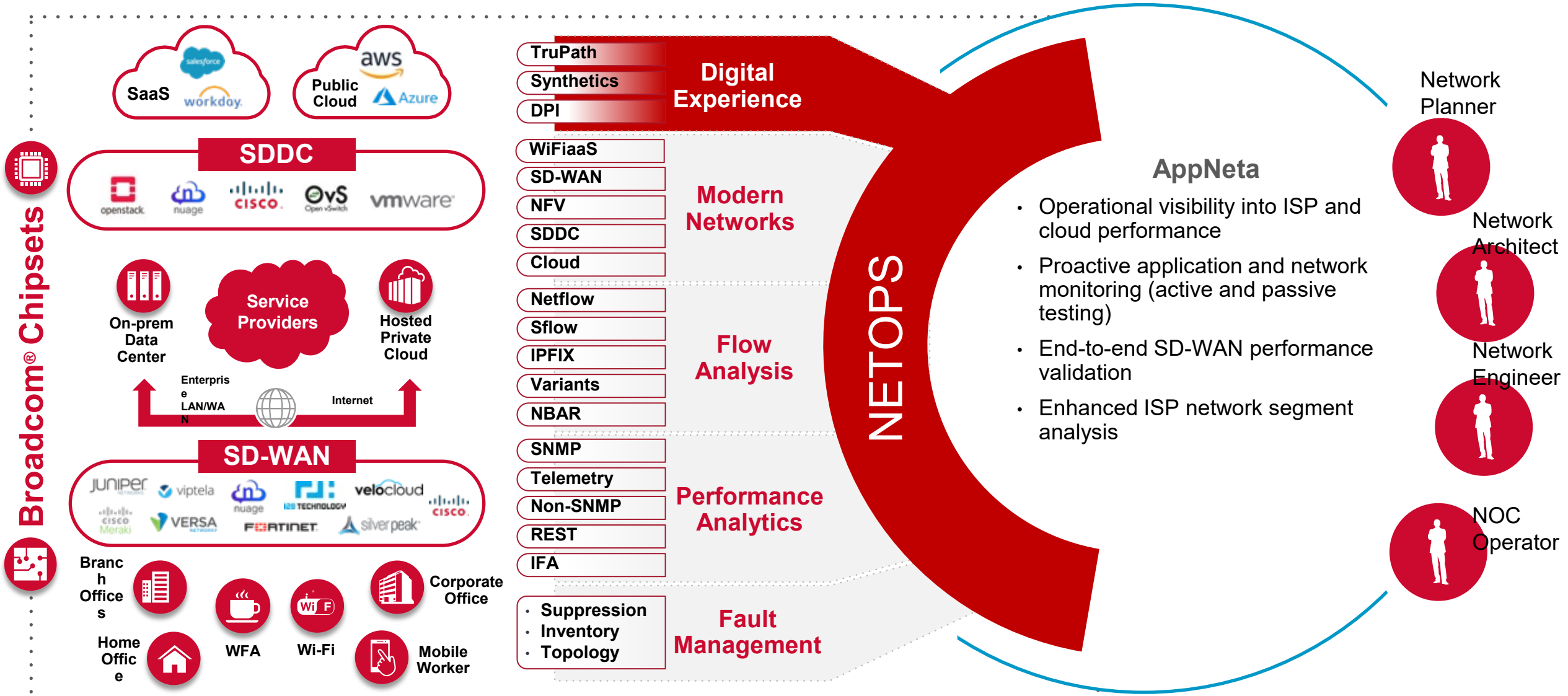
Netops & AppNeta

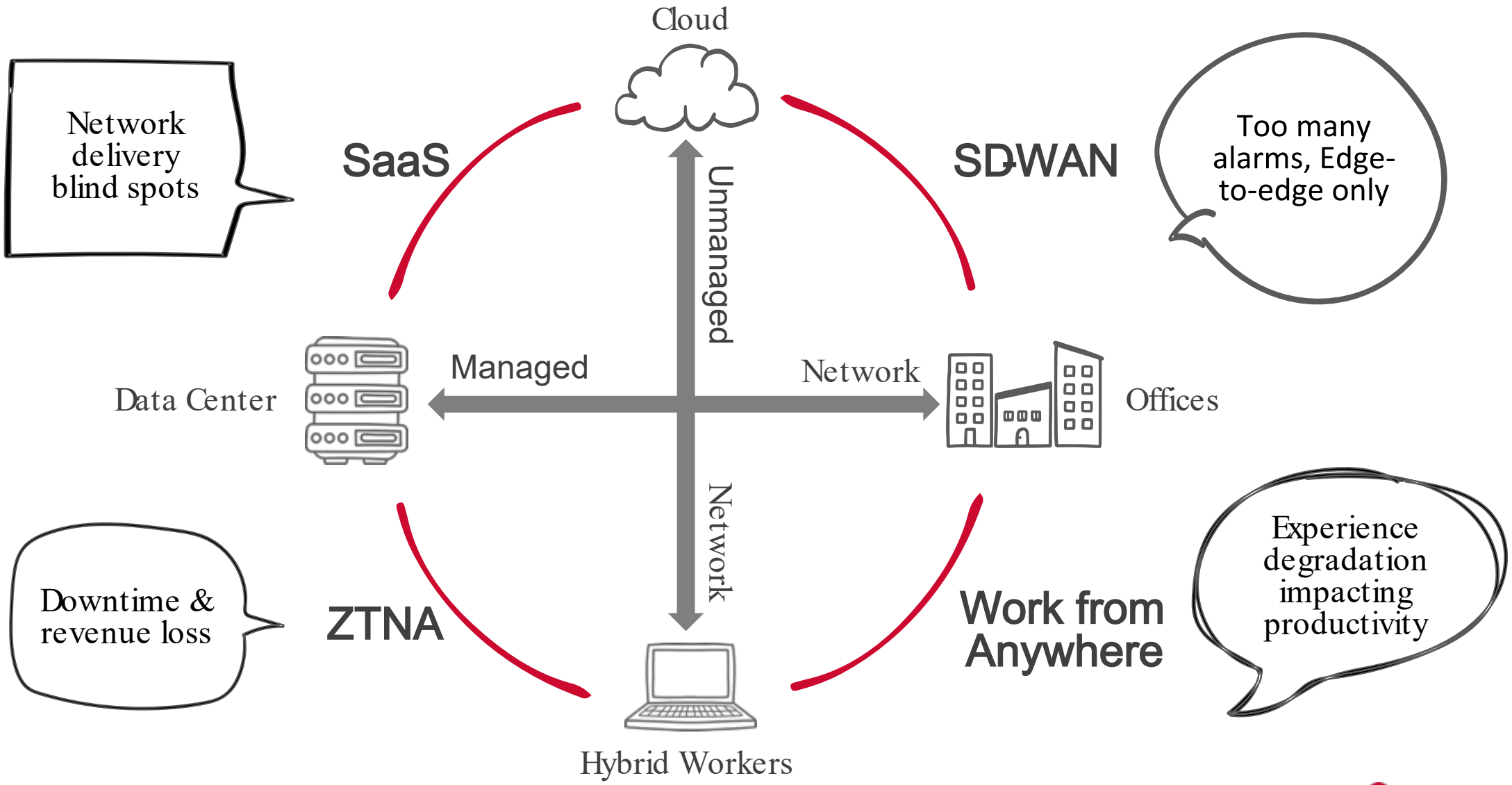
Stepan Svihla
Solution Engineering

DX NetOps for End-To-End Multi-Vendor and Multi-Cloud Coverage



BROADCOM SOFTWARE

APPNETA: Ein “bißchen anders” als alle anderen



BROADCOM SOFTWARE

Agenda – Das WWW

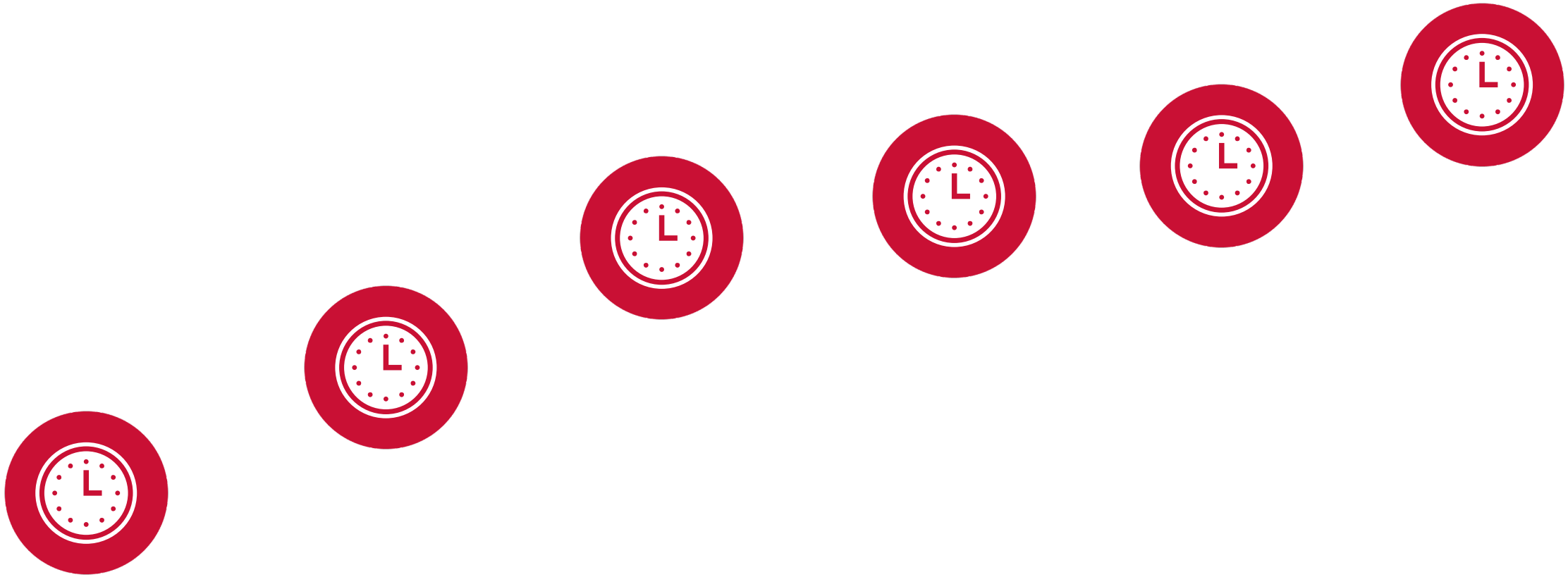
The topics

1. W - Warum
2. W - Was
3. W - Wie

BROADCOM SOFTWARE

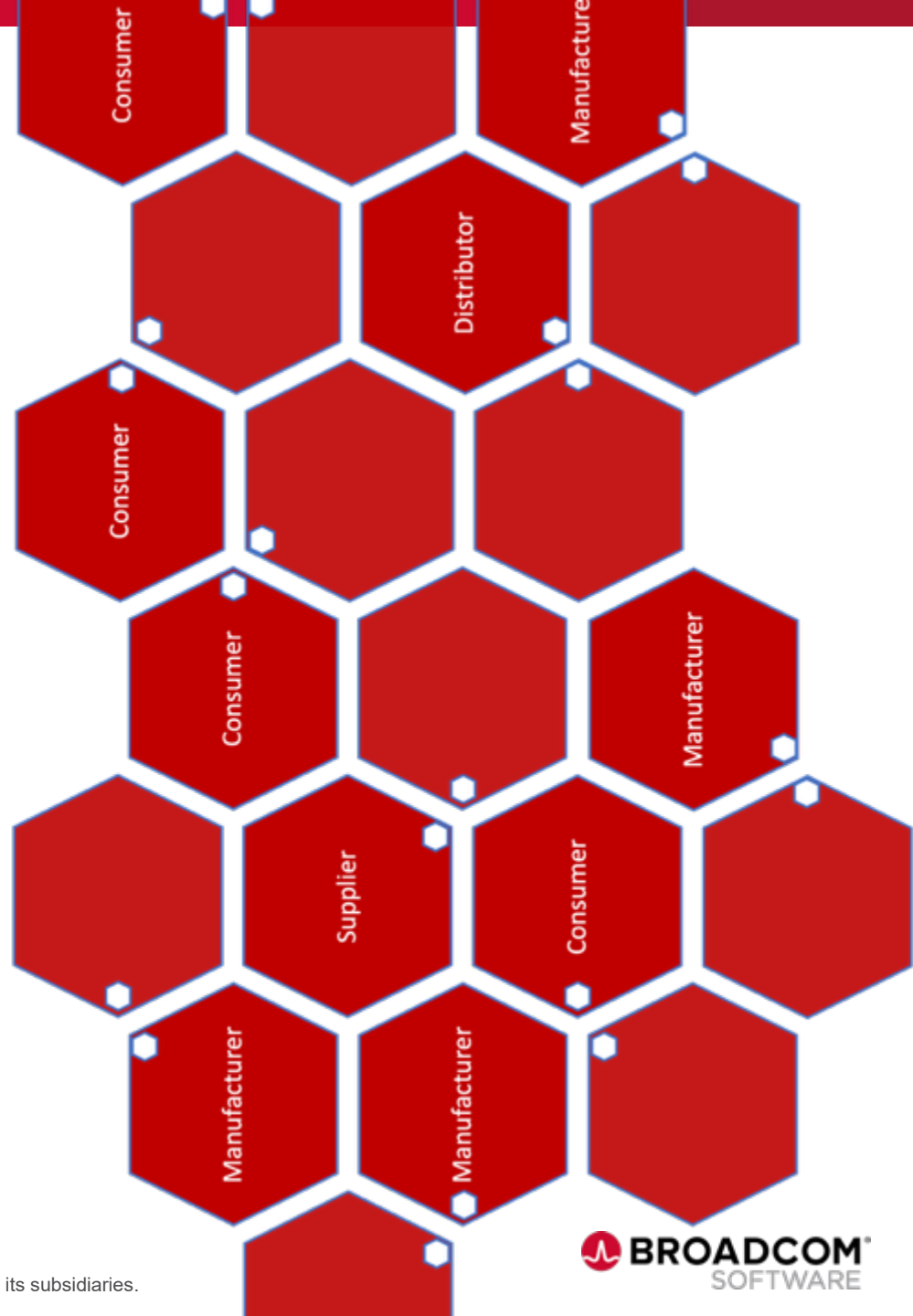
1. Warum machen wir das?

- Wir haben doch keine Zeit…



BROADCOM SOFTWARE

From VALUE chain to network



BROADCOM SOFTWARE

2. Was machen wir denn

BROADCOM SOFTWARE

AppNeta - 4 Dimensionales Monitoring

Active Monitoring Dimensions

Increase IT efficiency by dramatically reducing MTTR while isolating issues in networks outside of your control.

Network Paths (Delivery)

Web/URL (Experience)

Take proactive action with synthetic transaction monitoring to identify SaaS and web app issues before they affect users.

Passive Monitoring Dimensions

Monitor real end -user experience and identify every app in use across your distributed network.

Flows (Usage)

Packets (Usage)

Raw packet data from remote locations when and where you need it to determine the root cause of critical issues.

BROADCOM SOFTWARE

Ergebnisse, die eine Bedeutung haben

- Digital UX vs silo metrics

Metrics:

- Availability/Uptime
- Packetloss / Jitter / Delay

UX:

- MOS
- APDEX

1. Select Thresholds	For any dataset, understand the measurement well enough to select appropriate **T** and **F** boundry thresheolds
2. Group results into bins	Value scale based on e.g. time, quality, accuracy
3. Count samples in each bin	Satiesfied Tolerating. Frustrated
4. Calculate Apdex formula	Apdex Score: $\frac{((Satisfied)+(Tolerating/2)+(Frustrated*0))}{(Statisfied+Tolerating+Frustrated)}$

BROADCOM SOFTWARE

3. Wie machen wir es

BROADCOM SOFTWARE

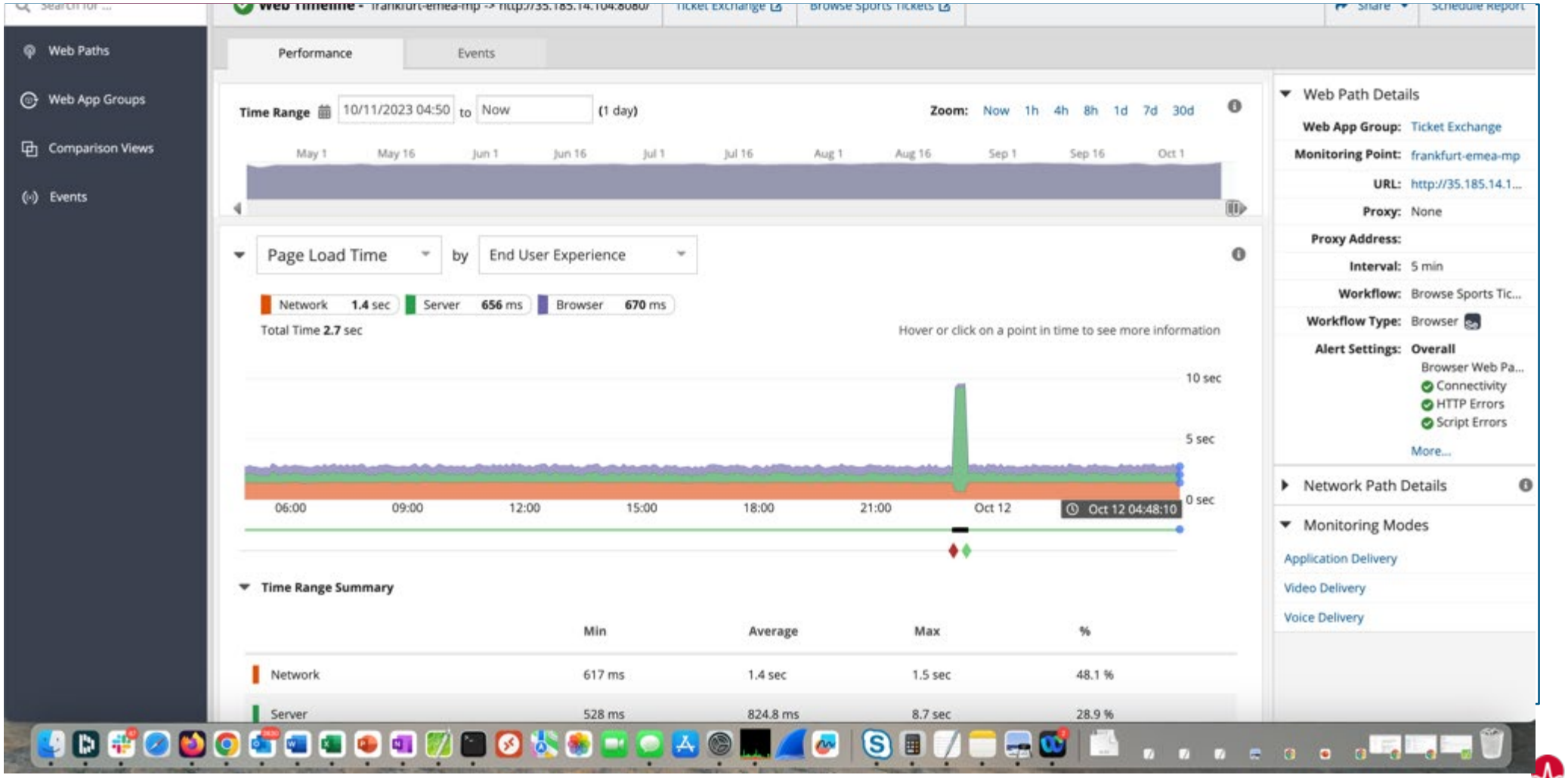
Vielfälltige Anwendungsfälle

- **Digitalization/Transformation**
- Cloud adoption
- SaaS adoption
- **Hyperconnectivity**
- Smart Grid (OT & IOT)

BROADCOM SOFTWARE

Use Case 1

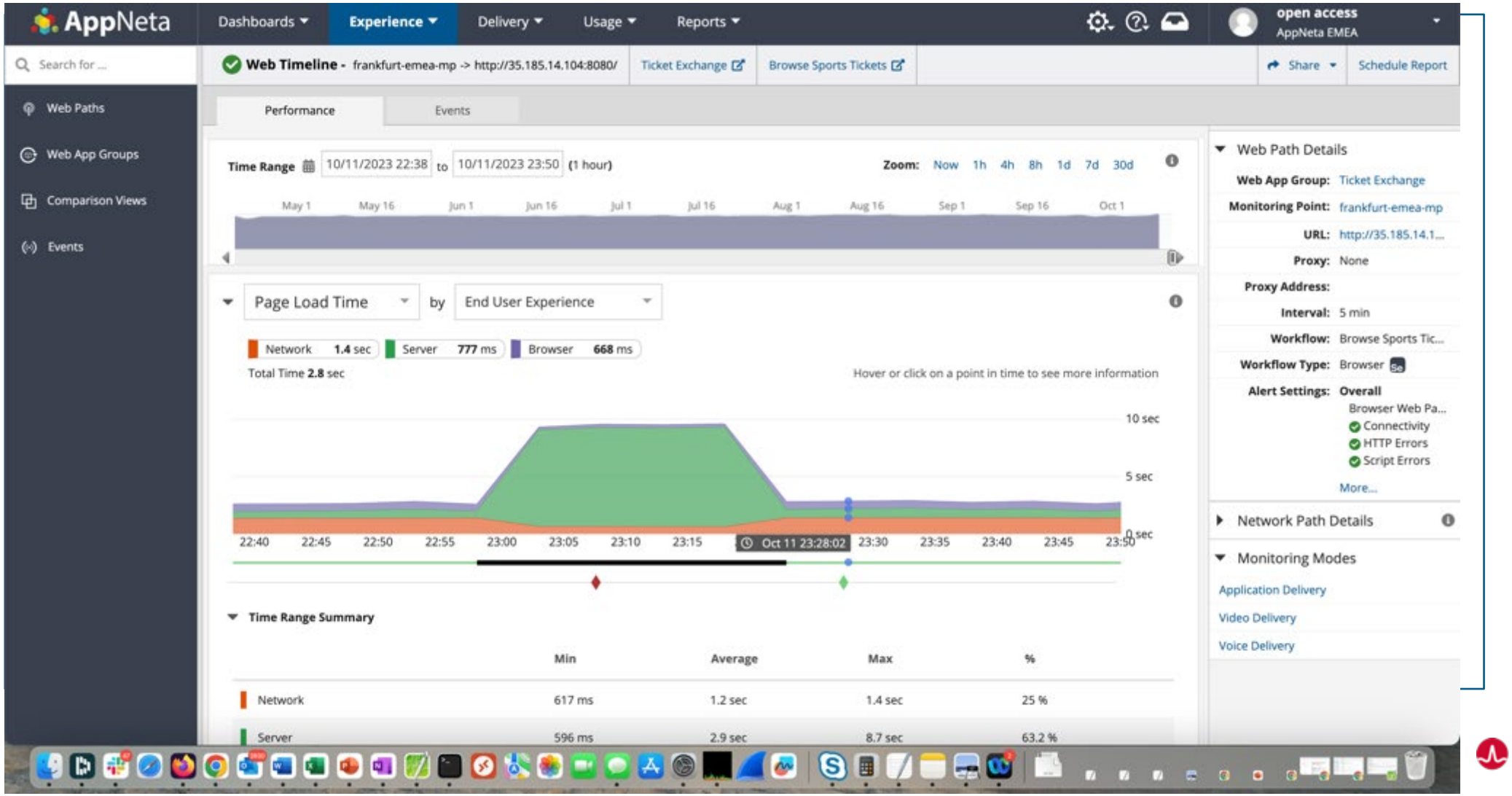
Applikation oder Netz



BROADCOM SOFTWARE

Use Case 1

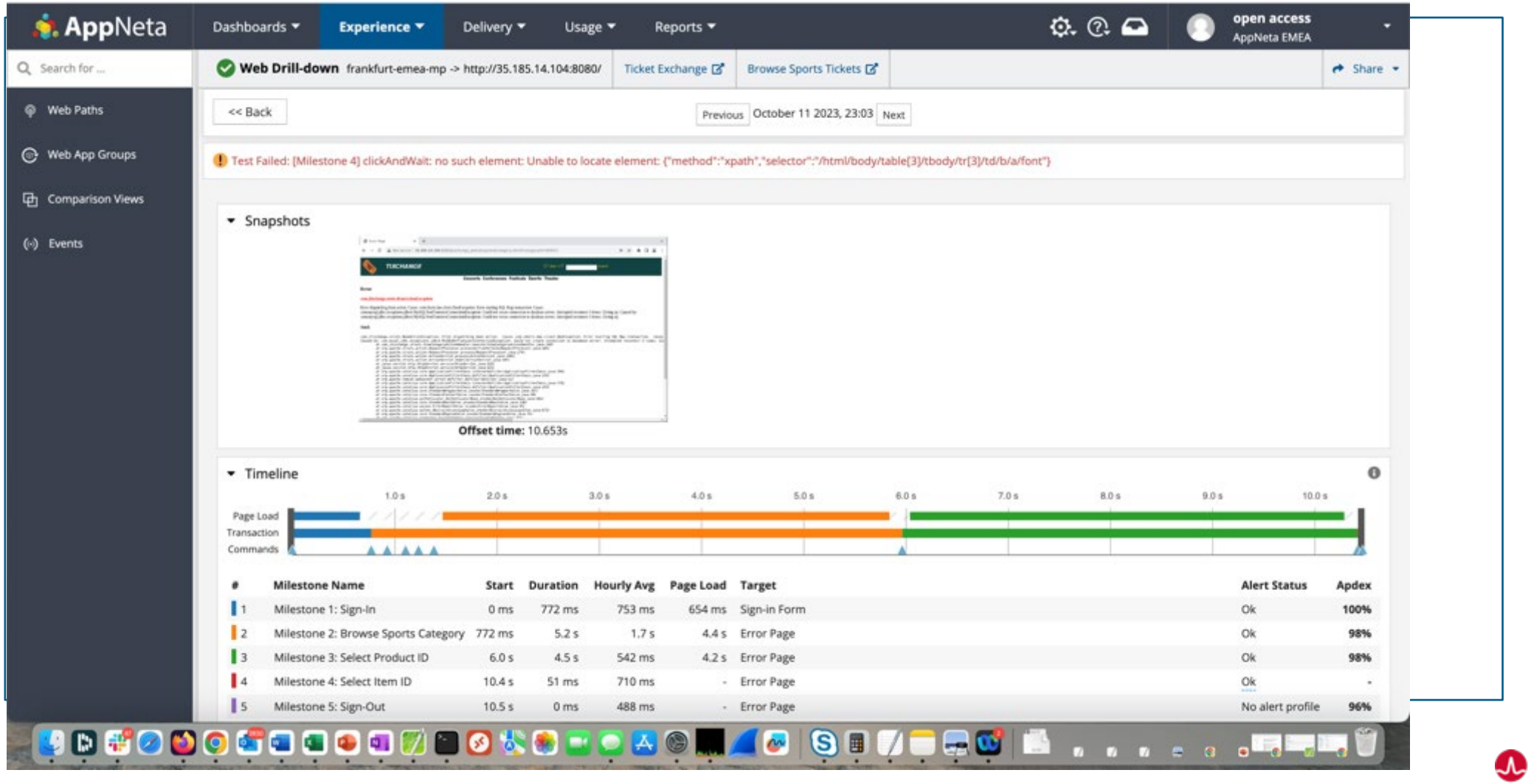
Applikation oder Netz



BROADCOM SOFTWARE

Use Case 1

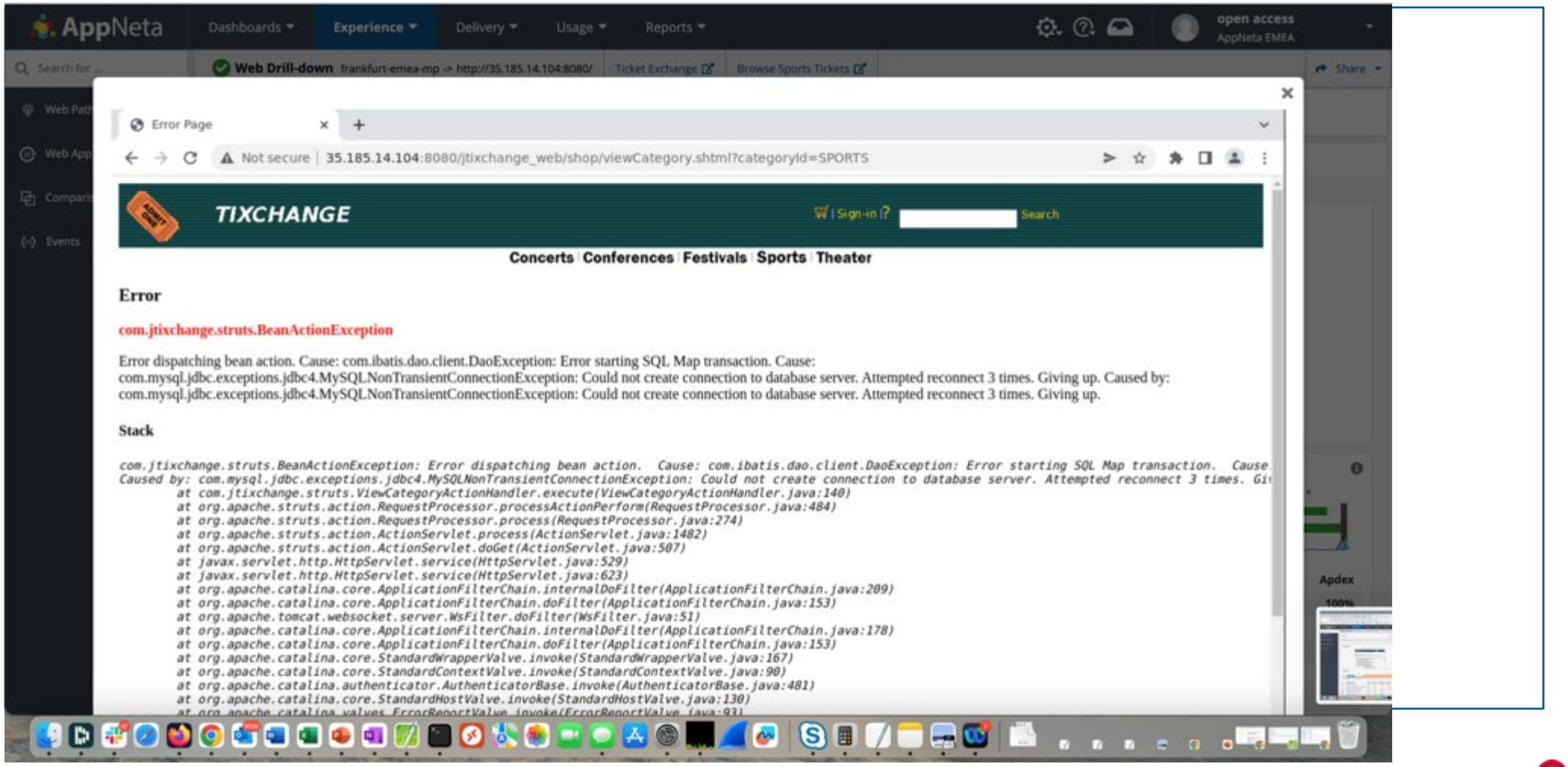
Applikation oder Netz



BROADCOM SOFTWARE

Use Case 1

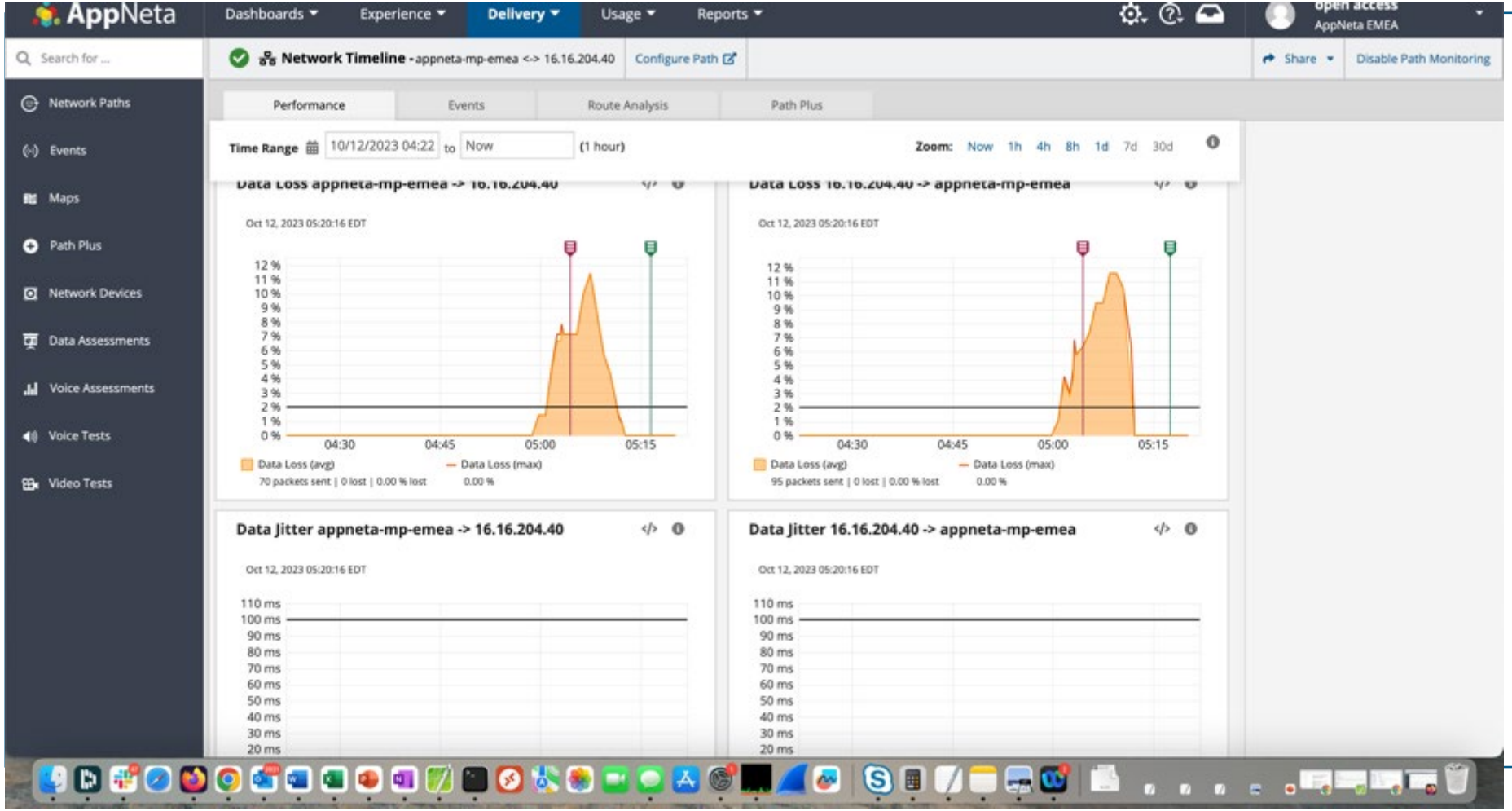
Applikation oder Netz



BROADCOM SOFTWARE

Use Case 2

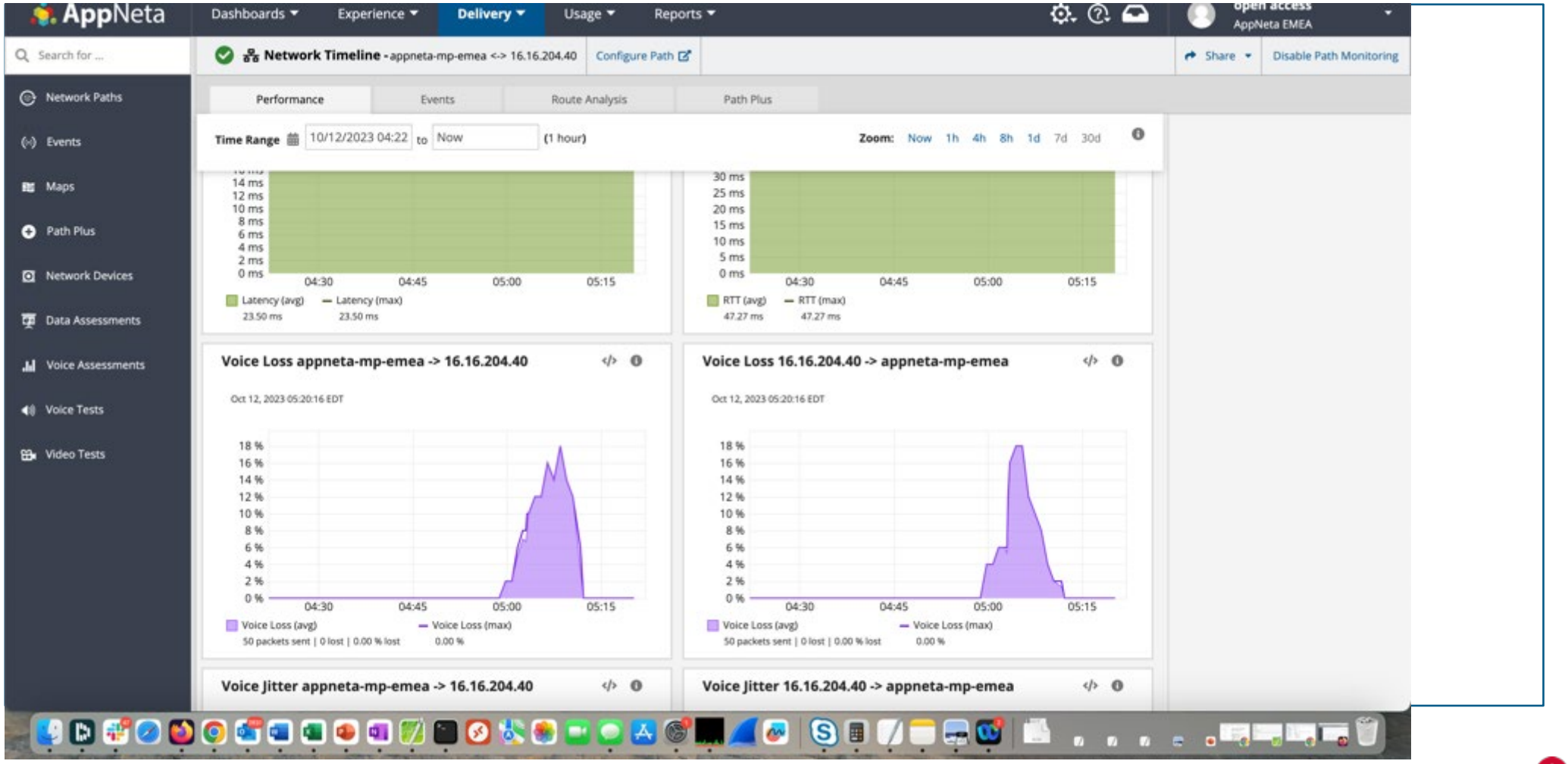
Ende zu Ende Messungen



BROADCOM SOFTWARE

Use Case 2

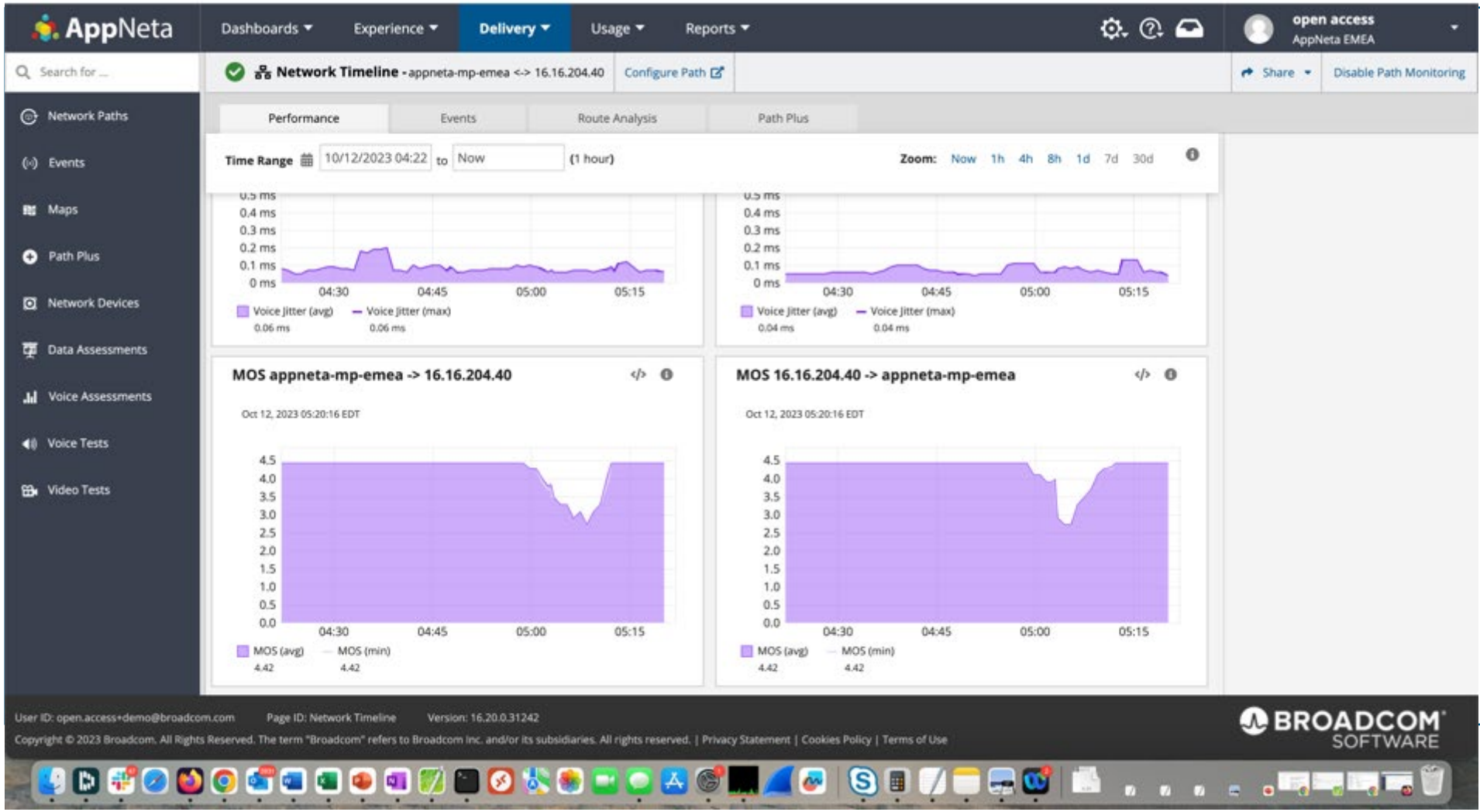
Ende zu Ende Messungen



BROADCOM SOFTWARE

Use Case 2

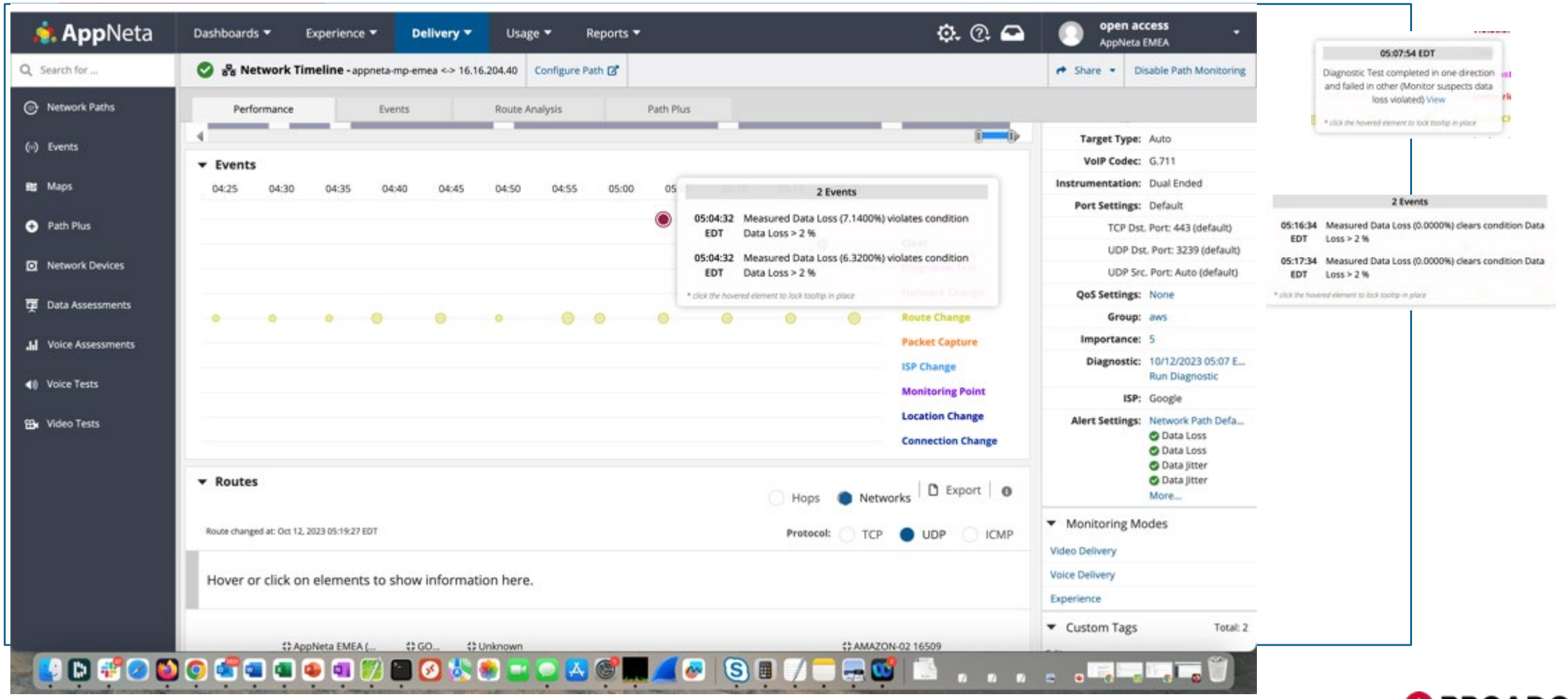
Ende zu Ende Messungen



BROADCOM SOFTWARE

Use Case 2

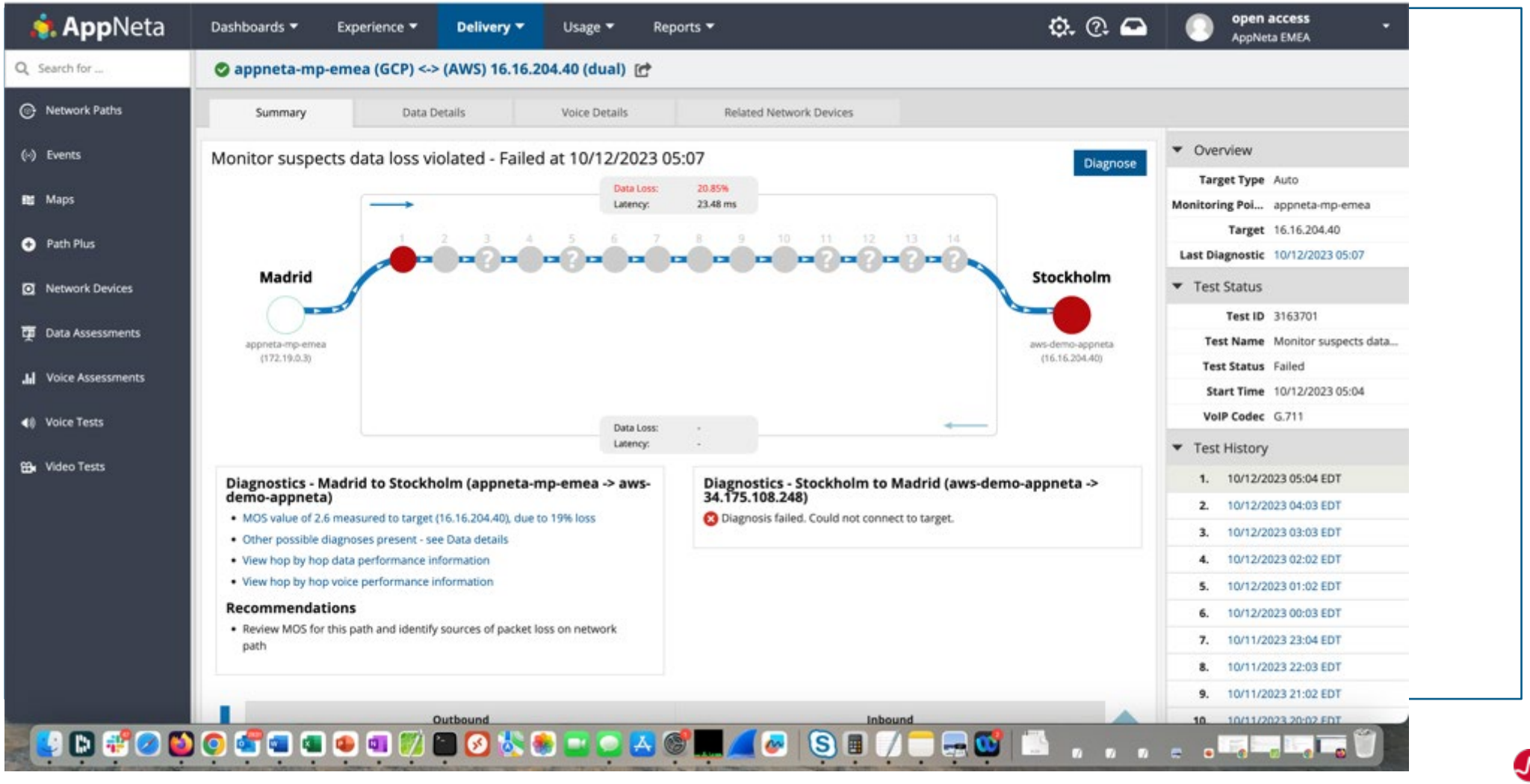
Ende zu Ende Messungen



BROADCOM SOFTWARE

Use Case 2

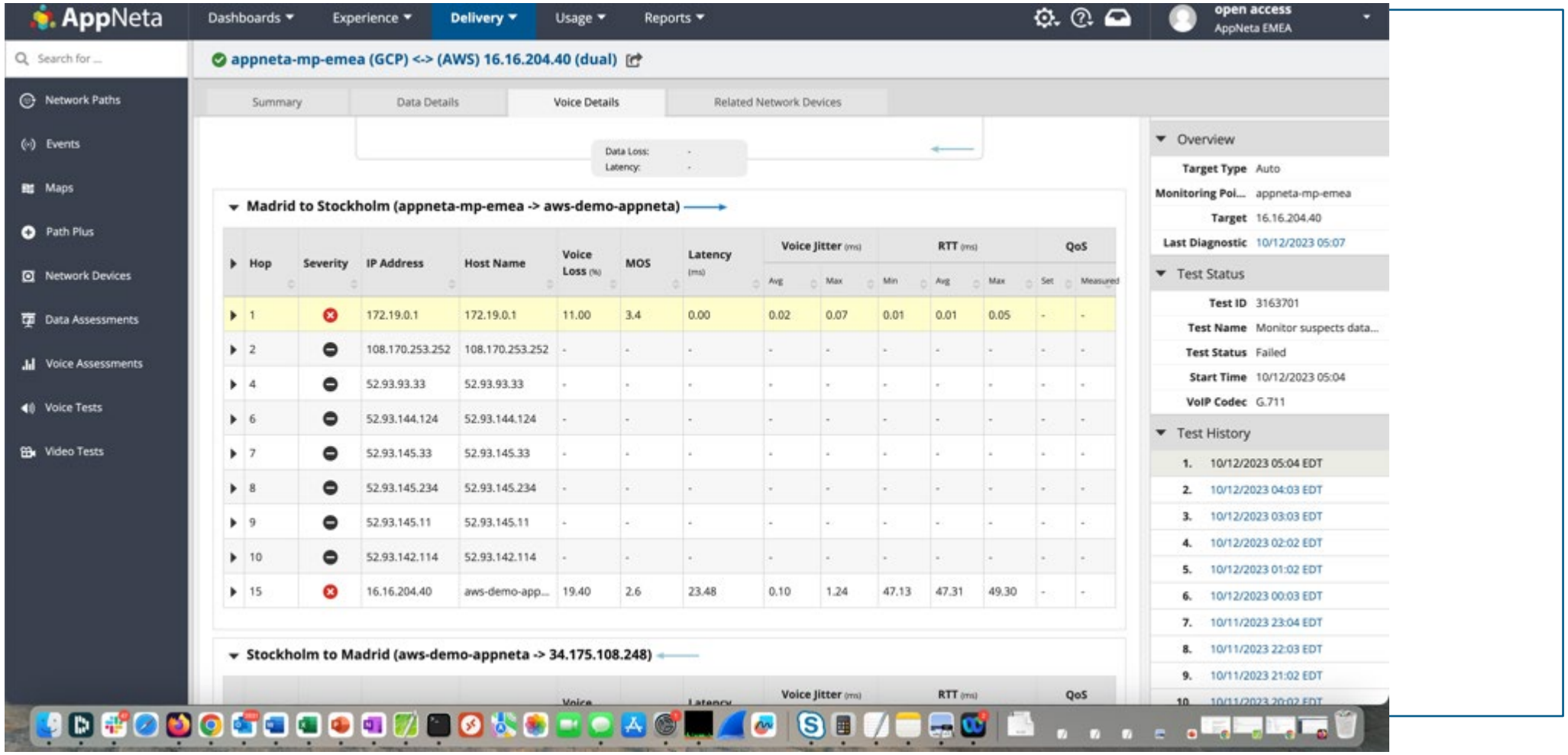
Ende zu Ende Messungen



BROADCOM SOFTWARE

Use Case 2

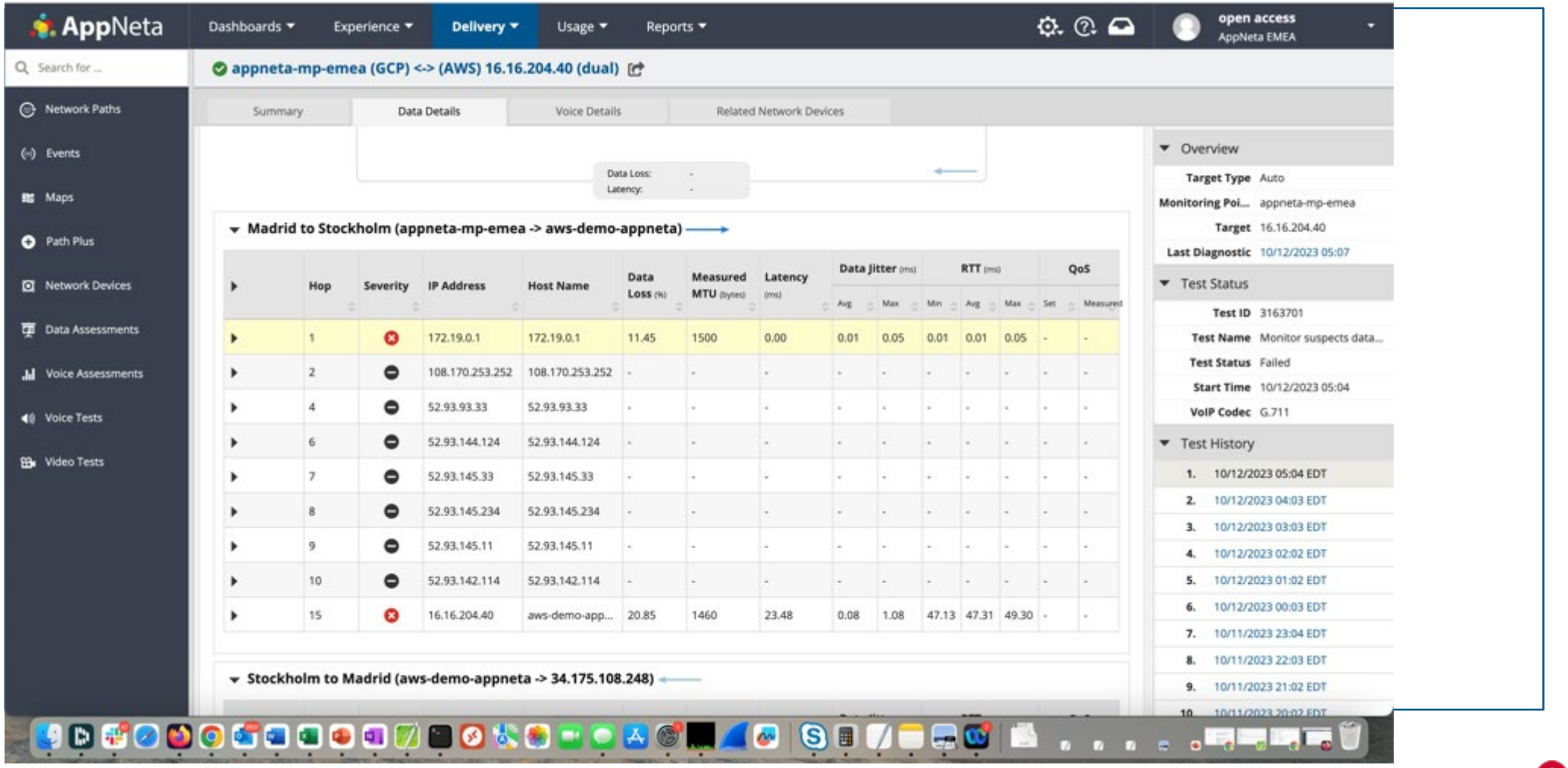
Ende zu Ende Messungen



BROADCOM SOFTWARE

Use Case 2

Ende zu Ende Messungen



BROADCOM SOFTWARE

AppNeta Monitoring Point Options

SKU	Description	Notes
APPNTA990	AppNeta Universal License Unit (1Gbps,15Apps,1GMP, 50Agents)	
APNSOI990	AppNeta Small Office Appliance (International, 4 Wi-Fi Networks)	m70, 13% Hardware Support Required
APNSOA990	AppNeta Small Office Appliance	m50, 13% Hardware Support Required
APNSDC990	AppNeta Small Data Center Appliance (Requires 6 Universal Licenses)	r90, 13% Hardware Support Required
APNLDC990	AppNeta Large Data Center Appliance (Requires 12 Universal Licenses)	M70, 13% Hardware Support Required

BROADCOM SOFTWARE

Universal Licenses Map

Deployment Type	Model	Universal Licenses	Included Applications
Standard Office (1Gbps)	m50/m70/v35/cpe40	1	15
Cloud Monitoring Point	CMP	1	15
Large Office (10Gbps)	r90	6	90 (6x15)
Data Center (100Gbps)	r1000	12	180 (12x15)
Global Monitoring Point	GMP	1	15
Workstation Monitoring Points (50 Pack)	n10 (x50)	1	5 per n10
Additional Application Monitoring Licenses (15 Pack)	App Licenses (x15)	1	15

BROADCOM SOFTWARE

BROADCOM SOFTWARE

Thank you

And now back to what the internet was made for…