
  4. Enter a password (**Save the password for later use**) and then turn off ***User must change password at next login***

***Configure SSISUser***

* 1. In the ***Object Explorer*** Window on the left side of the Microsoft SQL Server Management Studio expand ***localhost (SQL Server...)***and double click ***Security*** folder > Double Click ***Logins* >** Double click ***the SSIS User set up by the DBA(SSISUser)***
  2. Set ***Default database*** appropriately to ***RAMS***
  3. Go to the ***User Mappings*** page and check the Map box next to the Database : ***RAMS*** and Default Schema should be entered as ***dbo***
  4. In the ***User Mappings*** page, select the ***RAMS*** cell under the column ***Database*** and make sure the bottom pane ***Database role memberships for: RAMS*** has the following selected:
     1. ***db\_datareader***
     2. ***db\_datawriter***
     3. ***Public***

Hit ***OK*** and you should now have a valid login which does not use “Windows authentication” and must be used for setting up the SSIS Server Process

Add the following SharePoint service account “VHAMASTER\RAMTSTSP13FARM” to SQL Server instance and grant the following server roles

1. In the ***Object Explorer*** Window on the left side of the Microsoft SQL Server Management Studio expand ***localhost (SQL Server...***and right click the ***Security*** folder
2. Choose ***New > Login…***
3. Enter a Login name (VHAMASTER\RAMTSTSP13FARM) and then hit ***Search,*** enter the login name again and hit ***Check Names*** button, this will populate the name from active directory and then hit ***OK*** button to confirm the login name.
4. Choose ***Window Authentication.***
5. Go to ***Server Roles page*** in the left side of the window and select check box next to ***DBCREATOR*** and ***SECURITYADMIN*** in addition to already selected ***PUBLIC*** role.
6. Hit ***OK*** button to confirm and complete the login creation.