DevTest - CA AppTest/CA SV

Roadmap and Vision

Rick Bansal
Senior Principal, Product Management

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Agenda

1. **DEVTEST (SV/APPTEST) OVERVIEW**

2. **OVERALL STRATEGIC THEMES/GOALS**

3. **DEVTEST 10.0**

4. **THE NEAR FUTURE AND THE ROAD AHEAD**

5. **Q&A**

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CA Service Virtualization and Testing Solution (SV&T)

DevTest

Industry leading foundation for companies to design, develop and release software with greater agility and higher quality

CA APPLICATION TEST

Allows for all types of testing of multi-tiered architectures at any layer

CA SERVICE VIRTUALIZATION

Allows for Constraint-free Development and Testing of Software

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Strategic Themes

INNOVATION
New Customers and Markets

EASE OF USE
Intuitive and Simple Workflows

ENTERPRISE SCALE
Manage Total Cost of Ownership

VALUE DRIVERS

Intra-BU Product Integration
TDM/ARD/BlazeMeter Integrations

Integration APIs for CRUD
Allow Developers/QEs to Move Faster and Create Custom Integrations

Integration with Developer Tools
IDE Plug-ins, In-memory/Self-Contained VS ("as code")

Vertical Solutions Expansion
SAP, SFDC, …

Simplified User Experience
Persona Based UI to Meet Needs of Workflows with Different Levels of Complexity

CD/CI Pipeline Integration
Plug-ins for CI/CD Tools (Jenkins, Gradle, TeamCity, …)

Try and Buy
Standalone Trial Version of SVT

Enterprise Service Catalog
Enabling COE and Sharing in Dev & Test

Enterprise-Class Management
Access Controls, Security, Clear ROI Reporting, License Management, Resource Management

Packaging for Cloud
Docker, AWS, Azure

Seamless Migration Path
Individual → Work Group → Enterprise

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DevTest 10.0

GA: December 16th

Major Features/Enhancements

Definition and MVP for SV Express

ARD/AppTest Integration

Support for Additional Data Protocol Handlers

Improved UX

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Features in 10.0

FEATURE NAME	FEATURE DESCRIPTION
SV: Create Tests from an Existing Virtual Service	Enables creating an AppTest baseline test case from an existing service.
SV: RR Pair Creation	Create virtual services and base line test cases directly from RR pairs in the Portal.
SV: Create Automation APIs for VS - SWAGGER 2.0	Enhanced Swagger 2.0 compliant Integration API to allow for the creation/configuration/maintenance of virtual services and test cases
SV: Create Virtual Service from WSDL	Create virtual services from a WSDL specification in the Portal
SV: Virtual Service Matching Information in Portal	Enhanced inspection view within the Portal of transactions processed by the VSE.
SV: Virtual Service Configuration	Enables the "reconfiguration" (e.g., base path, port number, name, …) of an existing virtual service directly from the Portal. Eliminates the need to open the VSM in the Workstation.
SV: Create Virtual Service from SWAGGER 2.0 Specification	Full support for creating virtual services from a Swagger 2.0 design spec (Workstation only)
APT: Swagger 2.0 Import Wizard to Create API Tests	Enables creation of AppTest test cases from a Swagger 2.0 design spec (Workstation only)
APT: Swagger 2.0 Bulk Import to Create API Tests	Enables creation of AppTest test cases from multiple Swagger 2.0 design specs (Workstation only)
APT: Swagger 2.0 Sample Data Import to Drive API Tests	Enables creation of data sets from a Swagger 2.0 design spec (Workstation only)
MF: Add Support for CTG 9.2 and Below	Update our support for CTG to 9.2.
MF: AppTest Support For CICS in Portal from Capture	Create AppTest test cases directly from the CICS agent capture data. Invoke
MF: Add Transaction List to Copybook Mapping Tab	Usability enhancement when using the copybook payload.

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Portal and Workstation Enhancements

Create Tests from an Existing Virtual Services

- Create baseline tests without having to re-record.

- Ensure consistent data scenarios between Virtual Services and Baseline tests
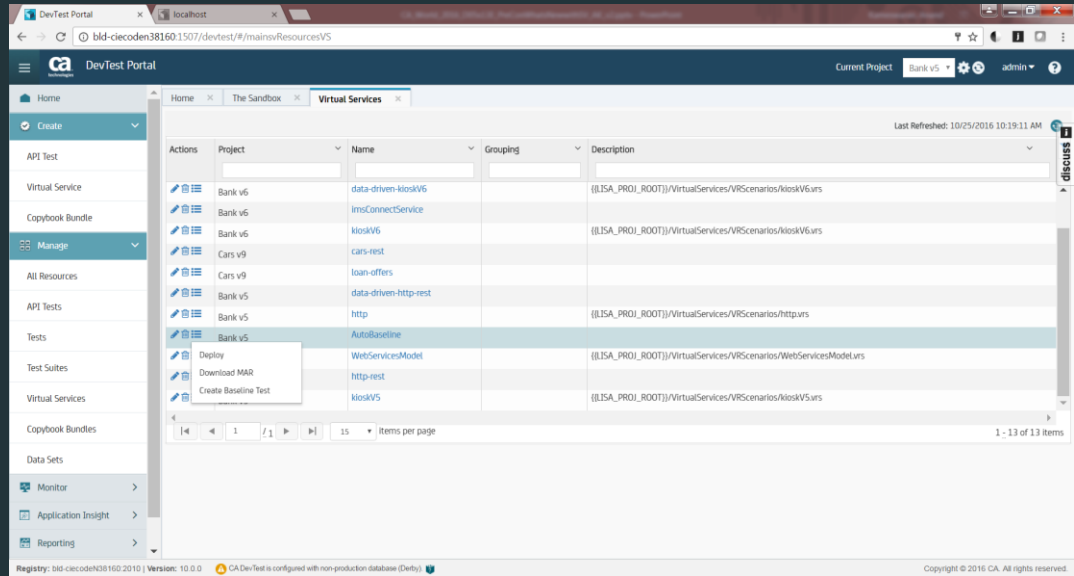
Create Virtual Services from WSDL in the Portal

- Enables customers to create virtual web services when recording is not an option or not preferred.

- Exposing the functionality through portal makes it easier to onboard additional users and virtual services without needing a workstation environment

Service Configuration

- Eliminates the need to re-record transactions to change virtual service behavior

- Enables reconfiguration of HTTP Transport Protocol settings in the portal

- Editing and enhanced visibility into Data Protocol Handlers makes creating and maintaining virtual services easier than ever
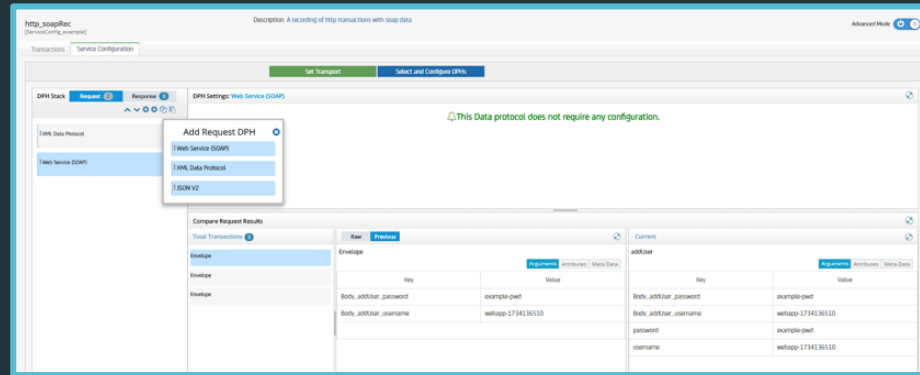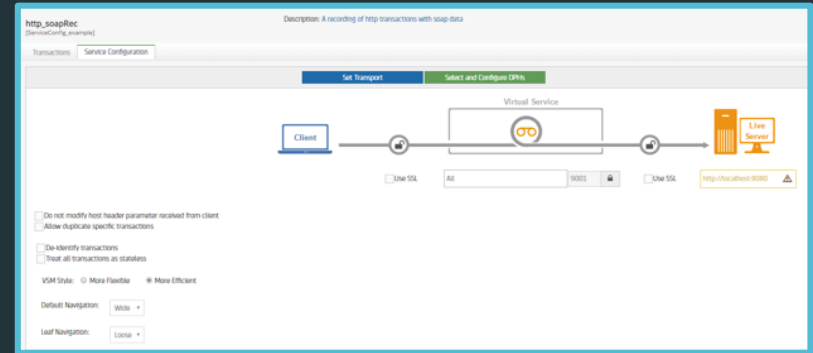
Create from RR Pairs

- Improved workflow enables changing transport settings at creation time

- RR Pair based services are now automatically placed into projects and available for subsequent editing

- Add, edit and remove request response pairs as needed

- Pick up where you left off with resume creation capabilities

- Auto-generate Baseline Test Cases
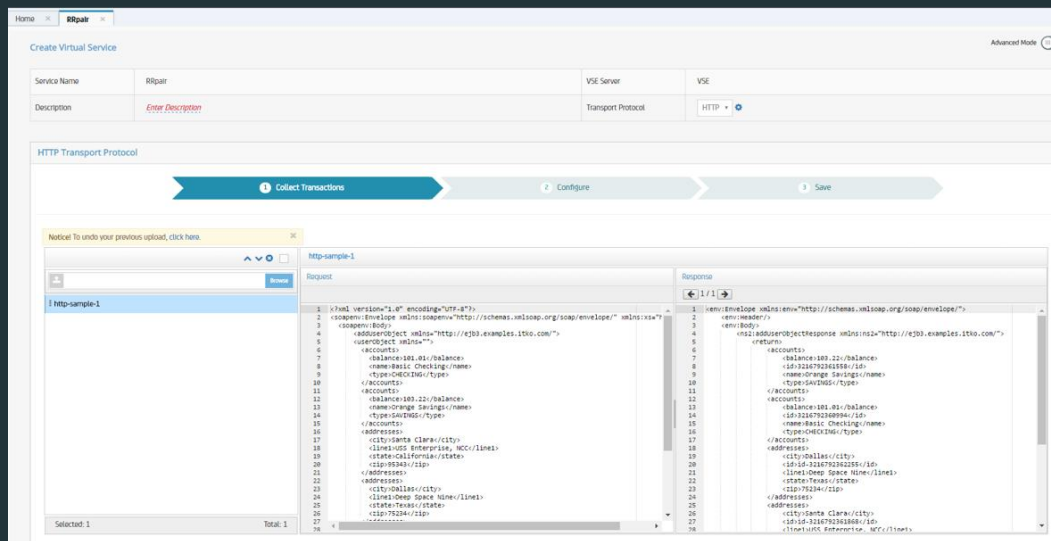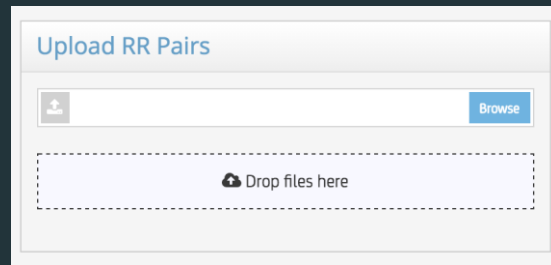
Improved Inspection View

- Simplifies understanding "what" happened for requests and responses in the VSE

- Puts the most relevant information front and center in inspection view
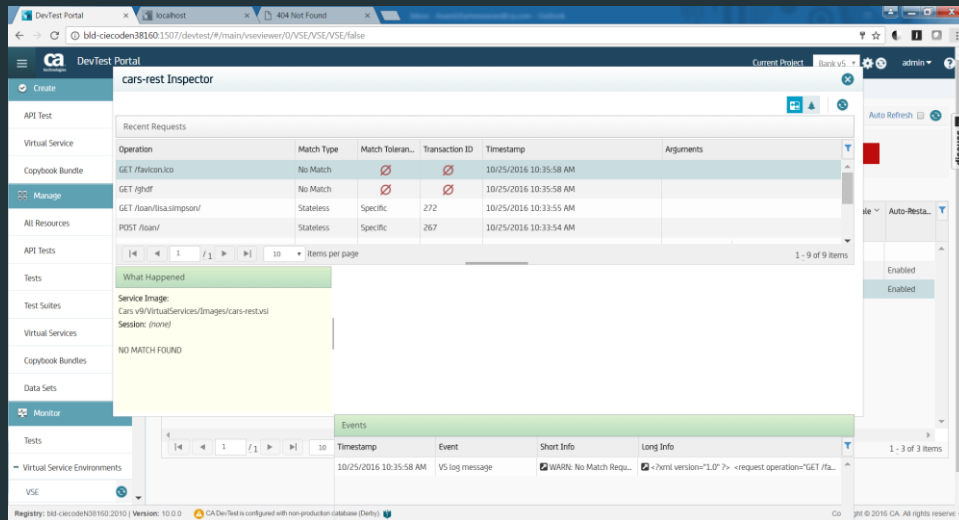
Create Virtual Services and Tests from Swagger 2.0

- Create REST based virtual services and test cases using SWAGGER 2.0 specifications

- Supports parallel development enabling clients to test before the actual service is implemented

Mainframe Enhancements

Mainframe – CICS Program Visibility

Single User
Interface for
Mainframe CICS
Recording and
Playback

Create Virtual Services and Tests CICS Programs in the DevTest Portal

- Record CICS Programs via familiar screens in the DevTest Portal

- Validate and select your CICS Agent and CICS Copybook all one UI
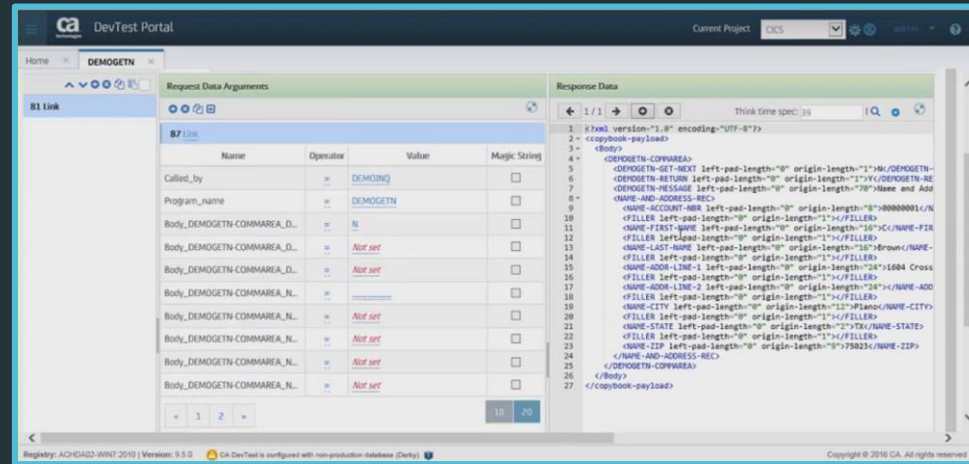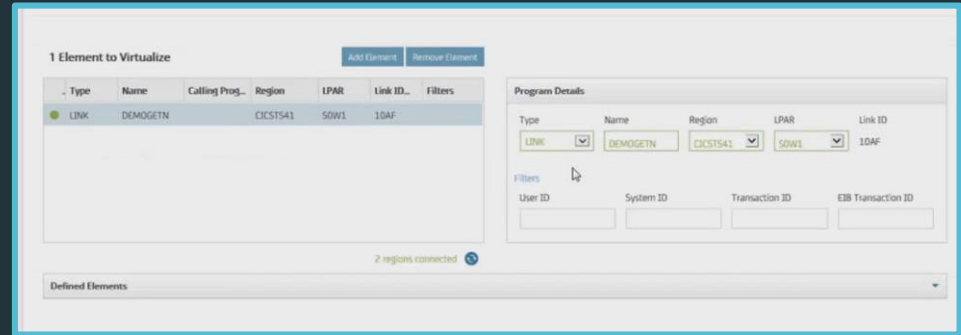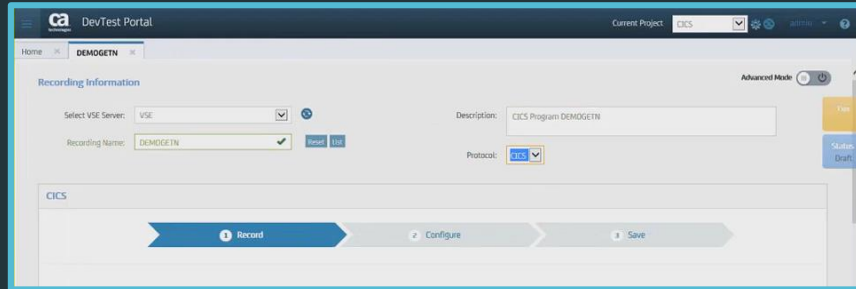
Automation

Integration API - Create/Edit Virtual Services

- Enables developers/QA/QE engineers to automate the creation and editing of virtual services using a REST based API

- Easy integration from any CI tool

- Uses SWAGGER 2.0 to define the API to support rapid prototyping and stubbing
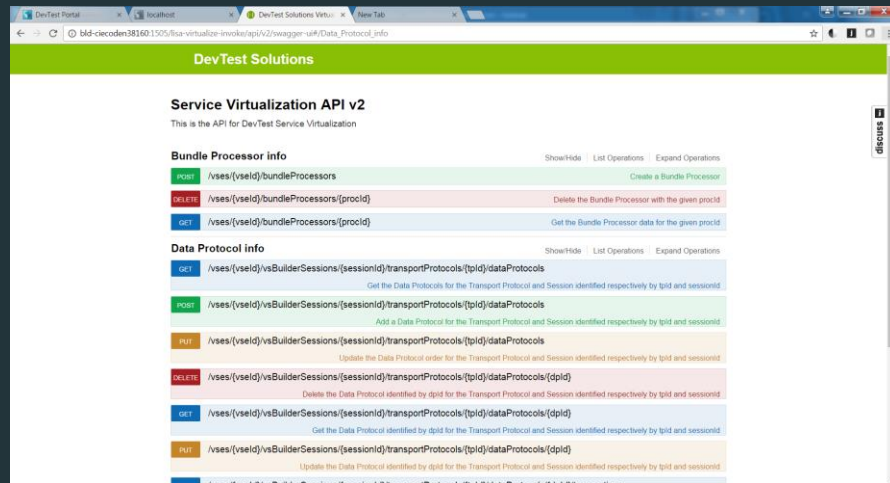
The Near Future

DevTest 10.1 Major Features/Enhancements
GA: April 10, 2017

Definition and MVP for SV Express – Foundational framework and UX/UI

ARD/AppTest Integration

Initial Performance Benchmarking – MQ and HTTP

Engineering Excellence

Various Research Activities (SPIKES) – Licensing, SAP, Developer Tools

Laying the foundation for the Road Ahead

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The Road Ahead

SV Express Capabilities

SV Express Workstation

UI
Virtual Service Execution Engine
Test Execution Engine

- **Standalone Server** (Self-contained architecture, no configuration required)

- **Individual User Model**
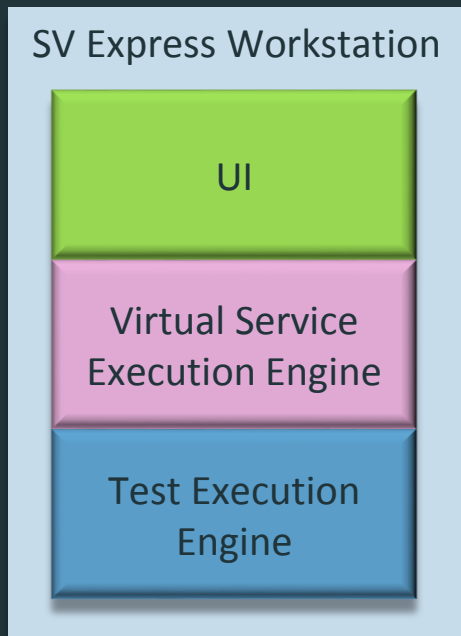
- **Simplified User Experience** (at least as good as SOAP UI)

- **Thick Client UI** (Java Swing based)

- **Minimal Footprint**: < 300 MB package size; 2 CPU cores, 1 GB RAM, 5 GB disk.

- **Transport Protocols:** HTTP, HTTPS

- **Data Protocols:** JSON, REST, SOAP, SOAP w/Headers, XML, Request Data Manager, Generic XML Parser

- **Create From:** Recording, RR Pairs, Design Spec (WSDL, Swagger, RAML), Chrome Extension like functionality

- **Test Capabilities:** Web Services, Local Execution

- **Monitoring:** Current test results, virtual service inspection

- **Debugging**: Multiple ITRs

- **Filters, Assertions and Datasets**: Basic ones related to REST/SOAP/JSON/XML

- **Shareable Assets:** Test cases, virtual services can be used by DevTest Enterprise

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SV For Dev (SV4Dev)

IDE Plugin UI
SVT Dev SDK
In-Container SV Engine
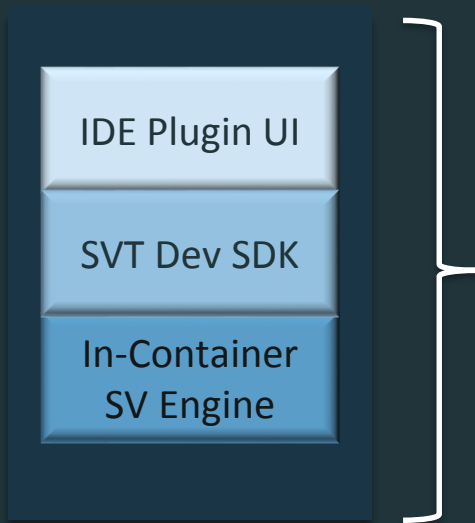
- **In-Container Architecture**
- **Free** (Possibly Open Source)
- **Individual User**
- **Build mindshare across Developer community**
- **Transport Protocols:** HTTP, HTTPS, Java, JDBC
- **Data Protocols:** JSON, REST, SOAP, SOAP w/Headers, XML
- **Create From:** Recording, RR Pairs, Design Spec (WSDL, Swagger, RAML), SV-Dev API
- **"As Code" virtual services and tests**
- **Assets will easily migrate to other SV&T offering**
- **Test Capabilities:** Exploratory

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Portal Enhancements

Exploratory Testing for Web Services - HTTP/S, JSON, REST, XML, SOAP

UI Simplification

Support for Additional Data Protocol Handlers – GXPP, RDM, Scriptable

Improved UX – Incorporation of relevant UX work done for SV Express

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NextGen Enterprise Dashboard

NextGen Enterprise Dashboard

- Resource Management
- Access Control
- Software Metering
- Configuration Management
- License Management
- ROI and Utilization Reporting
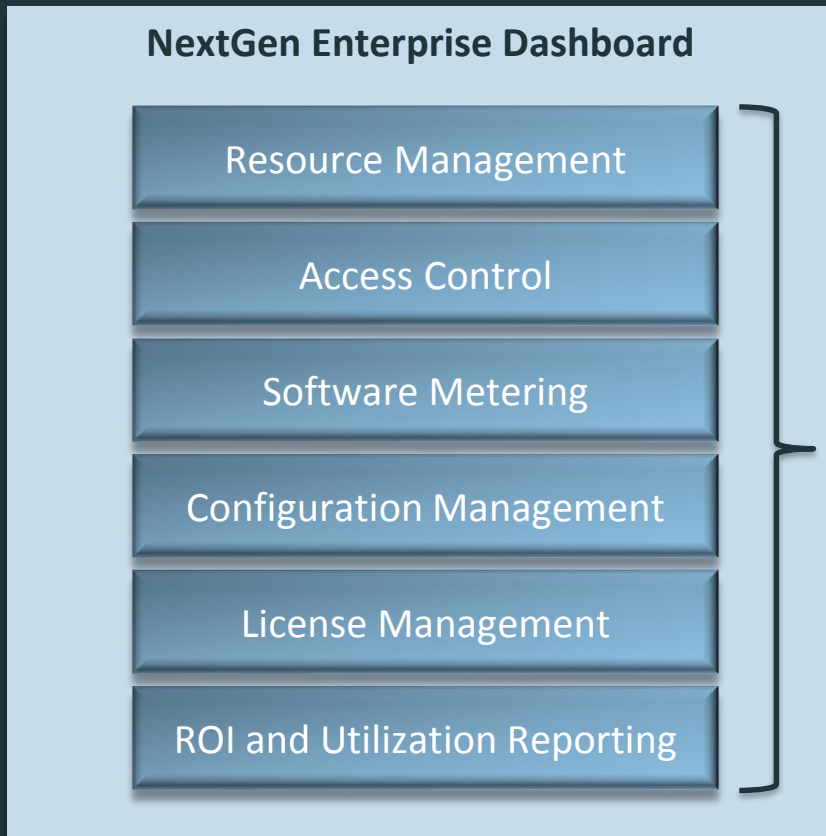
- Web based UI with improved UX and reimagined UI

- Centralized Command and Control

- Centralized Access Management

  - Capabilities Based Access

  - Resource Based Access

- Centralized Metric Collection and Reporting

- Centralized License Management

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NextGen DevTest Workstation

SV Basic Workstation

DevTest Workstation

NextGen DevTest Workstation

Basic Mode

Pro Mode
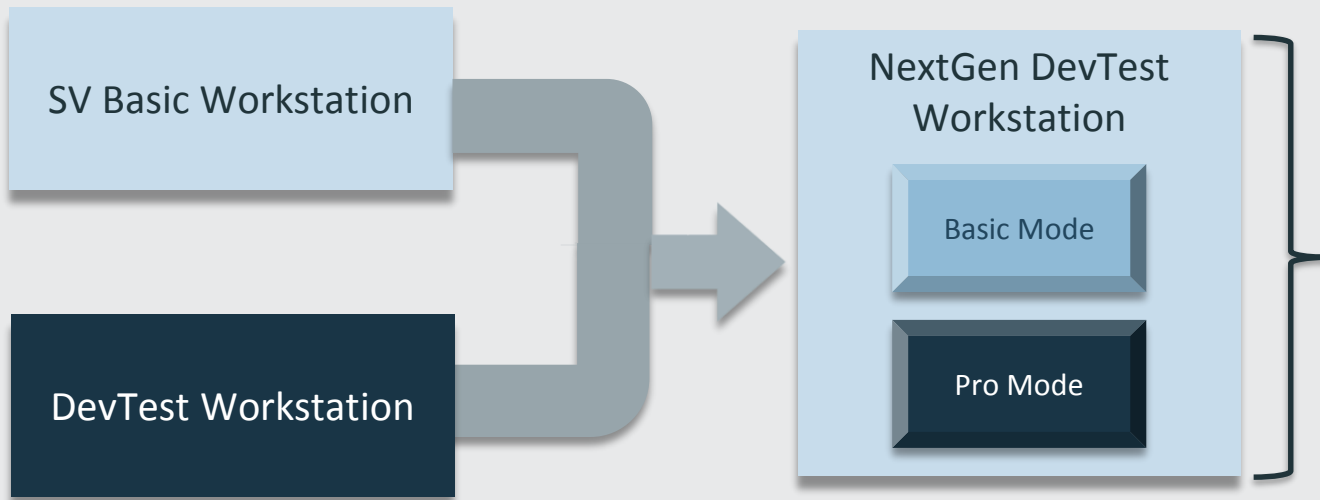
- **Reimagined and Rearchitected UX/UI**

- **Standalone or Connected Execution Models:** Can execute as a standalone component or as a connected component to the Registry

- **Thick Client UI** (Built on SV Basic Workstation)

- **Multi Operational Modes:**
  - Basic Mode - SV Basic functionality
  - Pro Mode – Full DevTest functionality

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DevTest Product Roadmap

	FY18Q1	FY18Q2	FY18Q3	FY18Q4	FY19Q1	FY19Q2
Enterprise Adoption	SV Express	Next Gen Workstation				
	Licensing & Metering **Consumption based licensing**	**Usage telemetry & ROI**				
	Packaged Apps Support **SAP, Oracle**					
	Portal Enhancements **API (REST/SOAP) Test**	Enhanced Enterprise Experience **Manageability**	**Seamless upgrades**	**Fine grain RBAC**		
	SV Test Drive **For sales lead gen**			SV Asset Sharing **Test and virtualization asset sharing across customer teams**		
SV for Developer	SV for Developers **SV for Developers Prototype, IDE plug-in**	**SV for Developers MVP**	SV for Developers 2 **WireMock library abstraction , additional IDE plug-in**			
SV & the Cloud	SV BYOL in AWS, Azure **Initial AMI Deployment**	**Architectural enhancements**				
		SV-as-Service **Research Spike**	**Prototype**	**MVP**		
AppTest		Integration APIs **Update AppTest APIs**		CICD Plugins **Jenkins, Team City, Gradle**		

Q & A