



CA Service Virtualization: Upgrading to DevTest 10.2

January 2018



Legal Statement

© 2017 CA. All rights reserved. CA confidential & proprietary information. For CA, CA Partner and CA Customer use only. No unauthorized use, copying or distribution. All names of individuals or of companies referenced herein are fictitious names used for instructional purposes only. Any similarity to any real persons or businesses is purely coincidental. All trademarks, trade names, service marks and logos referenced herein belong to their respective companies. These Materials are for your informational purposes only, and do not form any type of warranty. The use of any software or product referenced in the Materials is governed by the end user's applicable license agreement. CA is the manufacturer of these Materials. Provided with "Restricted Rights." Use, duplication or disclosure by the United States Government is subject to the restrictions set forth in FAR Sections 12.212, 52.227-19(c)(1)-(2) and DFARS Section 252.227-7014(b)(3), as applicable, or their successors.



Agenda

1 WHY UPGRADE CA SERVICE VIRTUALIZATION?

2 UPGRADING: TIPS AND TRICKS

3 RESOURCES

4 Q&A

Why Upgrade?

CA Service Virtualization Versions

Version End of Service Date	
v8.1-v8.4	1-Jul-2017
v8.5-v9.0	15-Oct-2017
v9.1	1-Feb-2018
v9.5 & v9.5.1	20-Jul-2018
v10.0	21-Dec-2018
v10.1	18-April- 2019
v10.2	—

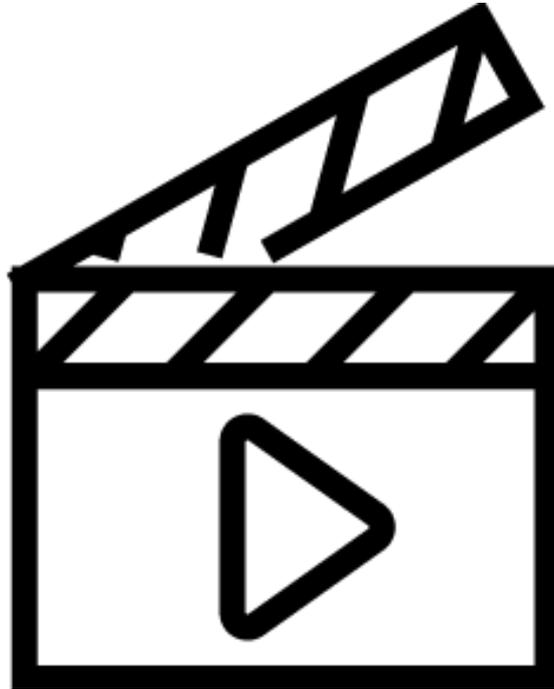
Why Upgrade to v10.2?

- Access to support experts
- Faster issue resolution when issue is reported

Access New CA Service Virtualization Features

- **Separate data directory** for workstation users.
 - Data directory contains user's configuration files, customizations, projects and assets
- **Enhanced Enterprise Dashboard Reporting**
 - Track usage data such as transactions and virtual services per month
 - Built in return on investment calculator

Feature Demo!



Access New CA Service Virtualization Features

- **The REST step now supports HEAD, PATCH and OPTIONS methods**
- **Improvements to database migrations**
- **Improvements to Session Tracking and Inspection**
 - Enhancements include ability to view data in separate tab, resize information, filter by group tag, etc.

List of Additional Improvements:

<https://docops.ca.com/display/DTS1024/New+Features+and+Enhancements>



New CA Service Virtualization Offerings

- **CodeSV** fluent, Java-based interface (API) that allows developers to code the behavior of an endpoint – essentially allowing you to virtualize HTTP traffic in just a few minutes
 - <http://codesv.io/>
- **CA Service Virtualization Community Edition** simple webservice virtual service creation
 - <https://www.ca.com/us/trials/ca-service-virtualization-community-edition.html>

CodeSV

```
> @Rule
> public VirtualServerRule vs = new VirtualServerRule();
>
> @Test
> public void
testSimpleHttpGetWithResponseCodeAndStringBody() throws
IOException {
>     forGet(URL).doReturn(
>         aMessage(CUSTOM_STATUS_CODE)
>             .withStringBody(RESPONSE_BODY_GET)
>     );
>
>     HttpGet httpGet = new HttpGet(URL);
>     HttpClient httpClient =
HttpClientBuilder.create().build();
>     HttpResponse httpResponse = httpClient.execute(httpGet);
>
>     assertEquals(CUSTOM_STATUS_CODE,
httpResponse.getStatusLine().getStatusCode());
```

CA Service Virtualization CE – Look and Feel

The screenshot displays the CA Service Virtualization CE interface for 'SVCE-Enablement-2'. The main window is titled 'Recorder' and shows a 'Transaction Bundle Editor' for a 'POST' request to 'http://localhost:8000/itkoExamples/TokenBean'. The interface is divided into three main sections: CLIENT, GATEWAY RECORDER, and TARGET SERVER. The CLIENT section shows a computer icon. The GATEWAY RECORDER section shows a circular icon with a plus sign. The TARGET SERVER section shows a server rack icon. Below the Recorder section, the Transaction Bundle Editor shows the request body as XML:

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" x...
  <soapenv:Body>
    <getNewToken xmlns="http://ejb3.examples.itko.com/">
      <username xmlns="">rickbansal</username>
      <password xmlns="">password</password>
    </getNewToken>
  </soapenv:Body>
</soapenv:Envelope>
```

 The response body is also shown as XML:

```
<?xml version="1.0" encoding="UTF-8"?>
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header />
  <env:Body>
    <ns2:getNewTokenResponse xmlns:ns2="http://ejb3.examples.itko.com/">
      <return>205acd09:15f26b84d2c:-7ff6</return>
    </ns2:getNewTokenResponse>
  </env:Body>
</env:Envelope>
```

 The interface also includes a 'Start Recorder' button, a 'Transaction Bundle Editor' with 'Save' and 'Add to Bundle' buttons, and a 'Create Virtual Service' button at the bottom right. The status bar at the bottom indicates 'Copyright © 2002-2017 CA' and 'Build 10.2.3.26 275M of 362M'.



CA Service Virtualization CE – Look and Feel

The screenshot displays the CA Service Virtualization CE interface for a project named "petStore-swagger-v2V52". The main window is titled "HTTP Transport" and shows a diagram of a "CLIENT" connected to a "VIRTUAL SERVER". Below the diagram, a URL bar shows "http://localhost:59491/v2" and a "Run Virtual Service" button.

The "Service Image Editor" is open, showing a list of service definitions. The selected service is "petStore-swagger-v2V52", which is a "POST /v2/store/order/" endpoint. The "Request" tab is active, showing a table of arguments:

Arguments	Operator	Value
complete	=	false
id	=	1
petid	=	1
quantity	=	1
shipDate	=	2017-10-11T10:58:47.407...
status	=	placed

The "Response" tab shows the following JSON response:

```
{
  "petId": 1,
  "quantity": 1,
  "id": 1,
  "shipDate": "2017-10-11T10:58:47.408-05:00",
  "complete": false,
  "orderDate": "2017-10-11T10:58:47.408-05:00",
  "status": "{(=request_status;+placed+)}"
}
```

The interface also includes a left-hand navigation pane with "API EXPLORER", "TRANSACTION BUNDLE", and "VIRTUAL SERVICES" sections. The bottom status bar shows "Copyright © 2002-2017 CA", "Build 10.2.3.26", and "291M of 394M".

Release Notes: Comparison of Features

Key Features	Release 10.2	Release 10.1	Release 10.0	Release 9.5	Release 9.1	Release 9.0
Application Test Enhancements						
REST step supports the HEAD, PATCH, and OPTIONS methods	yes	no	no	no	no	no
Create baseline tests from Swagger 2.0	yes	yes	yes	no	no	no
Create baseline tests from virtual services	yes	yes	yes	no	no	no
Convert large data data set to comma-separated value (CSV) file	yes	yes	yes	yes	no	no
HP ALM Plugin for DevTest 64-Bit	yes	yes	yes	yes	no	no
CA Agile Central report generator	yes	yes	yes	yes	no	no
JMS support for ActiveMQ direct connection factory	yes	yes	yes	yes	no	no
Failed to Stage status added to Monitoring Tests window	yes	yes	yes	yes	yes	no
Selenium support for Firefox 43	yes	yes	yes	yes	yes	no

Tips & Tricks

Preparing for a CA Service Virtualization Upgrade!

Back-up Environment

- Assets
- The DevTest Directory
- Registry Database
- Enterprise Dashboard Database*

* For 7.5.x you must uninstall the Enterprise Dashboard

Prepare Database Migration

- Ensure configuration registry and enterprise has full DBA privileges

Know IT Environment

- Hostname, IP addresses, SSL Certificates, LDAP Configuration, DB configuration

Best Practices

- Upgrade a **Sandbox** Environment
 - Low risk
 - Validate that upgrade process is smooth
 - Validate that virtual services and tests work as expected
 - Familiarize yourself with new features
- **Two ways** to upgrade to the latest version
 - In-Place
 - New Location

Steps to Upgrading

1. Download Installer. Have license key available
2. Shut Down Services and Applications
3. Run Installer
4. Configure Property Files
 - local.properties
 - site.properties
 - dradis.properties
 - vmoptions
5. Clear Browser Cache
6. For v8.x and above, ACL is mandatory.
Review [Access Control](#) feature.
7. Remote components: upgrade 1 by 1
8. Start DevTest Services:
 - Enterprise Dashboard, Registry, Portal, VSE, Coordinator, Simulator



Post installation



- Verify Enterprise Dashboard Connectivity
- Verify Registry Connectivity
- Verify Component Status
- Verify Portal Connectivity
- Verify Workstation Connectivity
- Deploy Virtual Service
- Verify Deployed Virtual Service
- Start Test Case
- Verify Test results

Resources

Documentation

Preparing Your DevTest Upgrade

Last update November 28, 2017

- Prepare Materials**
 - Review new features and changes to DevTest
 - Ensure you have a DevTest license
 - Download DevTest Installer
- Know IT Environment**
 - Host name, IP addresses, SSL Certificates, LDAP configuration, database configuration
 - Review DevTest System Requirements
- Back Up Environment**
 - Assets (Example: your test cases and virtual services are in a source control repository)
- Prepare Database Migration**
 - Ensure configuration files for registry and Enterprise Dashboard have full DBA privileges

- Preparing Your DevTest Upgrade**
- Upgrade DevTest
- After You Upgrade
- Additional Upgrade Details
 - + Migrating the SDK
- + Getting Started
- + Using
 - Agents
 - + DevTest Java Agent
 - + DevTest CICS Agent
 - + DevTest LPAR Agent
 - + DevTest Mainframe Bridge
- + Administering
- + Reference

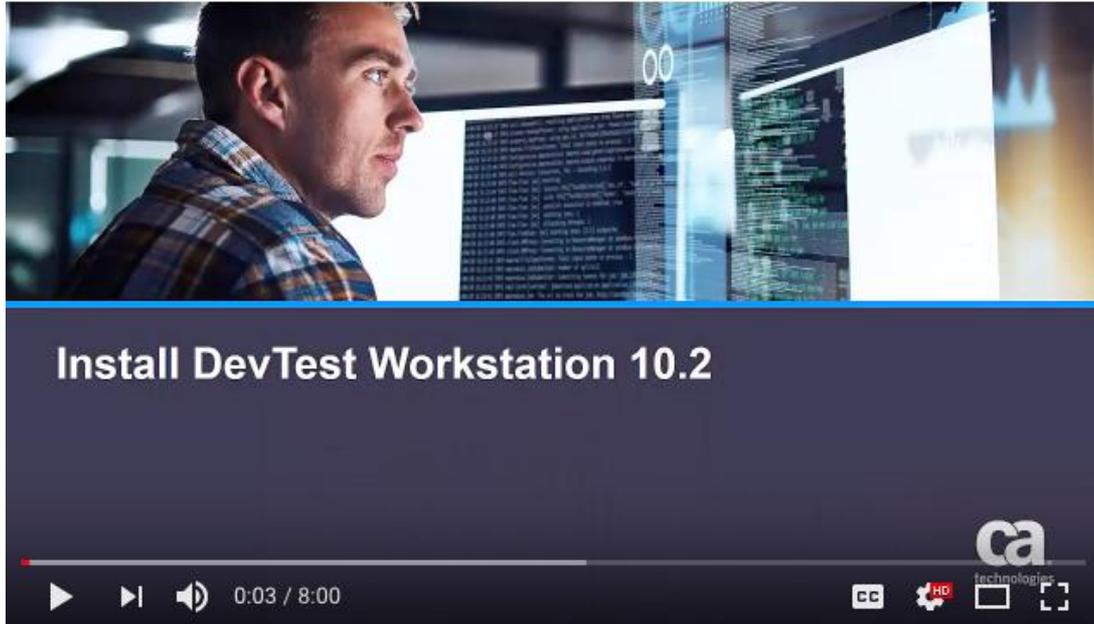
<https://docops.ca.com/devtest-solutions/10-2/en/installing/preparing-your-devtest-upgrade>

Community Upgrade Center

<http://cainc.to/SVUpgradeCntr>

Why Upgrade	Ready to Upgrade	After You Upgrade
<p>Learn about top new features in DevTest 10.1.</p> <p>Latest Release Information</p> <ul style="list-style-type: none">• DocOps: What's new with DevTest 10.1 🔗• DocOps: Release Notes DevTest 10.1 🔗• 📄 Blog: DevTest 10.1 is Generally Available (GA)• 📄 Blog: DevTest Server Console has Retired• DevTest Solutions Release and Support Lifecycle Dates 🔗 (GA and EOS Information, Support Login required)• Demo DevTest Portal: Create Virtual Services from RR Pairs 🔗• Demo DevTest Portal: How to modify a Virtual Service after recording 🔗• Demo DevTest Portal: Using the CICS virtual service recording feature 🔗• Demo DevTest Portal: Using CICS Copybook payload mapping 🔗 <p>Integration Opportunities</p> <ul style="list-style-type: none">• Demo of the End-to-End, Integrated CA Continuous Delivery Ecosystem 🔗• Demo of CA Application Test and CA Agile Central Integration 🔗• Demo of CA Service Virtualization and CA APIM 🔗	<p>Advice and best practices for an effective and seamless upgrade.</p> <p>Must-Read DocOps Before You Upgrade</p> <ul style="list-style-type: none">• System Requirements for DevTest 10.1 🔗• Reactivate a Registry or Enterprise Dashboard 🔗 Maintain Registries 🔗 <p>Upgrade Best Practices</p> <ul style="list-style-type: none">• Guide: 📄 How To - Upgrade DevTest 8.x To DevTest 10.1• 📄 How To - Create VS using Swagger Specs• 📄 Blog: DevTest Architecture Best Practice - Overview <p>Training and Support</p> <ul style="list-style-type: none">• OnDemand DevTest Solutions 10.0: Installation and Configuration 200 🔗	<p>Useful resources for after you've upgraded.</p> <p>Must-Read DocOps</p> <ul style="list-style-type: none">• After you upgraded 🔗• Reactivate a Registry or Enterprise Dashboard 🔗• Maintain Registries 🔗• Logging 🔗 <p>Get the Most Out of DevTest Solutions</p> <ul style="list-style-type: none">• 📄 Tech Tips: Best Practices Installing and Verifying DevTest Out of the Box <p>Are You Experiencing Issues or Need Help Troubleshooting?</p> <ul style="list-style-type: none">• 📄 After upgrading DevTest to versions 9.x/10.x got error 503 <p>Need Additional Help?</p> <p>Please search the 🔍 DevTest Communities for your topic. If it is not listed, post a question to receive support from the DevTest community.</p> <p>If you seek further assistance, click here for CA Support 🔗.</p>

Install & Configuration Videos



Home Videos **Playlists** Channels Discussion About

DevTest Solutions 10.0 Installation
Educate • 14 videos • 197 views • Last updated on Mar 30, 21

▶ Play all ◀ Share + Save

- 1 **Identifying Prerequisites for DevTest Solutions 10.0**
by Educate
- 2 **Downloading Installation Files for DevTest Solutions 10.0**
by Educate
- 3 **Running the Linux Installer Files for DevTest Solutions 10.0**
by Educate

https://www.youtube.com/watch?v=F3nh_DyvlMs&feature=youtu.be

<http://cainc.to/EDqrPC>

Education Course

The screenshot shows a video player interface for a course. At the top left is the 'ca technologies' logo. The top right corner displays the course ID '88SVV20240 - DevTest Solutions 10.2: Installation and Configuration 200' and a timestamp '(00:06 / 1:22:36)'. A 'Resources' link is also visible. On the left side, there is a 'Course Outline' menu with the following items: 'DevTest Solutions 10.2: Installation and Configuration 200' (highlighted), 'Installation Overview', 'Introduction', 'Course Introduction', 'Prepare, Download, and Install', 'Configure and Verify', and 'Uninstall DevTest'. The main video area shows the title 'DevTest Solutions 10.2: Installation and Configuration 200' and the course ID '88SVV20240'. The bottom of the player features a search bar, a volume icon, a play button, a progress bar, a refresh icon, and 'PREV' and 'NEXT' navigation buttons. The 'ca technologies' logo is also present in the bottom right corner of the video area.

Course: 88SVV20240 – Devtest Solutions 10.2: Installation and Configuration 200

<https://www.ca.com/us/education-training.html>

Attend an SV Roadmap Session



<https://www.ca.com/us/product-roadmaps.html>

Still need help?



1. Contact CA Support for help
2. Contact your Account Rep
3. Contact Presenters

Koustubh Warty:

Koustubh.Warty@ca.com

Beverly Mindle:

Beverly.Mindle@ca.com

Discussed

- Learn about the new features are available in CA Service Virtualization 10.2
- Be able to prepare for an upgrade, perform an upgrade, and verify the upgrade
- Be able to utilize CA Service Virtualization support and upgrade resources

Questions?





Thank You.