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Splunk IT Service Intelligence at Vodafone

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Referenced customers for ITSI product participated in a limited release software program that included items at no charge.

Motivation

"Without data you're just another person with an opinion."

W. Edwards Deming

Michael Connor / The Coca-Cola Company @ Splunk .conf 2014

About Vodafone

- World's second largest
 Telecommunications company
- Provides voice, messaging, data and fixed communications
- Operates in 30 countries and partners with networks in over 25 more
- >400 Million mobile customers and
 12 million broadband customers



About Me

- Oliver Hoppe, Solution Architect & Integration Designer
- Involved with any kind of Operational Analytics at Vodafone
- Splunk champion & past user
- Big Data ambassador & pioneer



Goals

- Respect & trust your data
- Make your data accessible
- Create comparable data
- Present your findings
- **Improve** your Service



Agenda

- Service Description & Initial Condition
- Before Splunk IT Service Intelligence
- Splunk IT Service Intelligence at Vodafone
- Summary
- Vodafone Roadmap

Service Description & Initial Condition

Complexity vs. Visibility

Complexity



- 7 Oracle FMW Components
- Oracle RAC
- Infrastructure
- Enabler Services

Visibility



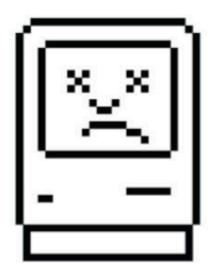
- Infrastructure Monitoring
- Network Monitoring
- Application Monitoring

- No end-to-end service view
- Missing incident prevention
- Lost in tickets

Before Splunk IT Service Intelligence

Alert Fatigue

- IT Operations team lacked visibility into health and performance of the service
- No reliable service performance and availability reports for management
- Monitoring Solutions generated thousands of remedy tickets
 - Prioritization difficulties
 - Affected performance of the service



Service selection & target definition

- Workforce Identity & Access Management Service selected for ITSI
- Collected ~50 KPIs from all
 Stakeholders to be implemented

Target Service	
KPI Definition	
Data Requirements	
Data Onboarding	
Ready for ITSI Rollout	

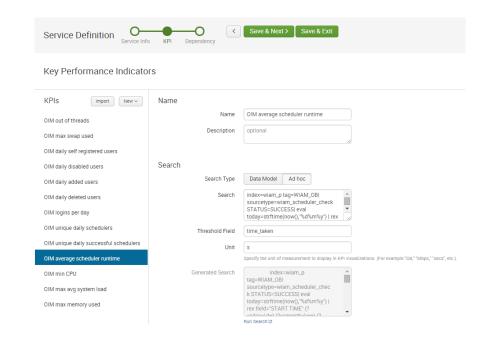
Overview

- Automatic Event Consolidation
- Build Service dependencies
- Service Analyzer
- KPI presentation using deep dives and glass tables
- Multi-KPI Alerting

"Splunk IT Service Intelligence (ITSI) is a highly scalable IT monitoring and analytics solution that provides deep, actionable insight into the performance and behavior of your IT services."

Automatic event consolidation

- Defining new KPIs
 - Based either on a data model or an ad-hoc search
 - Importance, Calculation method and search schedule
 - Threshold and severity
- KPIs are automatically scheduled for summarization



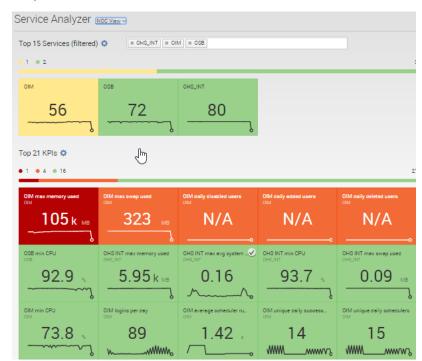
Service Dependencies

- Each Service can depend on other Services
- A dependency can be the overall healthscore or a set of different KPIs
- Service healthscore is influenced by dependencies

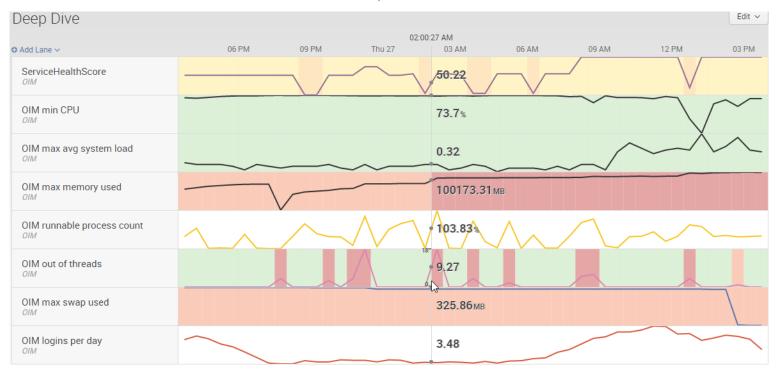


Service Analyzer

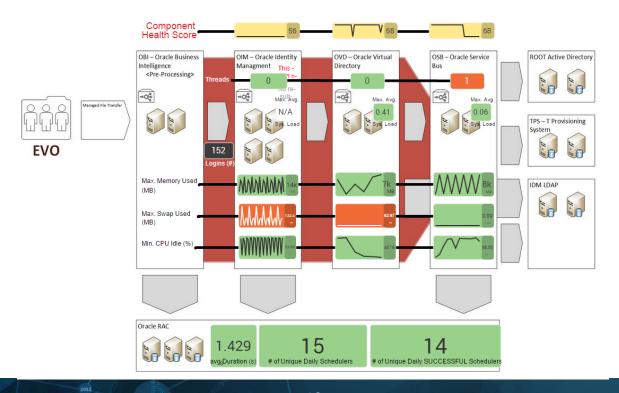
- Direct Service Overview
- Services Health Score Trends
- KPI Trends
- Drill down to Deep Dive
- Top Notable Events



Deep Dive

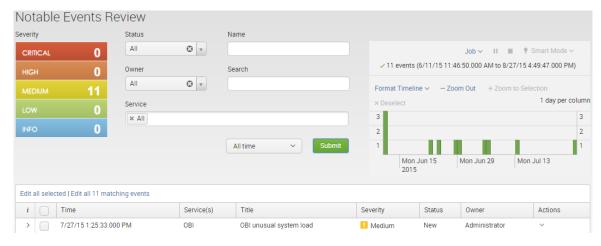


Glass Table



- Correlation of multiple violated KPIs
- Drill down into Deep Dives
- Create a Service Now Ticket

Multi-KPI Alerting



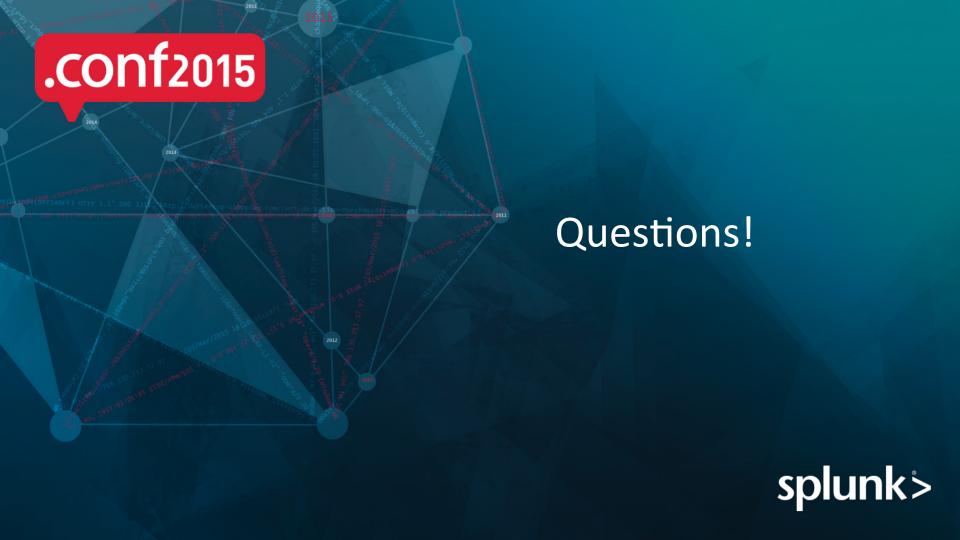
Conclusion

- Time-to-Market in 2 days
- Reduced MTTR
- Real-time session visibility
- Actionable insights in hours not days
- Increased audience
- Custom KPIs empower teams

"Building KPIs was very, very easy!"

Vodafone Roadmap

- Extension of KPIs for the existing Integrations
- Roll out more services already in the queue
- Splunk ITSI as default scope element for any new Service rollout
- Standardization of data collection for performance KPIs
- Add capacity management capability
- Extend Splunk ITSI audience to Management, Business, and Security





Keep On To Improve

"It is not enough to do your best; you must know what to do, and then do your best."

W. Edwards Deming