

# What's New in CA LISA 7.5

Presented by:

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March 6, 2014

Thank you for joining!

Please dial into the audio:

**1 (888) 568-6714** OR

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Conference ID: **63025178**



# Feedback and Questions



The CA LISA Global User Community

<https://communities.ca.com/web/ca-lisa-application-delivery-global-user-community/welcome>

+ MyCA Welcome + **Communities** + Support + Projects

Welcome **Message Board** Ideas Calendar Documents Members Administration

Message Board

Message Board CA LISA Global User Community

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Category	Categories:	Threads	Posts
<b>LISA General Discussion</b> Subcategories: CA Service Virtualization (VSE, Test), Data Mining/ Datafinder, Data Mining/ Pathfinder, Network Virtualization	4	49	165
<b>LISA Tech Tips</b> Technical tips, best practices and tools from the CA LISA team.	0	1	2
<b>Tools and Extensions</b> Discuss the tools used for support, management and maintenance provided by CA and the community. Also includes sharing of extensions.	0	1	1
<b>Webcast Archive</b>	0	5	5

# Ideas and Enhancement Requests

+ MyCA Welcome + **Communities** + Support + Projects

Welcome Message Board **Ideas** Calendar Documents Members Administration

Ideas

Ideas CA LISA Global User Community Leave

Have an inspirational idea that you'd like to share?

**Post Idea**

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- All
- Network Virtualization (0)
- Data Mining/ Datafinder (10)
- Data Mining/ Pathfinder (11)
- Service Virtualization (38)**

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**CUSTOMIZED LISA REPORTS**  
March 5, 2014 Posted By [prachikasar62351541](#) Status : New

0 Votes

**CUSTOMIZED LISA REPORTS**

Currently, one of the weakness of LISA is that it only runs pre-defined reports, and you would extract the data in excel if you want to do extra processing/calculations on the test data. With above persisting, we find it almost impossible to get the test results in the way we need. If we us to tab into the test data in DB and extract them for own custom-analysis/reporting, it would added for LISA usage & adoption overall.

# CA LISA 7.5: Highlights

GA: March 3, 2014

Usability	Enhancements	Innovations
<b>ROLE BASED EASE OF USE</b>	<b>CUSTOMER DRIVEN</b>	<b>NEW FEATURES</b>
<ul style="list-style-type: none"><li>▪ VSEasy</li><li>▪ Eclipse Integration</li><li>▪ Connection Assets</li><li>▪ LISA Invoke 2.0</li><li>▪ Virtual Service (VS) Grouping</li><li>▪ Auto VS Gen for POJOs/EJBs</li><li>▪ Virtual Service Playback Agent</li><li>▪ Properties Panel Docking &amp; Organization</li><li>▪ and more...</li></ul>	<ul style="list-style-type: none"><li>▪ LISA Agent Calibration</li><li>▪ Enterprise Dashboard Current &amp; Historical Reports</li><li>▪ SAP Test and Virtualization</li><li>▪ TIBCO Monitor Queue</li><li>▪ Mainframe CICS LU 6.1/6.2</li><li>▪ iSeries JCA Virtualization</li></ul>	<ul style="list-style-type: none"><li>▪ Web UI Testing</li><li>▪ LISA Test for Mobile</li><li>▪ LISA MobileCloud</li><li>▪ LISA CloudTest</li></ul>

# Usability:

## Role Based Ease of Use

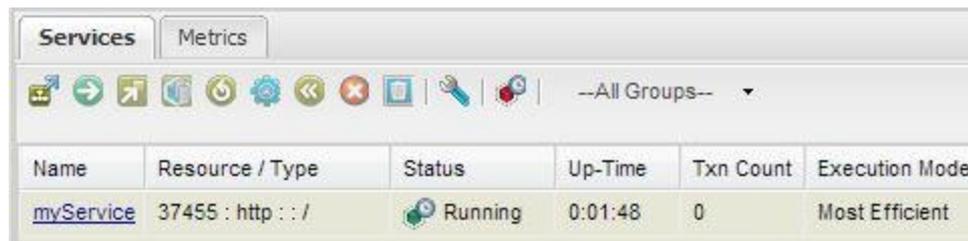
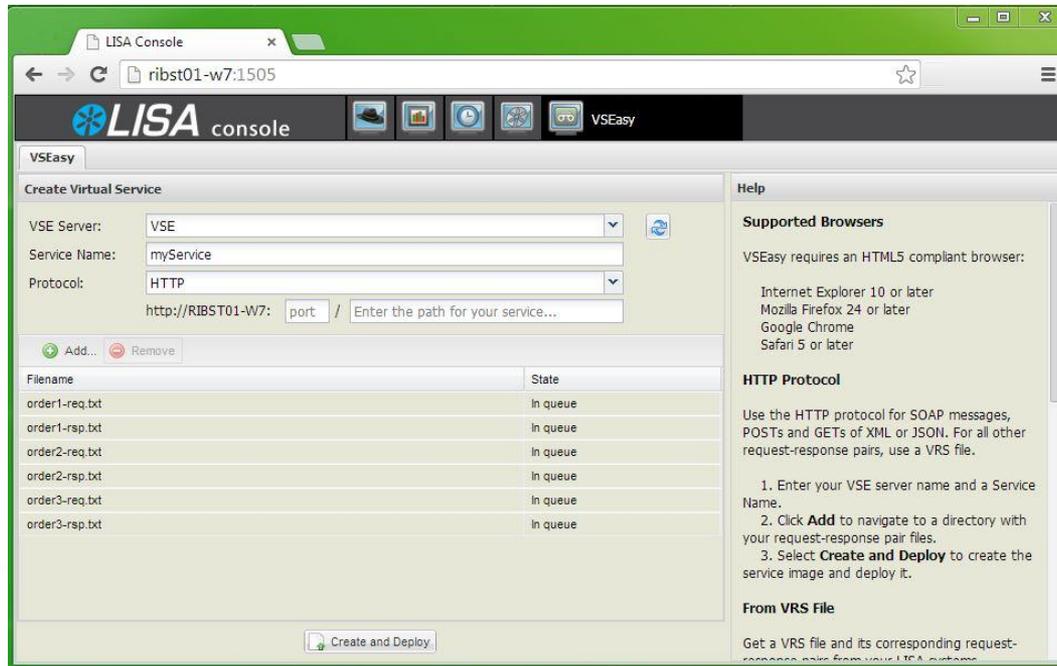


# VSEasy

## Quickly Create and Deploy a Virtual Service from Web Browser

Enable developers, QA or any personnel requiring a quick virtual service to create and deploy themselves.

No need to install or know how to run LISA Workstation. Just upload an existing VSE Recorder Session file (VRS) or a set of matching request/response pairs and click "Create and Deploy"

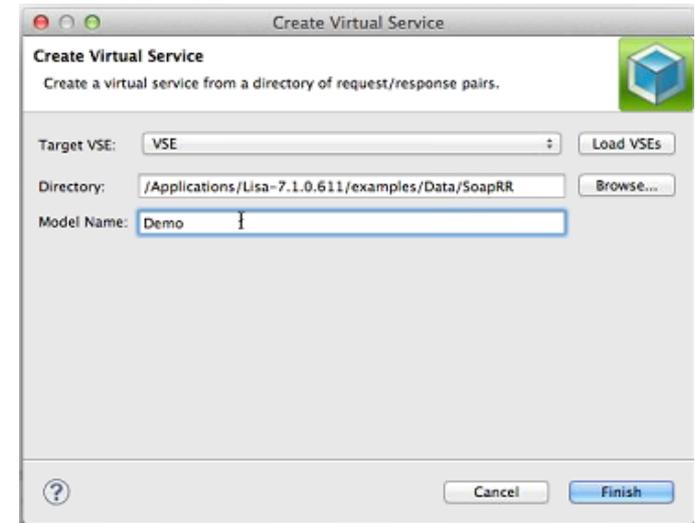


# Eclipse Integration

## Quickly Create and Deploy a Virtual Service from Eclipse

Integration into the developers typical workflow enabling users to create, edit and deploy virtual services from within Eclipse

- **Drag and drop** deployment of one or more **MAR files** or full directory of **Request/Response pairs** from Eclipse Package Explorer to a running Virtual Service Environment (VSE)
- Automatic virtual service create and deploy like VSEasy from Eclipse
- Properties view integration to edit Virtual Service Properties like capacity or think scale from within Eclipse

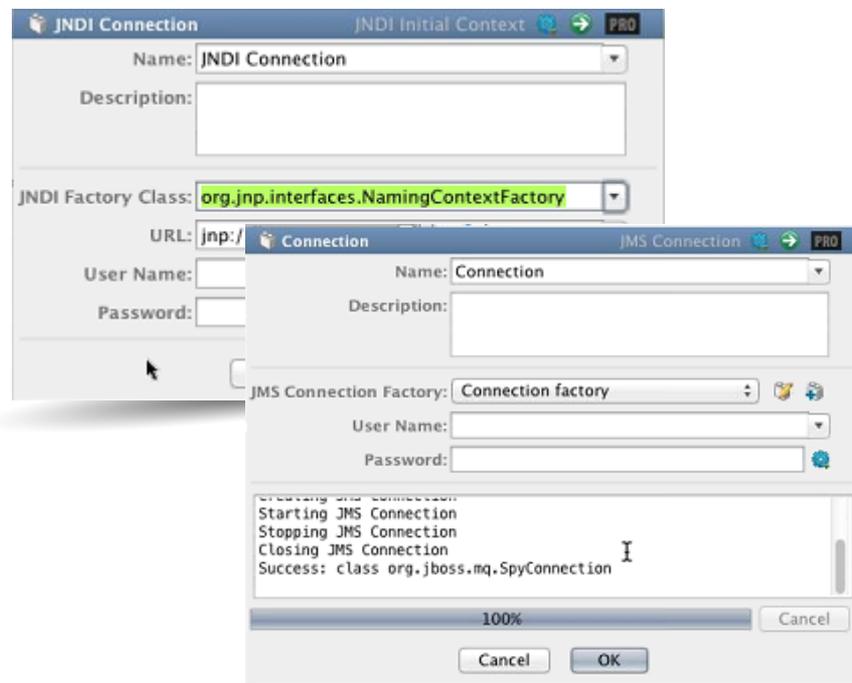


Name	Resource	Status	Auto	Capacity	Think Scale	Transactions	Errors	Exec Mode
▼ VSE								
WebServicesModel	8001:http://itk...	Running	Yes	1	100	0	0	Most Efficient
DatabaseModel	2999:lisasim://...	Loaded	Yes	1	100	0	0	Most Efficient
kioskV6	8001:http://itk...	Running	Yes	1	100	0	0	Most Efficient
AutoGenService-42EDB7408DBC11E3B5ECAB20660FC44C	19911:http://	Running	Yes	1	100	0	0	Most Efficient
▼ VSE2								
kioskV6	8001:/itkoExa...	Ended	Yes	1	100	59	59	Most Efficient
VSETutorial	8002:/itkoExa...	Running	Yes	1	100	0	0	Most Efficient
DatabaseModel	lisasim://localh...	Loaded	Yes	1	100	0	0	Most Efficient

# Connection Assets

## Simplified Virtual Service and Test Creation for Teams with Shared Resources

- Allows environment expert to setup test lab connections that are leveraged by rest of the team across multiple iterations
- Support for JMS, JNDI, MQ, TIBCO, SAP & Mobile Connections
- Reduces the number of fields users need to fill in to set up a test or create a virtual service – leaves the connection or external resource work up to an administrator to do ahead of time



- Assets are reusable by sharing a project config
- When creating Assets, Admins can test the config prior to sharing with the team for use in a test step or virtual service
- Admins can generate assets from old steps to begin using them right away
- PRO button enables advanced fields for fine-grained control over the operation of the asset

# CA LISA Invoke 2.0

Enabling Integration with CA LISA from other CA and 3<sup>rd</sup> Party Applications

Invoke 2.0 is a new proper, well-formed REST interface for invoking CA LISA from another application.

Regular HTTP Verb support (GET, PUT, DELETE, POST) and complete documentation and ability to test calls via Swagger UI

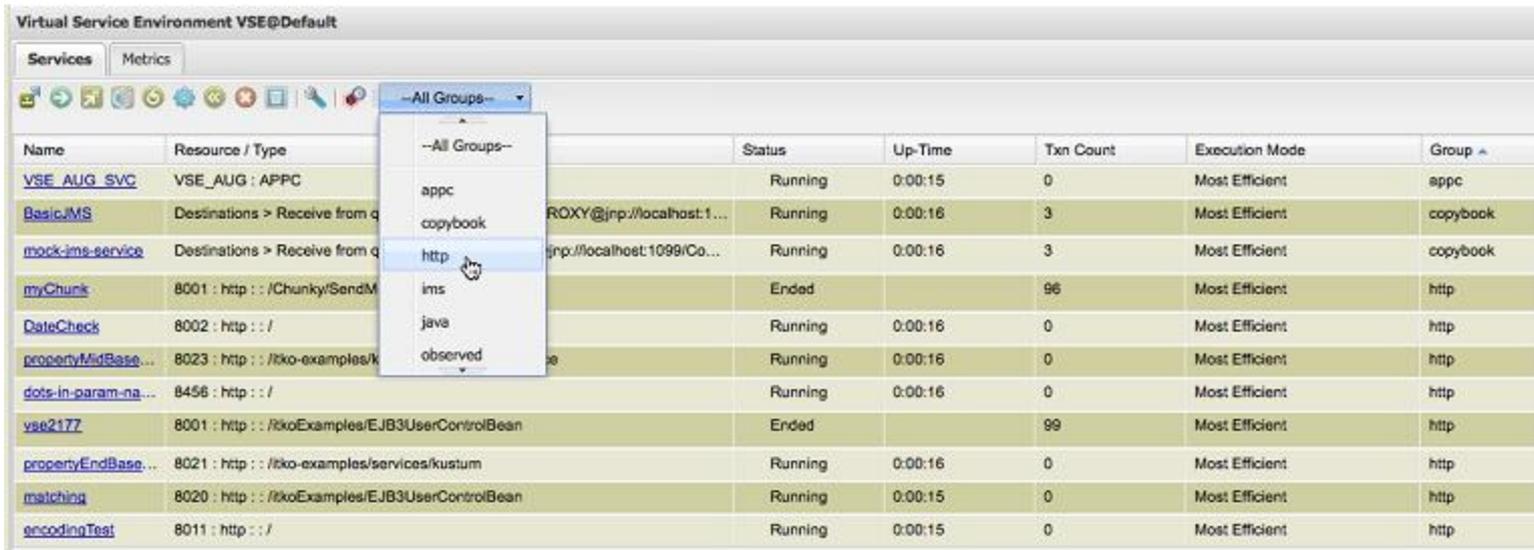
Method	Endpoint	Description
DELETE	/VSEs/{serviceName}	stops a VSE from DCM
GET	/VSEs/{serviceName}	Gets the VirtualServiceEnvironment by name.
GET	/VSEs/{serviceName}/{virtualServiceName}	gets information about a specific virtual service that is running.
DELETE	/VSEs/{serviceName}/{virtualServiceName}	deletes the virtual service from the server.
PUT	/VSEs/{serviceName}/{virtualServiceName}	set service execution mode
GET	/VSEs	Gets the vse VirtualServiceEnvironment list.
POST	/VSEs/{serviceName}/actions/createService	create a virtual service by the upload zip file
GET	/VSEs/{serviceName}/{virtualServiceName}/sessions	Get session info list for the specific VSE and virtual service.

Invoke 2.0 used by VSEasy, Eclipse Integration and CA LISA Release Automation

# Virtual Service Grouping

## Easily Group Virtual Services for Customized Views

- Group Virtual Services by team or common thread to enable easier view in LISA Server Console, especially when there are 100's of Virtual Services deployed at once
- Sort or Filter by Group
- Tag a Virtual Service with a Group at VS Deploy or Enter/Edit it after it is deployed



The screenshot displays the 'Virtual Service Environment VSE@Default' interface. It features a table of services with columns for Name, Resource / Type, Status, Up-Time, Txn Count, Execution Mode, and Group. A dropdown menu is open over the table, showing a list of groups: --All Groups--, appc, copybook, http, ims, java, and observed. The 'http' group is currently selected.

Name	Resource / Type	Status	Up-Time	Txn Count	Execution Mode	Group
VSE_AUG_SVC	VSE_AUG : APPC	Running	0:00:15	0	Most Efficient	appc
BasicJMS	Destinations > Receive from q...	Running	0:00:16	3	Most Efficient	copybook
mock-ims-service	Destinations > Receive from q...	Running	0:00:16	3	Most Efficient	copybook
myChunk	8001 : http : /Chunky/SendM...	Ended		96	Most Efficient	http
DateCheck	8002 : http : /	Running	0:00:16	0	Most Efficient	http
propertyMidBase...	8023 : http : /tko-examples/k...	Running	0:00:16	0	Most Efficient	http
dots-in-param-na...	8456 : http : /	Running	0:00:16	0	Most Efficient	http
vse2177	8001 : http : /tkoExamples/EJB3UserControlBean	Ended		99	Most Efficient	http
propertyEndBase...	8021 : http : /tko-examples/services/kustum	Running	0:00:16	0	Most Efficient	http
matching	8020 : http : /tkoExamples/EJB3UserControlBean	Running	0:00:15	0	Most Efficient	http
encodingTest	8011 : http : /	Running	0:00:15	0	Most Efficient	http

# Auto Virtual Service Generation for POJOs/EJBs

## Shift-Left with Virtual Implementation

- Constraint Removal: No longer required to record Java objects to virtualize them
  - Classes are reflected to generate the virtual service from source – true contract created virtual service
  - At playback, Pathfinder intercepts application calls and auto-generates responses when the Java Object or Class is not available
- Record transactions, virtualize them later without the back-end being available
  - Similar to the current WSDL VS generation feature in LISA (hand LISA a WSDL, it generates the Virtual Service)



The screenshot shows the LISA Agent Dev Console interface. The top part displays the target application 'com.foo.examples.ejb1.EJB0UserControlBeanRemote.getUser()' and a request body: `<string>lisa_stepsone</string>`. The bottom part displays the proposed response body, which is an XML document containing user and account information. The response is highlighted in yellow.

```
1 <com.foo.examples.entity.User>
2   <login>b61zYV9aM1w29u</login>
3   <pwd>b61zYV9aM1w29u</pwd>
4   <fname>b61zYV9aM1w29u</fname>
5   <lname>b61zYV9aM1w29u</lname>
6   <email>b61zYV9aM1w29u</email>
7   <phone>b61zYV9aM1w29u</phone>
8   <son>b61zYV9aM1w29u</son>
9   <newFlag>false</newFlag>
10  <roleKey>GUEST</roleKey>
11  <__accounts>
12    <com.foo.examples.entity.Account>
13      <balance>0</balance>
14      <type>CHECKING</type>
15      <id>b61zYV9aM1w29u</id>
16      <name>b61zYV9aM1w29u</name>
17      <version>0</version>
18      <transactions class="list">
19        <com.foo.examples.entity.Transaction>
20          <date>2004-01-24 09:01:00.48 CST</date>
21          <id>b61zYV9aM1w29u</id>
22          <description>b61zYV9aM1w29u</description>
23          <checkNumber>0</checkNumber>
24          <amount>0</amount>
25          <account reference="...">
26        </com.foo.examples.entity.Transaction>
27      </transactions>
28    </com.foo.examples.entity.Account>
29  </__accounts>
30  </com.foo.examples.entity.User>
```

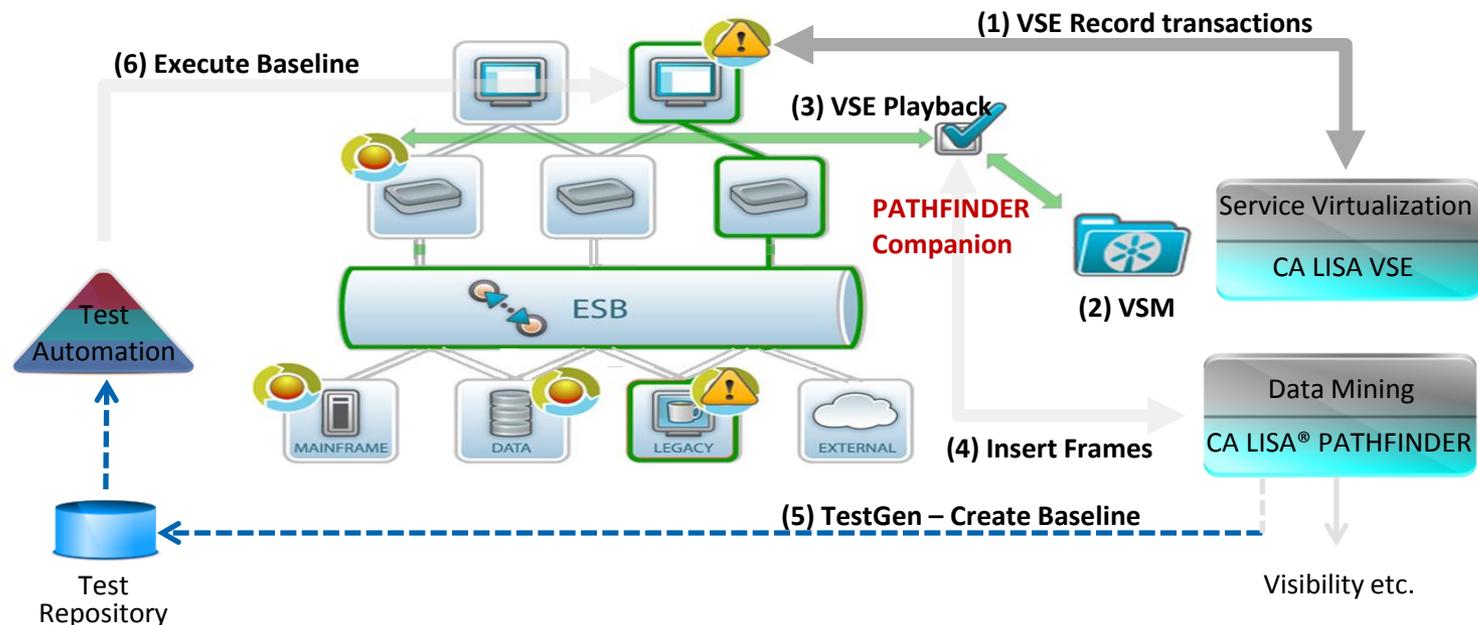
Request  
sent to LISA  
Agent

LISA Agent  
Proposed  
Response

# Virtual Service Playback Agent

## VS Traffic to Pathfinder Companion

- VSE Adapter (Companion) in playback mode captures traffic to and auto-generates test assets
- Generate web services baselines for the dependent system
  - Automatically captures the Request/Response pairs during Virtual Service playback and inserts corresponding transaction frames directly into Pathfinder.



# Properties Panel Docking & Organization

## Easier View and Use of Properties When Creating Test Cases

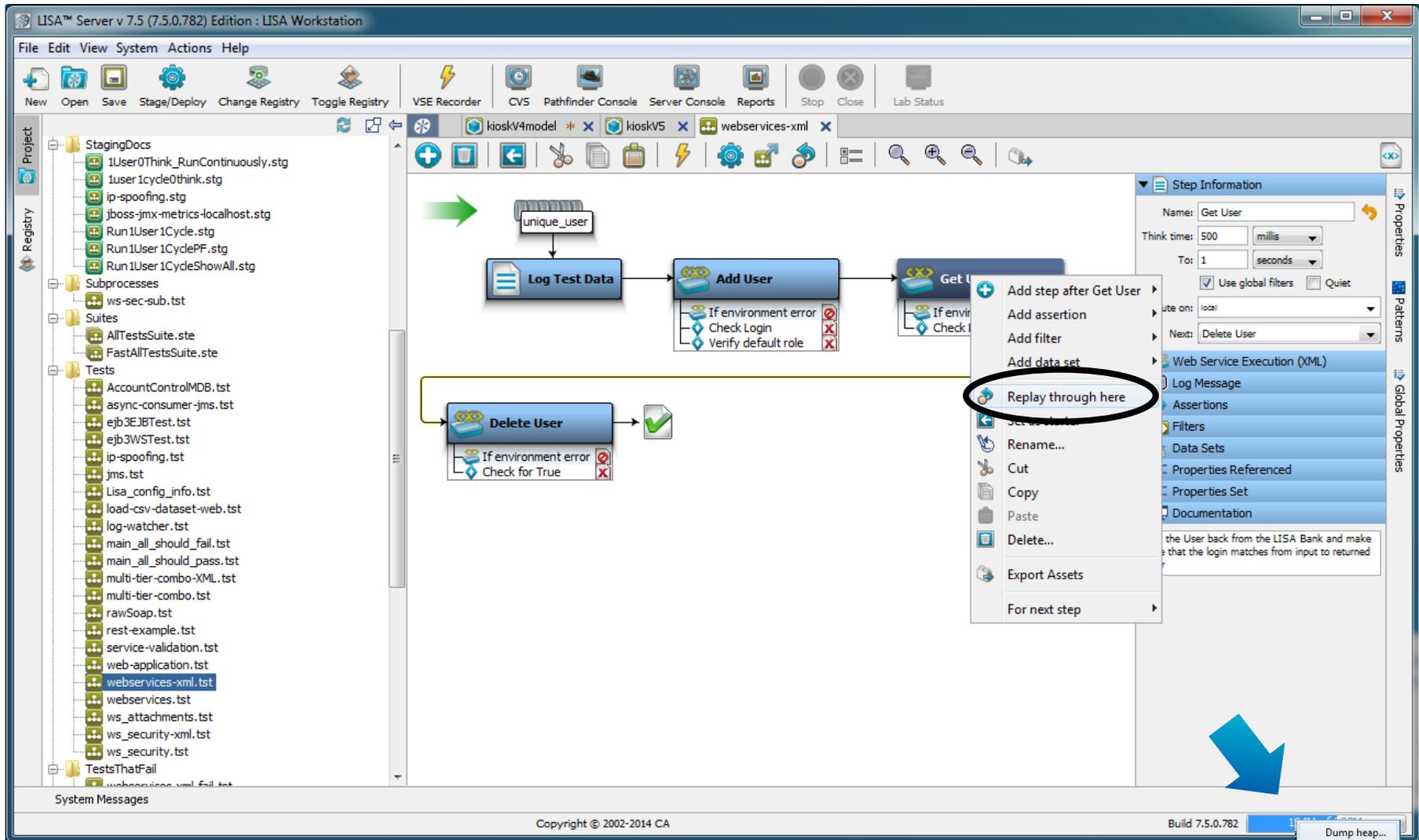
- Docking of panel to the right of test steps to keep screen clear and enable workflow
- Filter Properties by category to reduce clutter and find items more quickly
- Click Properties and add to test case

The screenshot shows the LISA test case editor interface. On the left, a workflow diagram consists of two steps: 'AddAccountCommand' and 'DeleteAccountCommand'. The 'AddAccountCommand' step has an input 'accountId' and an assertion 'If environment error accountId in response'. The 'DeleteAccountCommand' step has an assertion 'If environment error assert user deleted'. A green arrow points to the 'AddAccountCommand' step. On the right, the 'Properties' panel is docked, displaying a list of properties for the test case 'barbTest'. The 'Properties' panel has a dropdown menu set to 'All Properties' and a table with 'Key' and 'Value' columns. The table contains various system and test-specific properties.

Key	Value
DBCONNURL	
DBDRIVER	
DBNAME	
DBPASSWORD	
DBPORT	
DBUSER	
EJBPORT	1099
EJBSERVER	localhost
ENDPOINT1	http://localhost:8080/itkoExamples/EJB3...
JMICONNECTIONFACTORY	ConnectionFactory
JNDIFACTORY	org.jnp.interfaces.NamingContextFactory
JNDIPORT	1099
JNDIPROTOCOL	jnp
LIVE_INVOCATION_PORT	8080
LIVE_INVOCATION_SERVER	localhost
PORT	8080
SERVER	localhost
WSPORT	8080
WSSERVER	localhost
order.step.2.queue	queue/C
password	example-pwd
user	webapp
user_prefix	csv_userstest
LISA_PROJ_URL	file://C:/LISA/examples
LISA_DOC_PATH	C:/LISA/examples/Tests
LISA_LAST_STEP	
lisa.designtime.testcaseinfo	com.itko.lisa.editor.TestCaseInfo@9a7d52e
balance	100.00
LISA_TC_PATH	C:/LISA/examples/Tests
robot	
async.queuewrapper.control	AsyncQueueWrapperControl[Total Wrap...
LISA_PROJ_NAME	examples
LISA_HOST	lenba01-U106091
LISA_USER	Administrator
accountId	1641132693
instance	0
name	Checking Account
LISA_TEST_RUN_ID	685125DB8A9F11E3A0A8005056861916
testCaseId	685125DB8A9F11E3A0A8005056861916
LISA_TC_URL	file://C:/LISA/examples/Tests

and more...

Registry panel docking, System messages easy expand panel, Close Multiple Tabs, Memory Meter and Replay Through Step via Right-Click.



# Enhancements: Customer Driven



# LISA Agent Calibration

## Dial Up/Dial Down Recordings Based On Need

### Agent Modes/Dials

1. **Counts** – records just protocols and counts
2. **Counts & Paths** – Records information to show paths and operations; high level profiling numbers, class name, method name, basic timing info
3. **Full Data** – Full record of payload for selected protocols

### Protocols and Weights

- Supports all currently supported protocols - WS, EJB, RMI, SQL/JSBC, JCA, JMS, MQ, RCP, SAP, Tibco/WM/WPS, etc.
- Weights can be configured on a per-protocol basis

# LISA Agent Calibration

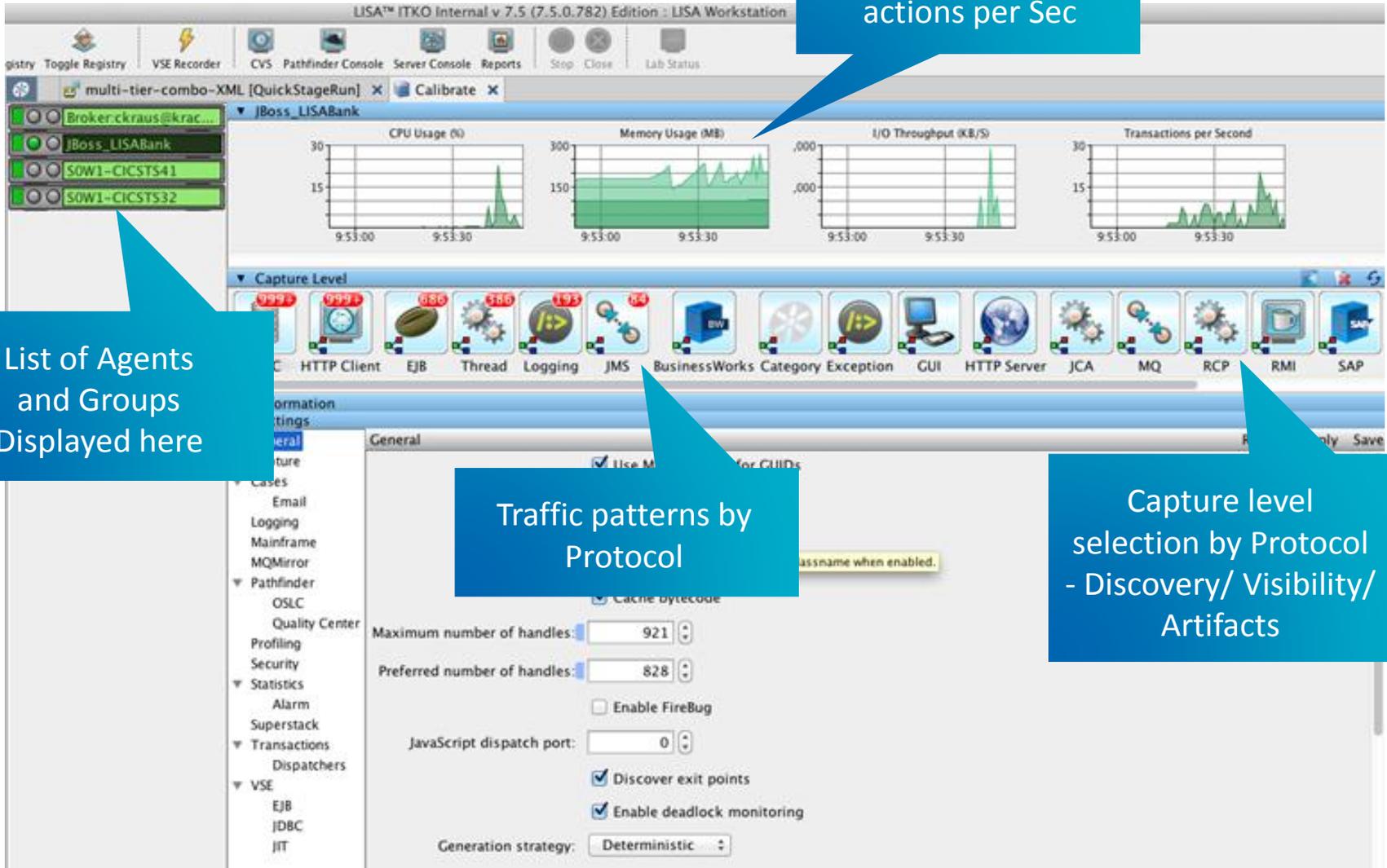
## Agent List and Protocol Configuration

Agent monitoring  
CPU/Memory/IO/Trans  
actions per Sec

List of Agents  
and Groups  
Displayed here

Traffic patterns by  
Protocol

Capture level  
selection by Protocol  
- Discovery/ Visibility/  
Artifacts



# CA LISA Enterprise Dashboard

## Easier Management Reports with Export of Current and Historical Use Data

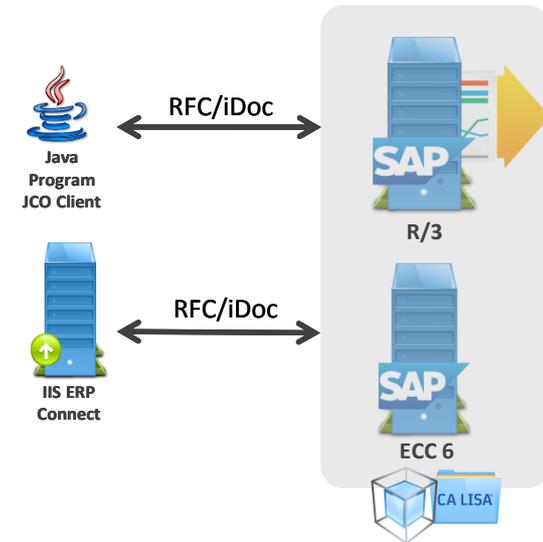
- Better Enterprise monitoring with live data from attached LISA registries
- Historical metrics that can be queried by date, time and within a range
- Ability to Export data to MS Excel (.xlsx) format for offline review
- Support for legacy registries (ones that do not hold historical data) in the dashboard
- Set more familiar registry names for easier management reporting
- Easily add new and existing Registries to the dashboard

The screenshot displays the CA LISA Enterprise Dashboard interface. At the top, there is a header with the CA Technologies logo and the text "CA LISA Enterprise Dashboard". Below the header, there is a navigation bar with a "Last Hour" dropdown menu, a date and time selector (11/22/13 9:00 AM), and a "Filter by date/time for historical information" button. The main content area is divided into several sections. On the left, there is a "Registry" table with columns for "Display Name", "Name", "Status", "Version", and "Count". The table contains two entries: "Registry@treje05-2k8-02.ca.com:3010" and "MyRegistry@treje05-2k8-02:2010". Below the table, there is a callout box that says "Can set more familiar Registry names". On the right, there is a summary grid with four columns: "Coordinators (3)", "Simulators (5)", "VSE Servers (2)", and "Labs (3)". Each column contains a grid of icons representing different components. Below the grid, there is a callout box that says "Live Data visible in dashboard for new and old registries". At the bottom of the dashboard, there is a footer with the text "Page 1 of 1" and "Displaying 1 - 2 of 2".

Registry	Display Name	Name	Status	Version	C
	Registry@treje05-2k8-02.ca.com:3010	tcp://treje05-2k8-02.ca.com:3010/Re...	Running	7.5 (7.5.0.288)	3
	MyRegistry@treje05-2k8-02:2010	tcp://treje05-2k8-02:2010/Registry	Running	7.5 (7.5.0.288)	1

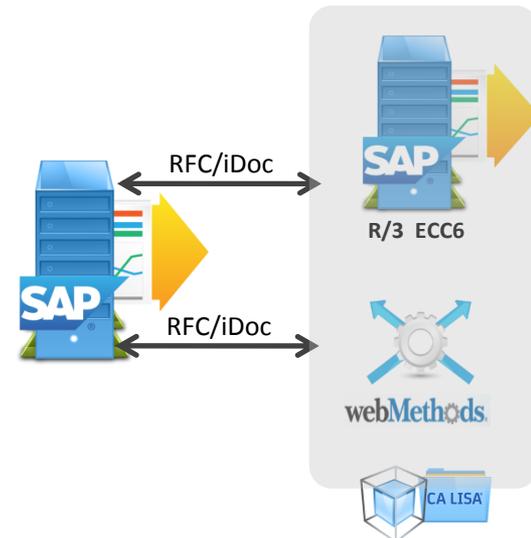
## SAP Support: LISA 7.1

- SAP is the dependent system.
- CA LISA can be used to simulate needed SAP environments
- Java and ERP Connect clients
- Support for both LISA Test and SV



## SAP Support: LISA 7.5

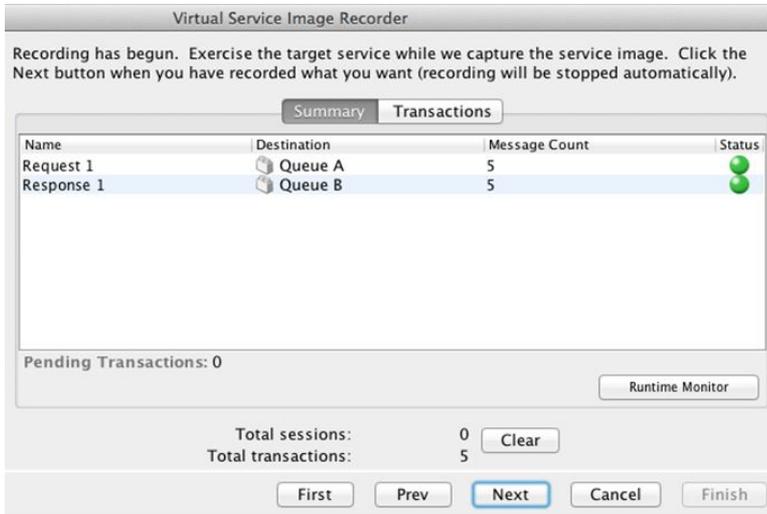
- SAP is the System Under Test.
- CA LISA can be used to simulate needed SAP to SAP communications
- Support for both RFC and iDocs



# TIBCO Monitor Queue

## New Connection Asset

- First virtual service recording based on New Connection Assets
- Allows customer to create virtual services without proxy queues or changing end points in the application



Virtual Service Image Recorder

Recording has begun. Exercise the target service while we capture the service image. Click the Next button when you have recorded what you want (recording will be stopped automatically).

Summary Transactions

Name	Destination	Message Count	Status
Request 1	Queue A	5	
Response 1	Queue B	5	

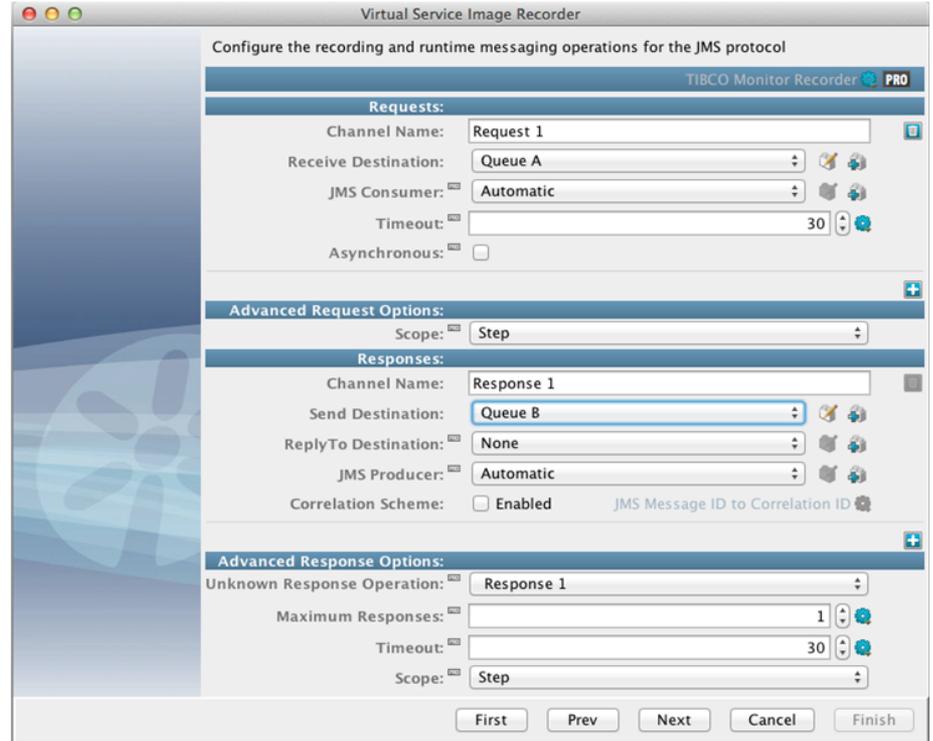
Pending Transactions: 0

Runtime Monitor

Total sessions: 0 Clear

Total transactions: 5

First Prev Next Cancel Finish



Virtual Service Image Recorder

Configure the recording and runtime messaging operations for the JMS protocol

TIBCO Monitor Recorder PRO

Requests:

Channel Name: Request 1

Receive Destination: Queue A

JMS Consumer: Automatic

Timeout: 30

Asynchronous:

Advanced Request Options:

Scope: Step

Responses:

Channel Name: Response 1

Send Destination: Queue B

ReplyTo Destination: None

JMS Producer: Automatic

Correlation Scheme:  Enabled JMS Message ID to Correlation ID

Advanced Response Options:

Unknown Response Operation: Response 1

Maximum Responses: 1

Timeout: 30

Scope: Step

First Prev Next Cancel Finish

# Mainframe Virtualization Enhancements

- CICS LU 6.1 and 6.2 support: virtualizing LU 6.2 verbs (DTP Commands)
- IMS Connect Enhancements
  - Set code page at Model Level vs. VSE Server level: Selection of ASCII or EBCDIC during VS Recording
  - Supports customizing operation names (OTMA + User Specification)
- Mainframe Console integrated into the LISA Server Console

**List of Connected Agents**

Refresh | Auto Refresh | 5 seconds

Link ID	Sys ID	Appl ID	Job Name	LPAR	IP Address	Port	Agent Vers...	CICS Version	Start Date	Start Time
7702	S650	CICSTS32	CICSB	S0W1	192.86.32.105	1083	070500	030200	14/02/2014	06:20:44
7702	S660	CICSTS41	CICSA	S0W1	192.86.32.105	1082	070500	040100	14/02/2014	06:52:45

**Status** | Programs

**Agent Properties**

Refresh | Auto Refresh | 5 seconds

Event Counts				Program List Size			
Recording	Playback	Pathfinder	Other	Total	Recording	Playback	DTP
738	21	0	0	1	0	1	0

Keyword | Value

**CICS Info**

**Status** | **Programs**

**List of Virtualized Programs**

Reset Programs | Refresh | Auto Refresh | 5 seconds

Link ID	Sys ID	Program	Type	Mode	
<input type="checkbox"/>	7702	S660	DEMOGETN	LINK	Playback

# iSeries JCA Virtualization

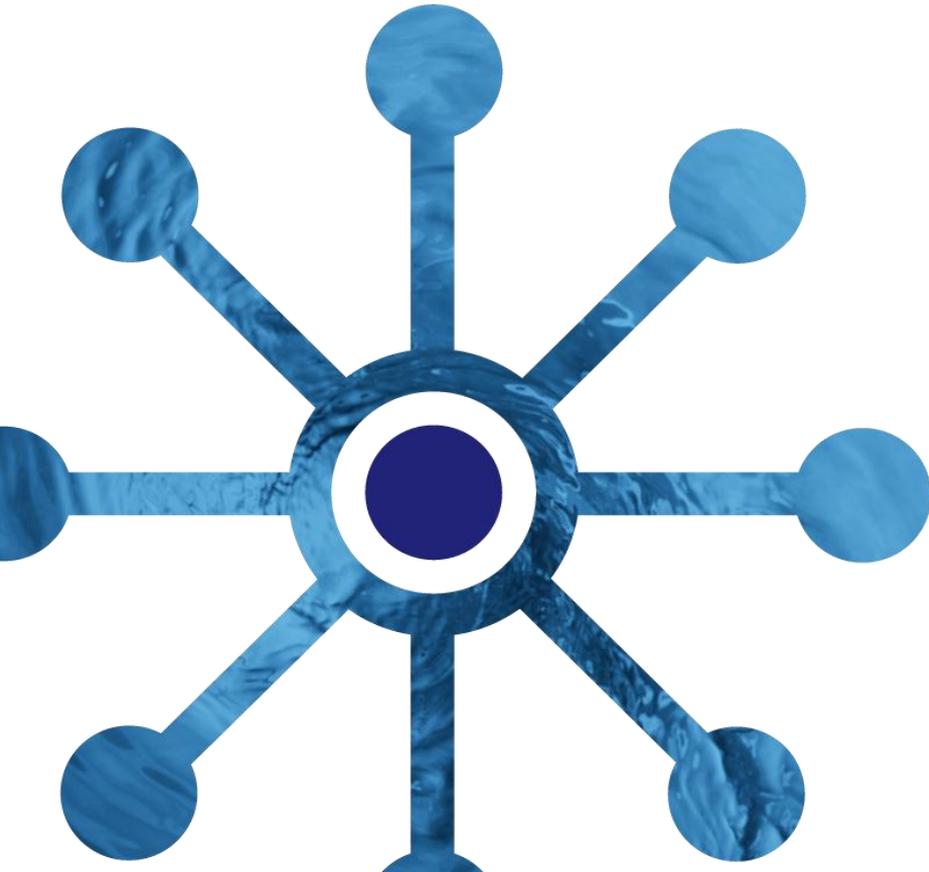
- If you have a JCA iSeries adapter in your application, we can capture that traffic with Pathfinder to virtualize the adapter
  - JCA Layer is generic / binary data, Pathfinder will check at a higher level to capture any human-readable data



```
Paths Component Details Statistics
Base Info Log Messages Request Response XML
<com.ibm.ws.box.bomodel.impl.BusinessObjectImpl>
  <p:ADD2NUMADD2NUM xmlns:p="http://www.ibm.com/xmlns/prod/1
    <GET1>2</GET1>
    <GET2>3</GET2>
    <GET3>0</GET3>
  </p:ADD2NUMADD2NUM>
</com.ibm.ws.box.bomodel.impl.BusinessObjectImpl>
```

```
Paths Component Details Statistics
Base Info Log Messages Request Response XML
<com.ibm.ws.box.bomodel.impl.BusinessObjectImpl>
  <p:ADD2NUMADD2NUM xmlns:p="http://www.ibm.com/xmlns/prod/we
    <GET1>2</GET1>
    <GET2>3</GET2>
    <GET3>5</GET3>
  </p:ADD2NUMADD2NUM>
</com.ibm.ws.box.bomodel.impl.BusinessObjectImpl>
```

# Innovations: New Features



# CA LISA Web UI Test

## Import of Selenium Tests for Further Manipulation in CA LISA

Support for Web UI Testing with Selenium Builder

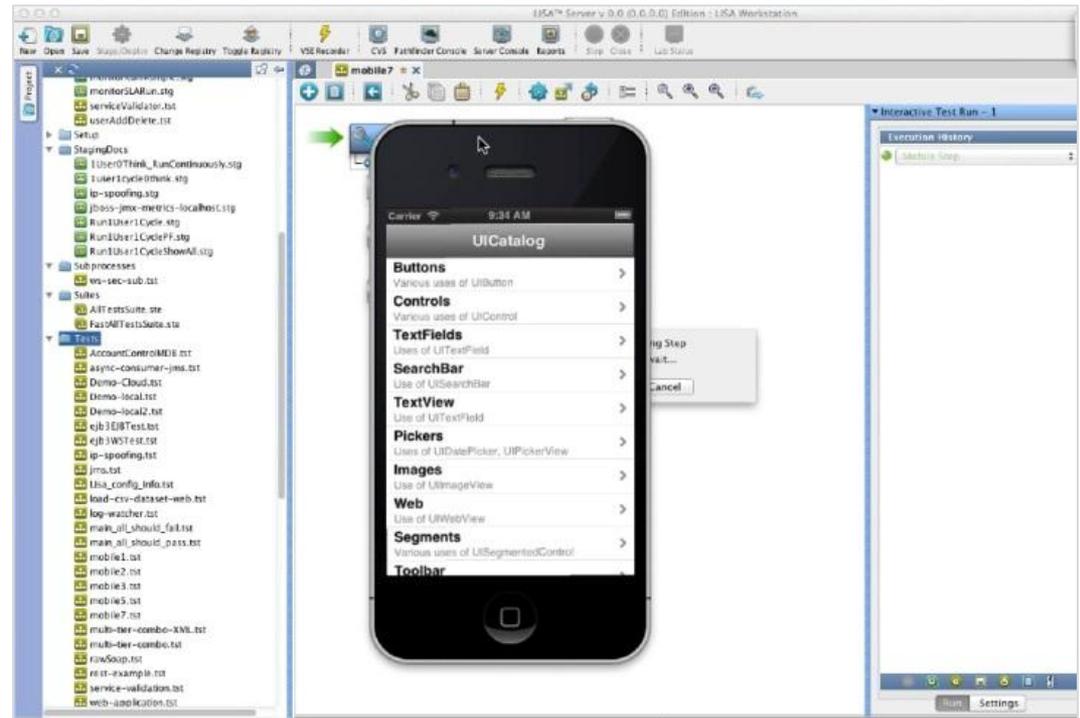
Build your test in Selenium2 using the Selenium Builder browser plugin, export test to JSON and import into CA LISA

Invoke and verify the user interface to backend systems of record



# CA LISA Test for Mobile

- Leverages LISA Test framework
- Support for iOS and Android platform
- Device support
  - Use local Simulator
  - Standard USB connectivity to real device
  - Use emulated devices in the Cloud



- Generate test cases using visual recorder for devices local or remote
- Reuse tests across different mobile devices
- Reuse tests across simulators or real devices local or in cloud
- For situations where 100s of OS and platform versions needs to be tested, LISA Mobile Tests also runs with Sauce LABS

# CA LISA MobileCloud\*

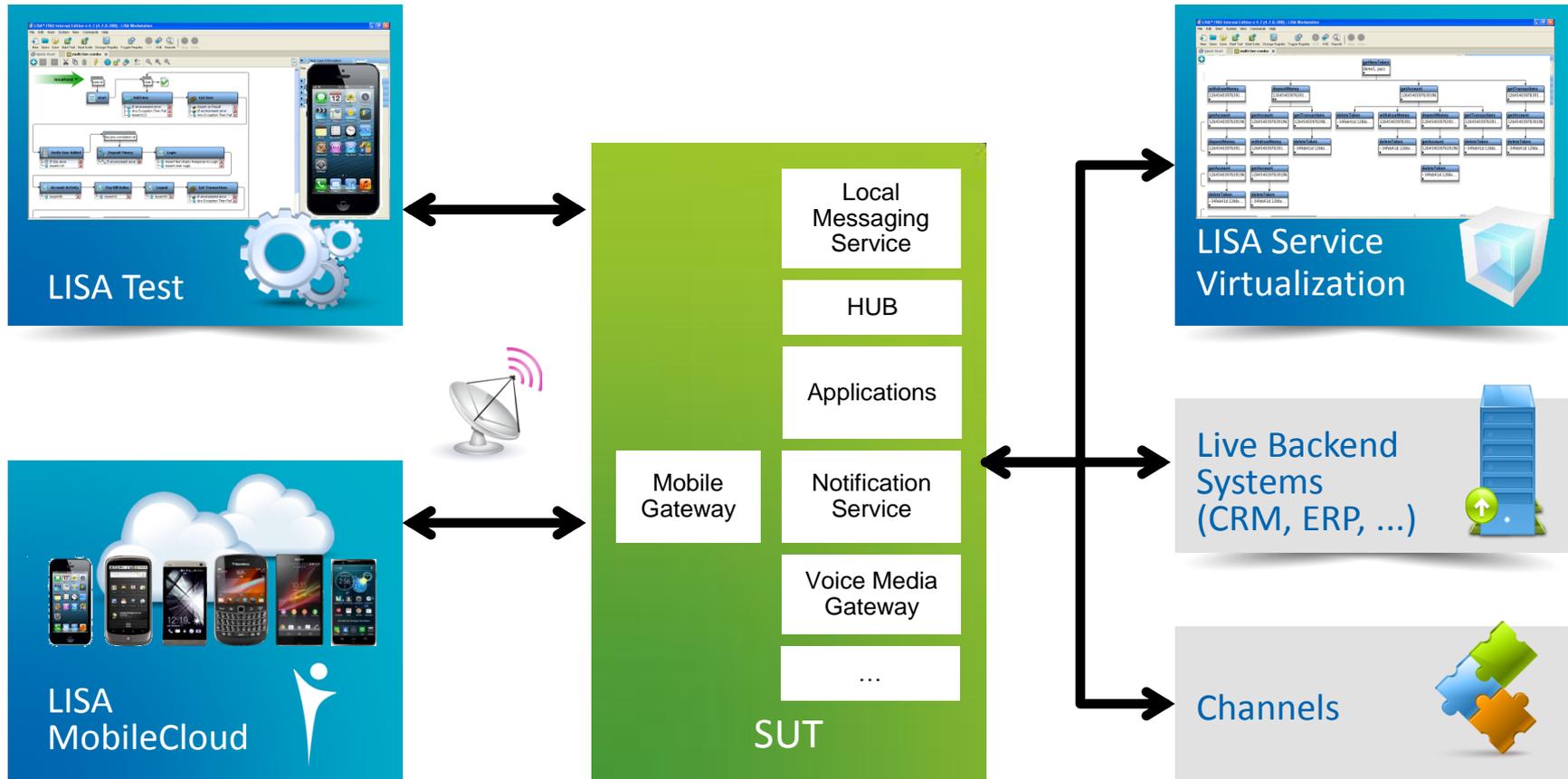
- Accessible from any location
- Highly scalable, Hosted Deployment
- Unlimited scalability to hundreds of devices at multiple supported locations around the globe
- Functionality include
  - Device reservations
  - ScriptOnce Automation
  - 24 X 7 premium Support
  - Open REST based API for additional integrations
  - Access to hundreds of ready-made device templates on-demand
- SaaS offering
  - MobileCloud Host: per Pack (includes 4 Device Cradles, 4 floating licenses for 1 Cloud instance)
  - MobileCloud Device: for each additional Device



*\*Indicates separate product - functionality is not included in the core CA LISA Service Virtualization license.*

# LISA Test, Mobile Cloud & Service Virtualization

## Isolate Mobile Backend For Complete Functional Testing



# CA LISA CloudTest\*

## Load Testing for Today's Pace and Complexity

- Build, execute, and analyze performance tests on a single, powerful, intuitive platform
- Plug into your existing external cloud providers with Global reach or use on an internal private cloud



\*Indicates separate product - functionality is not included in the core CA LISA Service Virtualization license.

# Questions and Answers



# Feedback and Questions



The CA LISA Global User Community

<https://communities.ca.com/web/ca-lisa-application-delivery-global-user-community/welcome>

+ MyCA Welcome + **Communities** + Support + Projects

Welcome **Message Board** Ideas Calendar Documents Members Administration

Message Board

Message Board CA LISA Global User Community

Message Boards Home Recent Posts My Posts My Subscriptions

Category	Categories:	Threads	Posts
<b>LISA General Discussion</b> Subcategories: CA Service Virtualization (VSE, Test), Data Mining/ Datafinder, Data Mining/ Pathfinder, Network Virtualization	4	49	165
<b>LISA Tech Tips</b> Technical tips, best practices and tools from the CA LISA team.	0	1	2
<b>Tools and Extensions</b> Discuss the tools used for support, management and maintenance provided by CA and the community. Also includes sharing of extensions.	0	1	1
<b>Webcast Archive</b>	0	5	5

# Ideas and Enhancement Requests

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**CUSTOMIZED LISA REPORTS**  
March 5, 2014 Posted By [prachikasar62351541](#) Status : New

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**CUSTOMIZED LISA REPORTS**

Currently, one of the weakness of LISA is that it only runs pre-defined reports, and you would extract the data in excel if you want to do extra processing/calculations on the test data. With above persisting, we find it almost impossible to get the test results in the way we need. If we us to tab into the test data in DB and extract them for own custom-analysis/reporting, it would added for LISA usage & adoption overall.

Thank you

You may now disconnect

