

wily  
introscope

Performance Management for IBM WebSphere

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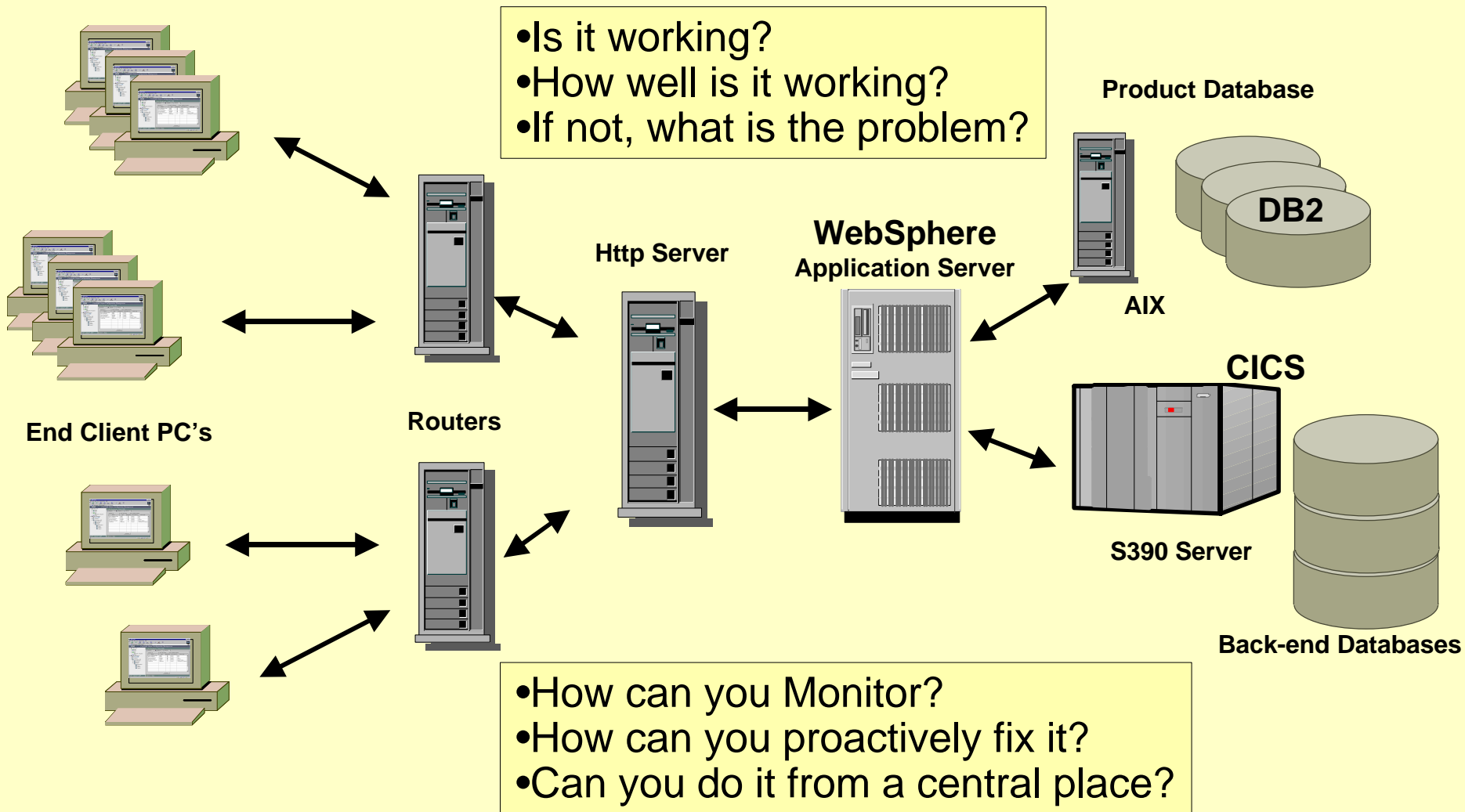
*(650) 227-7607*

*(888) GET - WILY*



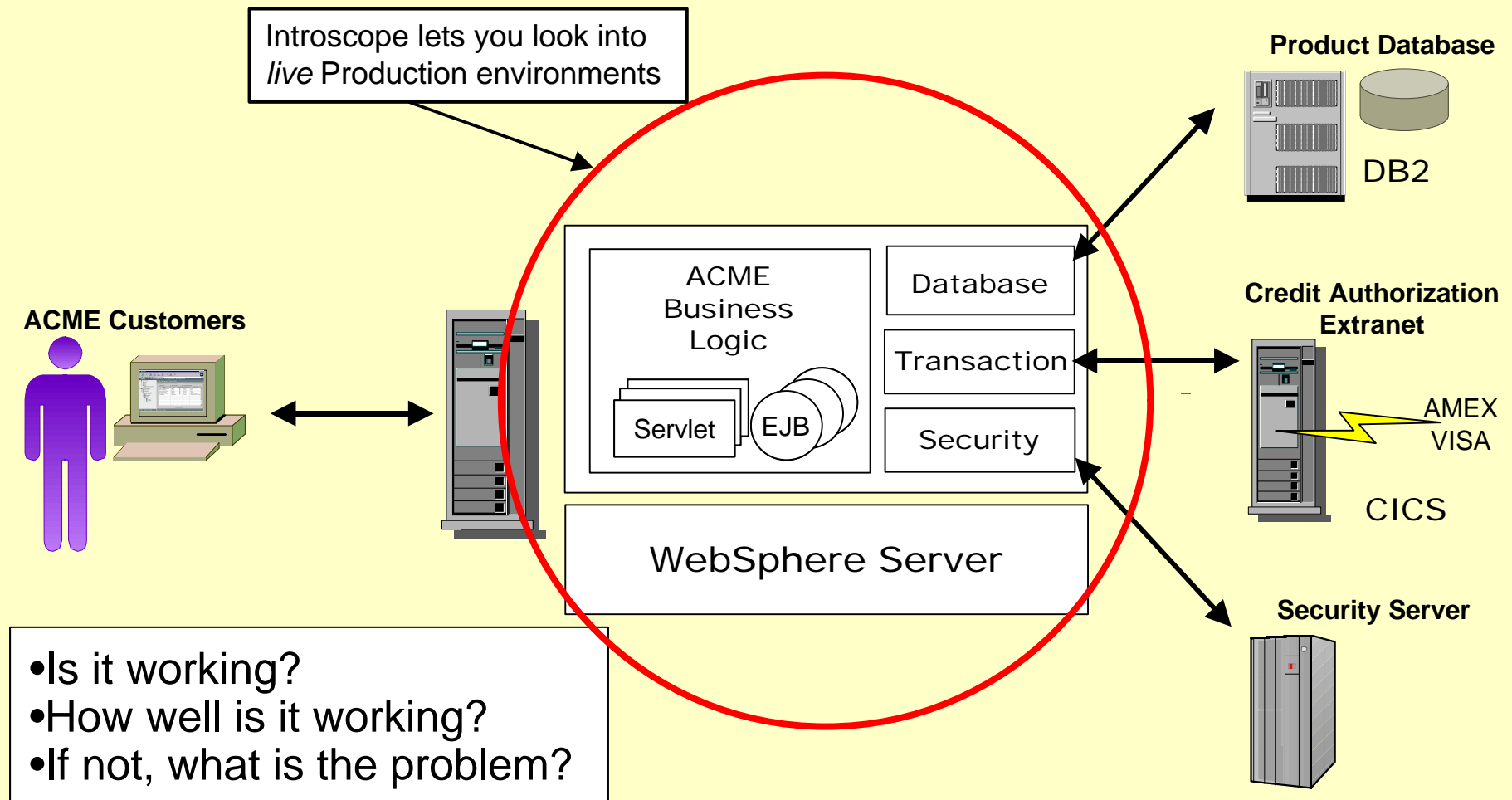


## The Management Problem





## Problem Example - ACME.COM





## Introducing Introscope V2

### Web Application Component Monitor

- Realtime Application Server performance
- Isolates problems & bottlenecks to specific components

### Alert & Event Manager

- Custom policies for alerts, events, & thresholds
- Supports Alerts to TME, eMail, & Paging

### Historical Performance & Fault Reporting

- Web Site Capacity Planning
- Trend analysis & Event reporting

Introscope also integrates well with Tivoli TME!



# wily introscope

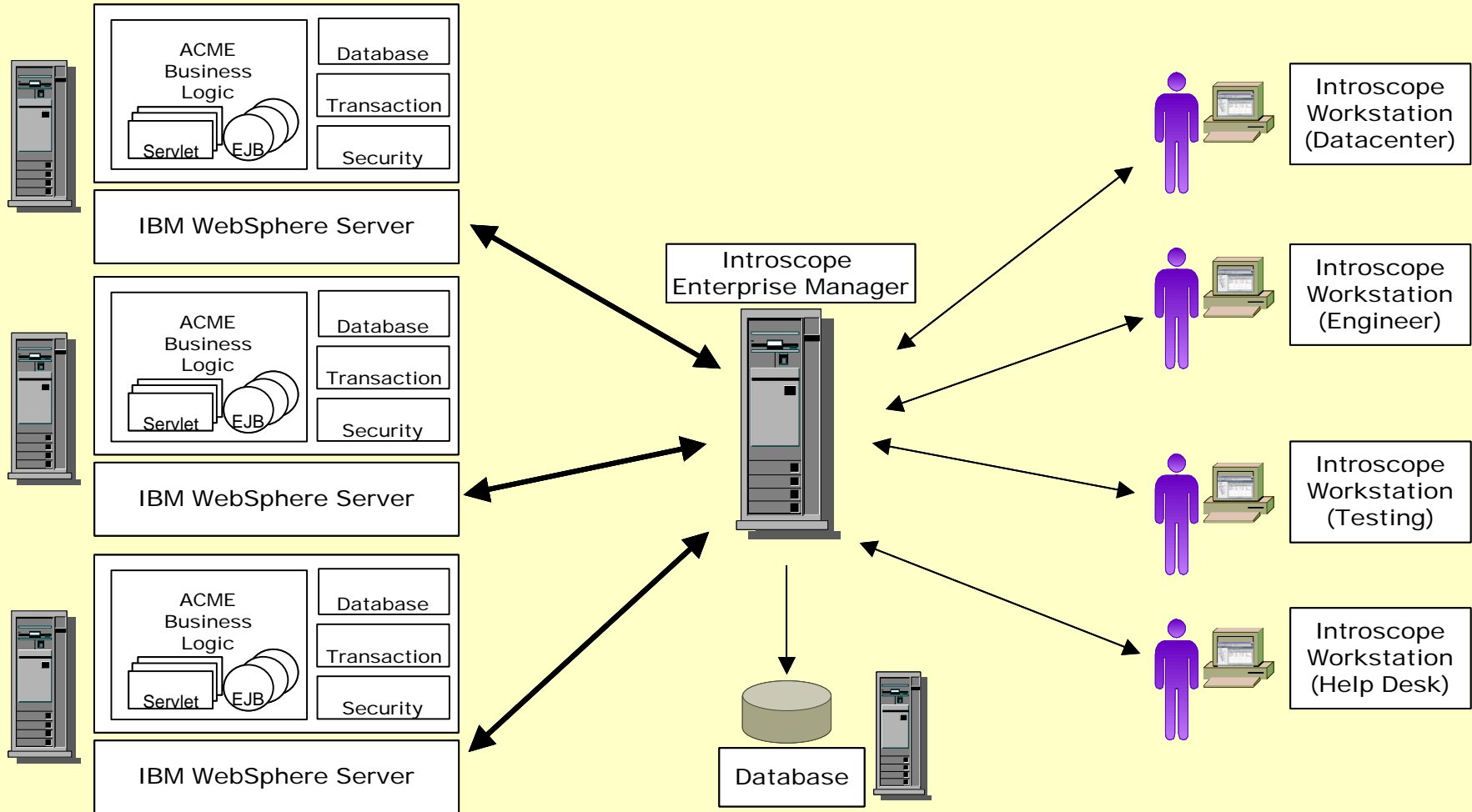
**Only** Introscope lets you

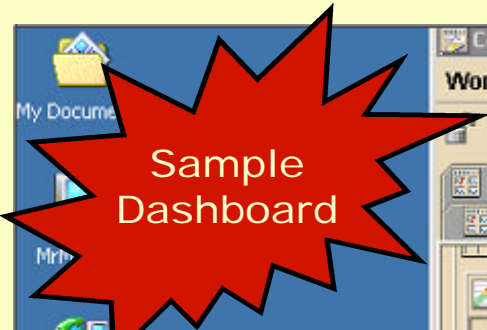
- Monitor **live** production Java web applications
- See inside **3<sup>rd</sup> Party** Components
- Create **Easy-to-Understand** Dashboards
  - So that you can
- See & fix problems before customers see them
- Optimize your live production system

Only Introscope solves the *live* Web App visibility problem



## Introscope Architecture





Console - Introscope Workstation

Workstation Edit Manager Dashboard Help

Example 4 EJB [not editable] Example 5 JDBC [not editable] My Dashboard 1

Example 1 Agents [not editable] Example 2 Sockets Bandwidth [not editable] Example 3 Servlets [not editable]

Performance

**Servlet Performance**

MRMACKAY]...[Servlets:Average Response Time (ms) = 14

**DatabaseQueries**

MRMACKAY]...[JDBC:Queries Per Second = 3

**Output Bandwidth**

**Responses Per Second**

MRMACKAY]...[Servlets:Responses Per Second

Wed, May 31, 2000 12:55:18 PM

Explorer - Introscope Workstation

Workstation Edit Manager Elements Help

- jdbc1
- open
- sample1
- tour
- Sockets
  - Input Bandwidth
  - Output Bandwidth
- Port 8008
  - Input Bandwidth
  - Output Bandwidth

MRMACKAY|WebSphere |1403|Sockets|Port 8008

MRMACKAY]...[Port 8008:Output Bandwidth



## Why Introscope?

- **Live** Component Level Application Monitoring
  - Extremely low overhead
  - See problems before your customers do
- No Source Code Needed
  - Manage any Java component without needing source (i.e. 3<sup>rd</sup> party object code)
  - **Zero** development costs
- Create and transfer **your** custom dashboards
  - Transfer expert knowledge to customers and/or other IS teams

Introscope can monitor **your** application in minutes!






## Introscope 2.0 Features

- Advanced Dashboard User Interface
- Customizable: monitor any method call
- Wily PowerPacks give app-specific metrics & views
  - **IBM WebSphere Server**
  - **JDBC, Sockets, Servlets, Memory, EJB's, API's**
- Wily SmartTrigger™ Alert System– send warnings when certain thresholds are exceeded
- Tested & available on AIX, S390, NT, AS400, UNIX, LINUX
- Managed platform only requires JVM 1.1.3 or higher

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Introscope



## Introscope Monitors...

	Managed Components	Data Coverage
<p>Java Web Applications</p> <p>WebSphere</p> <p>Any 3rd Party Java code</p>	<p>Enterprise Java Beans Session &amp; Entity Beans</p> <p>Servlets</p> <p>Specific Method Tracing</p>	<p>Response Times Transaction Rates</p> <p>Track individual JDBC, RMI, File System, and Socket activity on specific EJBs, Servlets, or Methods</p>
<p>Java Virtual Machines</p>	<p>JVM Memory Usage Garbage Collection System Messages Optional Exception Tracing JDBC activity File System Throughput Network &amp; Socket Activity RMI Requests</p>	<p>Track internal JVM performance, memory usage, as well as the external factors such as disk, database, network and RMI dependencies.</p>

Use Introscope to find the exact problem component



## Near Zero Overhead

- Lightweight traces on heavyweight API
  - Sockets, JDBC, RMI, etc.
- Asynchronous sampling in Agent
- Minimal Agent bandwidth
  - Typically less than 500 bytes per second
- Result: minimal performance hit
  - Typically less than 5%

Optimized for managing applications *in production*



## Help Available to IBM Field Teams

### Getting the Product – [www.wilytech.com](http://www.wilytech.com)

- IBM INTERNAL USE trial license available now
- Introscope training for SEs, Global Services, FTSS, Demos
- Introscope collateral available for your customers

### Helping with Customers

- Performance support on WebSphere Application rollouts
- Java performance Crit-Sit support
- Sales call support

#### **IBM Relationship Manager**

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