



ramco



Ramco Aviation Solution

Version 5.8

Installation Manual

VirtualWorks™ Runtime Dot Net Installation

Document - Configuration DLL Generation

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Revision History

Version	Date	Author	Description
1.0	08/02/2011	Vinoth Kumar K	Created
1.1	28/03/2013	Vinoth Kumar K	Modified for Windows 2012 and SQL 2012 Environments

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VirtualWorks™ DotNet Runtime – Configuration DLL Generation

CONFIG file generation should happen whenever any of the following activities are completed:

- Installation of VirtualWorks™ Base RT CD.
- Installation of VirtualWorks™ Runtime Patches.
- Creation of New Organization Units (OUs) and mapping new/existing components to it through Deployment Workbench.
- Creation of new Resources and mapping new/existing OU & Components to it through Deployment Workbench.
- Modification of Existing Organization Units (OUs) to map/un-map new/existing components to it through Deployment Workbench.
- Modification of Existing Resources to map/un-map new/existing OU & Components to it through Deployment Workbench.

This document walks through the steps for generating configuration dlls VirtualWorks™ .Net Runtime (Microsoft Version).

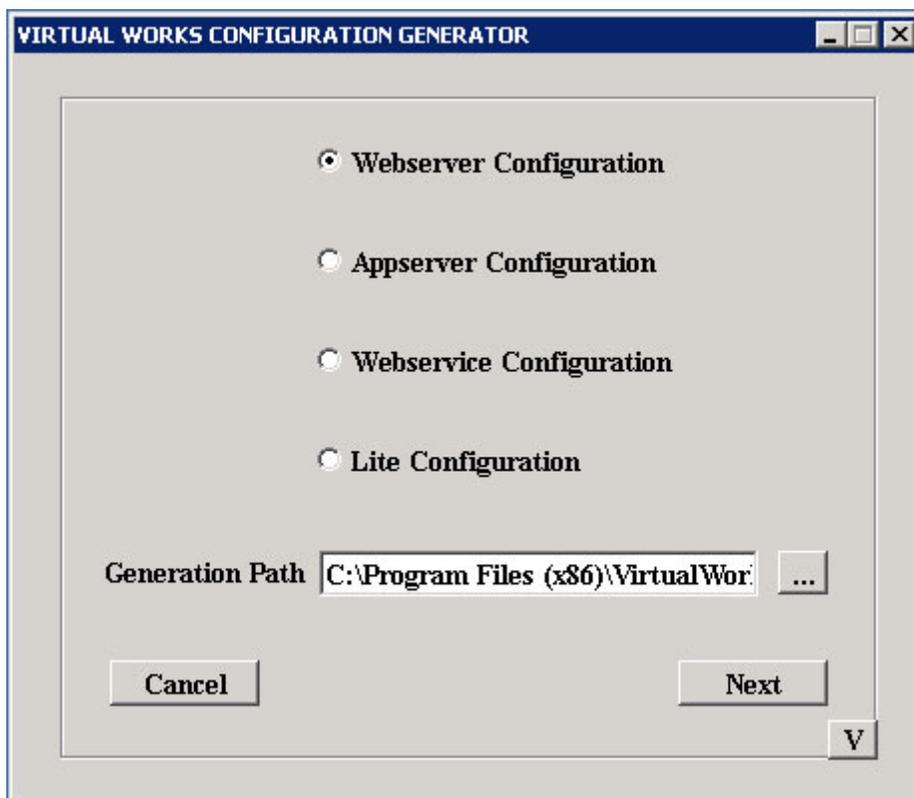
1.1 Steps to Generate Configuration DLLs

There are set of Configuration Dll's deliverables that should be generated and registered in Global Assembly Cache (GAC). Generated Dll's can also be registered manually by drag & drop into the assembly folder (C:\\Windows\\Assembly). The detailed steps are give below.

Note: These configuration dll's serves as connectors between App, Web and RM Servers.

"ConfigGenerator.exe" will be available in the path..\\Program Files(x86)\\VirtualWorks\\RT2

1. Run this exe and the following screen will appear. It can be run either in WEB or APP Server.



2. Select 'Webserver Configuration' option and provide the folder path in 'Generation Path' where the config. Generator deliverables will get generated and click **Next**.
3. In the Login screen (as shown in the below screenshot),
 - i. Select "Server Type" as "SQL"
 - ii. Provide
 - Sql Server Name (with instance name if any)
 - Sql User id
 - Sql Password
 - Select database as "DEPDB", after fetching using 'List' button
4. Under Virtual works login information, provide application admin user id and password that are defined during Runtime Installation.
5. Click **Next** button.

The screenshot shows a window titled "VIRTUAL WORKS CONFIGURATION GENERATOR" with a close button in the top right corner. The window is on page 1/2. The main content area is titled "Login" and is divided into two sections: "Deployment" and "Virtual works login information".

Deployment

- Server Type:
- Server Name:
- Username:
- Password:
- Database:

Virtual works login information

- Username:
- Password:

At the bottom of the form are two buttons: and .

6. Web Server generator screen will be launched as shown in the below screen.

VIRTUAL WORKS CONFIGURATION GENERATOR 2/2

WEB SERVER CONFIGURATION GENERATOR

Single Server Setup Single Sign On Installation

Deployment App Server

Server Name: 172.16.2.20

Server Socket Port Number: 22222

In/Out MTD File Path: [] ...

File Direction: IN

Generate App Server Component Routing Information

Back **Generate** **Install** **Next**

- If application needs to be setup with “Single Sign On” (i.e., domain login will be used for Ramco Application login), then check “Single Sign On Installation” checkbox.

If Web and App layers are installed in two different machines, then Server Name will be App Server Name else if Web and App layers are installed in same machine then Server Name will be either Web or App Server Name as both are same.

User should provide the APP Server name and the Server socket port number (recommended – any value between 1024 and 65535). Please note that this port number should match the port number that was given during File Server installation through DepWiz.EXE (Deployment Wizard).

- Do not provide any File path and file direction (select this as None) in the “In/Out MTD File Path” and “File Direction”. These controls will be used by the VirtualWorks™ support team for debugging purposes. Enabling these options will slow down the system drastically degrading the performance. So, select File Direction as “NONE”.
- Click on **Generate** button. Click **Install** button to install the generated DLL in GAC.
- Once you get “success” message, check “Generate App Server Component Routing Information” check box and click **Generate** button” again.

11. Click **Install** button.

12. Once you get "success" message, click **Next** button.

You will find the starting screen, which is having options for selecting Webserver/ Appserver Configuration and so on.

13. Now Select "Appserver Configuration" option and provide "Generation Path" if it is blank or you can also change this Generation Path.

14. Click **Next** button.

The screenshot shows a window titled "VIRTUAL WORKS CONFIGURATION GENERATOR" with a close button in the top right corner. The window is at step 1/3. The main content area is titled "Login" and is divided into two sections. The first section, "Deployment", contains the following fields: "Server Type" (a dropdown menu set to "Sql"), "Server Name" (a text box containing "172.16.2.21\X1"), "Username" (a text box containing "ramco"), "Password" (a text box containing "*****"), and "Database" (a dropdown menu set to "DEPDB" with a "List" button next to it). Below these fields are two radio buttons: "Default" (selected) and "Enable config XML". The second section, "Virtual works login information", contains "Username" (a text box containing "adminuser") and "Password" (a text box containing "*****"). At the bottom of the window are two buttons: "Back" and "Next".

15. You need to provide SQL and Ramco virtual works login details again and do not check any radio buttons. Click **Next** button.

Note: This configuration tool can also be used in Web and App servers separately for generating Web and App Configuration dlls respectively; hence the login information are prompted to enter two times.

You will find the screen as shown in the below screenshot.

VIRTUAL WORKS CONFIGURATION GENERATOR 2/3

APP SERVER CONFIG GENERATOR

Single Server Setup

Server Socket Port Number

Server Socket Thread Count

Security Flag

EDK Configuration

DIR PWD

Back **Generate** **Install** **Next**

16. Provide the same server socket port number that was provide while generating WEB Server Config generation.

Server Socket Thread Count value can be 0 for unlimited number of users.

If Task Level Security feature has to be enabled select the Security Flag as ON else OFF. For more details on this please refer the feature document available in the WEB Server under ...VirtualWorks\IIS\EXTUI\Release_Documentation\Feature Documents\TaskLevelSecurity.doc

17. Leave other fields with default values and click **Generate** button.

Note: If you are executing this exe in "APP" or "WEB" server and you are doing for Appserver Configuration, then you may click "Install" which will register the Generated dll's in GAC.

18. If EDK is applicable, click on EDK Configuration check box and click on **Next**.

The screenshot shows a dialog box titled "VIRTUAL WORKS CONFIGURATION GENERATOR" with a close button in the top right corner. The page number "2/4" is displayed in the top right. The main content area is titled "APP SERVER CONFIG GENERATOR" and contains the following settings:

- Single Server Setup
- Server Socket Port Number:
- Server Socket Thread Count:
- Security Flag: (dropdown menu)
- EDK Configuration
- DIR PWD

At the bottom, there are four buttons: "Back", "Generate", "Install", and "Next".

19. Provide the details of EDK Model DB and EDK Service XML Path as shown below in the screenshot.

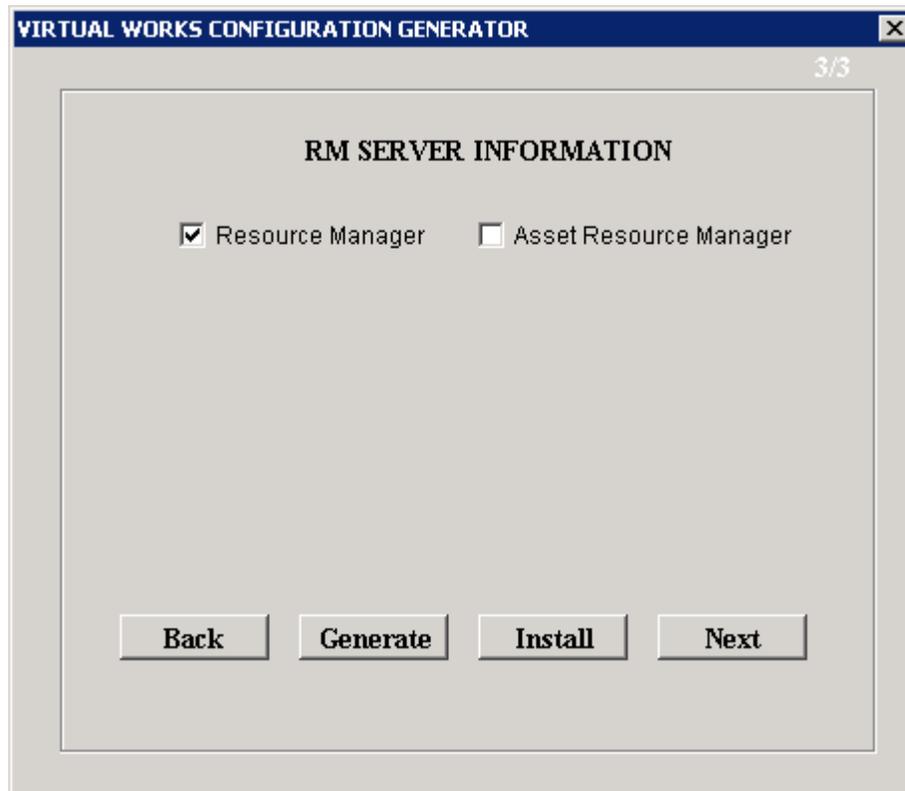
The screenshot shows a dialog box titled "VIRTUAL WORKS CONFIGURATION GENERATOR" with a close button in the top right corner. The progress indicator "3/4" is in the top right. The main content area is titled "EDK INFORMATION" and contains the following fields and buttons:

- RM Connection Values:**
 - RM:** A dropdown menu with "Sql" selected.
 - Server Name:** A text box containing "172.16.2.21/X1".
 - Username:** A text box containing "ramco".
 - Password:** A text box containing "*****".
 - Database:** A dropdown menu with "EDKMODELDB" selected, and a "List" button to its right.
- EDK Service XML Path:** A text box containing "\VirtualWorks\IIS\EDK\SvcXml" and a browse button (represented by a folder icon).
- Navigation Buttons:** Four buttons labeled "Back", "Generate", "Install", and "Next" are arranged horizontally at the bottom.

20. Click on **Generate** Button.

Note: If you are executing this exe in "APP" server and you are doing for Appserver Configuration, then you may click "Install" which will register the Generated dll's in GAC. If you are executing this exe in Web Layer, please do not click on Install Button.

21. Click **Next** button, It will open a screen as shown in the below screenshot



22. Select the check box **Resource Manager** and click on **Generate** button.

Note: If you are executing this exe in "APP" server and you are doing for Appserver Configuration, then you may click "Install" which will register the Generated dll's in GAC. If you are executing this exe in Web Layer, please do not click on Install Button.

23. If you are using Workspaces / Portlets then Asset Resource Manager dll need to be generated whenever any portlets are mapped. Just select the check box Asset Resource Manager and click on **Generate** button.

Note: If you are executing this exe in "APP" or "WEB" server and you are doing for Appserver Configuration, then you may click "Install" which will register the Generated dll's in GAC.

24. Click **Next** button

25. If the exe is executed in web server, copy the following dll's from the "Generation Path" set in the Web server and paste it in App Server's drive (It can be pasted in any folder, recommended path is "..\Program Files (x86)\VirtualWorks\RT2") and drag and drop the copied DLLs into GAC (C:\Windows\Assembly)

- i. Appconfig.dll
- ii. RMInfo.dll

- iii. AssetRMInfo.dll (applicable only if portlets are used)

And the other two DLLs, WebConfig.dll and ComponentRouting.dll should be in Web Server.

To summarize, ConfigGenerator.exe can run either in WEB or APP Server. Once generation completed, ensure that WEB and APP layers are having following listed DLLs.

WEB Server

- Webconfig.dll
- ComponentRouting.dll
- Appconfig.dll
- AssetRMInfo.dll

APP Server

- Appconfig.dll
- RMInfo.dll
- AssetRMInfo.dll
- EDK Related DLLs (If EDK is applicable)

- End of Document -

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