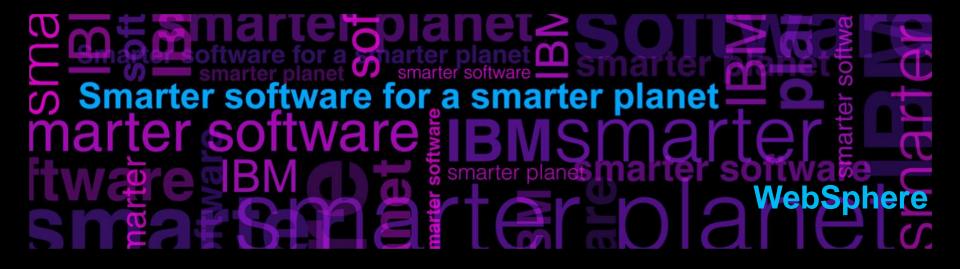


### VISUAL CONFIGURATION EXPLORER





### Agenda

- Motivation for Visual Configuration Explorer (VCE) ?
- Value of VCE
- Architecture
- IBM Support Assistant
- VCE Overview
  - Search
  - Compare
  - Validate
  - Headless Operation
  - Diagrams
- VCE Terminology
- Demo
- Questions

# **Sector a sharter planet**



### Motivation for Visual Configuration Explorer ?

#### Free Tool (Tech Preview)

- Reduce time to understand System Configuration
- Quicker navigation to specific pieces of configuration data
- Quickly validate configuration (comparison/validation rules)

#### Increase Customer Satisfaction

- Help IBM Support reduce time needed to solve customer problems
- Make it easier for customers to solve configuration related issues

#### Other VCE Benefits

- Use in other tools : Headless script operation
- Use in Testing (functional, performance..), Deployments etc.

Fixing problems ...

... is much easier with the right tool for the job!

### IBM Software for a sharter planet Compart of the software for a sh

### Value of VCE

- Uniform Visualization of Multiple Product Configuration information
- Compact, complete, and logical structure of the data (topology objects, relationships, properties)
- Cross-product relationships
- Sophisticated exploration aids diagramming, searching, comparing and validating
- Extensible drawing aids templates
- Automation Framework Headless CLI-based automation of VCE function

### **EXAMPLE A CONTRACT OF A CONTR**

### VCE TERMINOLGY

#### VCE Workspace

- A local file for caching, saving and personalizing information
- The VCE client allows the user to create/open multiple workspaces

#### Provider

- Source of topology and configuration data
- Currently WAS, Portal and xmlaccess export supported well
- Out of date? : DB2, IBM Tivoli Directory Server, IHS, and WebSphere MQ
- The user adds one or more providers to a workspace
- Next release: wimconfig.xml support, Connections Provider ?

#### Topology Objects and Relationships

- Normalized representation of configuration data - Created by providers

#### Properties

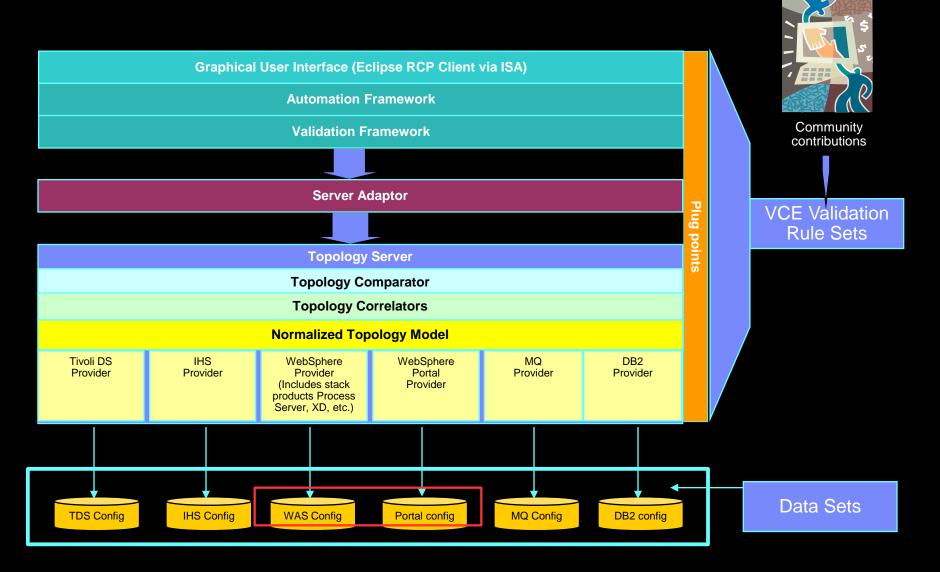
- Detailed information for a topology object instance; Conceptually a tree of tables

#### Diagrams

- Visualization of topology objects and relationships

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### ARCHITECTURE



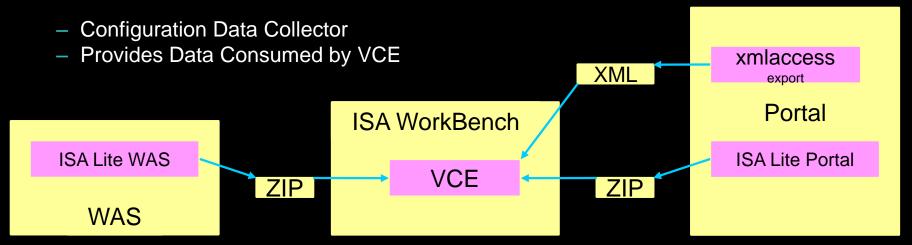
### Software for a sharter planet C Software for a sharter planet C

### **IBM Support Assistant**

#### ISA Workbench

- Provides the "toolbox" in which analysis tools reside (e.g. VCE)
- The place to go for Serviceability Tools across product families
- Assist with opening PMRs and working with IBM Support
- Product information to locate APARs and fixes
- Search feature to query IBM and non-IBM knowledge banks

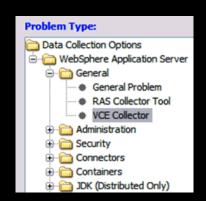
#### ISA Lite

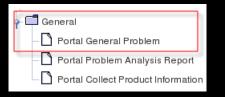


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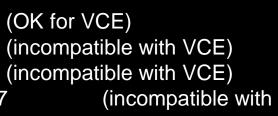
### **IBM Support Assistant**

- Configuration Data Collection Tools
  - WebSphere Portal
    - ISA Lite for WebSphere Portal v6.x v7.x
    - ISA Data Collector for WebSphere Portal v8.x (incompatible with VCE)
    - xmlaccess export
  - WebSphere Application Server
    - ISA Lite for WAS v6.x v7.x v8.0
      ISA Data Collector for WAS v6.x v7.x v8.0
      Data Collection Tools for WAS 8.5
    - "collector" for WAS deprecated as of WAS v7
    - VCE)





(OK for VCE)



(OK for VCE)



# Demonstration

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### Software for a smarter planet Compartor



#### VCE OVERVIEW - Search

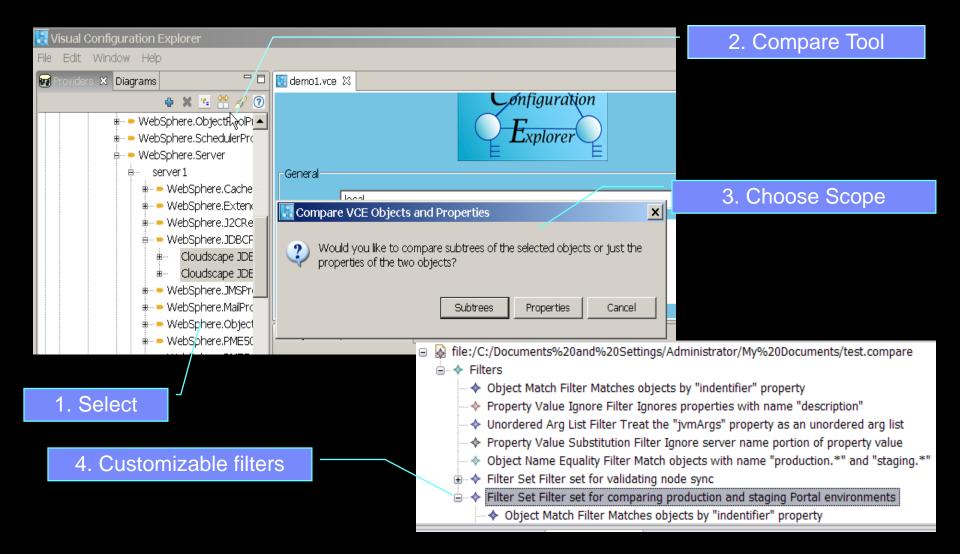
Powerful Scoped Searching

<u>F</u> ile <u>E</u> dit <u>W</u> indow <u>H</u> elp					
😼 Providers 🛛 Diagrams 🛛 📲 🗰 🗶 💌 🛱 🔗 🕐 🗖	🔣 *test.vce 🛛	🕼 file:/C:/Docume	ent 😡 fil	le:/C:/Eclipse%	» <sub>2</sub>
<ul> <li>New Providers Alias-[WebSphere] cell=WPS61RC-ND7CELL:1</li> <li>CH1-[WebSphere] techchp1.rtp.raleigh.ibm.com (1/25/08 5:</li> <li>CH2-[WebSpherePortal] techchp1.rtp.raleigh.ibm.com (1/25/08 5:57 PM)</li> <li>CH3-[TDS] techchp1.rtp.raleigh.ibm.com (1/25/08 5:57 PM) {</li> <li>CH4-[MQ] techchp1.rtp.raleigh.ibm.com (1/25/08 5:57 PM) {</li> <li>CH5-[IHS] techchp1.rtp.raleigh.ibm.com (1/25/08 5:57 PM) {</li> <li>CH6-[DB2] techchp1.rtp.raleigh.ibm.com (1/25/08 5:57 PM) {</li> </ul>			Visual Conf	figuration	
	Gene VCE Properties Search Settings				
	Object	Search st	ring .*heapsiz	.e.*	
		e sensitive	🗹 Regular	expression	
E Outline 🛛 🗖	Prope Sear	rch property node nam	nes 🗹 Search (	property names	
An outline is not available.	initiali maxin initiali maxin initiali	rch property values			OK Cancel
	maxin initial				
	maximumHeap			[WebSphere] cell=W	
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# Software for a snarter planet C



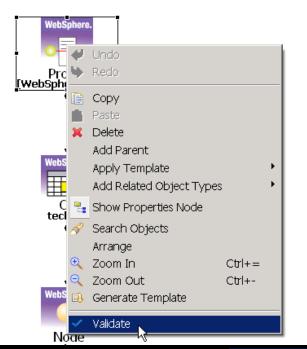
### VCE OVERVIEW - Compare



# Software for a smarter planet C Software for a smarter planet C



#### VCE OVERVIEW - Validate



#### 🗸 Validation Results 🗙

Severity	Rule Name	Target	Message	
🗉 🕭 Warning	Non Default Log Level D	server1	The log level detail has a non-default value	
			<pre>services[2]::startupTraceSpecification: *=all=disabled</pre>	
🗆 🛈 Info	Verbose mode garbage c	server1	Verbose mode garbage collection is recommended for serviceability	
			jvmEntries[0]::verboseModeGarbageCollection: false	
🗆 🕭 Warning	Non Default Log Level D	WebSphere_Portal	The log level detail has a non-default value	
			<pre>services[2]::startupTraceSpecification: *=all=disabled</pre>	
🗉 🛈 Info	Verbose mode garbage c	WebSphere_Portal	Verbose mode garbage collection is recommended for serviceability	-

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### **EXAMPLE FOR A STATE OF A STATE O**

#### VCE OVERVIEW - Headless

Headless Runtime can be installed directly on target systems

-ANT-based scripting drives VCE function from CLI

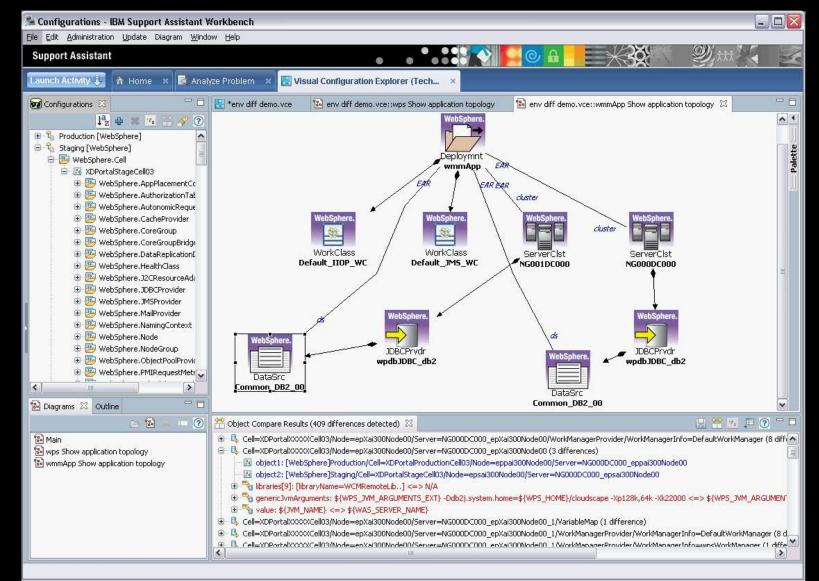
-Allows integration with other roll-your-own or formal systems management infrastructures

```
</description>
         <!-- Default main target for automation-example. -->
         <target name="main" depends="initProps" description="Main target for automation-example.">
                  <!--Call the WebSphere Exporter-->
                  <ant antfile="wasexporter\wasexport.xml" />
                  <antcall target="createWorkspace" />
                  <antcall target="createProviders" />
                  <antcall target="exportConfig" />
                  <antcall target="createAppServerDiagram" />
                  <antcall target="validateConfig" />
                  <vce.saveWorkspace workspace="ws1" />
         </target>
                           createWorkspace:
                           [echo] Creating workspace foo.vce
[vce.createWorkspace] File model 'ws1' exists -- overwriting it.
                           createProviders:
                                [echo] Creating providers from c:\bofa\vce\wasconfigs\foo.configuration using current
                           [vce.createProviders] Creating provider at relative path ${workspace.path}/wasconfigs/foo.configuration
                           exportConfig:
                           [vce.query] Query found 237 objects
                           [vce.query] Query results written to C:\bofa\vce\foo.export.xml
                           createAppServerDiagram:
                           [vce.createDiagram] Adding 3 objects to diagram.
                           validateConfig:
                           [vce.validate] Wrote validation results to file C:\bofa\vce\foo.validate.xml
                           BUILD SUCCESSFUL
                           BUILD SUCCESSFUL
                           Iotal time: 2 minutes 56 seconds
```

# Software for a sharter planet Comparison



#### **VCE OVERVIEW - Diagrams**



# Software for a smarter planet Comparison



### Where to find more information

VCE Community on IBM Connections

https://ibm.biz/BdxRkk

- IBM Support Assistant WorkBench (→ VCE Tool Download)
   <a href="http://www.ibm.com/software/support/isa">http://www.ibm.com/software/support/isa</a>
- IBM Support Assistant (ISA) Lite for WebSphere Portal

http://www.ibm.com/support/docview.wss?uid=swg24008662

 IBM Support Assistant (ISA) Lite for WebSphere Application Server http://www.ibm.com/support/docview.wss?uid=swg24020502



# Any Questions ?