

loT1937 - Splunk at the Speed of Flight — Delivering Critical Passenger Cabin Services

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Why Are We Here?

Internet Everywhere

The Internet is Everywhere

On the street ...

- On the street...
- •In our homes ...
- •To plan our travel ...
- When we travel...









SD Xperience Video

Customer Expectations Are No Different Inflight

- Private owners
- Charter companies
- Fortune 100 flight operations
- Users on the aircraft

Exceedingly high expectations of internet access while traveling!





Every Single Flight Matters

N. Korea

S. Korea

Outbound Flight GREAT!

Canada

United States

Mexico

Gua

Every single flight matters



Outbound Flight GREAT!

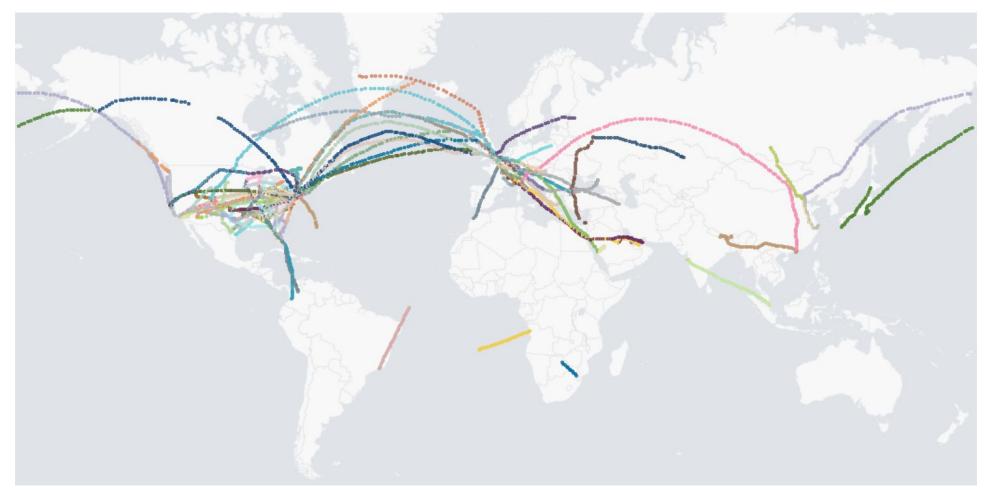
Canada

United State

Mexico

Return Flight OUCH!

Where's the problem?



Who Is Responsible?





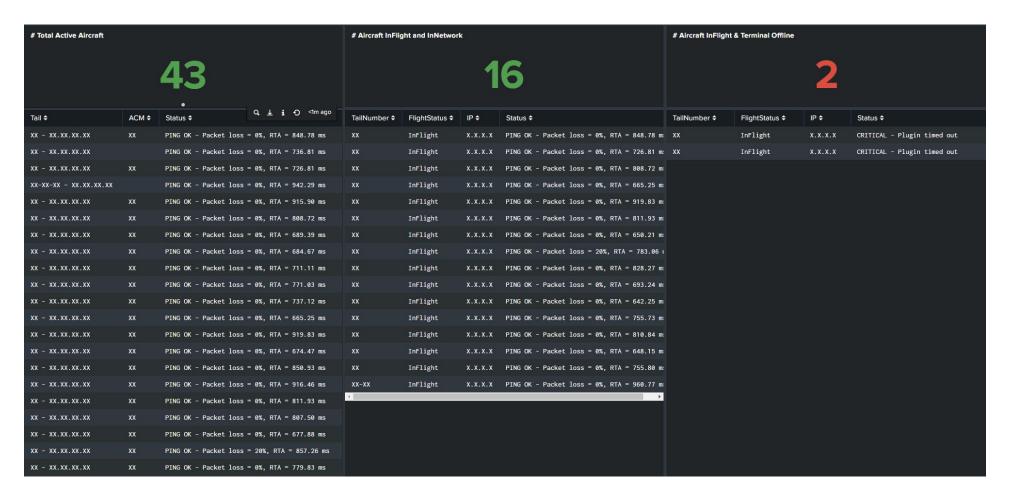
Initial Effort

Availability Centric

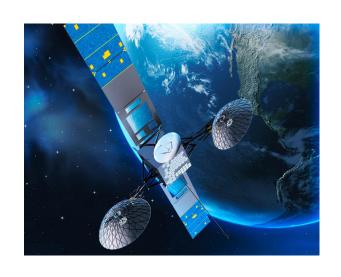
Very Manual, Not Scalable

```
(damiano@R90N7BH9-2955-L ~
ping airplane1
(damiano@R90N7BH9-2955-L ~
ping 192.16.81.17
ringing 192.16.81.17 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
ing statistics for 192.16.81.17:
   Packets: Sent = 4, Received = 0, Lost = 4 (100% loss)
(damiano@R90N7BH9-2955-L ~
```

Automated ICMP Ping with Splunk



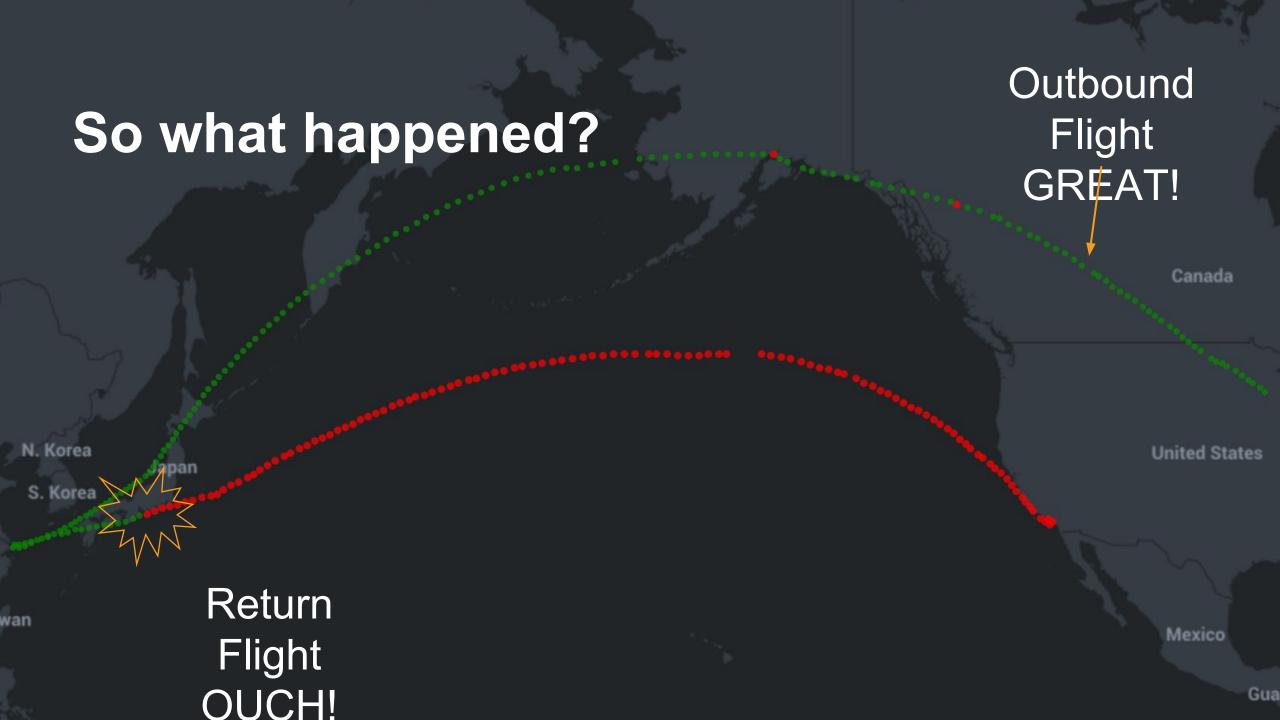
A Universal Quality of Experience "Standard"



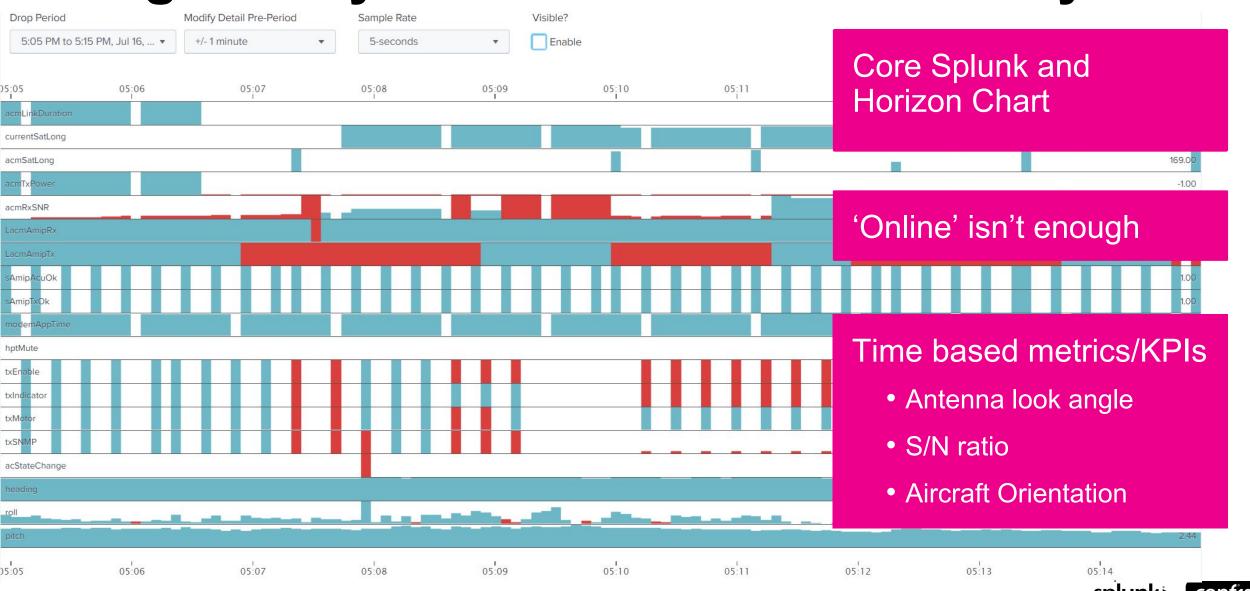


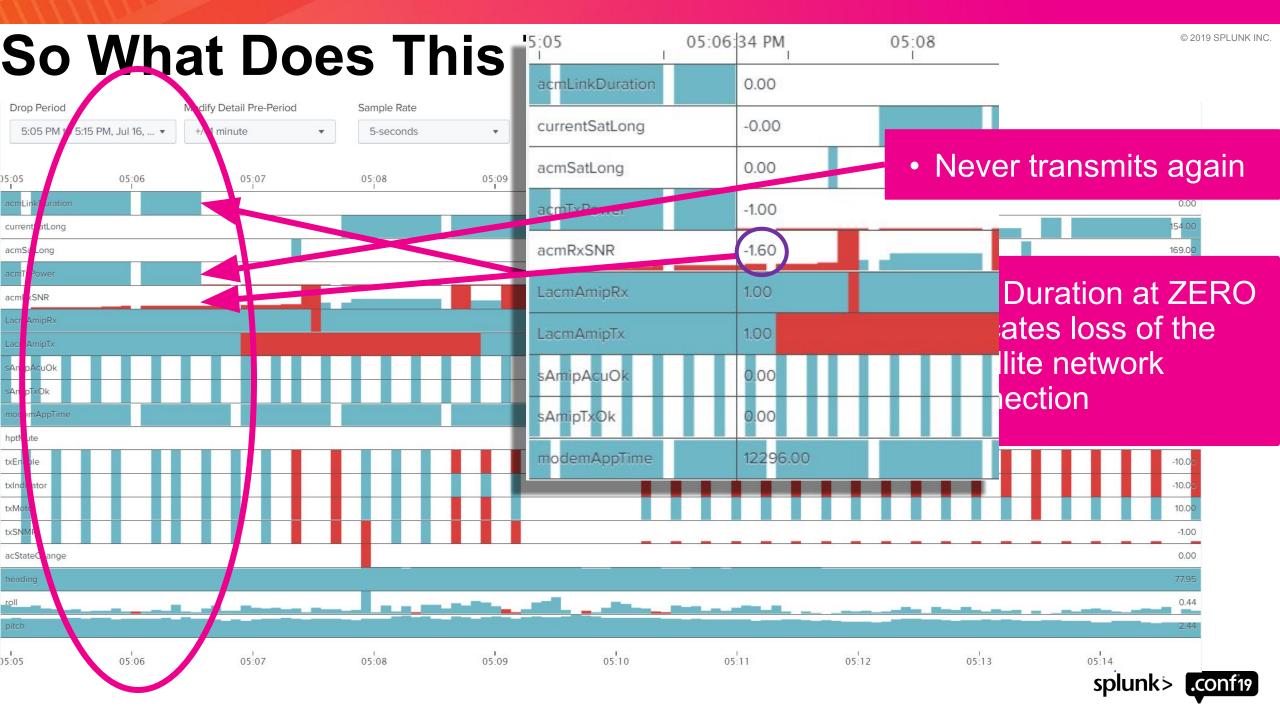




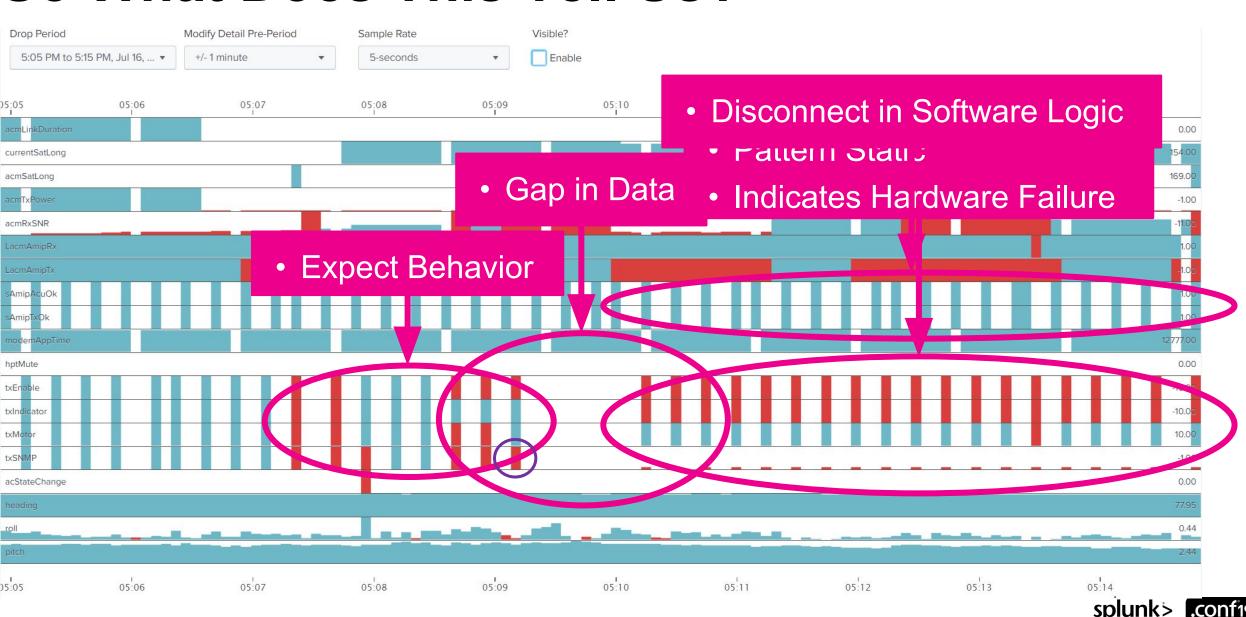


Align Everyone – Shift to Time History of





So What Does This Tell Us?





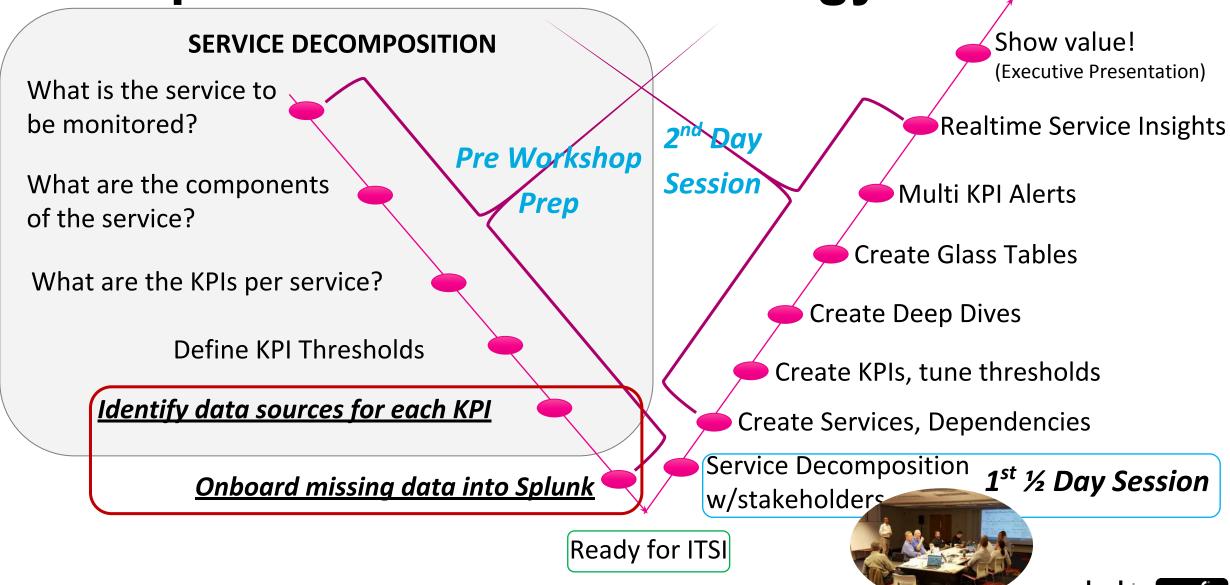
Challenge: How to Empower Tier 1?

Restore Service Sooner to the Customers – Queue ITSI



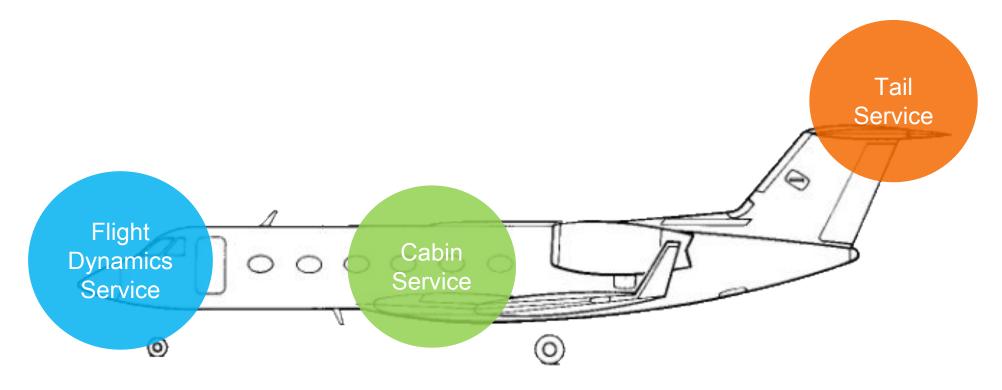
Service Analyze	er /			
Filter Select services	e(s) to monitor Filter KPIs	Select KPI(s) to monitor	Show disabled service(s)	Show service dependencies
Top 50 Services O				
• 2				
Flexibles	Product Aircraft			
70	° 74.4			
Top 50 KPIs O				
• 1 • 1 • 5 • H	4 0 5			
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AC.Flght.Dynamic	Tellower, min			
AC_Flight_Dynamic Finding Accept	ToPower_min Fredisc Arcest	Floridate Arctist	Flexibles Asset	Productions

ITSI Implementation Methodology



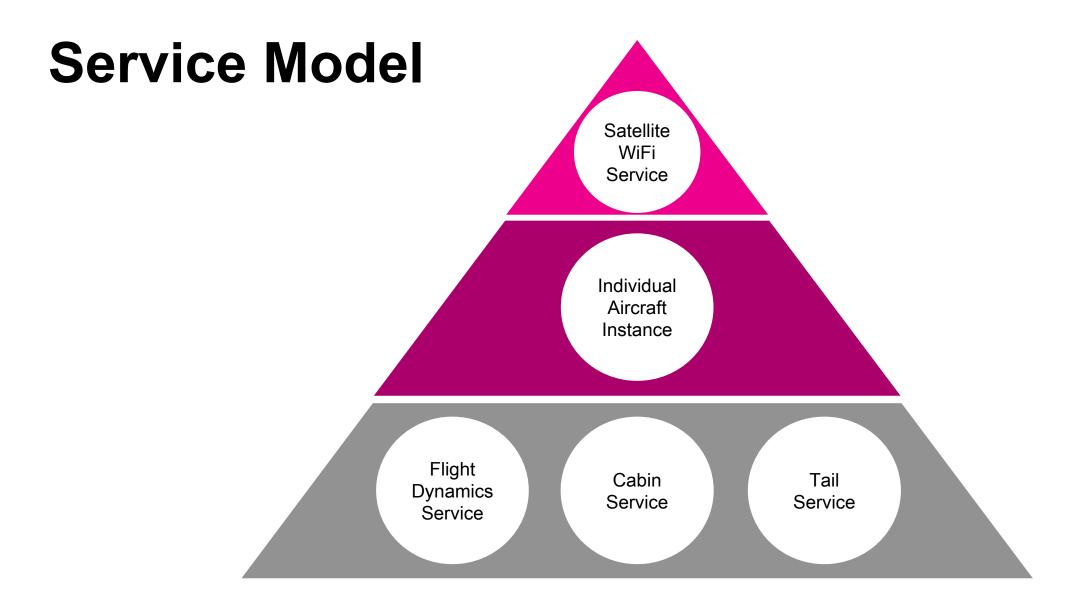
splunk> .conf19

Service Analysis

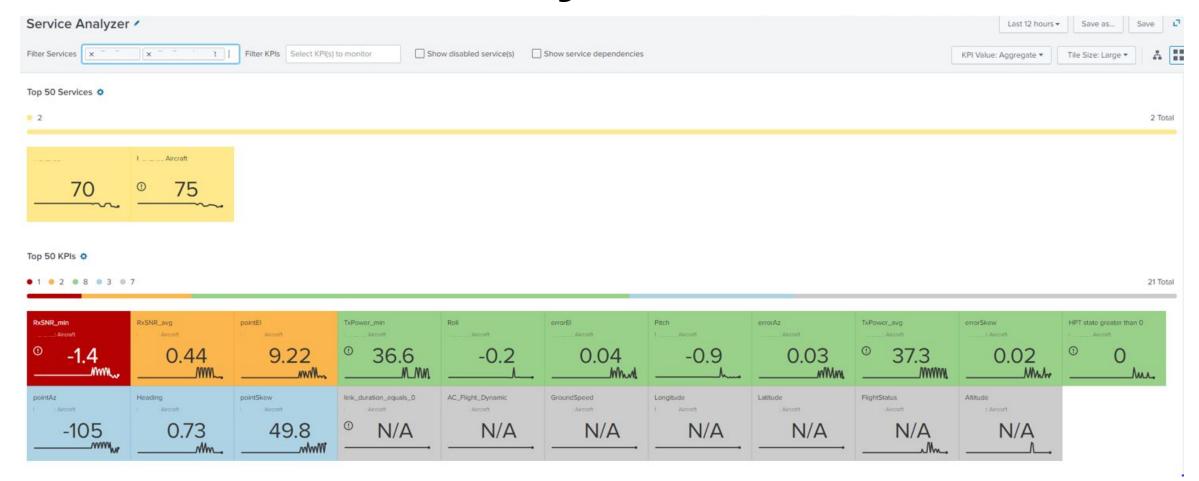




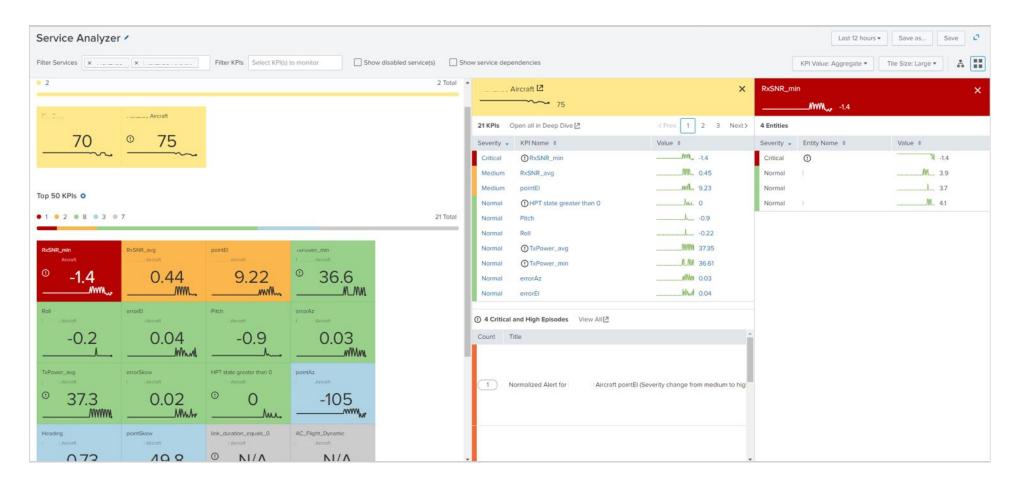




Service Health Analysis – Macro View



Service Health Analysis – Summary View



Key Takeaways

What Did We Learn?

- . ITSI can be utilized for IoT use cases
- 2. RCA in a day versus 10 days
- 3. Actionable steps for level 1 analysts, prevent the 'over escalation' to level 3
- 4. Everyone looks through the same holistic lens
- Shifted thinking from technical problem to meaningful business discussion with partners

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Thank

You

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