

Optimizing your SaaS solution





Audio dial-in: 1-866-423-8350 Conference ID: 7747553241 International dial-in: 1-719-387-8273

© 2009 IBM Corporation

How to submit a question

	Watch Video
Cha	it
Cha	it
Το yοι	ask a question, go to the right side of ir screen and: . select the chat bubble . select Q&A Group
	. type your question . select send
To:	. type your question . select send - Select recipient -
To:	. type your question . select send - Select recipient - - Select recipient - Q&A Group

- 1. Phone lines are muted for all attendees
- 2. Submit your questions using Chat feature of SameTime Unyte



Optimizing your SaaS solution





Audio dial-in: 1-866-423-8350 Conference ID: 7747553241 International dial-in: 1-719-387-8273

© 2009 IBM Corporation

Your speakers today



- Bonnie Durkin
- IBM, Global Program Manager, Software as a Service
- Bonnie is a Senior IBM Marketing Manager, responsible for the implementation of IBM's Software as a Service programs worldwide. Her focus is on program management and marketing support for ISVs deploying the SaaS business model.



- Andy Rubinson
- Akamai, Senior Product Marketing Manager
- Andy Rubinson is a Senior Product Marketing Manager for Akamai's Application Performance Solutions. Prior to Akamai, Andy worked for Ariba, Inc., a leading SaaS provider in Spend Management, marketing their Sourcing solutions. Andy earned his MBA from the MIT Sloan School of Management.

Your speakers today



Michelle Liu

Technical Account Manager

 Michelle Liu is a Technical Account Manager specialized in ILOG's Visualization product line. She has 10+ years of experience with the design and implementation of user interface. Michelle brings her expertise to various activities including technical presales, consulting, training and marketing.



Dana Schmidt

- SaaS / ISV Market Director, IBM Software
- Dana is responsible for driving the program and product strategy for the Cognos Software group at IBM in support of ISVs and SaaS vendors. Over the past 12 years, Dana has been working with software providers in all aspects of the product life cycle to define, architect, integrate and market business intelligence and performance management applications.



Objectives

- 1. Introduced you to three distinct solutions that can help you optimize your SaaS solution as your business grows:
 - Optimize the business impact of your SaaS applications by maximizing performance, availability, and scalability
 - Enhance decision-making speed and ability by making vast quantities of complex data more manageable for users
 - Leverage business intelligence to extend your user community, increase revenue, and elevate renewal rates
- 2. Provide a forum for education, questions and answers

Agenda

- Andy Rubinson, Akamai
 - Optimize the business impact of your SaaS applications by maximizing performance, availability, and scalability
- Michelle Liu, ILOG
 - Enhance decision-making speed and ability by making vast quantities of complex data more manageable for users
- Dana Schmidt, Cognos
 - Leverage business intelligence to extend your user community, increase revenue, and elevate renewal rates
- Questions and Answers



Optimize the business impact of your SaaS applications by maximizing performance, availability, and scalability

Andy Rubinson Sr. Product Marketing Manager, APS Akamai Technologies

Akamai

- Serving the Cloud for a Decade
 - NASDAQ 100
 - S&P 500
- Forbes' 25 Fastest-Growing Technology Companies in US
- Delivery Services
 - Rich media
 - Dynamic web sites
 - Web- and IP-based applications
- 2,800+ customers
 20%+ of Global 500





SaaS Application Delivery Challenges

Fast, Reliable User Experience - Always

- Provide installed experience
- Customer Acquisition
- End-user Adoption
- Contract Renewal

Reach Markets/Users - Immediately

- Locally
- Nationally
- Globally

Minimize Costs – But Scale

- Centralize Infrastructure
- Capacity On-Demand
- Minimize Call-Center Volumes/Complaints









SaaS Application Delivery Challenges **A**kamai **Public Internet** Globally Distributed Users The distance between users and application does not change

Why does distance matter?





The Reality of the Internet "Cloud" Unreliable by Nature & Not Optimized for Performance





13,000 Networks. Largest single network carries 8% traffic.

Powering a Better Internet

© 2009 Akamai

Internet Routing Inefficiency





Real World - Packet Loss common and high, adding to instability





1-Week Packet Loss – Shanghai, China

Key Observations

Packet loss from 1.8% - 100%

Location	Max Packet Loss (%)
Chicago, USA	2.7%
London, England	100.0%
Brazil	2.5%
Manila, Philippines	4.3%
Hong Kong, China	6.1%
Shanghai, China	89.0%
Tokyo, Japan	3.9%
New York, USA	1.8%
Santiago, Chile	11.5%
Perth, Australia	23.0%

Protocol Inefficiency Create 'Chatiness'





Example: Impact of the Internet Cloud on Web App Performance





First Mile Application processing time and content generation

Round Trip Time (RTT) X # Round Trips

Middle Mile

Last Mile Bandwidth-related transfer time

0.25 s

250ms x **31 round trips** = 7.75 s

0.20 s

Total response time = 8.20 sec

95% of total response time is due to the Middle-Mile

Powering a Better Internet

© 2009 Akamai

And then...unplanned Events – Earthquakes, Cable Cuts,...





Web Transaction Data (Dec. 22nd – Jan. 5th)

Traditional CDN approach not designed for today's enterprise Web apps – much less IP-based apps









Public Internet



















Route Dynamically find shortest latency path between end-user and application origin; Route around congestion and packet loss





RouteDynamically find shortest latency path between end-user and
application origin; Route around congestion and packet lossTransportEliminate round trips and maximize throughput on optimized path





Route Dynamically find shortest latency path between end-user and application origin; Route around congestion and packet loss

Transport

Application

Eliminate round trips and maximize throughput on optimized path

Speed end-user response time with intelligent pre-fetching, compression and advanced caching

Performance





Country	Origin (s)	Akamai (s)	Avg Improvement (%)	X Faster
China	12.9	4	223%	3.2
Canada	17.4	3.3	427%	5.3
Germany	24.1	4.2	474%	5.7
India	11.2	3.2	250%	3.5
Singapore	11.8	2.8	321%	4.2
Australia	14.9	3.7	303%	4.0
UK	21.9	4.1	434%	5.3
USA	17.5	4.3	307%	4.1

Powering a Better Internet

© 2009 Akamai





Web Transaction Data (Dec. 22nd – Jan. 5th)

Availability



Scale



Origin Offload of Hits This graph shows the extent to which Akamai Edge Servers reduced the number of hits on your origin. Origin Hits Reduction: 70.3% 80.% 60 % 40 % 20 % 0 % 5 pm 08/12 08/16 08/28 09/05 09/09 09/01 08/20 08/24 Pacific Daylight Time (US & Canada) Estimated data begins at 3:00am

Reduction in HTTP requests to Origin: 70%





SaaS Considerations

User Footprint

- Content Type
- Customer Experience
- Ability to Scale

 For More Information www.akamai.com/aps arubinso@akamai.com Twitter: @akamai





Enhance decision-making speed and ability by making vast quantities of complex data more manageable for users



Michelle Liu, Technical Account Manager liumich@us.ibm.com

What is Visualization?



These tables with numbers...

Distribution Center	Product	Customer	Quantity
Philadelphia	SKU 1099	Malden	25
Philadelphia	SKU 1099	Medford	26
Philadelphia	SKU 1099	Quincy	25
Philadelphia	SKU 1099	Brockton	28
Philadelphia	SKU 1099	Bristol	28
Philadelphia	SKU 1099	Manchester	26
Philadelphia	SKU 1099	Milford	24
Philadelphia	SKU 1099	New Haven	24
Philadelphia	SKU 1099	Stamford	25
Philadelphia	SKU 1099	Bayonne	29
Philadelphia	SKU 1099	Passaic	30
Philadelphia	SKU 1099	Union City	34
Philadelphia	SKU 1099	West New York	25
Philadelphia	SKU 1099	Irvington	27
Philadelphia	SKU 1099	Jersey City	29
Philadelphia	SKU 1099	Wayne	27
Philadelphia	SKU 1099	Lakewood	2£
Philadelphia	SKU 1099	Toms River	31
Philadelphia	SKU 1099	Piscataway	24
Philadelphia	SKU 1099	New York	53
Philadelphia	SKU 1099	Staten Island	41
Philadelphia	SKU 1099	Bronx	40
Philadelphia	SKU 1099	Yonkers	29
Philadelphia	SKU 1099	Brooklyn	52
Philadelphia	SKU 1099	Flushing	37
Philadelphia	SKU 1099	Corona	38
Philadelphia	SKU 1099	Jackson Heights	
Philadelphia	SKU 1099	Elmhurst	
Philadelphia	SKU 1099	Forest Hills	
Philadelphia	SKU 1099	Woodside	
Philadelphia	SKU 1099 🥂	Ridgewood	
Philadelphia	SKU 1099	amaica	
Philadelphia	SKU 1099	stead	
Philadelphi	SKU 1099	ndraway	
Philadelp	SKU 1029		
Philadelp.	SKU	Pat'	
Philade	1		
	-		

Philadelphia	✓	2,283,556.686	757,300
Akron		959,494.279	375,200
Denver	 Image: A set of the set of the	4,157,189.358	508,500
Los Angeles	✓	369,516.075	740,800
San Francisco	✓	286,215.75	295,200

Plant	Product	Distribution Center	Quantity
Denver	SKU 1099	San Francisco	922
Denver	SKU 1099	Los Angeles	2,406
Denver	SKU 1099	Denver	1,604
Philadelphia	SKU 1099	Akron	1,214
Philadelphia	SKU 1099	Philadelphia	2,559
Denver	SKU 1199	San Francisco	751
Denver	SKU 1199	Los Angeles	1,718
Denver	SKU 1199	Denver	1,530
Philadelphia	SKU 1199	Akron	956
Philadelphia	SKU 1199	Philadelphia	1,702
Denver	SKU 1299	San Francisco	357
Denver	SKU 1299	Los Angeles	878
Denver	SKU 1299	Denver	347
Philadelphia	SKU 1299	Akron	368
Philadelphia	SKU 1299	Philadelphia	753

... Or this graphical display by ILOG Visualization?





ILOG Visualization







•Since 1987

- •Graphical components for developing UI •Visualization products in Java, .NET,
- C++, Eclipse, AJAX, Flex/Air

•Three areas

- •Visual modeling applications
- •Visual monitoring
- Analysis applications

Added Values

- •Complex customized user interfaces
- •We bring innovation to the interface
- •We provide customizable building blocks
- •We can handle "headaches"
 - •Huge data sets
 - •Fast screen redraws

An IBM Compa



Typical Use Cases and References



Telecom



Goal

 Provide administrators with an intuitive view of their equipment and quality of service

Features

- Pre-built symbols (networks, equipment)
- Smart network topology displays
- Real-time updates
- Desktop and web



An IBM Compa

Defense





Goal

- Real-time dynamic tactical displays
- Symbols and maps

Benefits

- Customizable, high-performance displays for land, air, sea displays
- Real-time alternative to ESRI



An IBM Compar

Industrial Supervision



Goal

Real-time supervision of infrastructures (SCADA)

Features

- Pre-built symbol and screen editors
- High performance refreshes
- Fully customizable
- Desktop or Web







An IBM Company

Planning and Scheduling





Goals

- Visualizing and editing plans, schedules, projects, resource charts
- Tailored symbols and interactions

Features

- Scalability and full customization
- Desktop and Web



Diagramming, Visual Modeling



e View Demo Helt k ≪ ≪ S 🗉 🕸 🖑 🕨 🗐 Aggregate View: Customer Suppor Customer Suppor Ticket 45A32 Ticket 46A23 Ticket 89A23 (\$ Ticket 29A54 - 🔴 Ticket 89B23 →<u>()</u> Ticket 89C58 Ticket 11A85 Ticket 58C73 Ticket 56V96 C Sales Table ill Chart 😣 Overview Number of Pending Work Items Expert □ R&I đ 00:08 00:09 Time Ticks (MM:SS

Goal:

- Displaying complex diagrams
- Offering visual modeling capabilities to final users
- Supporting specific notations

Features:

- Graph layout arrange diagrams automatically
- Pre-built editing tools to bootstrap dev
- Pre-built notations
 - BPMN support
 - Any other notation (UML, etc) by customization
- Desktop or Web



An IBM Company

About ILOG JViews















ILOG JViews Gantt





Interactive schedules and plans

- Task or resource oriented views
- Resource load chart
- Calendar view for final user
- Critical path computation
- Navigation and filtering through tree table

An IBM Company

ILOG JViews Charts





Interactive highperformance charts

- Wide variety of business, scientific, and data exploration charts
- Real-time performance
- Custom interaction
- Scale to large data sets
- 3D support



ILOG JViews Maps





- Interactive high-performance maps
 - Map data fusion from most popular formats
 - Overlaid with animated objects
 - Multi-threaded load on demand
- Support most map formats
 - Shapefile, MID/MIF, Tiger/Line, GeoTIFF, GIF, JPEG, DTED, DXF, KML, KMZ, etc
 - Free maps CDROM + Connection to 100's of OpenGIS compliant WMS servers

ILOG JViews Maps for Defense





- Complements JViews Maps
- Military Map formats
 - CADRG, ASRP, USRP, S57/S52, DAFIF
- Military Symbol sets
 - NATO APP6a
- Terrain Analysis Features
 - Line of sight, area of visibility, terrain shading, etc.
- True 3D views
 - On the flight visualization
 - Fly-through
 - 3D symbology

ILOG JViews Diagrammer







- Interactive diagrams
 - Custom dynamic nodes and links
- Complex diagrams kept readable
 - Graph layout algorithms
 - Sub-graphs, expand/collapse
 - Dynamic Symbol decluttering
 - Custom data indicators
- BPM and SOA support
 - BPMN, swimlanes, BPMN modeler

ILOG JViews Diagrammer (continued)







- Integrate with JViews Gantt
 - Transform a Gantt view into a Logical view
 - Pert Chart View
- Integrate with JViews Map
 - Physical Map-based display
 - Geo-referencing graphic overlay

ILOG JViews Graph Layout for Eclipse





- Graph Layout algorithms for Eclipse EMF, GEF and GMF based applications
- Non-intrusive integration Design

An IBM Company

ILOG JViews Telecom Graphic Objects



🔲 Corsica

Spain

Mux2

Mux2

- Ultimate GUI for service, network, or equipment management
 - Supports many standards, including OSS/J and TMF
 - Complete network visualization
 - Logical and physical views
 - Graph layout
 - Unified look-and-feel
 - Easy front-to-back integration

Why People Choose ILOG JViews



- Products for building intuitive and interactive displays
 - Custom Displays
 - Diagrams, dashboards, maps, schedules, charts, editors
 - Specialized features for Telecom, BPM, Defense
 - High performance: large sets of data, fast responses
 - Deployment to the desktop or web
- Benefits:
 - Improves end-user productivity: Visualize better and react better
 - Speeds time to market
 - Embeddable, Customizable, Scalable
 - Save at least 80% of development time
 - Support and maintenance

ILOG Elixir 2.0 - Components



11 data display components 3D charts Gauges & dials Vector Maps Calendar view Gantt resource chart Gantt task chart Organization chart Pivot charts Heat map Treemap Radar chart

Why People Choose ILOG Elixir



- Ready to use components
 - Dynamic Web Sites
 - Pure client-side Adobe Flex components with no external dependencies
 - Available on Windows, Mac & Linux in English and Japanese
 - Integrated into the Adobe Flex Builder
- Off-the-shelf component provider
 - Save development time
 - Support and maintenance

Online demos

- Java: ILOG JViews
 - http://www.ilog.com/products/jviews/demos/
- Flex: ILOG Elixir
 - http://www.ilog.com/products/ilogelixir/demos/
- .NET:
 - ILOG Gantt for .NET
 - http://www.ilog.com/products/diagramnet/demos/
 - ILOG Diagram for .NET
 - http://www.ilog.com/products/ganttnet/demos/
- C++: ILOG Views
 - http://www.ilog.com/products/views/demos/



Leverage Business Intelligence to Extend your User Community, Increase Revenue, and Elevate Renewal Rates

Dana Schmidt, SaaS/ISV Market Director, IBM Software,

Business Intelligence and Performance Management



Information Management

© 2009 IBM Corporation



Accelerating Your Journey to Business Optimization





Information Management

© 2009 IBM Corporation

55



Accelerating Your Journey to Business Optimization



Information Management



Software Provider: Business Optimization Value

Driving Revenue, Differentiation, and Customer Satisfaction



Information Management



Software Provider – Business Optimization Maturity Model

Moving from Reporting and Business Intelligence to Actionable Decision Support System







Partner/Customer Needs

- Pervasive, Timely Access to Information
- Adapt to changing business conditions and process
- Extendibility to new environments
- Seamless Integration UI and Workflow

Cognos Invests

- Broad Purpose-built End User Capabilities
- Flexible, Adaptable metadata and metric definitions
- SOA Platform
- Service API:
 - **Open Web Service Interface**
- Contextual Content API:

Cognos Mashup Service (REST, SOAP)





Extending your Application Reach with Cognos 8

Delivering on Business Optimization



Cognos Leverage

HTML, AJAX, Flex, etc.



Any Source

Security, All Data, Messaging

Cognos. software

60

tended Your Application Platform

Information Management

© 2009 IBM Corporation



Extending your Application Reach with Cognos 8





IBM Cognos OEM Go-to-Market Program

Beyond industry leading technology and aligned OEM business model, IBM partners with Software providers from design to sales execution to deliver proven results.





"The <u>complete zero footprint</u> architecture of IBM Cognos 8 maps well to Infor's offerings, and its <u>scalability</u> meets the enterprise-class needs our customers

have come to expect of our hosted solutions."



"IBM Cognos 8 is increasing our average deal size through driving single silo application sales into application suite sales."

"Cognos platform was clearly the SaaS friendliest, and Cognos understood the value of SaaS and it's future."



Cognos. software

Information Management



"Partnering with Cognos provided us with More than just reports it provided the <u>room to grow our offering</u> into Analytics, Metrics, etc."



Cognos. software

Information Management



What type of Applications need Bl...most





Business Intelligence vs. Visualization

Cognos. software

- End User Centric Functionality
- Broad BI Capabilities
 - Dashboarding
 - Reporting
 - Authoring
 - Analysis
 - Scorecards
 - What-if Modeling
- Open, Embeddable
- Integrates with ILOG Visualization



- Developer Centric Visualization tool kit
- Robust and Specialized Visualizations
 - Planning and Scheduling
 - Diagramming, Visual modeling
 - Map displays for Telecom, Defense, Supply Chain
 - Industrial Supervision
- Open, Embeddable
- Integrates with IBM Cognos 8



Information Management

How to submit a question

	Watch Video
Cha	it
Cha	it
То уог	ask a question, go to the right side of Ir screen and: . select the chat bubble . select Q&A Group . type your question
	. select send
To:	. select send - Select recipient -
To:	 . select send - Select recipient - - Select recipient -
To:	- Select recipient -

- 1. Phone lines are muted for all attendees
- 2. Submit your questions using Chat feature of SameTime Unyte

