

# CA PA for CA Service Virtualization 8: Foundations 200



## Course Overview

The *CA PA for CA Service Virtualization 8: Foundations 200* content teaches the foundational concepts needed to record, edit, and deploy virtual services using CA Service Virtualization. Instruction provides the concepts using webservice virtualization with a live service, and when the service is unavailable. Content includes hands-on exercises in a simulated DevTest Solutions environment designed to give students the experience of using the products in realistic scenarios. This content is required to attend all other CA Service Virtualization courses.

### PRODUCT RELEASE

DevTest Solutions 8

### DURATION & COURSE CODE

- Web-based Training (WBT)
- 4 Hours
- 88SVV20014

### PREREQUISITES

- CA PA for DevTest Solutions 8: Foundations 200; Course Code 88ADO20154

### INTENDED AUDIENCE

- Application Developer
- Application Analyst/Architect
- Quality Assurance Engineer
- Business Analyst

## What You Will Learn

- Create a webservice virtual service by recording live transactions using DevTest Workstation and DevTest Portal
- Create a virtual service by importing raw transaction files and using request and response pair files
- Identify stateless and conversational virtual services
- Identify how a virtual service matches the correct response to an incoming request
- Deploy and manage the model behavior of a virtual service
- Identify the role of each step in a virtual service model, and how to execute the model in the Interactive Test Run (ITR) for verification before deployment
- Edit virtual service response data in DevTest Workstation and DevTest Portal
- Troubleshoot virtual services

## For Managers

CA Service Virtualization removes system dependency constraints allowing developers, testers, and quality assurance teams to work in parallel with more reliable outcomes so they can deliver software faster, with lower risk, fewer defects in production, and lower costs.

The *CA PA for CA Service Virtualization 8: Foundations 200* content will benefit all members of an application delivery organization who use CA Service Virtualization to create and deploy virtual services to stand in for live services.

**ADDITIONAL CONTENT RECOMMENDATIONS**

- CA PA for CA Application Test 8: Foundations 200; Course Code 88ADO20144; Four (4) Hours

**Lessons Included**

<b>Lesson 1: Define Service Virtualization Foundations</b>	<b>Lesson 2: Create a Virtual Service with the VSE Recorder (Workstation)</b>
<ul style="list-style-type: none"> <li>▪ Define service virtualization concepts:                             <ul style="list-style-type: none"> <li>• Creation methods</li> <li>• Transactions</li> <li>• Protocols</li> <li>• Normalization</li> <li>• Files</li> <li>• Deploy, run, and manage</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▪ Access VSE Recorder in DevTest Workstation to capture live traffic</li> <li>▪ Define VSE Recorder capture configurations</li> <li>▪ Define client configurations</li> <li>▪ Configure virtual service file creation</li> <li>▪ Create and import raw traffic</li> <li>▪ Save and load VSE Recorder Session files</li> </ul>
<b>Lesson 3: Create a Virtual Service with the VS Recorder (Portal)</b>	<b>Lesson 4: Create a Virtual Service with Request Response Pair Files</b>
<ul style="list-style-type: none"> <li>▪ Access VS Recorder in DevTest Portal to capture live traffic</li> <li>▪ Define VS Recorder capture configurations</li> <li>▪ Define client configurations</li> <li>▪ Configure virtual service file creation</li> </ul>	<ul style="list-style-type: none"> <li>▪ Review methods to create a virtual service from an unavailable service</li> <li>▪ Define and name request/response pair files</li> <li>▪ Create a virtual service from request/response pair files using DevTest Portal/VSEasy</li> </ul>
<b>Lesson 5: Deploy and Execute Against a Virtual Service</b>	<b>Lesson 6: Configure Virtual Service Model Behavior</b>
<ul style="list-style-type: none"> <li>▪ Deploy a virtual service to a VSE</li> <li>▪ Execute against a virtual service at run-time</li> <li>▪ Execute against a virtual service at design-time</li> <li>▪ Define client configurations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Describe the role of virtual service Model Behavior modes</li> <li>▪ View execution details in the VSE Dashboard</li> <li>▪ Debug a virtual service using Transaction Tracking mode</li> </ul>



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## Lessons Included (cont'd)

<p><b>Lesson 7: Define Virtual Service Model Steps</b></p> <ul style="list-style-type: none"> <li>▪ Describe the difference between virtual service model styles</li> <li>▪ Describe the roles of common virtual service model steps</li> </ul>	<p><b>Lesson 8: Define Virtual Service Matching and Responding</b></p> <ul style="list-style-type: none"> <li>▪ Describe how request/response pairs are stored in a virtual service image</li> <li>▪ Describe how an inbound request to a virtual service is matched to determine a response</li> <li>▪ Describe how a virtual service responds with static and dynamic data</li> <li>▪ Describe how Magic Strings and Dates are created and used in a response</li> </ul>
<p><b>Lesson 9: Manipulate Virtual Service Data</b></p> <ul style="list-style-type: none"> <li>▪ Manipulate request data during recording with Request Data Manager (RDM) protocol</li> <li>▪ Desensitize data during and after recording</li> <li>▪ Edit virtual service data in the SIE in DevTest Workstation and DevTest Portal</li> </ul>	<p><b>Lesson 10: Maintain and Troubleshoot a Virtual Service</b></p> <ul style="list-style-type: none"> <li>▪ Describe the common methods used to update a virtual service</li> <li>▪ Select the appropriate method for updating a virtual service</li> <li>▪ Identify and fix common problems with virtual services</li> <li>▪ Navigate to log files used for troubleshooting</li> </ul>



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