

OpenView-Centric Management of E-Services

Eric Jacobs InoTech, Inc. www.inotech.com 800-InoTech



Systems, Network and Applications Management

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What We'll Cover

- The Opportunity
- The Implementation Approach
- Management of E-Services
- Glimpses of What You Get
- Cost, Time and ROI

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The Threshold for Pain for E-commerce Customers

What will end-users tolerate?

- 8 seconds maximum to show something on the page
- 20 seconds to complete the display
- 6 seconds for end user to decide to stay/leave
- 6 mouse-clicks maximum to find the desired information

And if the threshold is exceeded?

- Take their business to a competitor
- Hold on to their money

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• Make use of a more costly channel - a call center, the local sales rep...

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The competition is a mouse-click away!



What will it cost your organization ?

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- If e-shoppers get disconnected in the middle of lengthy sessions?
- If your sales reps and channels can't get their orders in at month-end?
- If your clients can't access your systems to enter their trades?
- If your customers go back to phone support because they couldn't access your website?

More traffic means less revenue if customers click away because of poor performance.

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Like it or not ... You're at bat ...

Your Company



Your Company.com

Customers Visit Your Store

with Customers

Customers Visit Your Data Center

Electronic Interaction Personal Interaction with Customers

Known Number of Customers

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Unknown Number of Customers



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Like it or not ... You're at bat ... and the stadium is full

Your Company



Your Company.com

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IT (you) SUPPORT the Business

IT (you) ARE the Business



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Like it or not ... You're at bat ... and the stadium is full

Your Company



Your Company.com



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It's your moment to deliver ...

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And to make sure you do ... Apply technology and expertise ...

Your Company

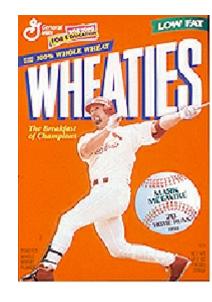






HP OPENVIEW



















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So you have an Effective Management System

Your Company

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Your Company.com

Which Clearly and Quantitatively
Proactively *Prevents* Problems *Quickly Find* the Root Cause of Problems that Occur
Monitor and Communicate the *Health* of Your Infrastructure
Provide Useful *Business Metrics* to Senior Management
Monitor and Report *SLO* and *SLA Status*Monitor and Report *Customer Satisfaction* Metrics

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(Yeah, right ...)

Iterative Process

<u>Understand Domain to be Managed</u>
 IT Resource Perspective (Yours and Vendors)
 Business Services Perspective
 Customer Perspective
 User Perspective

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(Yeah, right ...)

2. <u>Consider Value</u>
•IT Now on Front-Line
•Basic Business Equation ...

Revenue - Cost = Profit



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(Yeah, right ...)

3. Consider Revenue

Ensure/Enhance Customer Experience (Can't improve what you're not measuring)
Collect Valuable Sales and Marketing Data
Differentiate Your Organization (Automated, real-time, communication with customers)
Stay In Front of Competitors (Measure the customer experience at your competitors' sites)



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(Yeah, right ...)

- 4. Consider Costs (Direct, Indirect, Corporate Valuation)
 - •Downtime

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- •Performance Degradation
- •Lost Customers/Orders
- Troubleshooting/Corrective Action
- •Time To Effectiveness for New IT Ops Staff

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(Yeah, right ...)

5. Deploy

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- •Instrumentation
- Technology Integration
- •Event Flow, Data Collection and Data Management
- User Interfaces Ops, Escalation, Mgmt, CustomersReporting

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(Yeah, right ...)

5. <u>Deploy (cont'd)</u>
•Go for High Value/ROI (IRR)
•80/20 Rule - Get the Basics
•Go for the Pain & What's Important
•Set-up for Success - SMART Objectives

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(Yeah, right ...)

6. Operate

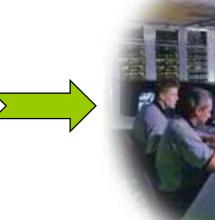
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- •People
- Process/Work Flow/Change Management
- •Key Performance Indicators/Metrics (Mgmt System)
- •Management of Management System
- •Minor Enhancements & Capture Knowledge

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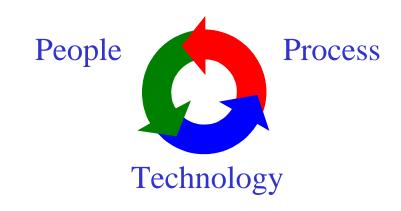






(Yeah, right ...)

6. Operate - Balance ...





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(Yeah, right ...)

- 7. Quarterly Review
 - Changes in Managed Domain (Infrastructure, Scale)
 Opportunities for Value and Cost Savings
 Key Performance Indicators/Metrics (Mgmt System)
 Last Quarter's Events, Problems, Outages ...
 Captured Institutional Knowledge

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(Yeah, right ...)

- 8. <u>Quarterly Management System Enhancement</u>
 - Additional Instrumentation
 - •Integration/Upgrade/Patching of Components
 - •Process/Work Flow Changes
 - •Training of New Personnel
 - •Changes to Event Flow, Data Collection and Data Mgmt

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8. <u>Quarterly Management System Enhancement ... (cont'd)</u>
•Enhance User Interfaces - Ops, Escalation, Mgmt, Customers
•Enhance/Expand Reporting

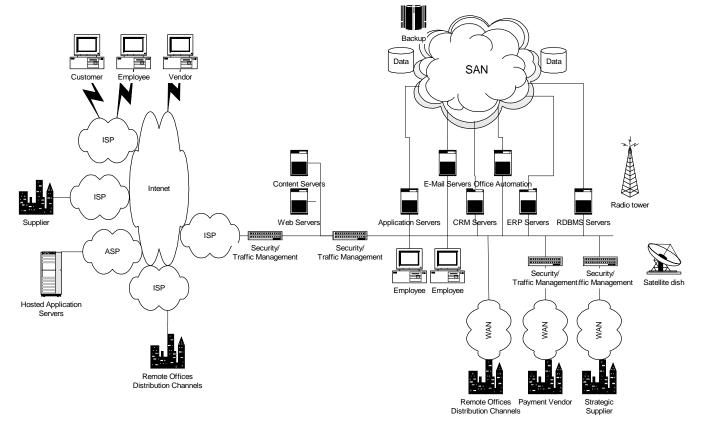
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Typical Managed Domain

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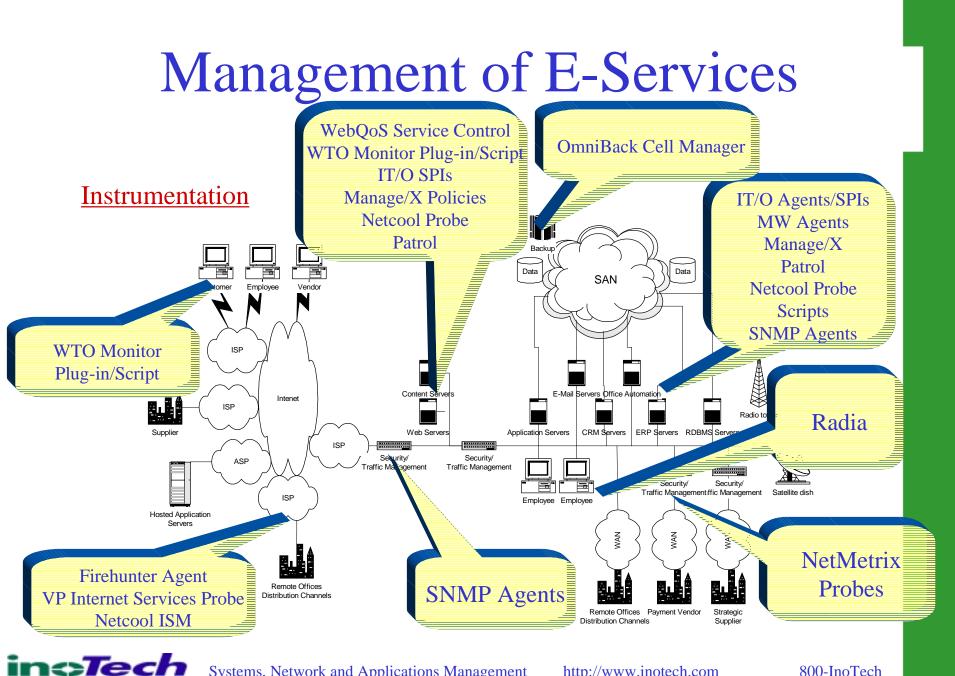


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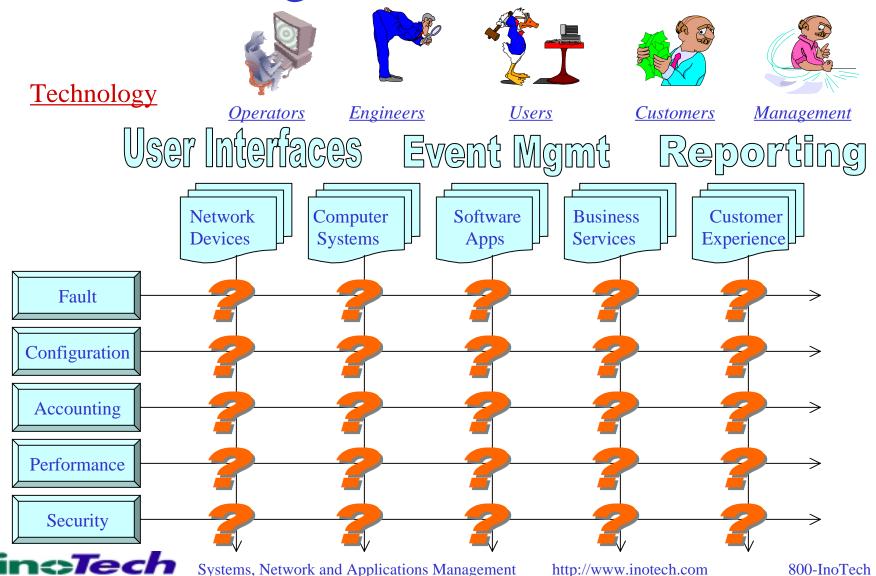
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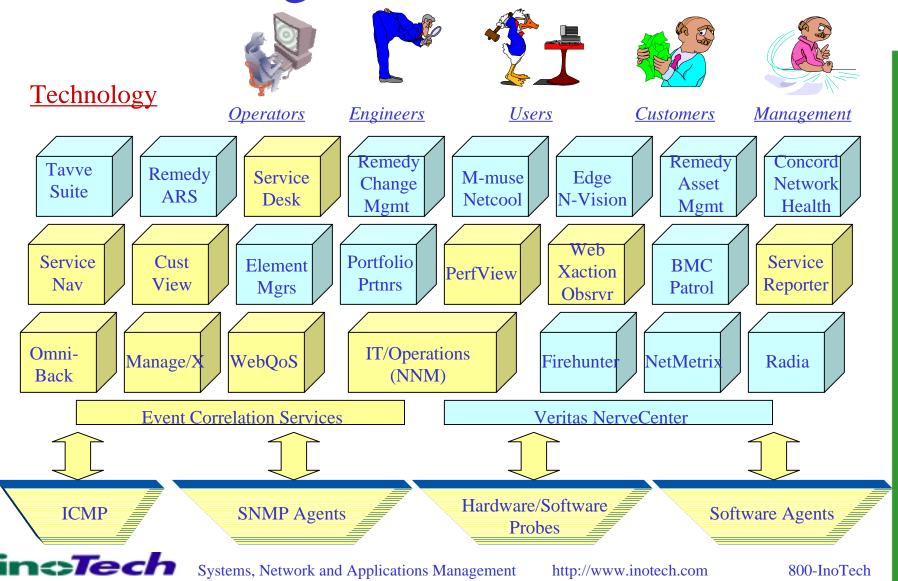


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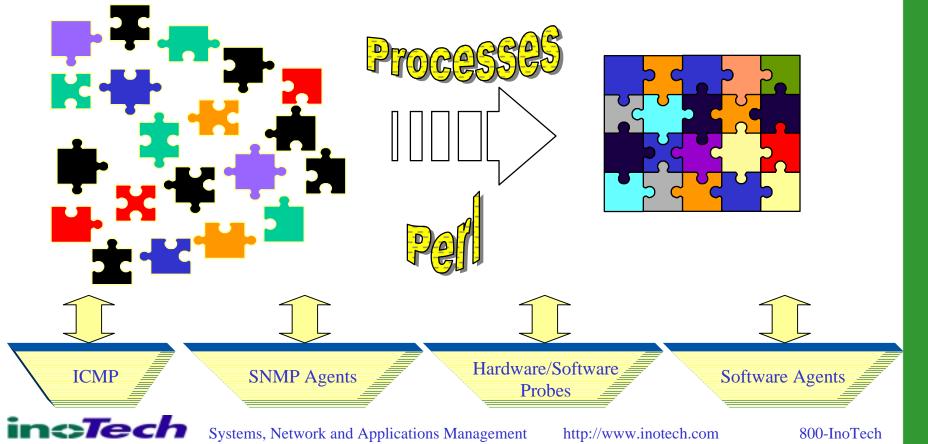
<u>Operators</u>

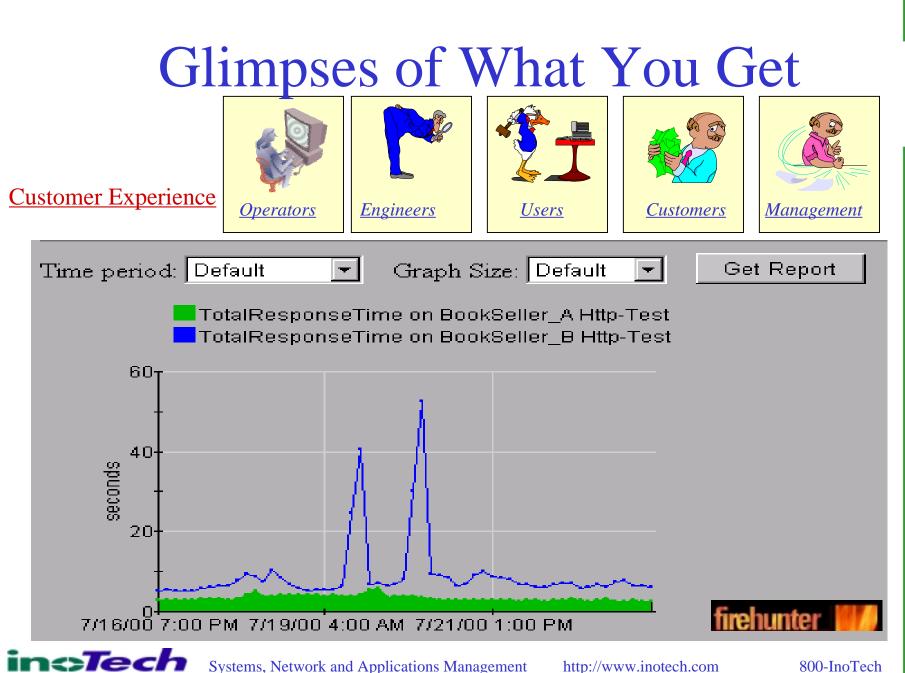
<u>Engineers</u>

<u>Users</u>

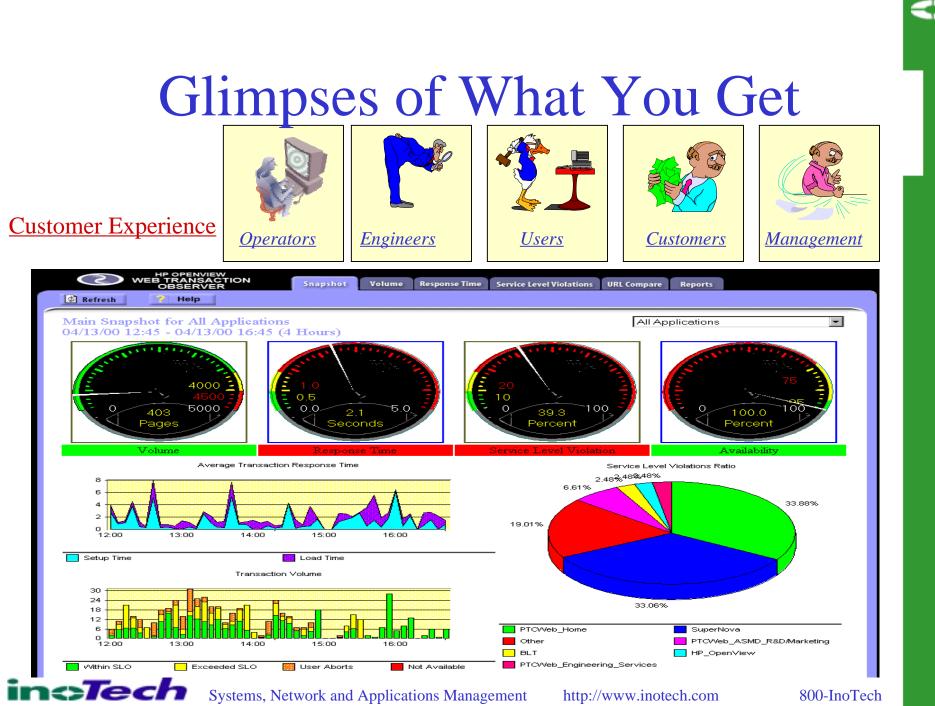
<u>Customers</u>

<u>Management</u>



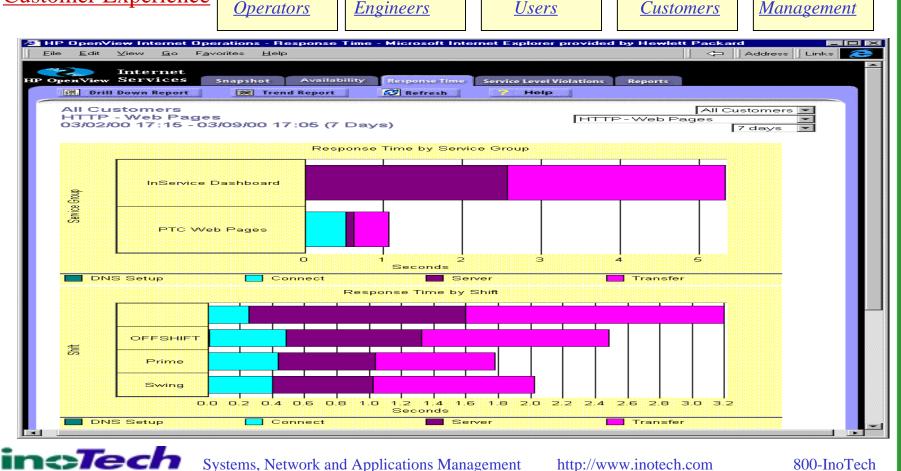


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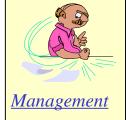


Customer Perspective









Contiguration Fault Tools Op	tions <u>W</u> indow <u>H</u> elp	
Network Configuration		
Organizations >	All Organizations	
System: Information	Organization Properties	
SNMP: Trap Recipients	Associated Network Re	sources
Windows NT Registry Editor	Associated Organizations	
	All Network Resources	with Associations
	1	

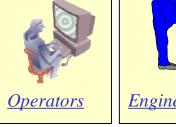


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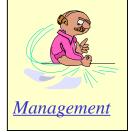
Customer Perspective







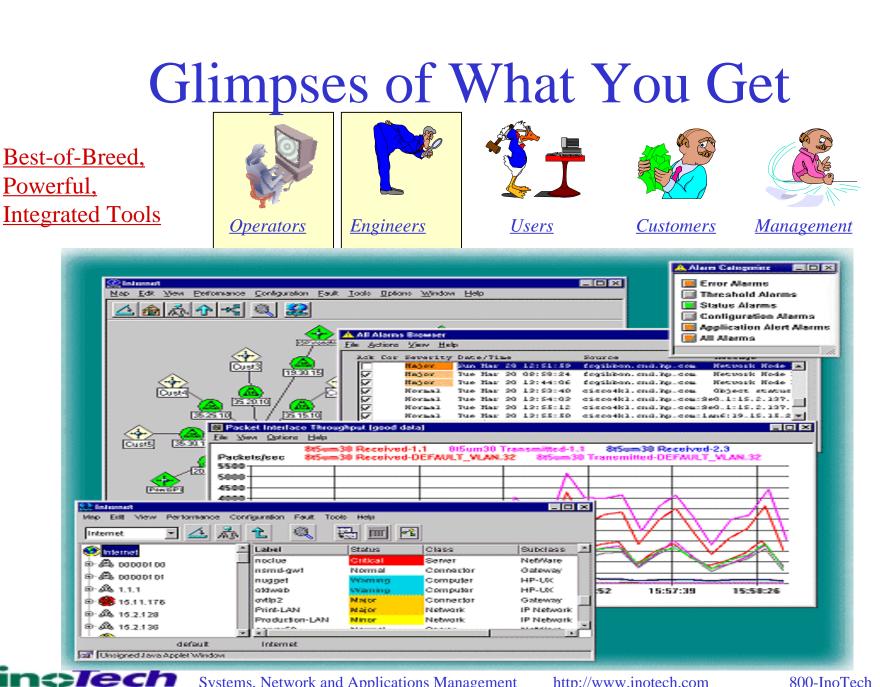




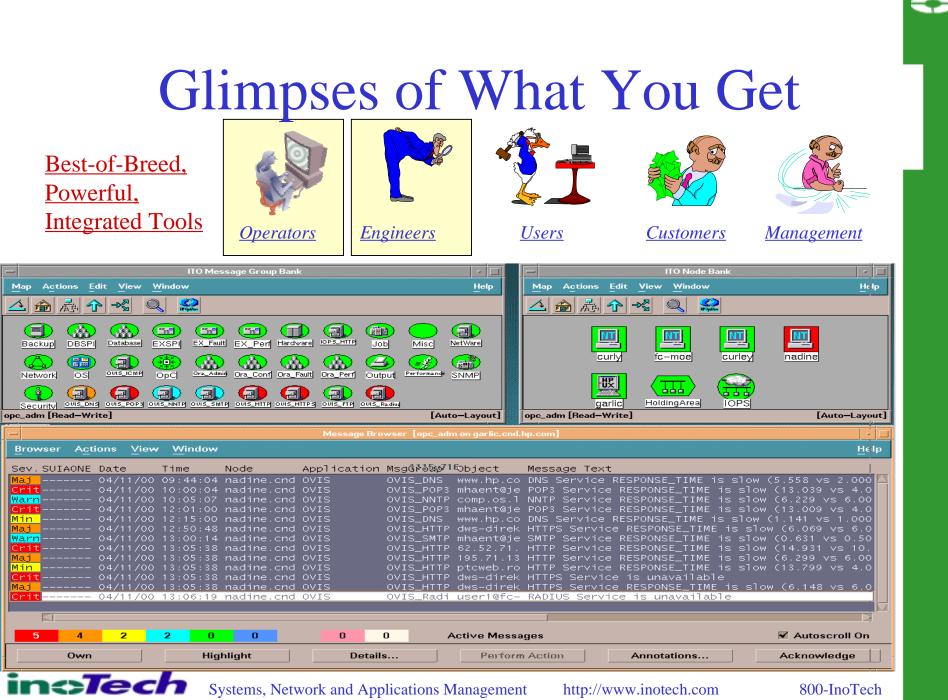
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a	Network Configuration		
S	Organizations	<u>All Organizations</u>	
	System: Information	Organization Properties	
T	SNMP: Trap Recipients	Associated Network <u>R</u> esources	
	Windows NT <u>R</u> egistry Editor	Asso <u>c</u> iated Organizations	
		All <u>N</u> etwork Resources with Associations	

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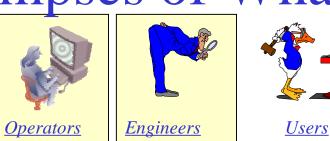


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Glimpses of What You Get

Status from a Service and Business Perspective



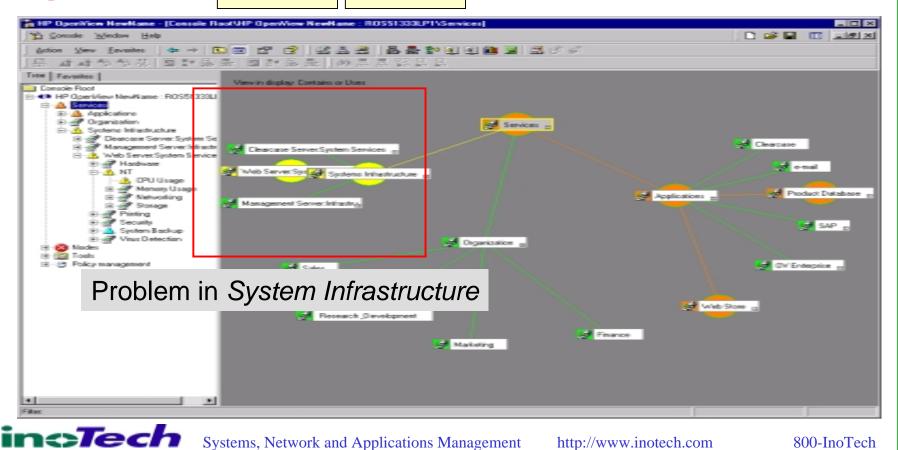




Customers



Management



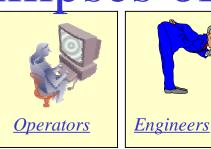
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State-of-the-Art Context-Rich Visualization <u>Capability</u>







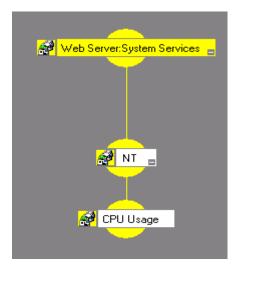
Customers

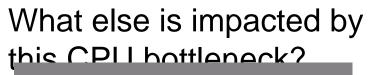


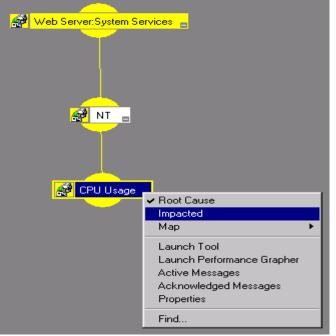
Management

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Root Cause: CPU bottleneck

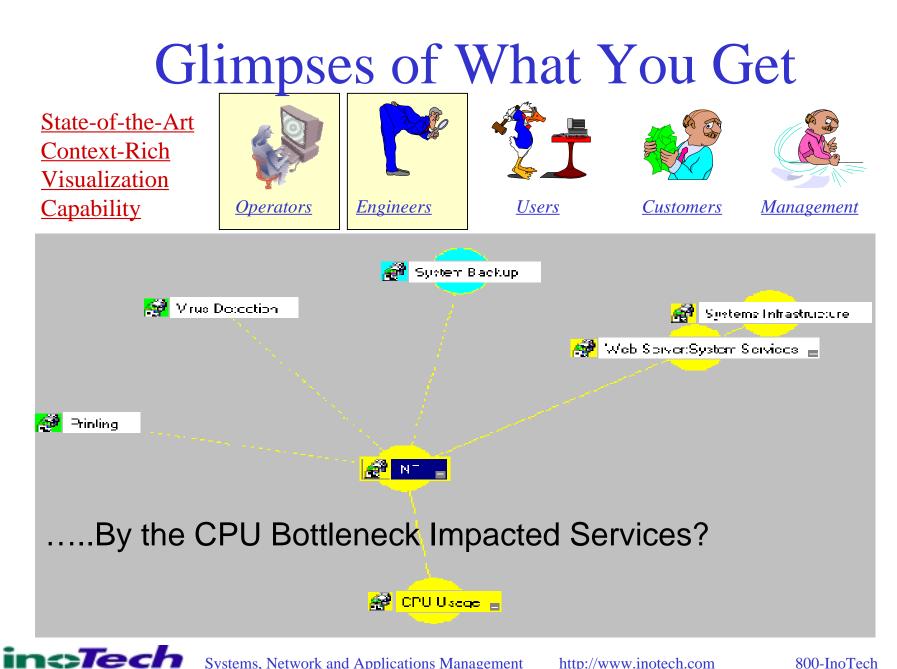






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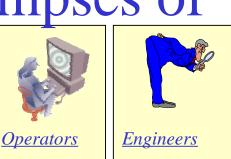
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Expanding Acquisition of Institutional Knowledge and Processes

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Immediate Scheduled			System name adcpc008			
	ŤZI	NT003 0009B12376	Admin Info			
Close Help	adcpc008 adcnw010		System usage			
ITA: Root Domain: wartburg			Operating system MS-DOS/PC-DOS			
<u>File Manager Actions Help</u>			OS version 6.22			
System name Wartburg						
Admin Info			Apply Cancel	_		
System usage						
Operating system			Hardware Software Windows po grante Distribution			
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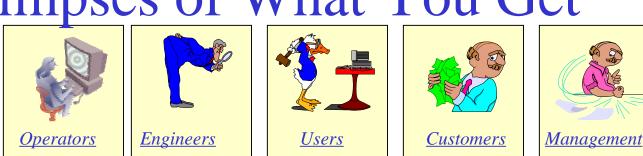
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Real-Time Web QoS Management

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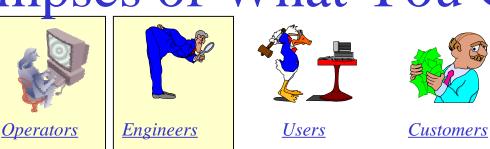


HP WebQoS											
File Actions Help											
Filter Statistics Edit Copy											
Services Service level objectives for www.BigCompanyStore.com in BigCompany on hpntc2k											
👖 My Domain 🛛	Status	Priority	Component	Objective							
🖣 💼 🖗 BigCompany	Violation	3	www.BigCompanyStore.com	Support up to 90% CPU load on hpntc2k.cup.hp.com in 🔽							
● 🔜 🛉 hpntc2k	Risk	2	www.BigCompanyStore.com	Support at least 100 concurrent session(s) in www.BigC							
www.BigCompanyStore.com	Compliance	1	www.BigCompanyStore.com	Maintain less than 5 millisecond average response time							
SmallCompanySupport.com SmallCompany SmallCompany Mpntc2k Www.SmallComapny.com		1									

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Real-Time Server Management







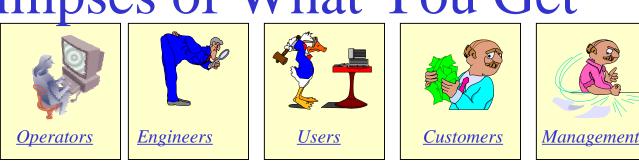
Management

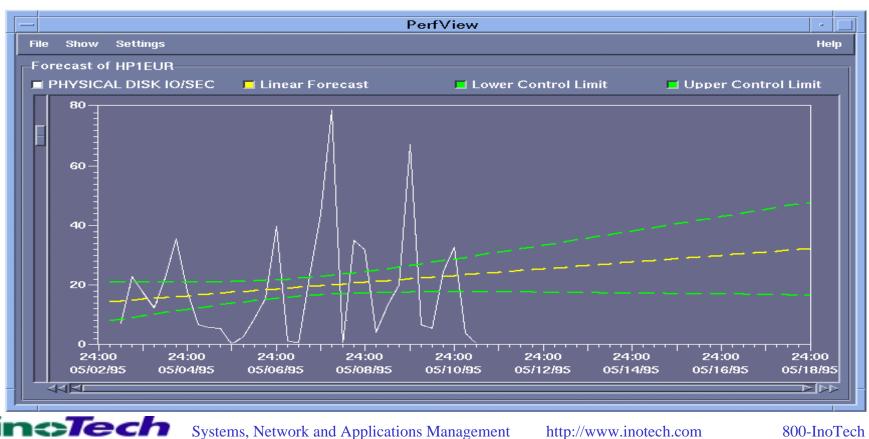
HP GlancePlus – Main File Reports Adviser Configure Help System: hpptc28 Last Update: 14:08:15 47 Int: sec ALARM User <mark>Sys Nice Rtime</mark> Limit = 100% Limit = 100% User Sys Cache Disk User Sys Raw VM Limit = 45 per sec. Network Limit = 170 per sec. inc*Tech*

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System Resource Forecasting

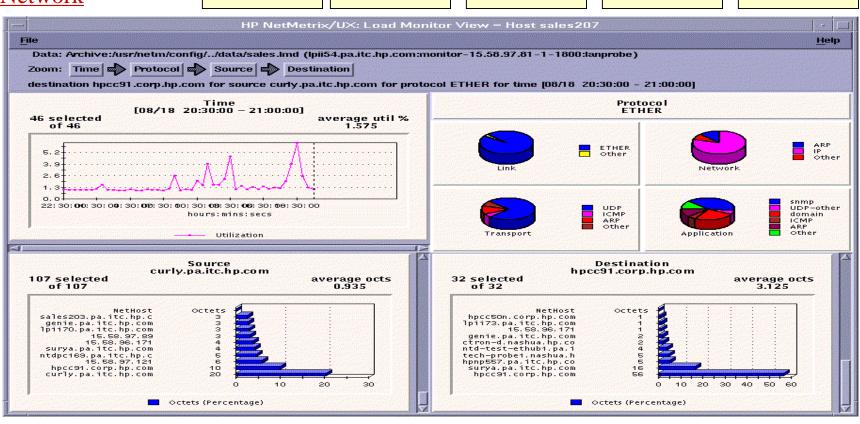




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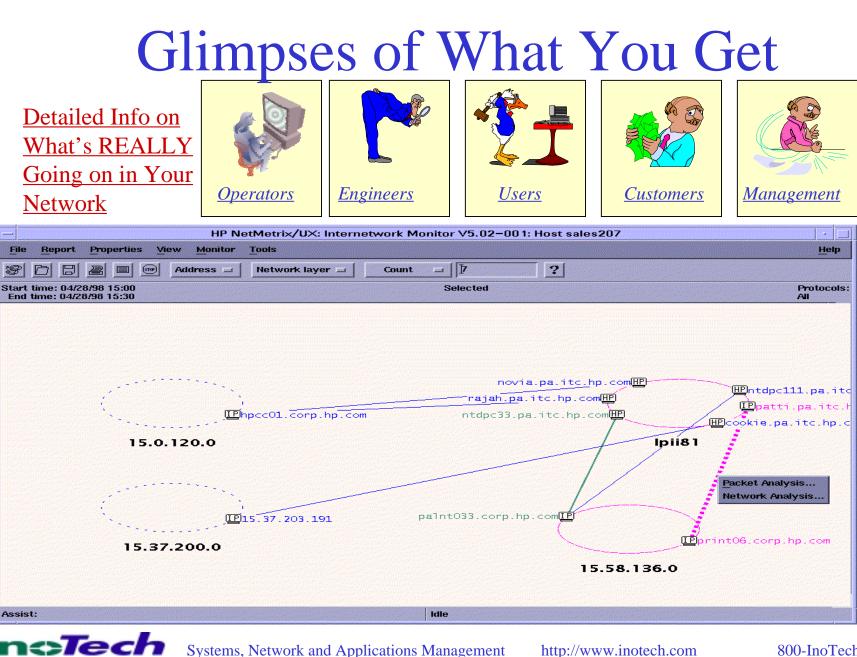
Detailed Info on
What's REALLY
Going on in Your
NetworkImage: Construction of the sector of



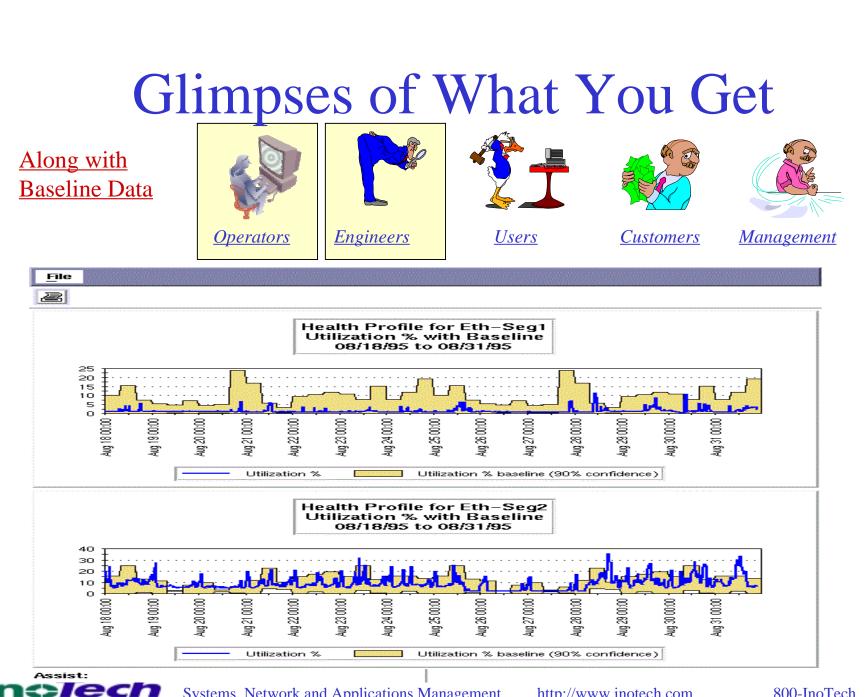
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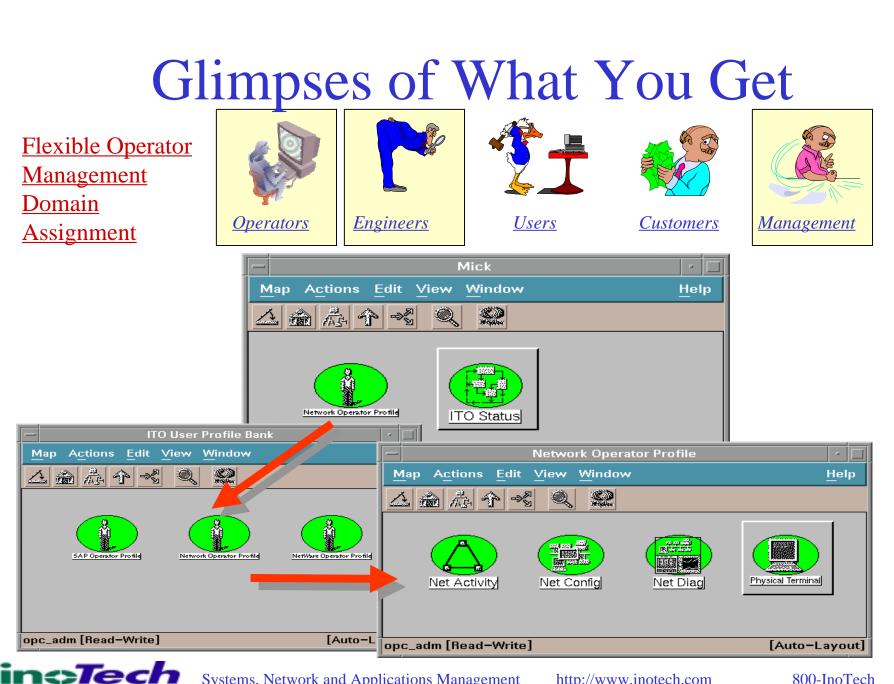
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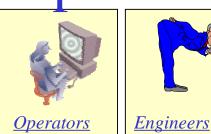
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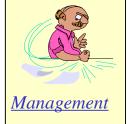
Powerful Reporting Tool and Gobs of Pre-configured Reports







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OpenView Service Reporter
System Up Time

System Up Time is calculated based on the amount of time that the MeasureWare collector was running.

Prime Shift is defined as shown at the end of this report. Off Shift is all other times. The "All Day" percent is based on 24 hour days for the range of dates in the database.

This report was prepared: 7/2/99, 5:23:29 PM

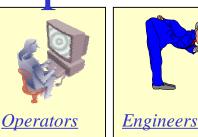
SystemName	Dates in	Days in	All Day	Prime	Off Shift
	Database	Database	Up Time %	Up Time %	Up Time %
appsvr0	4/13/99 -4/19/99	7	100.0	100.0	100.0
appsvrl	4/13/99 -4/19/99	7	100.0	99.9	100.0
appsvr128	4/13/99 -4/19/99	7	100.0	100.0	100.0
appsvr27	4/13/99 -4/19/99	7	100.0	100.0	100.0
appsvr42	4/13/99 -4/19/99	7	100.0	100.0	100.0
appsvr50	4/13/99 -4/19/99	7	100.0	100.0	100.0
appsvró	4/13/99 -4/19/99	7	98.9	96.6	99.4
appsvr77	4/13/99 -4/19/99	7	100.0	100.0	100.0
bashir	4/13/99 -4/19/99	7	99.6	99.1	99.7
belanna	4/13/99 -4/19/99	7	100.0	100.0	100.0
bigbird	4/13/99 -4/19/99	7	97.1	87.0	99.4
cat	4/13/99 -4/19/99	7	99.9	99.7	100.0
chakotay	4/13/99 -4/14/99	2	89.2	91.3	88.1

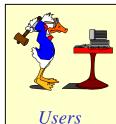


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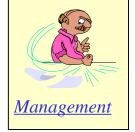
Including Reports on Effectiveness of Management System







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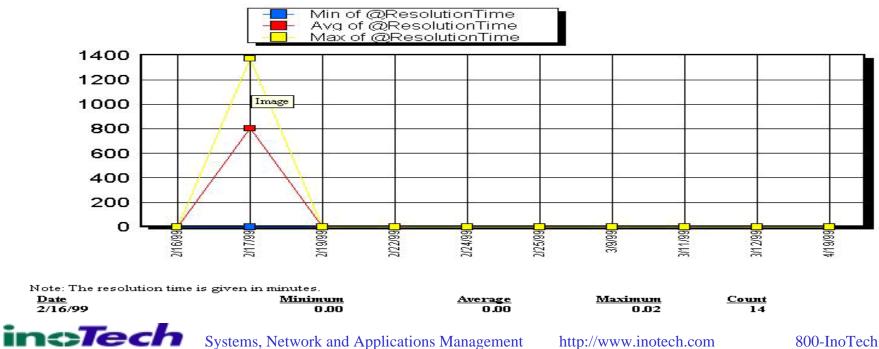


OpenView Service Reporter

ITO Resolution Time Trend

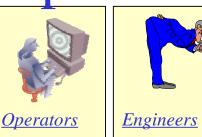
This report shows the minimum, average, and maximum time to acknowledge messages each day. This report was prepared: 7/6/99, 12:25:55 PM

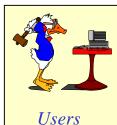
ITO Management Server: plumas



Including Reports on Effectiveness of Management System

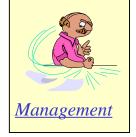
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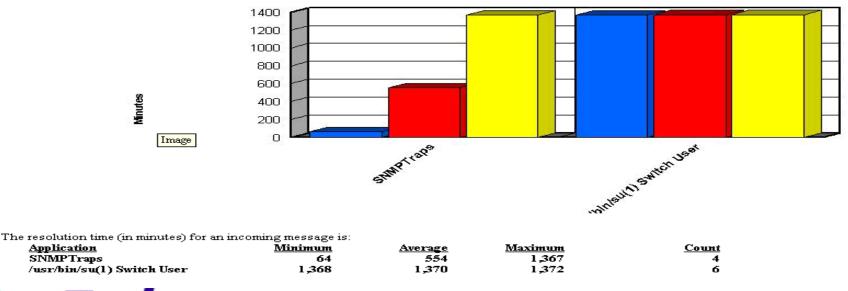


ITO Resolution Time by Application

This report shows the time it takes to acknowledge a message for each application

(minimum, average, and maximim).

This report was prepared: 7/6/99, 12:24:33 PM ITO Management Server: plumas



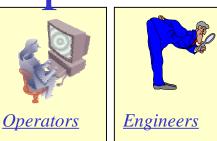
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Including Reports on Effectiveness of Management System

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Users



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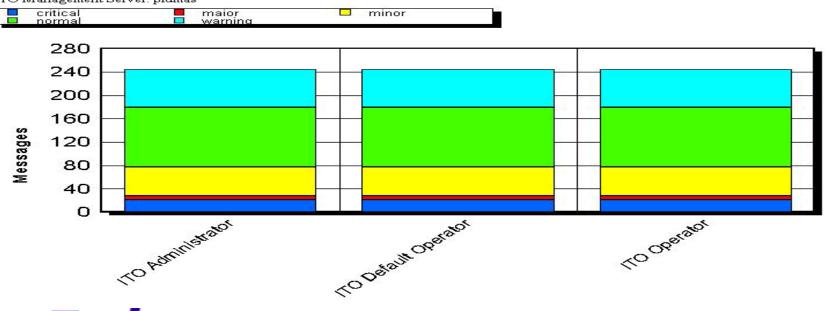




ITO Message Load per Operator

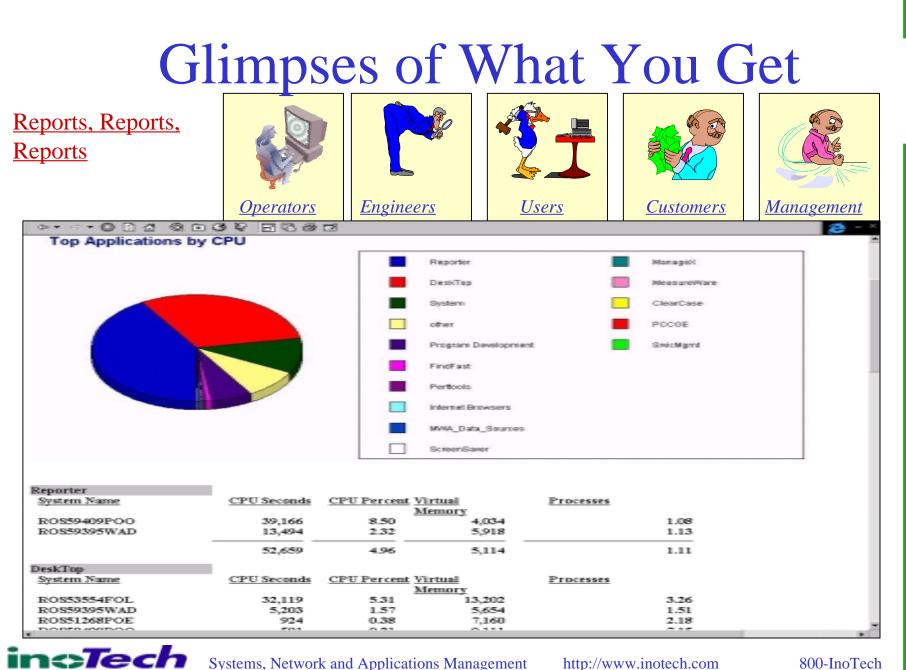
This report shows the number of messages received by each operator.

This report was prepared: 7/6/99, 12:24:53 PM ITO Management Server: plumas



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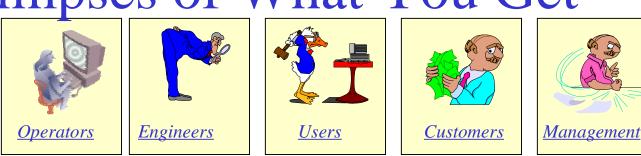


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<u>Reports, Reports,</u> <u>Reports</u>



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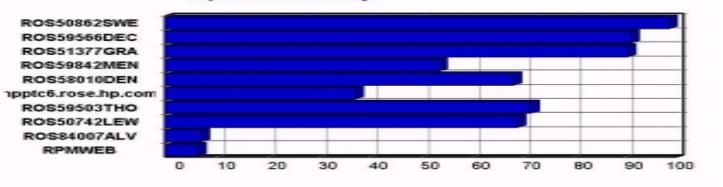


Top Busy CPU Systems

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This report was prepared on 7/10/98, 12:02:37PM

This report shows which systems consumed the most CPU cycles during the reporting interval of 7/3/98 - 7/9/98. The graph shows the average CPU busy percent for each system. Some systems may have a higher busy percent but an overall lower total CPU cycles consumed if data is not available for that system for the entire reporting interval. See the individual system graphs below for more information.



Top CPU Percent Busy

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Cost, Time and ROI ...

(see fine-print)

- Estimated Costs ...
 - From \$75k \$100k to \$1.5m \$3m
- Time to Value ...
 - 1-3 months
- Time to Substantially Operational ...
 - 3 9 months

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- Return-on-Investment
 - 10:1 within 12-24 months

Typical Estimates for Small to Medium-Large E-Business Infrastructures Your Mileage May Vary You Must Take Delivery By December 1, 1998

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What We Covered ...

The Opportunity
IT Front and Center ...



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What We Covered ...

- The Implementation Approach
 - Understand Domain to be Managed
 - Consider Value
 - Consider Revenue
 - Consider Costs (Direct, Indirect, Corporate Valuation)
 - Deploy
 - Operate

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- Quarterly Review
- Quarterly Management System Enhancement

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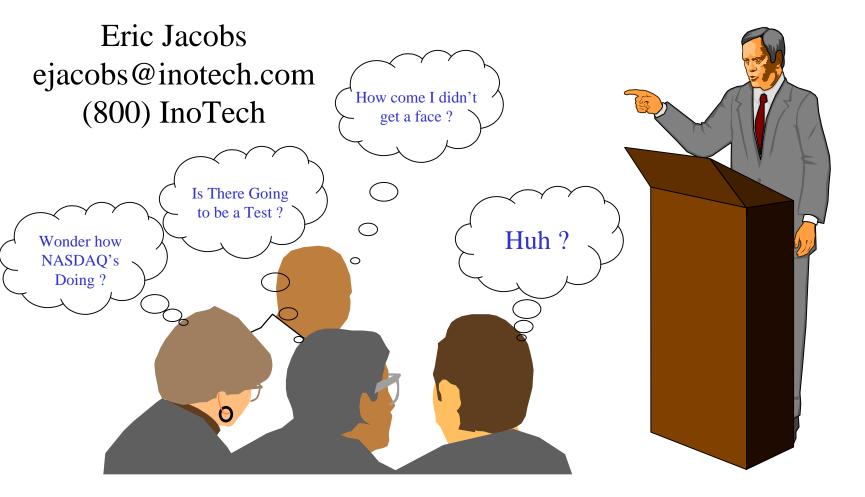
What We Covered ...

- Management of E-Services
- Glimpses of What You Get
- Cost, Time and ROI



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Questions ? ... More Info ?



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