



ramco



Ramco Aviation Solution

Version 5.8

Installation Manual

Application Server Side Settings

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1.0 Introduction

This installation guide provides necessary guidelines and steps that have to be followed for configuring the supporting utilities for Ramco Aviation application suite in Server machines

This comprises the following configurations:

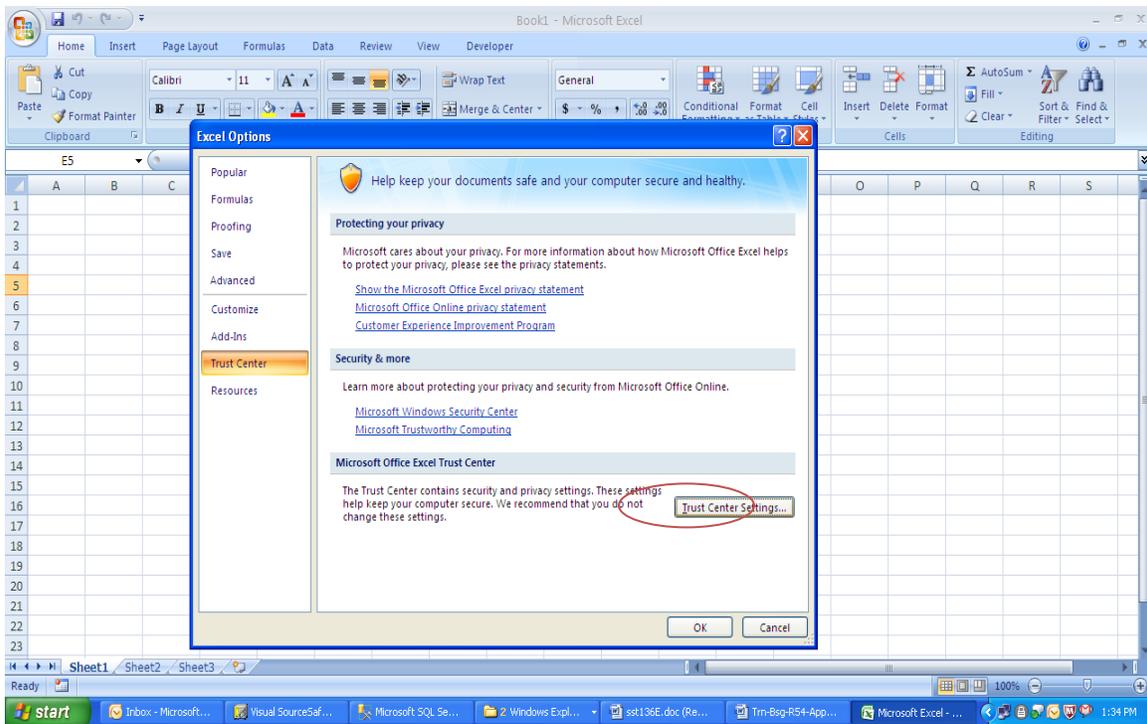
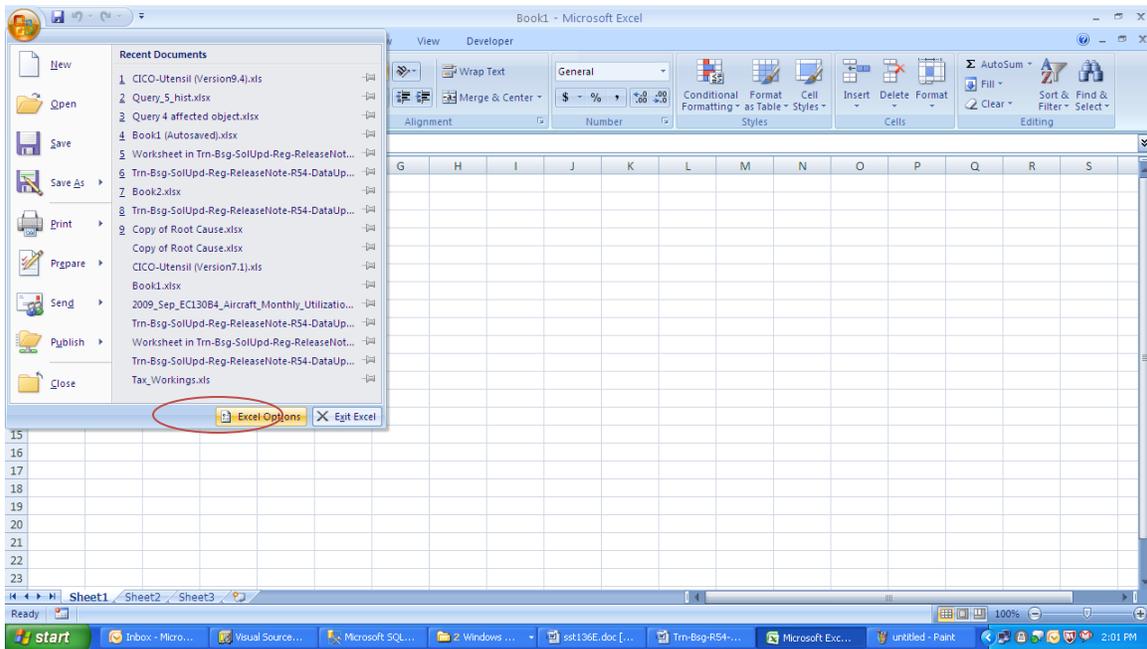
- SQL Database Mail - *Optional*
- Reliability Analysis Reporting Tool Setup- *Optional*
- Email & Fax Integration- *Optional*
- Manage Consolidated Financial Statements Package - *Optional*
- Automatic Material Movement Document (AutoMMD) Settings - *Optional*
- Bar Code Label Printing - *Optional*
- Schedulers to be configured - *Mandatory*
- Scripts to be run - *Mandatory*

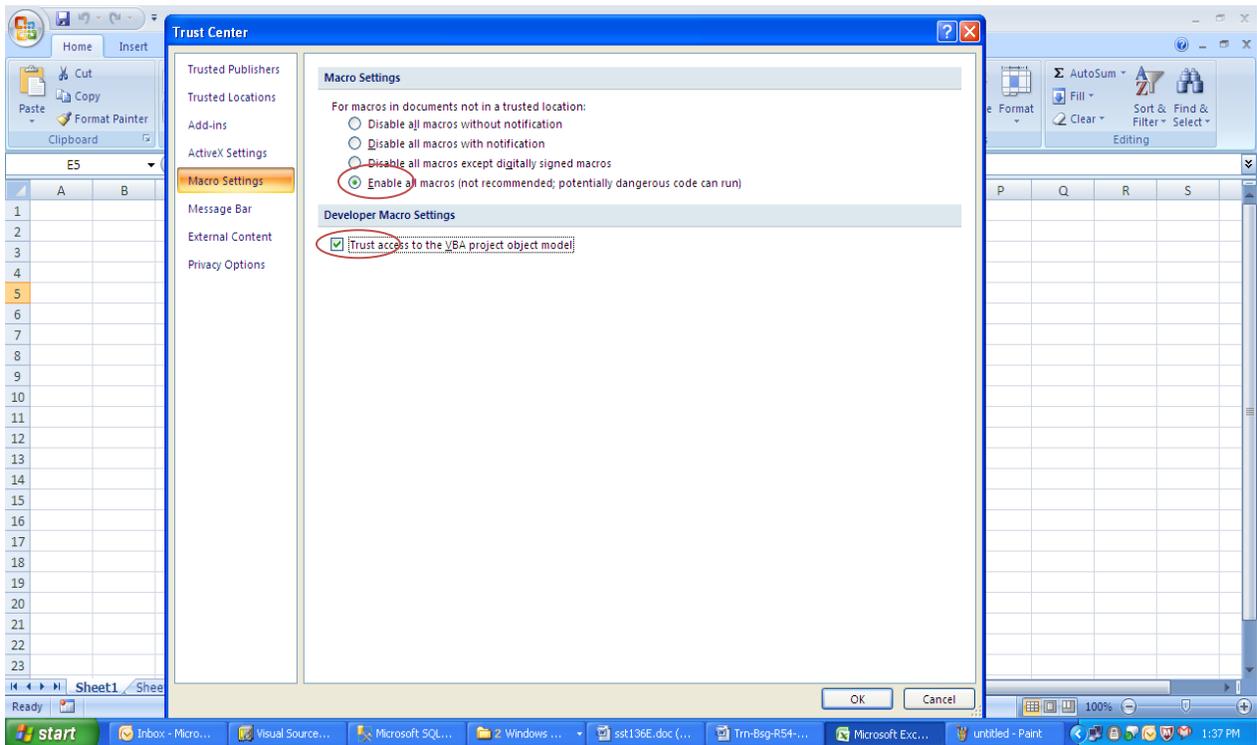
2.0 Reliability Analysis Report Settings

Microsoft Office 2007 should be available in Web Server.

Enable Excel Macro Settings and Trust access to the VBA Project object Model. If the server has multiple login users, then these excel setting are to be done for all the login users.

Step 1: In Microsoft Excel, go to Office Button --> Excel Options --> Trust Center -> Trust Center Settings.





Installing Reliability Setup

Click the ReliabilitySetup.msi file available under the folder ...\\IIS\ExtUi\BasRA in WEB Server.

Configuring Deploy.ini file

Reliability Analysis reports work based on the values provided in Deploy.ini file.

Provide following details in the deploy.ini file available in the reliability setup installed path of WEB Server.

<Servername>

<username>

<password>

AVNAPPDB

< template path > (ex.) E:\Program Files\VirtualWorks\IIS\Extui\BasRa

<Local server path >(File generated path)

<FTP Path>(Destination path given in Object Attachment --> Set Options)

<FTP User Name>

<Password>

Following changes need be done in the file ReliabilityAnalysis-2005.exe.config available in the installation path. For.Ex: ...\\Program Files (x86)\\Default Company Name\\NewReliabilitySetup

The value in the code <add key ="IsCORS" value="YES"/> in the appsettings tab should be as follows

YES : If the doc attach folder path is in cross domain
NO : If the doc attach folder path is in same server/domain

Refer the below settings under the <configuration> section.

 Below settings is the default configuration for HTTP based service call.

```
<system.serviceModel>
  <bindings>
    <basicHttpBinding>
      <binding name="Docattach_latestSrv_endpoint" closeTimeout="00:01:00"
openTimeout="00:01:00" receiveTimeout="00:10:00" sendTimeout="00:01:00"
allowCookies="false" bypassProxyOnLocal="false" hostNameComparisonMode="StrongWildcard"
maxBufferSize="65536" maxBufferPoolSize="524288" maxReceivedMessageSize="65536"
messageEncoding="Text" textEncoding="utf-8" transferMode="Buffered"
useDefaultWebProxy="true">
        <readerQuotas maxDepth="32" maxStringContentLength="8192"
maxArrayLength="16384" maxBytesPerRead="4096" maxNameTableCharCount="16384" />
        <security mode="None">
          <transport clientCredentialType="None" proxyCredentialType="None" realm="" />
          <message clientCredentialType="UserName" algorithmSuite="Default" />
        </security>
      </binding>
    </basicHttpBinding>

    <endpoint address="http://<hostname>/docattach/Docattach_latestSrv.svc"
binding="basicHttpBinding" bindingConfiguration="Docattach_latestSrv_endpoint"
contract="AvnDocAttachService.IDocattach_latestSrv" name="Docattach_latestSrv_endpoint"/>
```

 Below settings is the default configuration for HTTPS based service call.

```
<wsHttpBinding>
  <binding name="WSHttpBinding_IDocattach_latestSrv" closeTimeout="00:01:00"
openTimeout="00:01:00" receiveTimeout="00:10:00" sendTimeout="00:01:00"
bypassProxyOnLocal="false" transactionFlow="false"
hostNameComparisonMode="StrongWildcard"
maxBufferPoolSize="65536" maxReceivedMessageSize="5242880"
messageEncoding="Text" textEncoding="utf-8" useDefaultWebProxy="true"
allowCookies="false">
    <readerQuotas maxDepth="32" maxStringContentLength="8192"
maxArrayLength="65536"
maxBytesPerRead="4096" maxNameTableCharCount="16384" />
    <reliableSession ordered="true" inactivityTimeout="00:10:00"
enabled="false" />
    <security mode="Transport">
      <transport clientCredentialType="None" proxyCredentialType="None"
realm="" />
    </security>
  </binding>
```

```

        <message clientCredentialType="Windows" negotiateServiceCredential="true" />
    </security>
</binding>
</wsHttpBinding>

<endpoint address="http://<Hostname>/docattach/Docattach_latestSrv.svc"
binding="wsHttpBinding" bindingConfiguration="WSHttpBinding_IDocattach_latestSrv"
contract="AvnDocAttachService.IDocattach_latestSrv"
name="WSHttpBinding_IDocattach_latestSrv">
    <identity>
        <dns value="&#xD;&#xA;          " />
    </identity>
</endpoint>

```

 Please configure hostname properly in the endpoint address field.

Configuring Reliability Analysis Scheduler

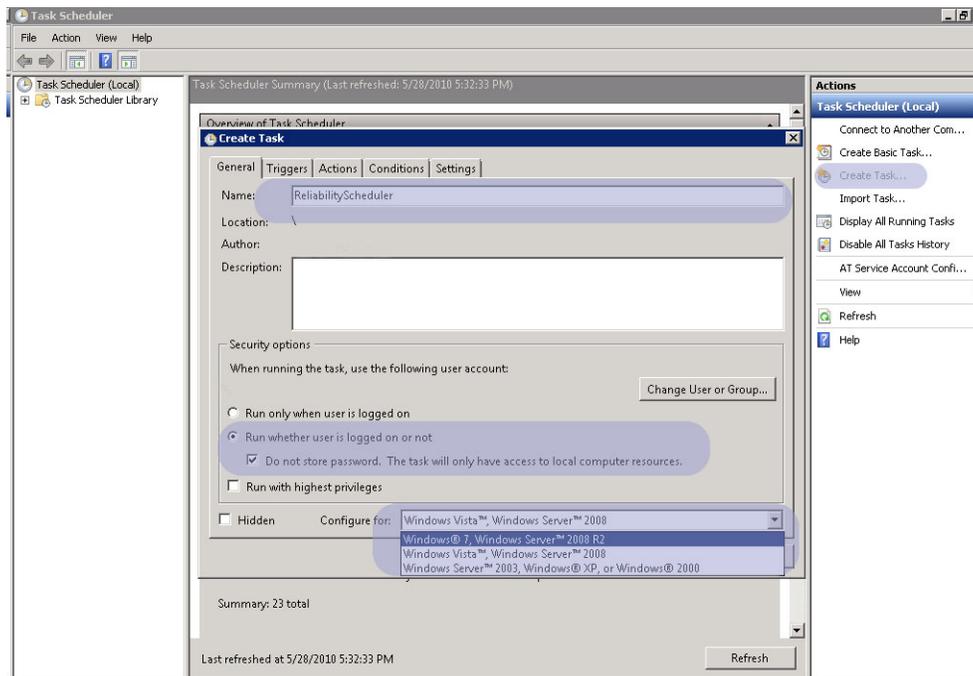
ReliabilityAnalysis.exe is the tool that needs to be configured in Windows Scheduler to run on a daily basis for every 1 hour (Configuration steps given below). The Tool obtains server details and template path information from the Deploy.ini file.

ReliabilityAnalysis.exe will be available under ..\VirtualWorks\IIS\Extui\BASRA.

Steps to Configure ReliabilityAnalysis.exe file in Windows Scheduler: -

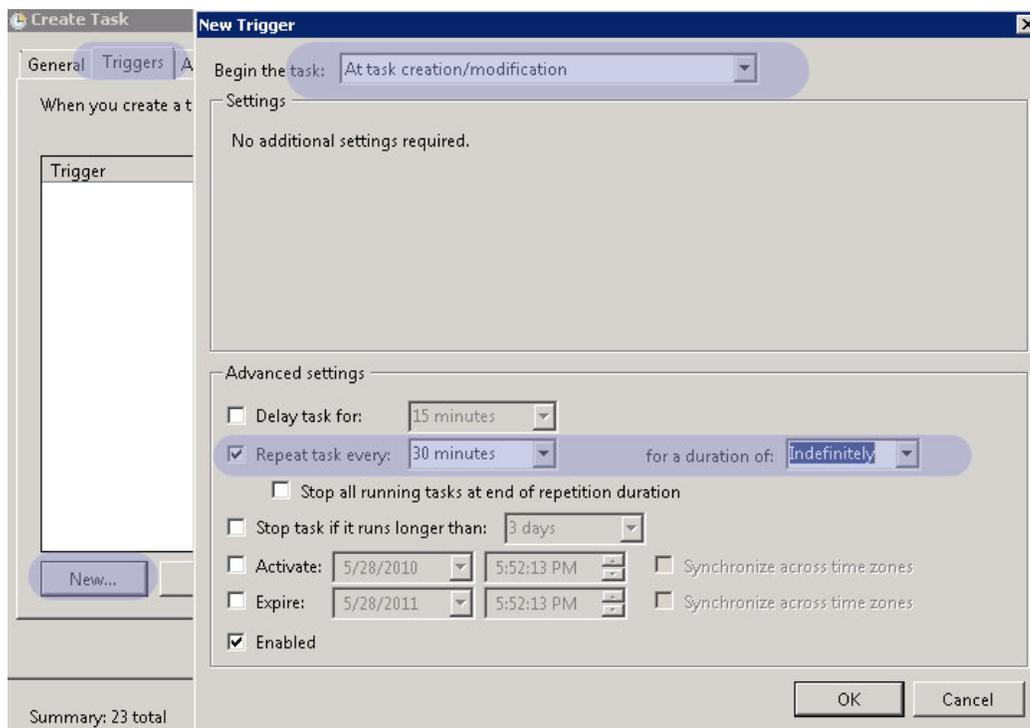
Step 1:- To start Windows Scheduler Task, Start → Run → Type "control schedtasks" → Click Ok

In the Task Scheduler, click the Actions "Create Task" given on the right pane. A new window will open as shown in the below screenshot:



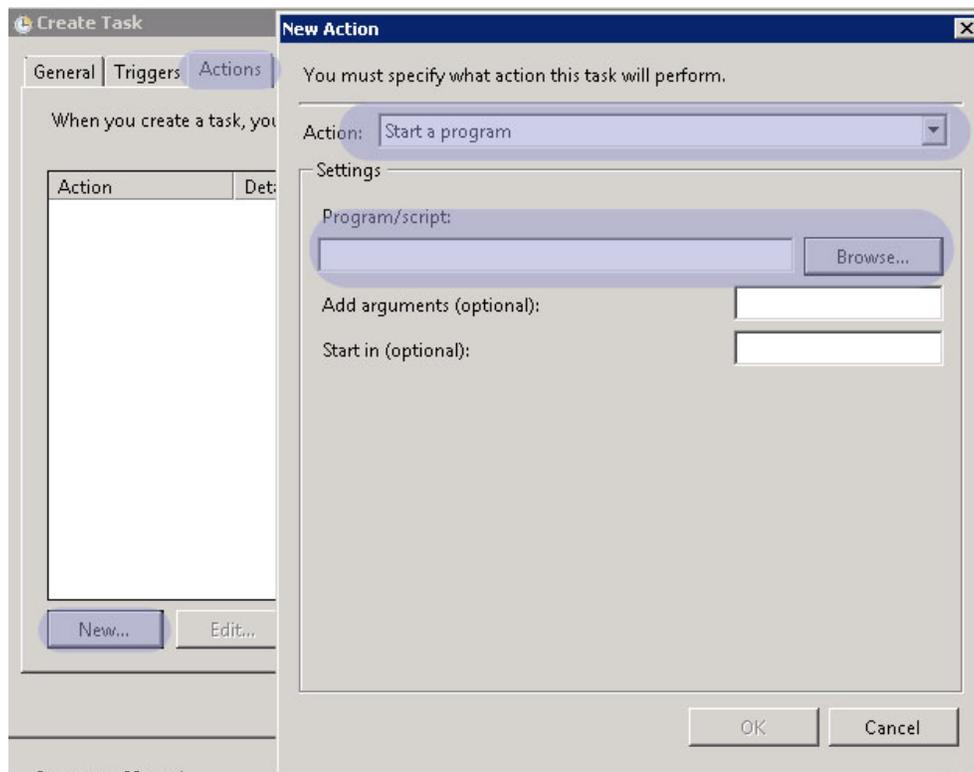
As highlighted in the "General" Tab,

- i. Provide "Name"
- ii. Select the option "Run whether user is logged on or not"
- iii. Check the option "Do not store password. The Task will only have access to local computer resources"
- iv. Select the dropdown "Configure for" to Windows 7, Windows Server 2008 R2 or Windows Vista, Windows Server 2008 based on the operating system it is getting installed.



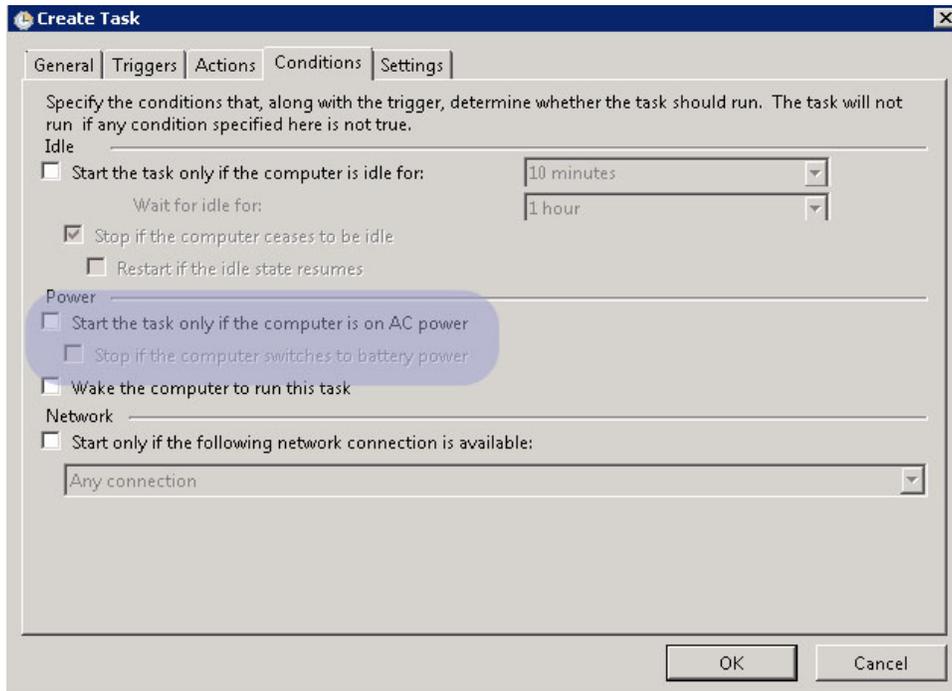
As highlighted in the "Trigger" tab,

- i. Set the drop down "Begin the Task" as "At task creation/modification"
- ii. In the Advanced settings check the "Repeat task every", select 30 minutes and "for a duration of" as "Indefinitely"

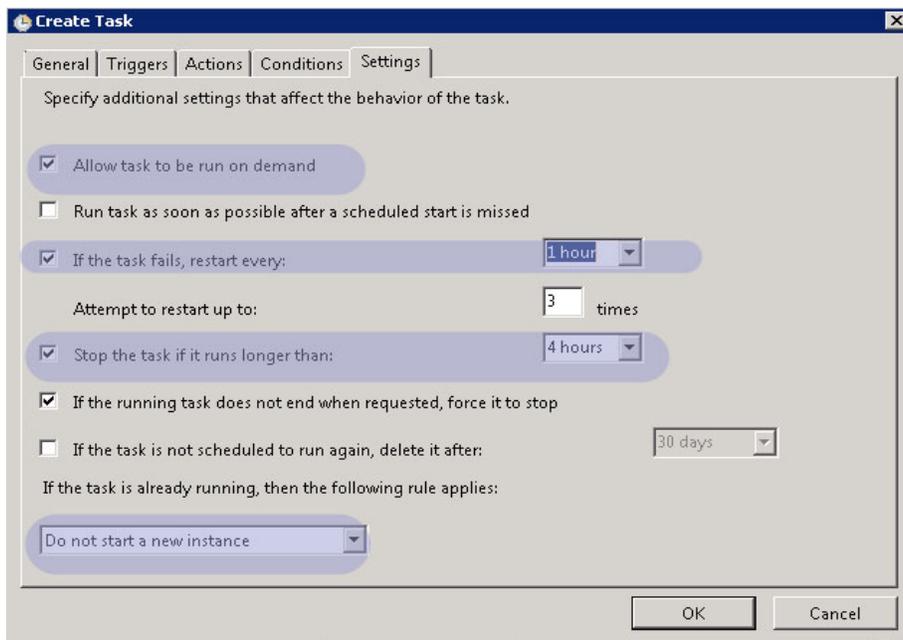


As highlighted in the "Actions" Tab

- i. Set "Action" as "Start a Program"
- ii. In the Settings frame Click Browse button and select ReliabilityAnalysis.exe from path "..\VirtualWorks\IIS\Extui\BASRA"
- iii. In "Start in (optional)", enter the 'ReliabilityAnalysis.exe' path and click "OK".



As highlighted in the “Conditions” tab, uncheck “Start the task only if the computer is on AC power”



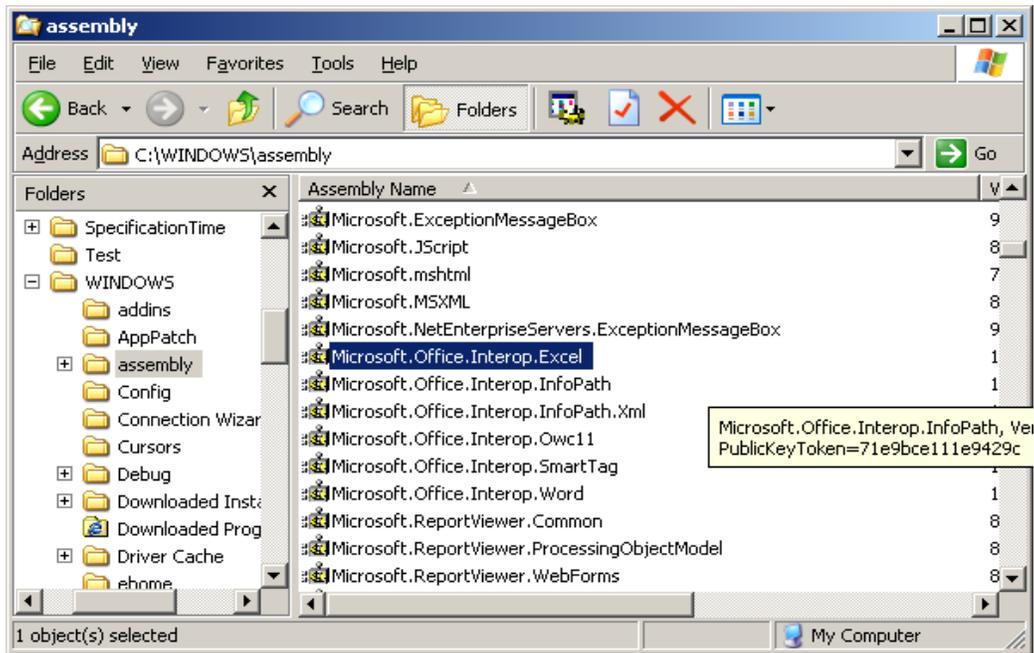
As highlighted in above screenshot, complete the “Settings” tab which ends the completion of Task Scheduler for Reliability,

Configuring Folder for saving Reliability Analysis Reports

- Visit the screen under the BPC 'Utilities '--> Component 'Object Attachment '--> Activity 'Set Options'.
- Note the path mentioned under 'Path in Server'. If not defined, set a path.
- Create a folder within the above path in the web server to download Reliability reports.
- Provide write permission to the above folders for everyone/ the user account - 'Iusr_<servername>'
- The folder created above needs to be defined for Reliability Analysis component in the multiline separately.
- All the .bmp files available in IIS\Reports folder should be copied to the folder 'IIS\Extui\BasRA' also.
- Company Logo should be available as .bmp file with the naming convention as <Company Name>.bmp (Company Name as defined in the application) in the folder 'IIS\Extui\BasRA'.
- In case of enabling Reliability Analysis in a server with multiple databases, the scheduler needs to be configured separately for each database. The path of the RelReports.exe file will vary for each database. The corresponding Deploy.ini, Reliability Report templates, ReliabilityReports.xml files will be configured along with .exe file. The Stored Procedures and Table objects need to be compiled in each database.
- For Windows 2008 server, Please make this folder.
 - C:\Windows\System32\config\systemprofile\Desktop
 - C:\Windows\SysWOW64\config\systemprofile\Desktop

Pre-requisites for executing ReliabilityAnalysis.exe file

- At least one printer driver needs to be installed in Web server for the generation of Reliability reports.
- Ensure that the following assemblies are available in Global Assembly Cache path (C:\Windows\Assembly)
 - Microsoft.Office.Interop.Excel
 - Microsoft.Office.Interop.Word



3.0 Manage Consolidated Financial Statements Package

Refer the attached document for configuration and settings



14-Data
Package.pdf

4.0 Automatic Material Movement Document (AutoMMD) Printing

For AutoMMD installation, Please refer to the setup files and documents available in the product cut folder.

...\DVD4 - Tools & Documents\Tools\AutoMMD

5.0 Enabling M&E interaction with ePubs

A. M&E application integrated with Ramco ePubs for Package Printing:

I. Configuration settings:

Open up the Deploy.ini file available in ...IIS\ExtUI\NonRvw and provide the below details:

Database server name
User who has access rights to ePubs database system
Password
M&E application database name

E.g.

avnbl01
rvwuser
rvw
avnappdb

II. M&E application interaction with ePubs:

M&E interaction with ePubs is enabled through database synonyms. The database synonym creation will follow one of the below scenarios.

Scenario 1: ePubs is installed in the same server where M & E Application is installed.

Create the synonym with database reference as given in the attached script in order to enable the interaction.

ePubs database name has to be modified against the variable @db_name_tmp in the below attached script and executed in AVNAPPDB.



A-epubsmanual-Alter
Synonym.sql

Scenario 2: ePubs and M&E Application are installed in two different servers:

Linked server has to be established for accessing the objects related to ePubs application. Create the synonym with linked server and database reference as given in the attached script in order to enable the interaction.

ePubs database server name has to be modified against the variable @datasrc and ePubs database name has to be modified against the variable @db_name_tmp in the below attached script and executed in AVNAPPDB.



B-epubsmanual-Alter
Synonym.sql

B. M & E application not integrated with Ramco ePubs for Package printing:

Execute the below script in AVNAPPDB if M&E application is not integrated with ePubs for package printing.



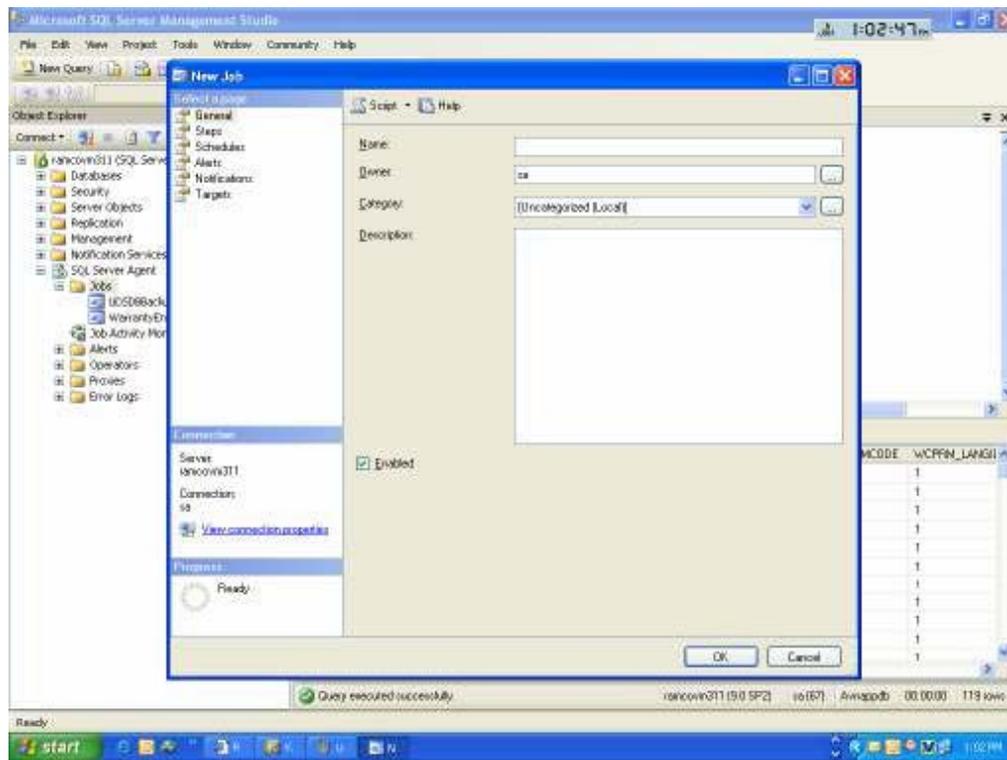
C-epubsmanual-Alter Synonym.sql

6.0 Schedulers to be configured

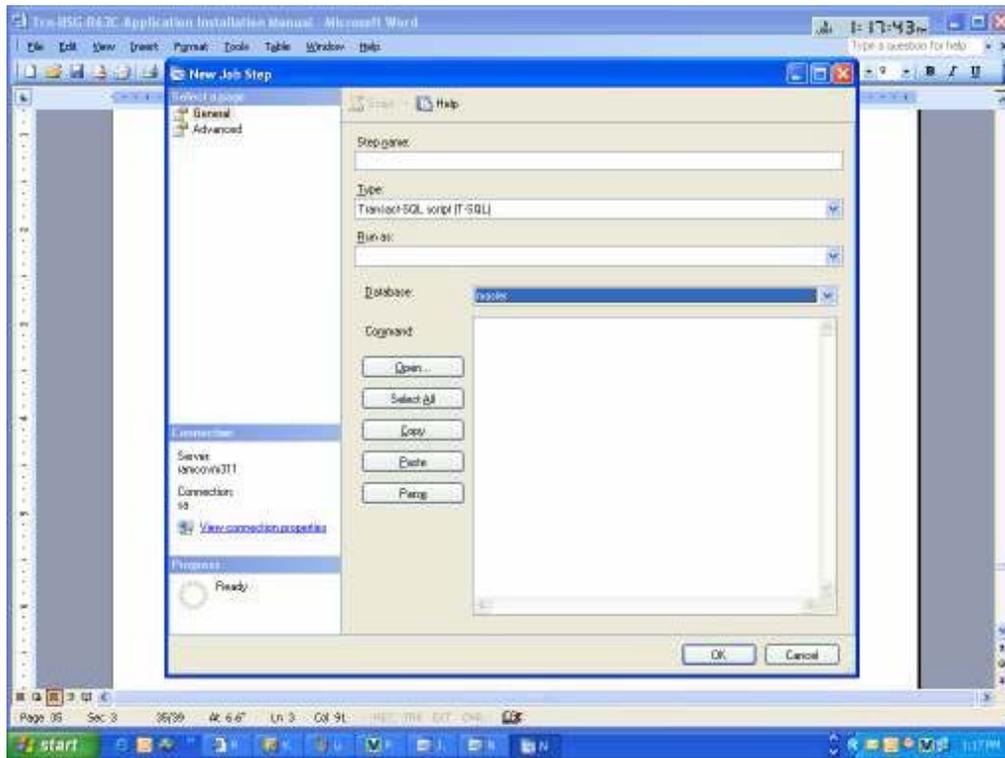
The list of schedulers as mentioned in 'Scheduler Job List' annexure document need to be configured as SQL Job in RM Server.

To create a new Job, Follow the steps below:

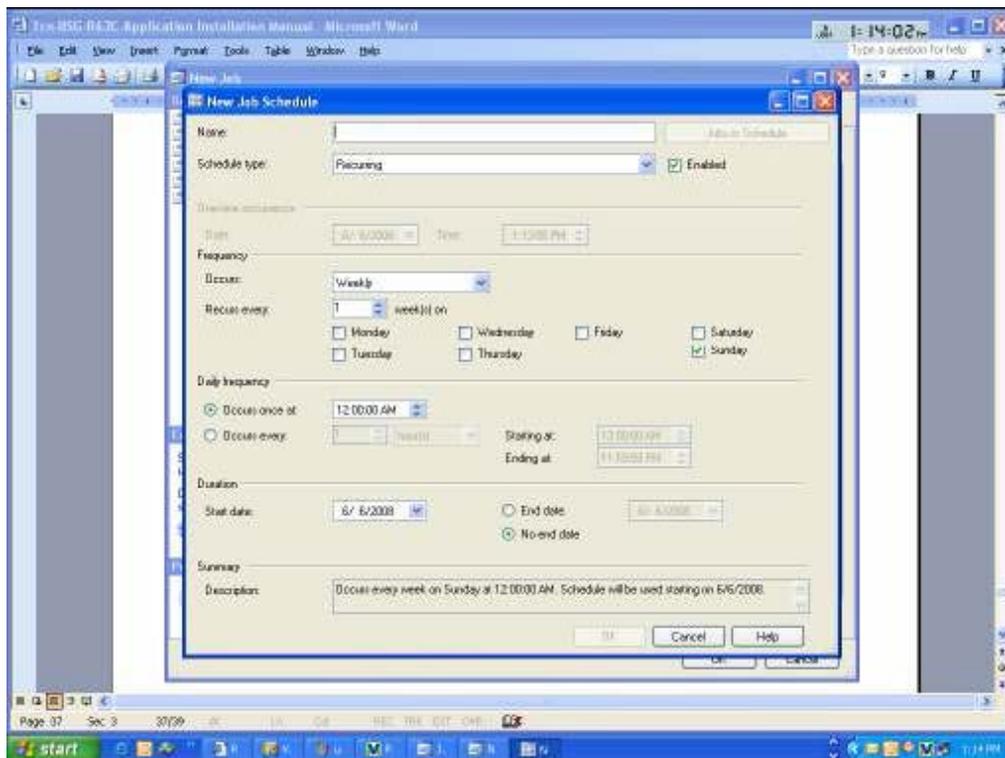
- a. Connect to SQL Server Management Studio Object Explorer using sa user.
- b. Start the SQL Server Agent. If it is in stopped status, then right click on SQL Server Agent and click Start
- c. Expand SQL Server Agent, right click on Jobs. Give the name of the Job in the "Name" text box.



- d. Click on "Steps" from the left pane of the new window job. Click on "New" push button. Step window pops up. Give the Step name and select the Database from the database combo. Command text field, specify command to be executed and click on OK push button.



- e. Click on Schedules from the left pane of “New Job” window and click on “New” push button. A “New job Schedule” window pops up. Specify the name of the job in the Name text field. Ensure that ‘Enabled’ check box has been enabled. In the frequency section, specify the frequency of occurrence from the Occurs combo. In the Daily Frequency section, click on “Occurs every” radio button and specify the required timings from corresponding list boxes and combo. Under Duration section, specify the start date and required End date and click on OK.



- f. Click on OK to finish the Job.

7.0 Scripts to be run

- Below Script to be run in RM server in master database for providing permission to 'OLE Automation Procedures',

The below script to be run if the feature in component "Issue Tools" under Facility Management and if "Authentication for Tools Issue" is set as Required.

```
sp_configure 'show advanced options', 1
GO
RECONFIGURE
GO
sp_configure 'Ole Automation Procedures', 1
GO
RECONFIGURE
GO
```

- **Permissions to set**

```
use msdb
GRANT EXEC ON sp_add_job TO PUBLIC
GRANT EXEC ON sp_add_jobstep TO PUBLIC
GRANT EXEC ON sp_add_jobserver TO PUBLIC
GRANT EXEC ON sp_start_job TO PUBLIC
GRANT SELECT ON sysmail_principalprofile TO PUBLIC
GRANT SELECT ON dbo.sysjobs TO PUBLIC
GRANT EXEC ON SP_START_JOB TO PUBLIC

use master
GRANT EXEC ON xp_sqlagent_enum_jobs TO PUBLIC
```

- **Service broker**

The Service Broker infrastructure has been implemented for forecast operations in order to schedule & perform the voluminous data processing operations by using multiple asynchronous queues with scheduled conversation handle/ delays in order to manage maintenance operations without using SQL Server Agent. This gives provision for flexible scheduling of work, which can translate to big improvements in both performance and scalability.

1. Stop and start the sql service
2. Execute below queries in application db

```
Declare @DBname nvarchar(50)
SELECT @DBname = DB_NAME()
exec ('ALTER DATABASE ' + @DBname + ' SET TRUSTWORTHY ON')
exec ('ALTER DATABASE ' + @DBname + ' SET NEW_BROKER')
```

Note:

- (i) Please ensure DEPDB & all Application DBs like AVNAPPDB, HRMS40 owners are same".
This is very much required for online forecasting and Data Replication feature.
- (ii) Please ensure database owner should have equivalent rights to "sa" login."

8.0 Aviation Offline Reporting Service

This feature is applicable for those who are generating financial & management accounting reports.

1. Create a folder named "Log Files" in \\IIS\ExtUi\REPMAC folder.
2. Create a folder named "Reports" in \\IIS\ExtUi\REPMAC folder.
3. Provide the information in .ini file which is available in \\IIS\ExtUi\REPMAC folder.
 - a. File name: AVNOfflineRepSettings.INI file
 - b. [ServerInformation]
 - i. <Server Name> = Mention RM server name
 - ii. <Database Name> = Specify aviation database
 - iii. <User Name> = readuser
 - iv. <Password> = Give the password corresponding to the given username.
 - c. [GeneralInformation]
 - i. <DW WebService URL> = Mention WEB server name in <SERVERNAME>
 - ii. <DocAttch WebService URL> = Mention WEB server name in <SERVERNAME>
4. Execute "Install AVN Offline Reporting Service" batch file from \\IIS\ExtUi\REPMAC folder with administration rights
5. Execute "Start AVN Offline Reporting Service" batch file from \\IIS\ExtUi\REPMAC folder with administration rights

9.0 Ezee View and Ramco Aviation Online Documentation Mapping

For mapping Ramco online documentation to users following steps to be done

1. Map the OLH component to the applicable OU's in the table fw_admin_nonrvw_OUInst_Comp
2. Map the OLH activity to applicable roles in the table fw_admin_nonrvw_Role_Activity (Refer the activityid from this query select * from fw_admin_nonrvw_activity where activityname like 'OLH%')

For mapping Ramco online documentation to users following steps to be done

1. Map the component to the applicable OU's in the table fw_admin_nonrvw_OUInst_Comp (Refer component from this query, select * from fw_admin_nonrvw_activity where activityname like 'spexecutor%')
2. Map the activity to applicable roles in the table fw_admin_nonrvw_Role_Activity (Refer the activityid from this query select * from fw_admin_nonrvw_activity where activityname like 'spexecutor%')

10.0 Document Attachment

For enabling document attachment feature, please refer to the document available in the product cut folder

...\DVD4 - Tools & Documents\Tools\DocumentAttachment

11.0 Manual Instructions

SI #	Description	File Name	Remarks	Manual Instruction
1	Common Settings	ApplicationSettings.js ...\IIS\Extui in Web Server	To enable chrysalis Theme	Add this code at the last row wizardVersion = "2.0";
2	Common Settings	ApplicationSettings.js ...\IIS\Extui in Web Server	To hide the template icon which is not supported currently	Add this code at the last row iHdnToolBarItems.defaulting = true; bannerCollapse = false;
3	Application Launch Settings	To be added in web.config file	This setting is to launch the application in the same session.	<add key="ExtNormalWindow" value="1"> </add> To be added under <appsettings>
4	Planning Board	ApplicationSettings.js ...\IIS\Extui in Web Server	This option is to avoid the traversal issue in Planning Board. (Issue Details: When the nodes in planning board tree are expanded focus is getting set to the header control.)	preventFocusOnIibo = ["amplanmntacplanent"];
5	Activity Search	-	To enable the new activities in Activity	Reload the activity search in Sun Solaris after doing the role

			search	activity mapping for the new activities
6	Mobile Settings	Web Server	To enable mobile APPs	<ul style="list-style-type: none"> a) Create new virtual directory in Web Server with the name : ramcoservices b) Point the virtual directory path virtualworks/ramcoserviceapig ateway.
7	Mobile Settings	WCFClientSettings.config ...\RamcoServiceAPIGateway\App_Data in Web Server WCFClientSettings_Sample.config	To enable mobility (This feature has Commercial implications . Only licensed users need to do this)	<ul style="list-style-type: none"> a) Replace local host with APP server path in WCFClientSettings_Sample.config. b) Rename the file name WCFClientSettings_Sample.config as WCFClientSettings.config.

12.0 Application Settings & Configuration

For the additional settings that needs to be configured for the application can be referred from the following document.

[...VirtualWorks\IIS\EXTUI\Release Documentation\Feature Documents\ExtJS Application Level Settings.doc](#)

13.0 Workflow Setup

For workflow setup, Please refer to the setup files and documents available in the product cut folder.

...\DVD4 - Tools & Documents\Tools\WorkflowSetup

- End of Document -

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