

This module explains how to set up IBM Tivoli[®] Composite Application Manager for Transactions to playback a Rational[®] Functional Tester test script on a Robotic Response Time agent.

	IBM
Objective	
When you complete this module, you can perform these tasks:	
 Enable your first Rational Functional Tester script playback in IBM Tivoli Composite Application Manager for Transactions environment 	
 Verify script playback results 	
2 How to play back a Rational Functional Tester script © 20	13 IBM Corporation

When you complete this education module, you can perform these tasks:

- Enable your first Rational Functional Tester script playback in IBM Tivoli Composite Application Manager for Transactions environment

- Verify script playback results

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Assumptions	
These products must be installed:	
 IBM Tivoli Monitoring V6.2 infrastructure (Tivoli Enterprise Monitoring Service or Tivo Enterprise Portal Server) 	li
 IBM Tivoli Composite Application Manager for Transactions agents V7.3.0.1 Applicat Management Console agent 	ion
 IBM Tivoli Composite Application Manager for Transactions agents V7.3.0.1 Robotic Response Time agent 	
 Rational Functional Tester V8.2 	
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To play back successfully a robotized Rational Functional Tester script to monitor an Application Under Test, these components must be installed:

- IBM Tivoli Monitoring V6.2 infrastructure (Tivoli Enterprise Monitoring Service or Tivoli Enterprise Portal Server)

- IBM Tivoli Composite Application Manager for Transactions agents V7.3.0.1 Application Management Console agent

- IBM Tivoli Composite Application Manager for Transactions V7.3.0.1 Robotic Response Time agent and Rational Functional Tester V8.2 on a dedicated system (also known as the player system)

- Rational Functional Tester V8.2 on a dedicated system (also known as the recorder system)

	VI.
Steps to apply	
 Record a Rational Functional Tester script, play it manually, and verify that it is correct 	
 Upload it to ITCAM for Transactions Application Management Console (AMC) agent system 	
 Enable a robotic response time profile with IBM Tivoli Monitoring Tivoli Enterprise Portal GUI]
 Start the targeted Robotic Response Time agent 	
 Verify results in IBM Tivoli Monitoring Tivoli Enterprise Portal GUI robotic workspaces 	
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These steps are what you must do:

1. Record a Rational Functional Tester script, play it manually, and verify it is correct on the recorder system.

2. Upload it to the IBM Tivoli Composite Application Manager for Transactions Application Management Console (AMC) agent system

3. Enable a robotic response time profile with IBM Tivoli Monitoring Tivoli Enterprise Portal graphical user interface.

4. Start the targeted Robotic Response Time agent service.

5. Verify obtained results in IBM Tivoli Monitoring Tivoli Enterprise Portal GUI robotic workspaces.

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Recording a Rational Functional Tester script	
 The IBM Education Assistant module <u>Rational Functional Tester script for ITCAM</u> teaches how to record a test script with Rational Functional Tester Workbench software 	
 See IBM Tivoli Composite Application Manager for Transactions > 7.3 > Robotic Response Time agent > <u>Rational Functional Tester script for ITCAM</u> 	
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The lesson developer assumes that you are already familiar with Rational Functional Tester Workbench software and know how to record a test script against the Application Under test targeted application.

If not, you can see the IBM Education Assistant module shown.

You can also use the Rational Functional Tester Workbench online help and Welcome workspace area to become more familiar with Rational Functional Tester script recordings.

After the Rational Functional Tester script is recorded and replayed manually within Rational Functional Tester workbench, you can continue to the next steps.

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After the Rational Functional Tester script is uploaded (also known as export action) from the Rational Functional Tester workbench recorder system to the Tivoli Composite Application Manager AMC agent, it should display in the Tivoli Monitoring Tivoli Enterprise Portal GUI console. Look under Navigator, AMC node, Application Management Console, in the Robotic Scripts workspace. Here you can start and check the path, the name, the file size of the archive file that contains the Rational Functional Tester script elements.

This information is a good indication of successful script upload to the Application Management Console script 'depot' system.

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If all works as expected with the Tivoli Composite Application Manager for Transactions export phase, the AMC agent file system should store now the Rational Functional Tester exported archive .zip file. For example, on Windows system, Rational Functional Tester test script archives are stored under **ITMHOME/kt1depot/t3/rft** directory, as .zip files.

If you extract one archive file to see more, you should see the Rational Functional Tester script elements. Look for a **resources** subdirectory, a **configurations.rftcfg** file, and the script **.class** and **.java** files of the Rational Functional Tester script, among other files.

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From the Tivoli Monitoring Tivoli Enterprise Portal, start the Application Management Configuration tool (also known as AMC Editor, or AMCe) and found in the top menu icon list of the Tivoli Enterprise Portal.

Now you must create a new or complete an existing robotic response time profile.

So select profiles and robotic response time. Right-click and select **create profile** for example.

Set a profile name for the profile; then in the **Transactions** tab, click the **Add** button to select and add your script. In the **properties** area, you can set up the **playback frequency**, **timeout value**, and so on.

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Enable a robotic respon Application Management Configuration Editor Configure your environment for monitoring	nse time profile with AMCe ● & ■ Ø Ø ≜ ≜ ● ■ Ø ■ 0 ■ 1 ₪ 9 ■ Ø ■ Ø ■ Ø) 1 1 = 🖬 🖗 🖗
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To complete the robotic response time profile setting with the Application Management Configuration Editor GUI, do these steps:

- 1. Go to the **distribution** tab.
- 2. Select a robotic node agent, for example, nc051070:t6.
- 3. Move this node to the Assigned list.

You can also select *EM_ROBOT Managed system group as Assigned list so that all of your robotic agents can play back the scripts.

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C051068		eric				User	uid:0	Client	Include
Warehouse Proxy		eric				User	eric	Client	Include
Summarization and Pruning Agent		ERIC-ne	w-client-for-pm	16424-to-trigger-o	omponent	Hostname	eric	Client	Include
Transaction Reporter		nc05106	8			IP	9.42.51.68	Client	Include
Applications		nc05106	9			IP	9.42.51.69	Client	Include
Components		nc05107	0			IP	9.42.51.70	Client	Include
Servers		nc05107	1			IP	9.42.51.71	Client	Include
Transactions		nc05107	2			IP	9.42.51.72	Client	Include
• 9 NC051069		Playback	-RFT::RFT_calo	_Script1::RFT_ca	lc_Script1	ProfileName	Playback-RFT	Transaction	Property
NC051070		Playback	-RFT:RFT_calo	_Script1::RFT_ca	lc_Script1	ApplicationName	RFT_calc_Script1	Transaction	Include
🖻 🞯 Robotic Response Time		Playback	RFT:RFT_calo	_Script1::RFT_ca	lc_Script1	TransactionName	RFT_calc_Script1	Transaction	Include
- 💭 Applications		Playback	-RPT-HTTP-sci	rips::ISC_console,	_nc051069::ISC_co	ProfileName	Playback-RPT-HTTP-scrips	Transaction	Property
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After the robotic profile is enabled, as shown previously, you can check from the Tivoli Monitoring, Tivoli Enterprise Portal for the robotic agent node. Look under **Robotic Response Time**, **Configuration**, **Profile configuration workspace** for the results.

You should see your profile details, for example: the **Playback-RFT** profile name is listed here, with details of the profile configuration.

Also, in the Agent Messages workspace, a message can be displayed like "The profile 'profile name' was changed." This message indicates that the profile is activated.

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Rational Functio automatically for	nal Tester script an playback	chive that is	extracted	
nc051070. wab.raleigh.ibm.com - Remote Desktop Conne	ection			
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Ele Eat Yew Fgrontes Ioos Bep 3 Back • 3 • 17	3.	Add Extract To Test View	belete Find Wizard Info V	hussan Comment SFX
Folders X Name +	Size Type Date Modified Attributes	RFT_calc_Script1.zip - ZIP archive,	unpacked size 43,095 bytes	¥
Image: Second	118 FROMERTES FINE 4[26]2013 ROLLAM A	Name	Size Padded Type Folder Folder Folder Folder 4,553 1,082 File structure 2,195 1,088 Fiel structure 3,157 957 File structure 171 133 File properties 4,754 1,066 File structure 506 493 File structure 184 119 File properties	Modified CBC32 31/4/2012 3:02 67E882E8 31/4/2012 3:02 C239F04 31/4/2012 3:02 19C53721 31/4/2012 3:02 0400C55 31/4/2012 3:02 DF852F56 31/4/2012 3:02 E80F25C7
11	How to play back a Rational	Functional Tester script		© 2013 IBM Corporation

After the robotic profile is enabled, the Rational Functional Tester test archive is first laid down or downloaded automatically from the AMC agent to the Robotic agent into the **ITMHOME/kt1depot/T6/RFT** directory.

The test script archive content (for example, **RFT_calc_script1.zip**) is extracted automatically for later playback on the robotic agent into the **ITMHOME/tmaitm6/app/rft/scripts/**archive_name> directory.

	Profile Configuration					
view. Physical	Config Name	Key Name	Value	Config Type	Entry Type	
terprise	AllClients	IP	•	Client	Include	
Windows Systems	eric	User	eric@eric.com	Client	Include	
NC051068	eric	User	uid:0	Client	Include	
Warehouse Proxy	eric	User	eric	Client	Include	
 Summarization and Pruning Agent 	ERIC-new-client-for-pmr16424-to-trigger-component	Hostname	eric	Client	Include	
Transaction Reporter	nc051068	IP	9.42.51.68	Client	Include	
Applications	nc051069	IP	9.42.51.69	Client	Include	
Components	nc051070	IP	9.42.51.70	Client	Include	
Servers	nc051071	IP	9.42.51.71	Client	Include	
Transactions	nc051072	IP	9.42.51.72	Client	Include	
NC051069	Playback-RFT:RFT_calc_Script1:RFT_calc_Script1	ProfileName	Playback-RFT	Transaction	Property	
NC051070	Playback-RFT:RFT_calc_Script1::RFT_calc_Script1	ApplicationName	RFT_calc_Script1	Transaction	Include	
Robotic Response Time	Playback-RFT::RFT_calc_Script1::RFT_calc_Script1	TransactionName	RFT_calc_Script1	Transaction	Include	
Applications	Playback-RPT-HTTP-scrips://SC_console_nc051059://SC_co	ProfileName	Playback-RPT-HTTP-scrips	Transaction	Property	
Configuration Pityback Status Charles Configuration Pityback Status Charles Configuration Configuratio Co	- • -			Agent C Agent L Agent N Agent V Agent V Aggreg Concur Data R Enable Install I	Configuration Directo Jbrary Directory Varne /ersion Jate Period Minutes rrent CLI playbacks ange Hours s creen and content Rational Robot Supp ME	capture during playba bort
	Agent Messages Agent Message D Message Date and Time Seventy Message Date and Time O7/15/12/01/38 Error EventPeriod Error Erro	layback of script RFT_	calc_Script1 failed. Another ins 3FT_calc_Script1 failed. The ac	Mess tance of the tes ent screen mig	age Text It application might a ht be locked.	already be running.
	01110110110120E	ne playback of script i	a r_conc_ocripti ranea. The ag	ent octoen mig	in be locked.	
	07/15/13 11:53:23 Information BooMcall/5/	THE DIFFERENCE PLANTER IN PER	FI Das namen charbited			

One way to verify the robotic script playback result is to look at the Tivoli Enterprise Portal, under **Robotic Response Time**, **configuration**, **Agent Messages workspace**.

If something unexpected or incorrect occurs during playback, a message is displayed in this workspace, such as:

The playback of script <script_name> failed. The agent screen might be locked, with **Severity = Error**.

Refer to troubleshooting guide of IBM Tivoli Composite Application Manager for Transactions for further investigation if needed.

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Another ex	ample of r	obotic s	cript	failu	re					
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KC051068 Warehouse Proxy	Robotic Script Playback Status									
G Summarization and Prun G Applications Component	Rebotic Script Name RFT_calc_Script1 nc051069-ISC-WAS-console-9060	CLI Playback Command Curr N/A Idle N/A Idle	ent Run Status	Last Run Status Complete Complete	Last Run Start Time 07/15/13 13:49:52 07/15/13 13:49:53	Last Update 07/15/13 13:50:40 07/15/13 13:50:52	Last Run Duration 47.265 P 59.218 P	Profile Name Nayback-RFT Nayback-RPT-HTTP-scrips	Robotic Script Type Rational Functional Tester Rational Performance Teste	RFT
Components C	Robotic Script Verification Point Failur v Event Time O Even	t Type Profile Name Robo	otic Script Name	Script Type	Playback C	command Violated Vi	alue Expected Value	Addt	onal Details	
Payback Status Payback Status Payback Status Payback Status	07/15/13135040 Generic P	we Playback-RFT RFT,	_calc_Script1	Rational Functional	Tester NIA			RFT_calc_Scripti testman RFT_calc_S RFT_calc_S exception_r exception_r Terminal St	rad an unnahdled exception.; cript1.testMain had an unhani cript1.script_id=RFT_calc_Scri name=com rational test.ft.Wind nessage=CRFCN057EF.Activ widea extinoment Tbis max	s RI dled exc ript1.java fowActiv: vation fai
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13		How to play	/ back a Ra	itional Functi	onal Tester so	ript			© 2013 IBM Cor	poration

Here, another example of robotic script failure is shown. The other important Tivoli Enterprise Portal workspaces to look at are listed:

Robotic Response Time, Playback Status workspace, and more particularly the Robotic script verification point failures

Look for **Event type** like Generic Failure and its **Additional Details** message.

If you move your mouse over the **Additional Details** field, you can see the complete message details.

Here again, the *Troubleshooting Guide for IBM Tivoli Composite Application Manager for Transactions* can help you to determine what is wrong.



If a successful playback of Rational Functional Tester script occurs, as expected, none of the two previous messages and workspaces that are shown in the previous two slides show in Tivoli Enterprise Portal robotic workspaces.

Instead, the Robotic Response Time Transactions workspace lists the application under test transaction name, like **RFT_calc_script1**.

An average response time for the monitored transaction is reported too.



Another way to check the environment results of the robotic Rational Functional Tester script playback is to verify the execution log of the Rational Functional Tester script directly on the Robotic Response Time agent machine, under the right directory.

The file to look for is **rational_ft_log.html**.

For robotic agent versions before V7.3.0.1, the default location for the file is in the **C:/program files/ibm/tivoli/common/bwm/logs/rft/**<script_name> directory.

For robotic agent V7.3.0.1 and later, the default file location is in the directory **%ALLUSERSPROFILE% /ibm/tivoli/common/bwm/logs/rft/**<script_name>.

For example: C:/documents and Settings/All users/ibm/tivoli/common/bwm/logs/rft/ <script_name>.

If you edit the **rational_ft_log.html** file, you see at the end of the file a status like **PASS** at the line **Script end**. It is a good indication that the robotic Rational Functional Tester script playback was successful, as shown in this image.

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Summary	
Now that you completed this module, you can perform these tasks:	
 Enable your first Rational Functional Tester script playback in IBM Tivoli Composite Application Manager for Transactions environment 	
 Verify script playback results 	
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Now that you completed this module, you can perform these tasks:

- Enable your first Rational Functional Tester script playback in IBM Tivoli Composite Application Manager for Transactions environment

- Verify script playback results

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