



New tricks from old dogs

Upgrade Console and APMConnect

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EDGE User group, Belgium

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Who are Response Systems?



CA Gen product specialist company

- Founded in 1996 in the UK
- Over 150 CA Gen customers globally
- A long-established CA Technologies product partner
- Acquired by Facet Consulting from Australia in 2007

Extended product offerings for CA Gen customers

- *Access Gen* provides developer productivity capability
- *QA Console* enables automated standards compliance
- ***Upgrade Console*** delivers instant CA Gen upgrade impacts
- ***APMConnect*** enables real-time APM for CA Gen.



Upgrade Console

Faster CA Gen upgrades

CA Gen upgrades



Necessary, but sometimes risky and expensive

- New features needed to deliver business capability
- Needed for compatibility with infrastructure software
- Usually require considerable testing and disruption

Why? Due to application behavior changes

- Only identified during wide and thorough testing
- Remediation undertaken as problems encountered
- So deployment success becomes tied to testing effort

Now we can take the guess-work out...

Upgrade Console brings a new approach



Upgrade Console can be used up front to

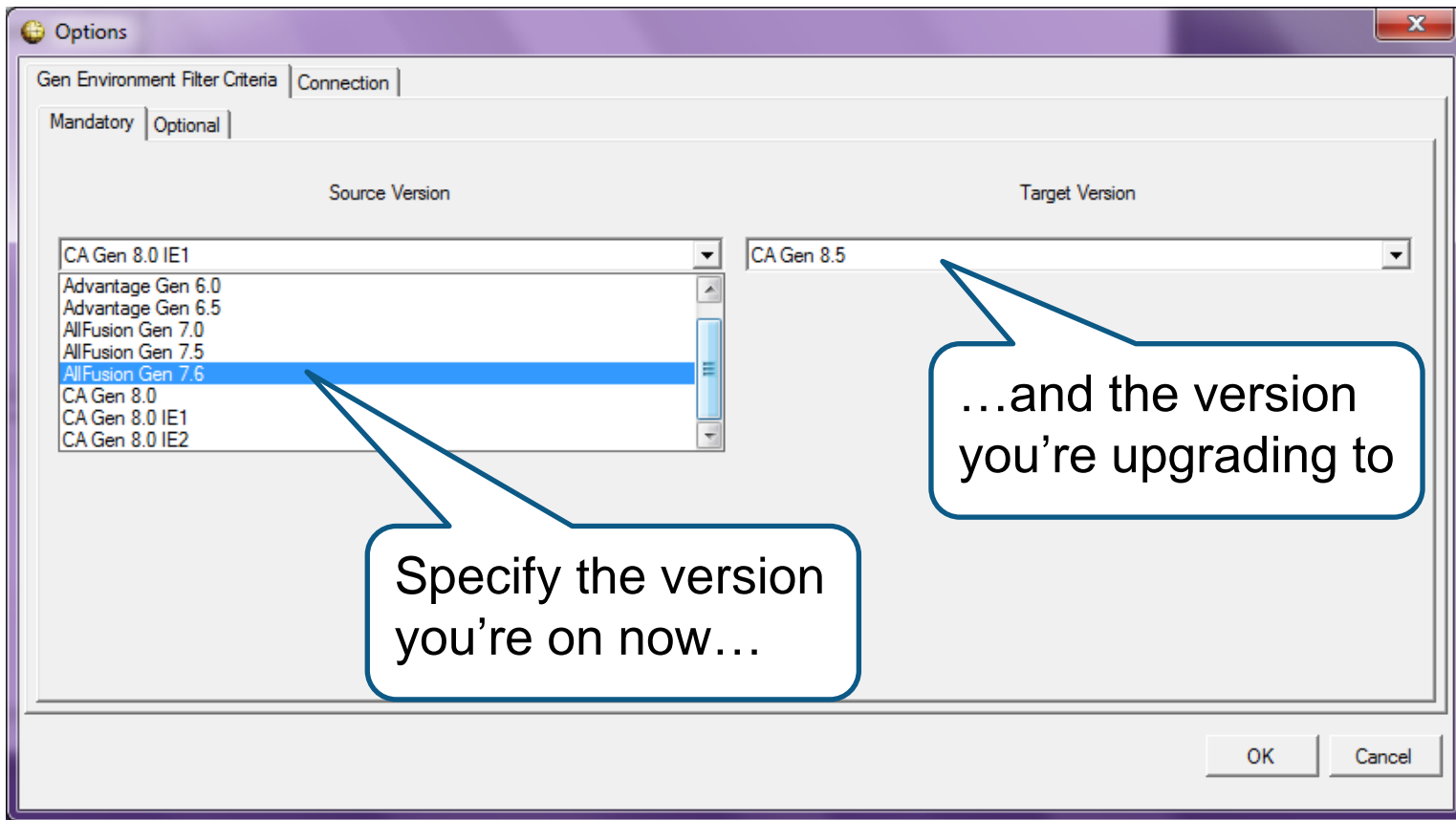
- Identify all known incompatibilities
- For all versions of CA Gen from R5.1
- For every supported technical platform

So you can start your Upgrade knowing

- All the code changes needed to fix incompatibilities
- So therefore precisely where to focus testing effort
- Project starts with effort, duration and risk all defined

So how does it work?

1. Specify your versions



1. Specify your versions and platforms



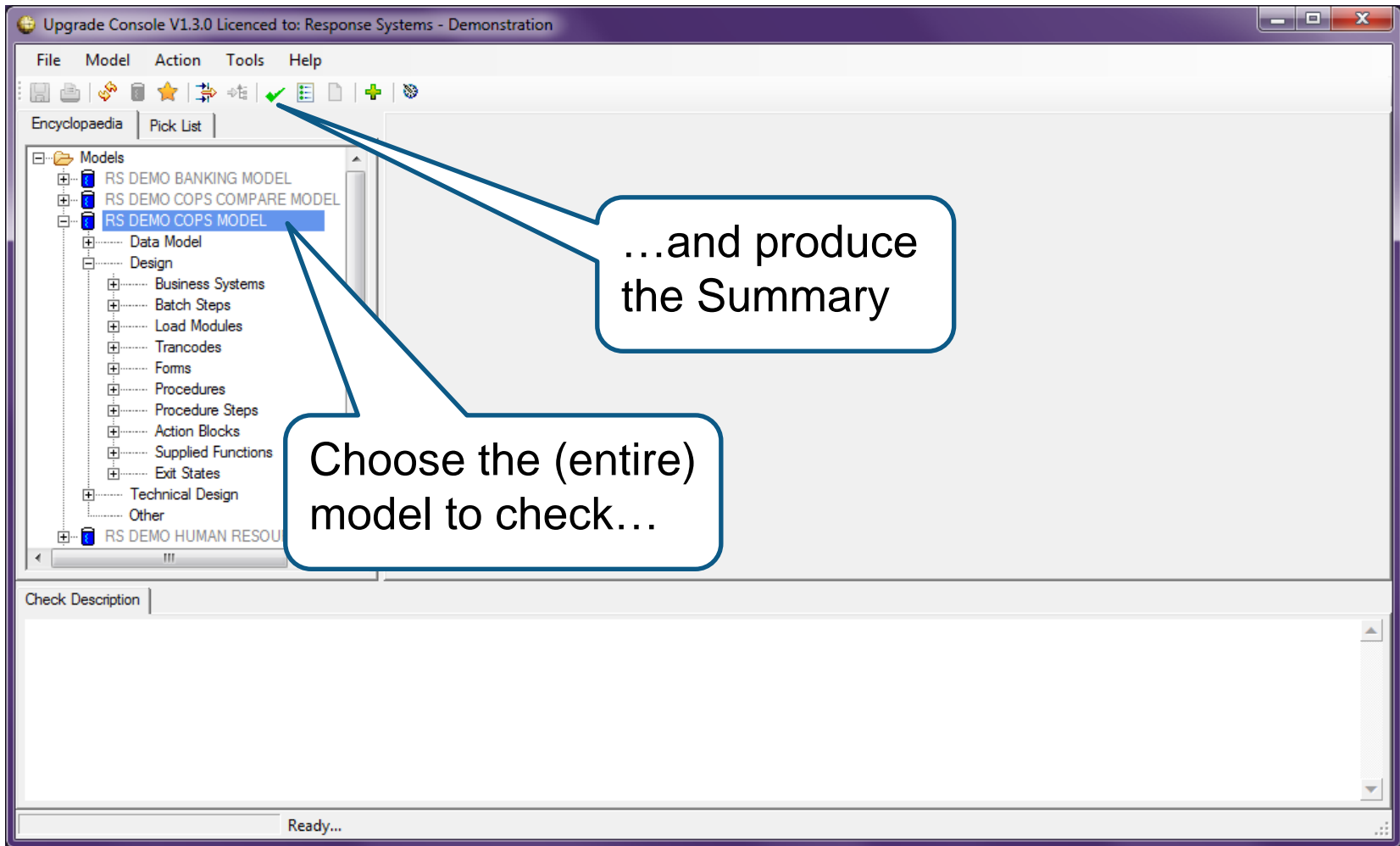
The screenshot shows a 'Gen Environment Filter Criteria' dialog box with a 'Connection' tab. It features a 'Mandatory' section with a dropdown menu set to 'Default', and buttons for 'New Environment' and 'Delete Environment'. Below these are six columns of checkboxes for different technologies:

Operating System	DBMS	Language	TP Monitor	Communications	Proxies
<input type="checkbox"/> ANY	<input type="checkbox"/> ANY	<input type="checkbox"/> ANY	<input type="checkbox"/> ANY	<input type="checkbox"/> ANY	<input checked="" type="checkbox"/> ANY
<input type="checkbox"/> CLR	<input type="checkbox"/> Datacom	<input checked="" type="checkbox"/> C	<input type="checkbox"/> ASP.NET	<input type="checkbox"/> .NET Remoting	<input type="checkbox"/> Not Applicable
<input type="checkbox"/> JVM	<input type="checkbox"/> DB2 UDB	<input type="checkbox"/> C#	<input checked="" type="checkbox"/> CICS	<input checked="" type="checkbox"/> ECI	<input type="checkbox"/> COM
<input type="checkbox"/> LINUX	<input checked="" type="checkbox"/> DB2 z/OS	<input checked="" type="checkbox"/> COBOL	<input type="checkbox"/> Comp_Services	<input checked="" type="checkbox"/> Gen	<input type="checkbox"/> C
<input checked="" type="checkbox"/> MVS	<input type="checkbox"/> JDBC	<input type="checkbox"/> JAVA	<input type="checkbox"/> EJB	<input type="checkbox"/> JavaRMI	<input type="checkbox"/> JAVA
<input type="checkbox"/> NonStop	<input type="checkbox"/> ODBC/ADO.Net		<input type="checkbox"/> EJB Web Services	<input type="checkbox"/> MQSeries	<input type="checkbox"/> .NET
<input type="checkbox"/> UNIX	<input type="checkbox"/> ORACLE		<input type="checkbox"/> IEFAE	<input type="checkbox"/> TCP/IP	
<input checked="" type="checkbox"/> WINDOWS 32-bit	<input type="checkbox"/> MS/SQL		<input type="checkbox"/> IMS	<input type="checkbox"/> TUXEDO	
<input type="checkbox"/> WINDOWS 64-bit	<input type="checkbox"/> SQL/MP		<input type="checkbox"/> INTERNET		
			<input type="checkbox"/> Pathway		
			<input type="checkbox"/> Tuxedo		
			<input type="checkbox"/> Web View		
			<input checked="" type="checkbox"/> WINDOWS		

At the bottom, there is a checkbox labeled 'Override Business System Target Environment Parameters' which is checked. The dialog has 'OK' and 'Cancel' buttons at the bottom right.

... and all of your application platform technologies

2. Summarise the issues in the model



2. Summarise the issues in the model



Upgrade Console V1.3.0 Licenced to: Response Systems - Demonstration

File Model Action Tools Help

Encyclopaedia Pick List

Models

- RS DEMO BANKING MODEL
- RS DEMO COPS COMPARE MODEL
- RS DEMO COPS MODEL
- Data Model
- Design
 - Business Systems
 - Batch Steps
 - Load Modules
 - Trancodes
 - Forms
 - Procedures
 - Procedure Steps
 - Action Blocks
 - Supplied Functions
 - Exit States
- Technical Design
- Other

RS DEMO HUMAN RESOURCES MO

Summary - RS DEMO COPS MODEL

	Summary	Object Name	Object Type	DB2 version now unsupported	Dynamic EABs calling chain	NLS Pack: name compl 7.0
▶	✓	CUSTOMER	Subject Area	-	-	
	✓	ORDER	Subject Area	-	-	
	✓	PAYMENTS	Subject Area	-	-	
	✓	PRODUCT	Subject Area	-	-	
	✓	RS DEMO_COPS_MODEL	Subject Area	-	-	
	✓	SYS	Subject Area	-	-	
	✓	ADDRESS	Entity	-	-	
	✓	CONTACT	Entity	-	-	
	✓	CONTACT_ROLE	Entity	-	-	
	✓	CUSTOMER	Entity	-	-	

Report Summary

Report run against Model: RS DEMO COPS MODEL

Checks executed at: 17/03/2014 21:24:55 and finished at: 17/03/2014 21:24:55
Duration: 0 hrs, 1 mins, 21 sec.

Target Environment Settings as at time of execution:

Source Gen Version: Advantage Gen 6.0

Ready...

Every object checked and shown as passed... or...

2. Summarise the issues in the model



The screenshot shows the 'Upgrade Console V1.3.0' interface. The 'Summary - RS DEMO COPS MODEL' tab is active, displaying a table of issues. A blue arrow points from a text box to the 'SSY_MNU' row in the table.

	Summary	Object Name	Object Type	DB2 version now unsupported	Dynamic EABs calling chain	NLS Pack name compl 7.0
	✗	RS DEMO COPS MODEL	Model	-	-	
	✗	SSPMNT	Load Module	-	✓	✓
	✗	SABGEN	Load Module	-	✗	✓
	✗	SSPLST	Load Module	-	✓	✓
	✗	SSY_MNU	Load Module	-	✓	✓
	✗	SSCLST	Load Module	-	✓	✓
	✗	SSMNU	Load Module	-	✓	✓
	✗	CCN	Load Module	-	✓	✓
	✗	CCSMN	Load Module	-	✓	✓
	✗	CCS_MNU	Load Module	-	✓	✓

Report Summary

Report run against Model: RS DEMO COPS MODEL

Checks executed at: 17/03/2014 21:33:25 and finished at: 17/03/2014 21:34:44
Duration: 0 hrs, 1 mins, 19 sec.

Target Environment Settings as at time of execution:

Source Gen Version: Advantage Gen 6.0

Ready...

... or failed one or more specific checks that apply

2. Summarise the issues in the model



Upgrade Console V1.3.0 Licenced to: Response Systems - Demonstration

File Model Action Tools Help

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- RS DEMO HUMAN RESOURCES MO

Summary - RS DEMO CO

	Summary	Object Name	Object Type	Read-only field colours changed	Maximum view size reduced	GUI C DBox behav chang
▶	✗	ORDER_LIST_AND_SELECT	Procedure Step	-	✗	
	✗	RS DEMO COPS MODEL	Model	-	-	
	✓	PROC02	Batch Job Step	-	-	
	✗	SSPMNT	Load Module	-	-	
	✓	SPMNT1	Transaction Code	-	-	
	✗	SABGEN				
	✓	ABGENCS				
	✓	ABGENDF				
	✗	SSPLST				
	✓	SPLSTCS				

Check Description: Maximum view size reduced

Check Description	Maximum view size reduced (CRITICAL)
Technical Details	As of AllFusion Gen 7.5 The algorithm used in prior versions of AllFusion Gen to calculate the size of a C or COBOL import or export view was incorrect. For C code generation, the size of numeric non-decimal precision attributes was generally overestimated; the size of numeric decimal precision attributes was generally underestimated. For COBOL code generation, the size of varvinn length strings was underestimated.

Ready...

... selecting a specific check shows all affected objects in the model ...

... and provides all relevant information on the issue

3. Get the detail for each issue identified



Upgrade Console V1.3.0 Licenced to: Response Systems - Demonstration

File Model Action Tools Help

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RS DEMO HUMAN RESOURCES MO

Summary - RS DEMO COPS MODEL

	Summary	Object Name	Object Type	Dynamic EABs calling chain	NLS Package name compliance 7.0	GUI Help must utilise HTML
	✗	RS DEMO COPS MODEL	Model	-	-	
	✗	SSPMNT	Load Module	✓	✓	
	✗	SABGEN	Load Module	✗	✓	
	✗	SSPLST	Load Module	✓	✓	
	✗	SSY_MNU	Load Module	✓	✗	
	✗	SGCLST	Load Module	✓	✓	
	✗	CCSMN	Load Module	✓	✗	
	✗	CCS_MNU	Load Module	✓	✗	

Check Description: Maximum view size reduced

Check Description

Maximum view size reduced

Technical Details

As of AllFusion Gen 7.5

The algorithm used in prior versions of AllFusion Gen to calculate the size of a C or COBOL import or export view was incorrect. For C code generation, the size of numeric non-decimal precision attributes was generally overestimated; the size of numeric decimal precision attributes was generally underestimated. For COBOL code generation, the size of varying length strings was underestimated.

Ready...

...and get the detail

Select all the objects that have been identified with issues...

3. Get the detail for each issue identified



The screenshot displays the 'Upgrade Console V1.3.0' application window. The left sidebar shows a tree view of models, with 'RS DEMO COPS MODEL' selected. The main area is split into two tabs: 'Summary - RS DEMO COPS MODEL' and 'Detail - RS DEMO COPS MODEL'. The 'Detail' tab is active, showing a detailed report of the upgrade process. A callout box points to the 'Detail' tab, stating: 'Shows the model name and all options you chose'.

Upgrade Console v1.3.0 Upgrade Console Detailed Report 2014/03/17 21:51

Upgrade Check executed at : 2014/03/17 21:51
Upgrade Check on model : RS DEMO COPS MODEL
Full Model

Source Gen Version: Advantage Gen 6.0
Target Gen Version: CA Gen 8.5

Business System Parameters Overridden with the following settings: YES

Target Operating System: [Override with] MVS*WIN 32-bit
Target DBMS: [Override with] DB2 z/OS
Target Language: [Override with] C*COBOL
Target TP Monitor: [Override with] CICS*WINDOWS
Target Communication: [Override with] ECI*Gen
Target Proxies: [Override with] ANY

Rule Set Description:
Upgrade Console Rule Set v1.3.0

The following checks have been selected:

Report Summary

Report run against Model: RS DEMO COPS MODEL

Checks executed at: 17/03/2014 21:51:08 and finished at: 17/03/2014 21:52:30.
Duration: 0 hrs, 1 mins, 21 sec.

Target Environment Settings as at time of execution:

Source Gen Version: Advantage Gen 6.0

Ready...

3. Get the detail for each issue identified



Upgrade Console V1.3.0 Licenced to: Response Systems - Demonstration

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RS DEMO HUMAN RESOURCES MO

Summary - RS DEMO COPS MODEL Detail - RS DEMO COPS MODEL

Object Type: PStep Onl Object Name: **CONTACT_MAINTENANCE**
Object Last Modified on: 2013/12/19 10:55 By: ENC1ADMIN

MAKE ERROR behaviour changed [Critical] Failed - Behaviour changed
331 | | | | ~~MAKE export contact name ERROR~~

Consistency Check ICCDV06E [Critical] Failed -
Matched group views have different view structures and/or cardinality

270 | | | | USE update_contact

270 | | | | WHICH IMPORTS: Entity View import contact TO Entity View import contact

270 | | | | WHICH EXPORTS: Entity View export contact FROM Entity View export contact

270 | | | | Group View export_role_group FROM Group View export_role_group

657 | | | | USE list_contact_role_scroll_control

657 | | | | WHICH IMPORTS: Entity View import c

657 | | | | Entity View local_st

657 | | | | Group View import_2

657 | | | | WHICH EXPORTS: Group View export_2

667 | | | | USE list_contact_role_scroll_control

667 | | | | WHICH IMPORTS: Entity View import c

667 | | | | Entity View local_st

Check Description: Maximum view size reduced

Check Description	Maximum view size reduced (CRITICAL)
Technical Details	As of AllFusion Gen 7.5 The algorithm used in prior versions of AllFusion Gen to calculate the size of a C or COBOL import or export view was incorrect. For C code generation, the size of numeric non-decimal precision attributes was generally overestimated; the size of numeric decimal precision attributes was generally underestimated. For COBOL code generation, the size of varying length strings was underestimated.

Ready...

Scrollable list shows every module with code snippets

Along with the advice on what to do about each issue

What customers are saying:



*“The Upgrade Console was an invaluable component of our analysis and **saved us significant effort** by describing what and where we had to change in our applications.*

*“Our quality assurance was simplified as **we were able to reduce our testing cycles** - because we knew exactly where to focus our testing effort.*

*“An additional benefit of Upgrade Console came from employing the product to **validate that the upgrade remediation changes**, made by developers, were correctly completed”.*

David Morris, PMP

CA Gen Upgrade Project Manager

Australian Customs and Border Protection Service.

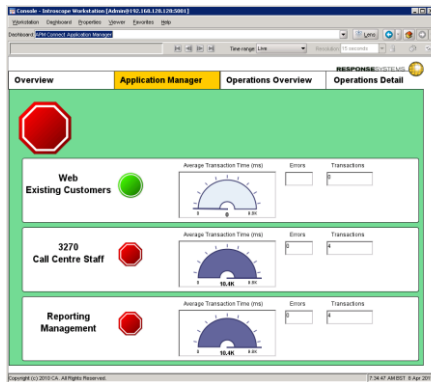


APMConnect

Insight to CA Gen application performance



Application Performance Monitoring

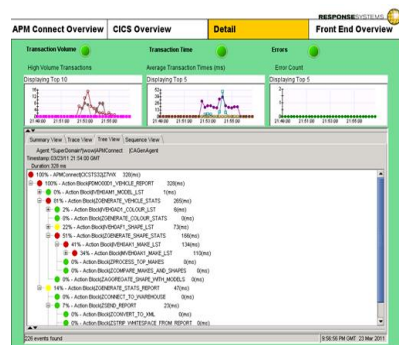
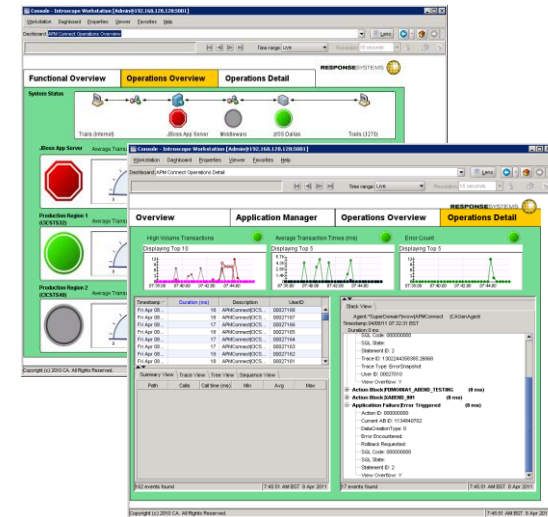


Service Assurance – is everything ok?

For ICT and Business owners – is the functionality I am responsible for being delivered?

Triage – where are my problems?

Avoid the blame-game - quickly identify exactly where in the application stack the problems exist – so they can be remedied



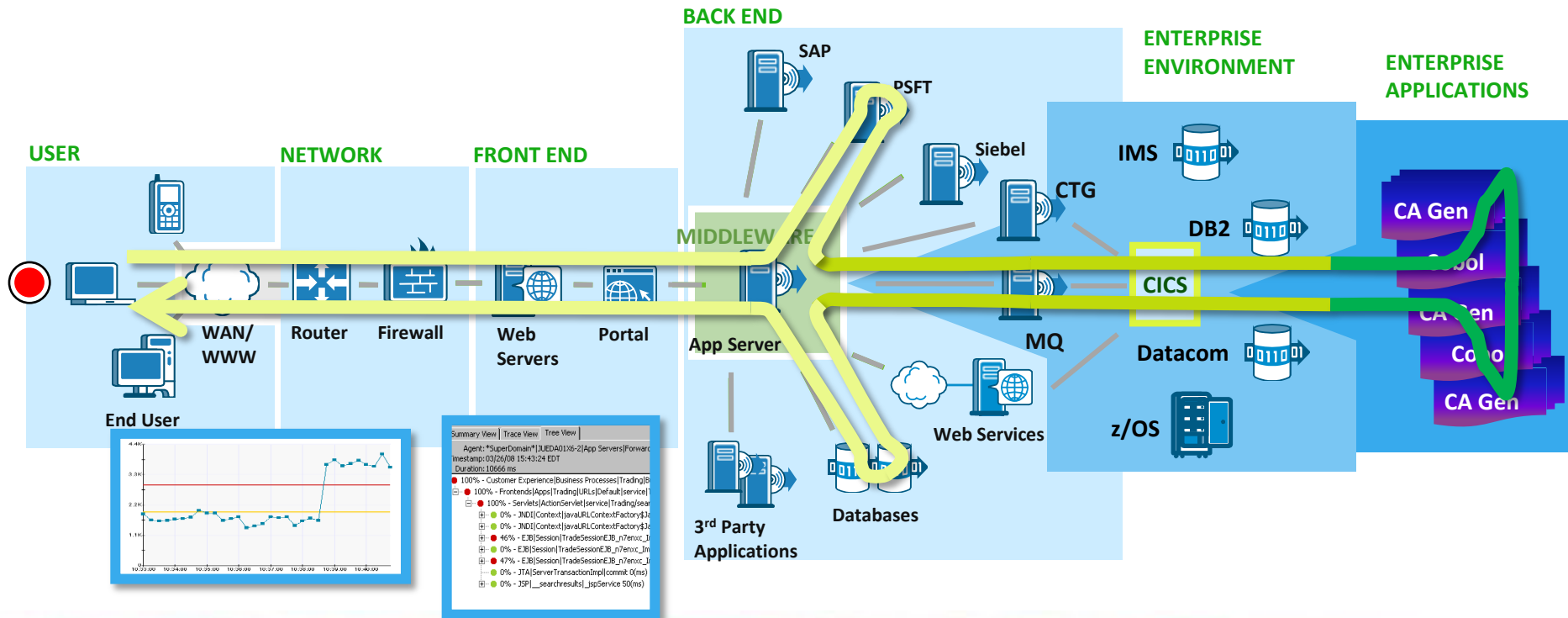
Performance – can I get more from my resources?

Identifying hotspots and bottlenecks within large and complex applications can unlock significant cost savings

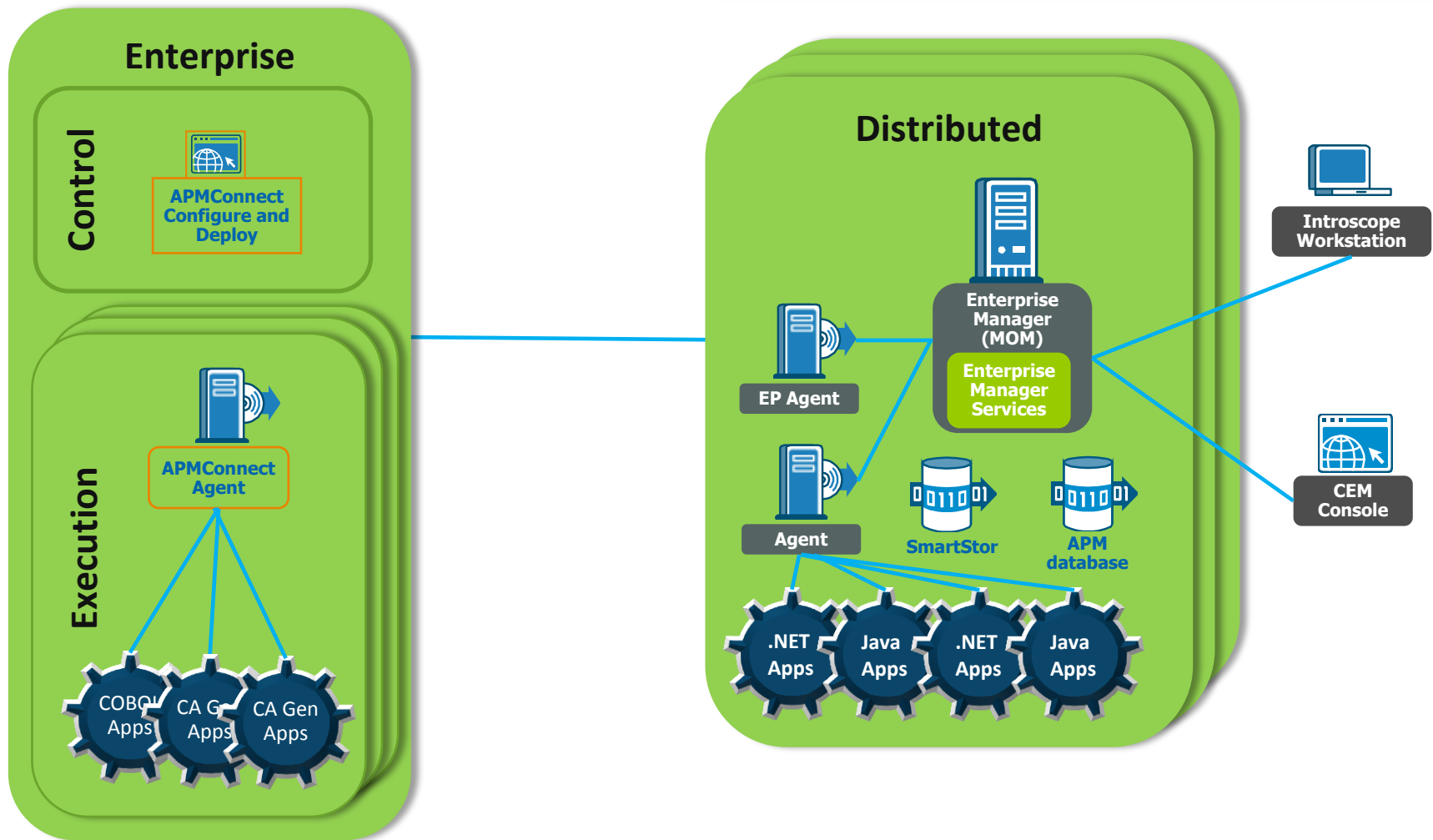


... so effective triage depends upon a **single integrated monitoring view end-to-end**

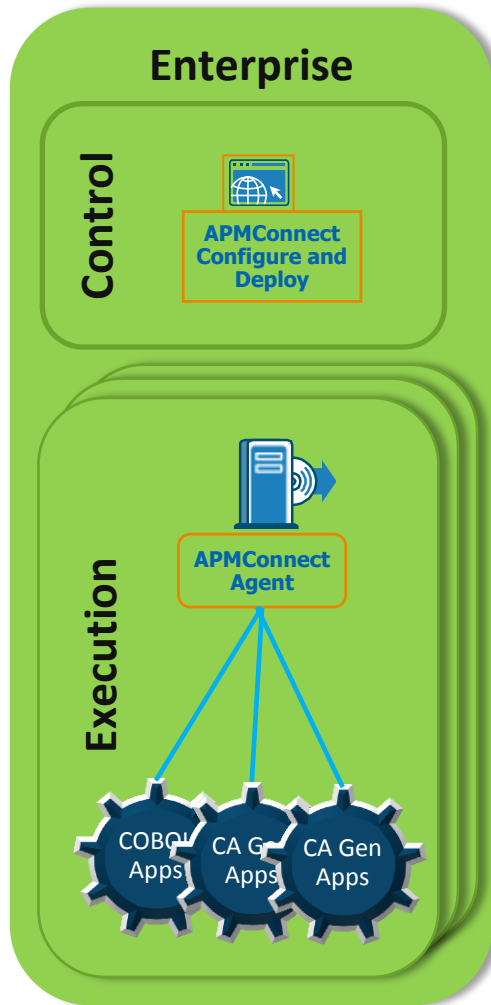
... where the ability to **deep-dive inside applications** on each platform becomes crucial.



How does APMConnect work?



APMConnect solution architecture



APMConnect Configure and Deploy

- Rapid deployment to Execution server/region
- Manages Transaction Trace filtering
- Monitors APMConnect Agents

APMConnect Agent

- Integrates with CA Gen transactions
- Configured to dynamically filter by
 - ☐ transaction code
 - ☐ execution duration thresholds
 - ☐ transaction failure thresholds
- Sends data across to Enterprise Manager.

APMConnect solution architecture

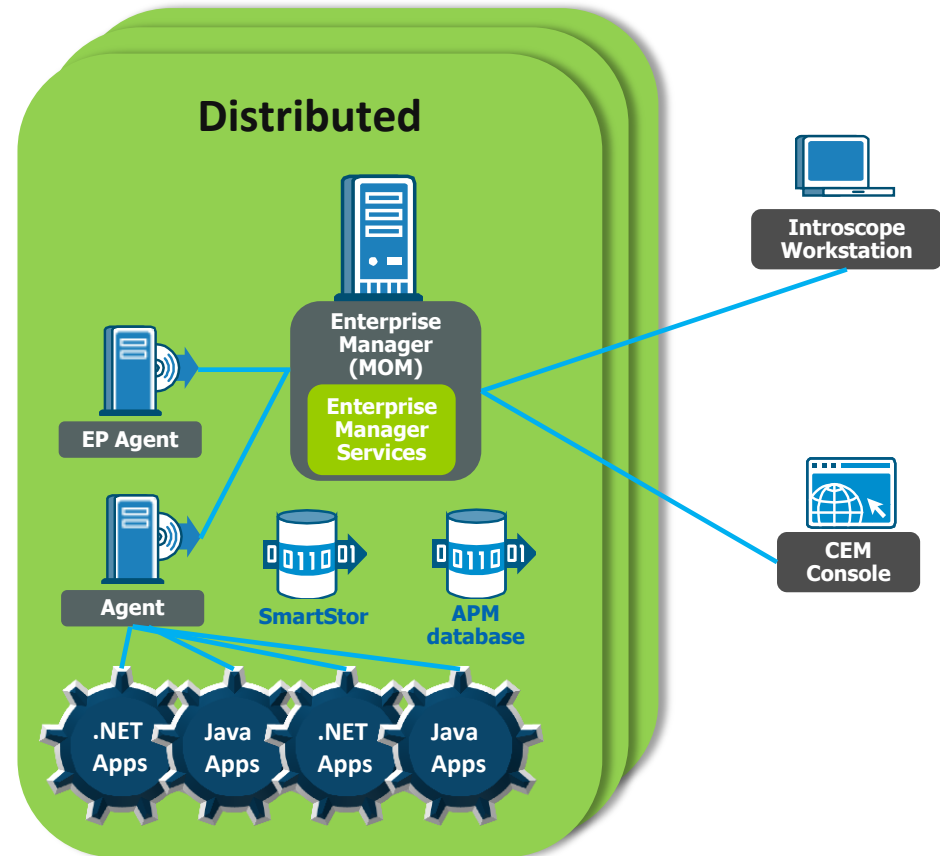


Distributed platform

- Java and .NET agents
- APMConnect plugs in through EP Agent
- Seamless and instant

Introscope & CEM

- All the powerful features of world-class APM
- Now with the same deep dive for CA Gen apps.



See inside executing applications



Transaction Trace Viewer - Introscope Workstation [Admin@SHOCONT284:5000]

Workstation Edit Trace Properties Help

Type	Domain	Host	Process	Agent	Timestamp	Duration(ms)	Description	UserID
T	*SuperDomain*	zzinx040	WebSphere	mix-a	27/10/2011 1:30:18 PM	6108	/wasPerfTool/servlet/perf...	
T	*SuperDomain*	SHOCONT284	APMConnect	CAGenAgent	27/10/2011 1:31:39 PM	35677	APMConnectVCICD1IRGC3 MZHAYLE	
T	*SuperDomain*	SHOCONT284	APMConnect	CAGenAgent	27/10/2011 1:31:21 PM	56738	APMConnectVCICD1DLB0 WEBAPPD	
T	*SuperDomain*	zzinx040	WebSphere	mix-a	27/10/2011 1:31:38 PM	36852	/ica-feb-war/TCRG02CIS...	
T	*SuperDomain*	SHOCONT284	APMConnect	CAGenAgent	27/10/2011 1:32:59 PM	11177	APMConnectVCICD1DLB0 JZEEPUH	
T	*SuperDomain*	SHOCONT284	APMConnect	CAGenAgent	27/10/2011 1:33:58 PM	5957	APMConnectVCICD1DLB0 JZEEPUH	
T	*SuperDomain*	SHOCONT284	APMConnect	CAGenAgent	27/10/2011 1:35:44 PM	33448	APMConnectVCICD1DLB0 JZEEPUH	
T	*SuperDomain*	SHOCONT284	APMConnect	CAGenAgent	27/10/2011 1:35:44 PM	33448	APMConnectVCICD1DLB0 JZEEPUH	

Summary View | Trace View | Tree View

Agent: *SuperDomain*(SHOCONT284)APMConnect(CAGenAgent)
Timestamp: 10/27/11 13:32:59 GMT-10:00
Duration: 11177 ms

- 100% - APMConnectVCICD1DLB0 11177(ms)
- 100% - COBOLTRDMOR 11177(ms)
- 100% - Action BlockDLB0_GET_DRIVER_LICENCE_RCPT_SVR 11174(ms)
- 0% - External Action BlockSO00E01 0(ms)
- 0% - Action BlockMBTX1031_BUS_INIT_ACTN_CBD_STANDARD_PARMS 0(ms)
- 0% - Action BlockITRL1322_TRANSACTION 0(ms)
- 1% - Action BlockCTRL1Z02_SET_CBD_SERVER_PROC_DTL 62(ms)
- 0% - Action BlockCTRL1510_UNIT_OF_WORK_J 0(ms)
- 33% - Action BlockDL_V_GET_DRIVER_LICENCE_RCPT 3683(ms)
- 0% - External Action BlockSO00E01 0(ms)
- 33% - Action BlockDL_VAL_GET_DRIVER_LICENCE_RCPT 3680(ms)
- 0% - External Action BlockSO00E01 0(ms)
- 0% - Action BlockCTRL0305_VAL_PROCESSING_DATE 9(ms)
- 0% - Action BlockCTRL0306_VAL_AGN_FOR_PROC_MD 1(ms)
- 0% - Action BlockMTS00019_GET_UOV_DETAILS_BY_ID 3(ms)
- 33% - Action BlockCTRL0140_GET_DL_PRDCPT_RCPT_DTLS 3667(ms)
- 0% - External Action BlockCB01131 0(ms)
- 0% - Action BlockMBTX1031_BUS_INIT_ACTN_LSTNXT 1(ms)
- 0% - Action BlockCTRL0127_GET_SMRTCRD_FOR_BIA 1(ms)
- 0% - Action BlockCTRL0172_GET_SMARTCARD 19(ms)
- 0% - Action BlockMTSP0005_GET_SP_TYPE_FOR_CMPNT 7(ms)
- 0% - Action BlockMTSP0006_GET_CUST_FOR_SERV_PROD 9(ms)
- 0% - Action BlockCTRL0133_GET_FORMATTED_CUS_ADDR 44(ms)
- 0% - Action BlockCTRL0133_GET_FORMATTED_CUS_ADDR 6(ms)
- 0% - Action BlockCTRL0195_GET_INDY_CSTM 7(ms)
- 27% - Action BlockMLIC1071_TL_LSTNXT_SC_ID 2993(ms)
- 0% - External Action BlockCB01131 0(ms)
- 0% - Action BlockCLIC1Z00_INIT_CBD_STANDARD_PARMS 1(ms)
- 0% - Action BlockTLIC1011_TRANSPORT_LICENCE_I 0(ms)
- 0% - Action BlockTLIC1011_TRANSPORT_LICENCE_I 0(ms)
- 27% - Action BlockCLIC1071_TL_LSTNXT_SC_ID 2991(ms)
- 0% - External Action BlockCB01131 0(ms)
- 0% - Action BlockCB01031_MAPPER_ERROR_HANDLER_S 0(ms)
- 0% - Action BlockTLIC1021_TRANSPORT_LICENCE_O 0(ms)
- 0% - Action BlockTLIC1021_TRANSPORT_LICENCE_O 0(ms)
- 0% - Action BlockTLIC1021_TRANSPORT_LICENCE_O 0(ms)

Traced 8 transactions: exceeding 5000 milliseconds

Active Tracing ends in 0.00:25 Stop Restart

Use the Tree View to..

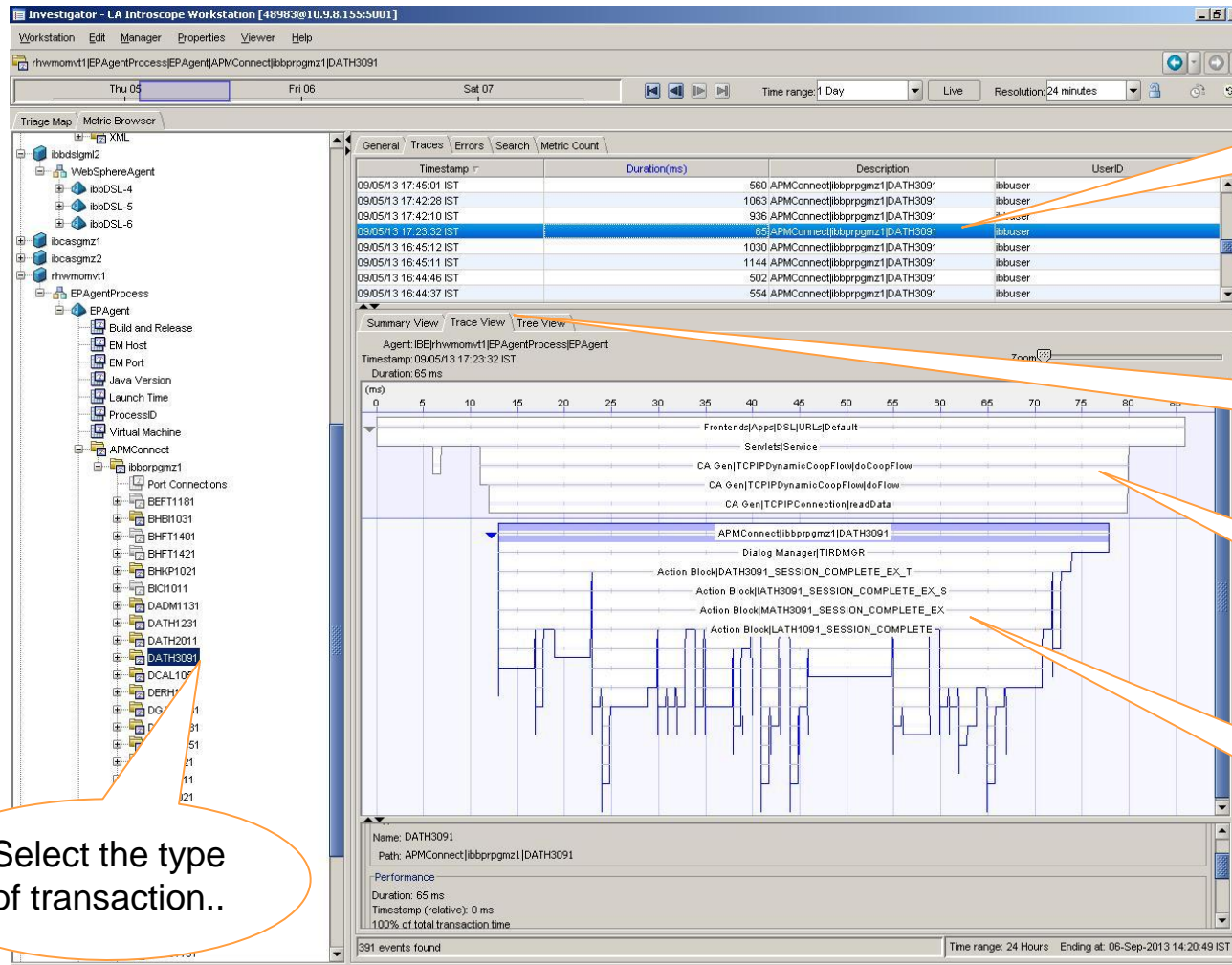
..traffic lights for execution highlights

..and the elapsed time in ms

..see the call stack exploded

..instant visibility to where time is spent.

Visibility across technology platforms



..then the specific transaction..

Use the **Trace View** to see the visual layout..

..the platform running Java..

..calling the CA Gen backend service.

Select the type of transaction..

Uncover performance hotspots



Investigator - Introscope Workstation [Admin@localhost:5001]

Workstation Edit Manager Properties Viewer Help

*SuperDomain\VM-W7Pro64-Base\APMConnect\CAGenAgent\APMConnect

Time range: 8 Minutes Live Resolution: 15 seconds

Map Browse

- *SuperDomain*
- Custom Metric Host (Virtual)
- VM-W7Pro64-Base
 - APMConnect
 - CAGenAgent (*SuperDomain*)
 - EM Host
 - EM Port
 - Java Version
 - Launch Time
 - Virtual Machine
 - APMConnect
 - CICSTS32
 - CICSUSEV
 - CICSUSEW
 - CICSUSEY
 - S0W1
 - GC Heap
 - Host
 - JBoss
 - Metrics
 - AppServers
 - CEM
 - Tomcat
 - Domains

General Traces Errors Search Metric Count

Timestamp	Duration(ms)	Description	UserID	Duration (ms)
17/03/2014 11:13:20 PM	20	APMConnect\CICSTS32\Z7VWX	00002318	20
17/03/2014 11:13:47 PM	1170	APMConnect\CICSUSEV\MPR1	PUBLIC	1170
17/03/2014 11:13:47 PM	1475	APMConnect\CICSUSEV\MPR1	PUBLIC	1475
17/03/2014 11:13:47 PM	103424	APMConnect\CICSUSEY\MP51	PUBLIC	103424

Summary view Trace View Tree View

Agent: *SuperDomain\VM-W7Pro64-Base\APMConnect\CAGenAgent

Timestamp: 03/17/14 23:13:47 EST

Duration: 103424 ms

Path	Calls	Call time (ms)	Min	Avg	Max
Action Block\MLP80324_DL_SKYCLUB_INQUIRY	1	37980	37980	37980	37980
Action Block\MLP40101_READ_MEM_CONTRACT_DET	1	338	338	338	338
Action Block\MLP40011_CAB_GET_HEADER_INFO	3	766	115	255	327
External Action Block\MLP7EVT5	2	365	165	182	200
Action Block\MLP30022_MEMBER_BALANCE	1	123	123	123	123
Action Block\MLP80409_MBR_ELIGIBLE_PRICE_RATE	917	59828	3	65	1381
Action Block\MLP40102_READ_PRG_MEMBERSHIP_DET	1	58	58	58	58
Action Block\MLP30281_GET_EFFECTIVE_TIER_LVL	75	3525	6	47	246
Action Block\MLP70976_GET_NEW_DL_ACCT_NBR	1	41	41	41	41
Action Block\MLP90053_CAB_SECURITY_HDR_VAL	1	40	40	40	40
Action Block\MLP80014_CAB_INT_VAL_MBR_ACCT_NO	2	61	23	30	38
Action Block\MLP30287_CAB_SINGLE_PARM_READ	16	152	0	9	101
Action Block\MLP90021_CAB_AGENT_GET_SEC_LEVEL	1	7	7	7	7
Action Block\MLP50453_CAB_PARAMETER_READ	1	5	5	5	5
Action Block\MLP20044_MEMBER_PIN_PROCESS	4	22	3		
Action Block\MLP80258_CAB_EVT_CONTACT_INFO	2	4	0		
Action Block\MLP80321_DL_SKYCLUB_ENROLLMENT	1	1	1		
Action Block\MLP30257_CUST_VALIDATE_CHK_DIGIT	3	3	0		
Action Block\MLP20043_CAB_SECURITY_VIEW_CODES	20	1	0		
Action Block\MLP20047_CAB_WP_NBR_12DGT_VALID	3	0	0		
Action Block\MLP20007_CAB_DATE_CONVERT	168	93	0		
Action Block\MLP20014_CAB_SYSTEM_PARAMETERS	1	0	0		

4 events found

17/03/2014 11:15:11 PM

Select the transaction of interest

...number of calls

...to see average execution time for each action block

...and the total execution time for all calls.



All transaction failures are caught

.. showing the call stack that executed

.. and the failing action block with the statement in error.

.. showing the
call stack that
executed

.. and the failing action block with the statement in error.

Market leading benefits and features



- ✓ **Pro-active application monitoring in a CA Gen context**
Minimal footprint enables always-on monitoring
CA Gen context gives developers information to instantly act on
- ✓ **Sub-transactional visibility in real-time**
See the execution path inside the transaction, as it occurs
- ✓ **End-to-end cross-platform transaction integration**
Follow your business transaction across each technical platform
- ✓ **Performance analysis on consolidated transactions**
Identify hotspots in your application to deliver cost savings
- ✓ **Non-intrusive to executing applications**
No source code changes, no recompiles, relinks or rebinds needed.

New tricks from old dogs



Accelerating CA Gen upgrades: **Upgrade Console**

- Identifies the issues for the CA Gen upgrade upfront
- Lower cost – Remediation defined and testing is focused
- Lower risk – All required change is known upfront
- Faster time to market – Project duration is reduced

CA Gen application performance: **APMConnect**

- Real-time visibility into executing CA Gen applications
- Visibility into your applications – across all platforms
- Faster time to remediation when things do go wrong
- Better application performance by finding “hotspots”.

For further information



Upgrade Console demonstration

- www.response-systems.com/solutions/uc
- Happy to demonstrate on one of your models

APMConnect information or trial

- www.response-systems.com/solutions/apm
- Trial the software in your environment

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