Satellites, Choropleth Maps and ITSI... oh my!





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ViaSat At-A-Glance

Overview: Broadband services and technology company

Headquarters: Carlsbad, California, USA

Founded / IPO: 1986 / 1996 (NASDAQ: VSAT)

• Revenues: \$1.4B

Employees: 3,800+ Globally

Markets Served: Residential and Enterprise Internet; In-flight Internet,

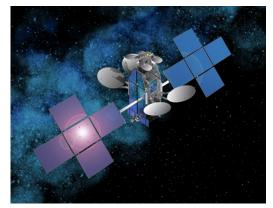
Commercial Wi-Fi; Government and Military Communications Systems; Cybersecurity

Innovation Highlights: Leaders in High Capacity Satellite Design and Development

ViaSat-1 class satellites (domestic): 140Gbps

ViaSat-2 class satellites (regional): 300 Gbps (launch 2017)

ViaSat-3 class satellites (global): 1,000 Gbps (launch 2019)



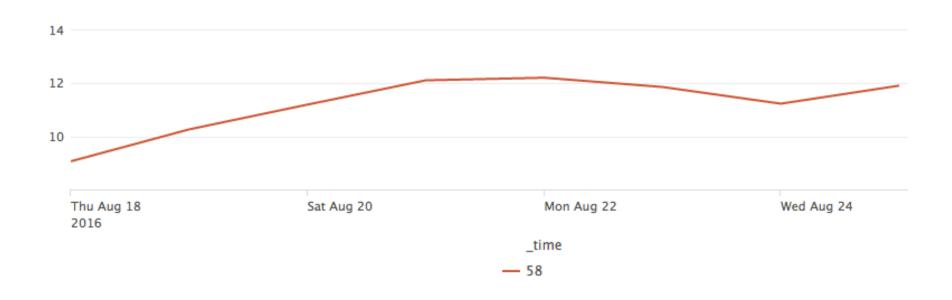
What was the problem?

- Network Operations group needed to display Timely, Relevant,
 Meaningful Service Impact.
- Reduce Mean Time to Repair (MTTR) for a service outage
- Visualize product offering status in an easier way

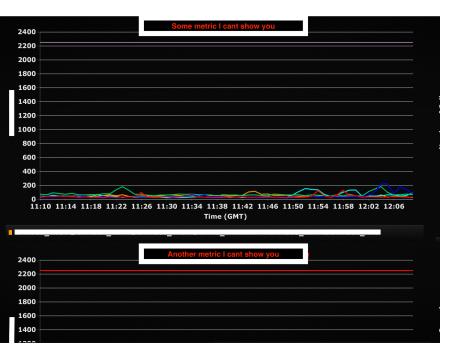
KPI's that may Impact Service

- Network Speeds
- Phone Call Volume (IVR)
- Modem Speeds (Synthetic Transactions)
- Error Rates
- Throughput Rates (Machine Data)

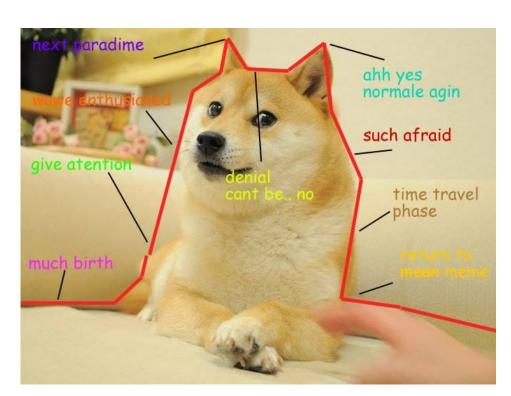
Put that KPI on a graph!?



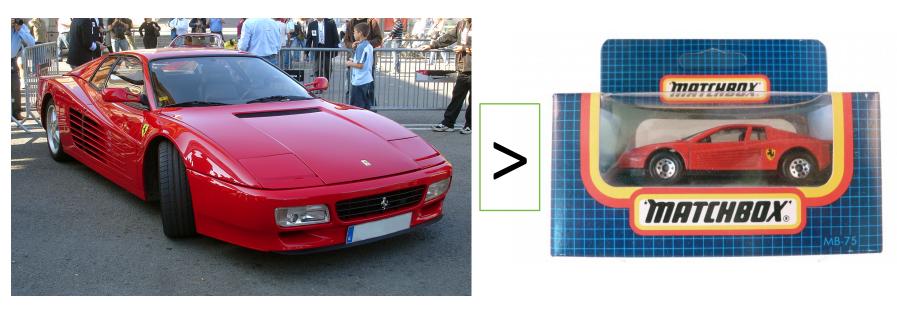
Timecharts are tired.



Lots of Real Estate, questionable value



6.4 Introduced Choropleth Support

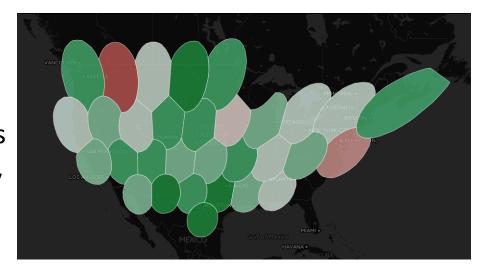


Choropleth Maps

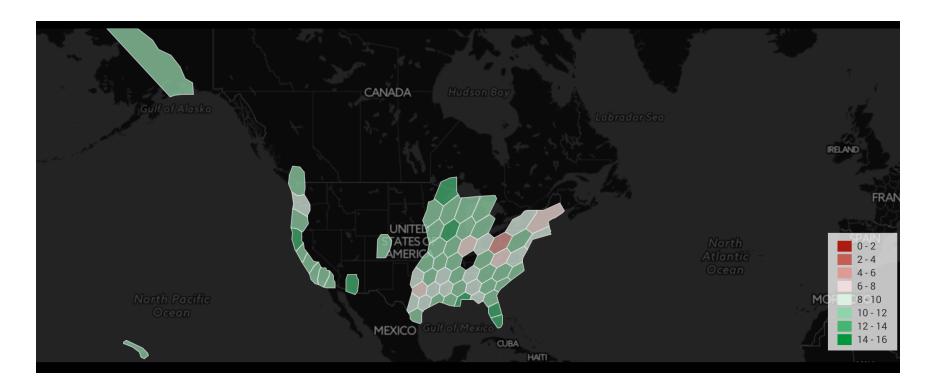
Line Charts

Choropleth Maps (the good)

- Immediate visual diagnosis
- Big Impact to a broad audience
- Management loves pretty things
- Great for reporting functionality



Divergent Color Schemes



Choropleth Maps (the bad)

- Single KPI display
- Miopic
- Real Time Analytics can be hard (no context/timecharts)
- Usually no Service relationship
- Static Thresholds and Divergence
- Real Estate is a Premium

What we have VS. What we want





Can we be smarter about this?



Leveraging Service Intelligence

- Build Custom Service Models
- Adaptive Thresholds
- Multi-KPI Health Scores
- Custom Service Instrumentation

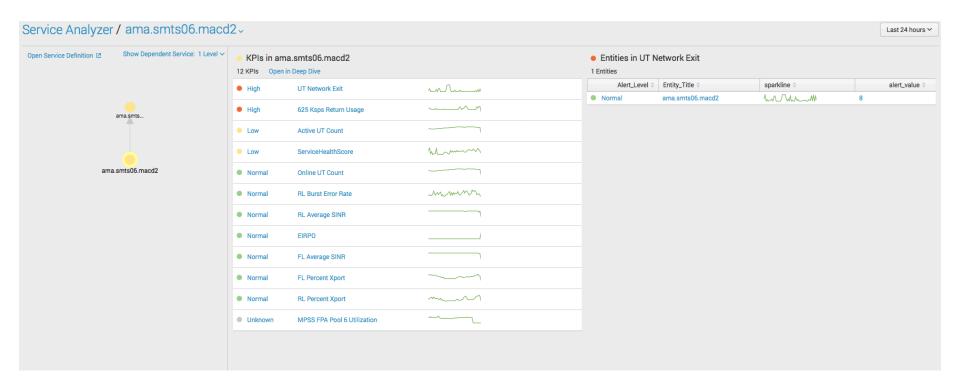
Adaptive Thresholding

Not all hours are created equal

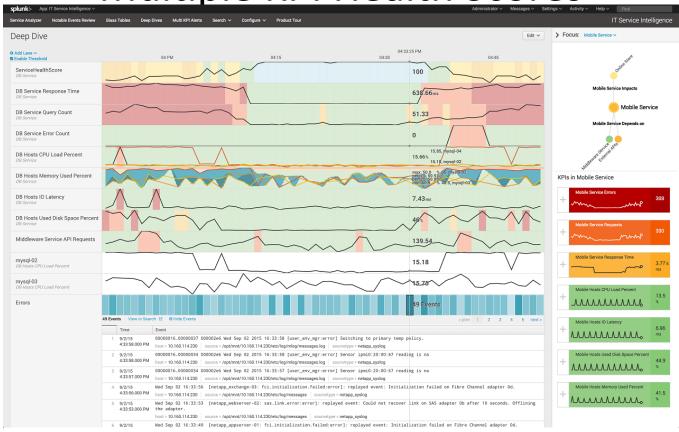
Preview Aggregate Thresholds



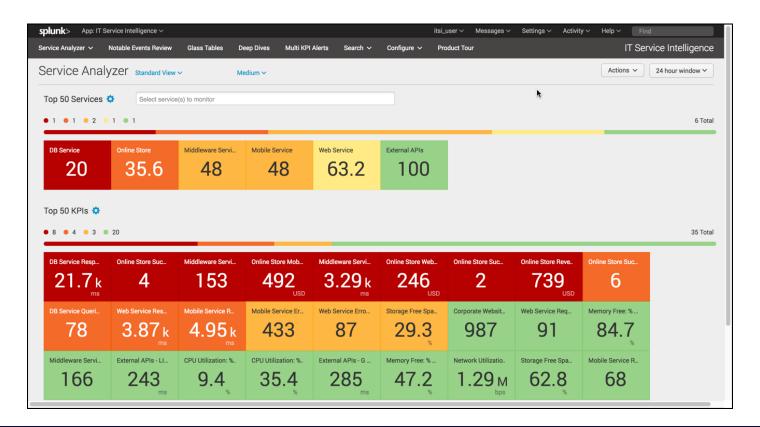
Custom Service Definition



Multiple KPI Health Scores



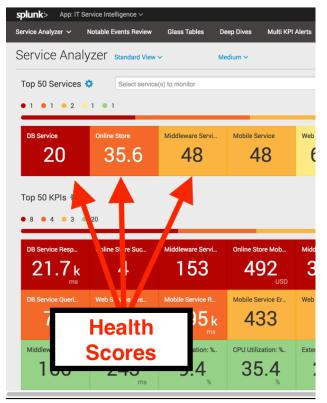
Tada! Service Health Scores



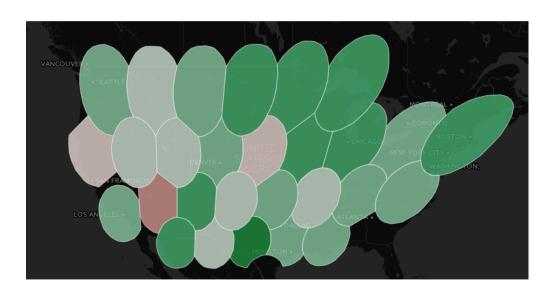
Can we be smarter about this?



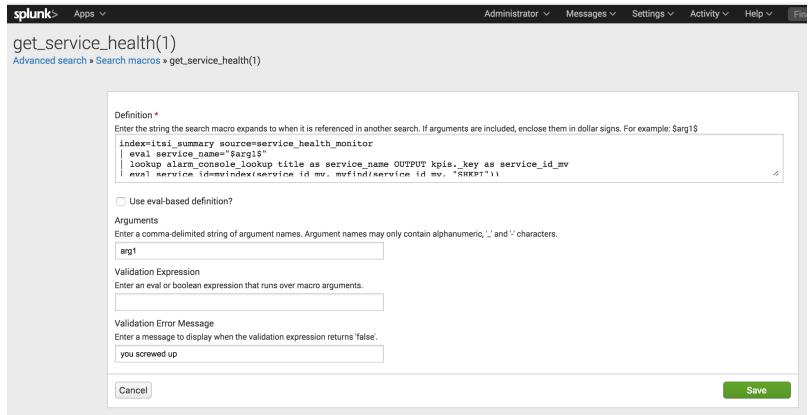
But we want a score and a map!



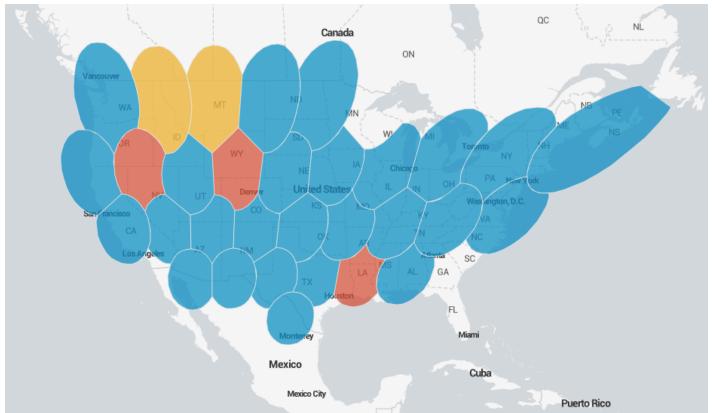




Using Search Macros to gather health_score



Intelligent Choropleth Maps!



THANK YOU

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