Nova Active OTT video monitoring solution

Critical QoS and QoE insight



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OTT video is taxing network performance



- 5. EXFO service provider survey, August 2019
- 6. Portevo inc, 2020

One quarter of consumers regularly experience mobile video streaming problems.

25%

Enough to be distracting

or frustrating¹

01

Consumers blame service providers for mobile video streaming problems!¹



Even a for a small operator with 2 million subscribers, this can translate to potentially tens or hundreds of thousands of subscribers.

Service provider drivers and pain points

Impact of the new service reality

The massive popularity of OTT video services creates additional challenges in the NOC and SOC. Managing service quality issues for services that are not your own, but are delivered over your network, is problematic.

59% of customers blame their service provider when experiencing video quality issues¹.



Overcoming legacy limitations



Mobile video streaming issues cause significant churn.

For a mobile operator with 10 million subscribers, the cost of replacing customers who churn because of poor video streaming quality amounts to \$30 million annually (\$3/customer¹).

The likelihood consumers will switch providers because of mobile video streaming issues.



Over half of CSPs cite customer churn and reduced NPS as top threats to their market share.

Operators are rightfully worried about the negative effects of streaming video issues.



Operators are unable to resolve a third of mobile streaming video problems.

Tools

Most struggle to pinpoint the origin of video streaming issues.

Almost three-quarters (73.3%¹) of service providers cannot determine if OTT video impairments originate with the customer device or home network.



On average...

Teams





Hours



Detecting the undetectable

On average, it takes **4 teams**, using **4 tools** up to **5 hours** to resolve OTT video issues--and even then, **39% of issues remain unresolved**. Additionally, 22% of issues originate in the customer's network but 74% of operators say they have **no way to determine that the problem is there**!

Having the ability to measure QoE and QoS in real-time, automatically spot QoE issues and correlate these measurements with other external factors provides the foundation for full visibility through automated analytics.

Delivering actionable insight

By automating the correlation of every detected QoE anomaly, the grouping of individual anomalies into common cause cases and delivering a customer impact assessment for each case provides crystal clear clarity for operations teams to prioritize fixes.

Visibility, clarity and prioritization are critical for any operations team, but especially for OTT video services as customers are more likely to leave due to poor quality.

Cloud-native solution for a cloud-native service

Reimagining video monitoring for OTT video services

OTT video services are cloud-native services, delivered as an encrypted flow over an increasingly cloud-native network. **Traditional ways of monitoring are simply not agile or scalable enough** for these highly dynamic services and networks. The Nova μ -Verifier is a lightweight standalone active assurance probe that supports both OTT video QoE monitoring as well as network QoS monitoring--delivering full visibility to OTT services.



03

04

Real-time visibility



End-to-end, real-time visibility

Understanding QoE and QoS performance end-to-end is crucial to being able to see customer issues in real-time - and understanding if the problem lies within your network or not.

OTT video QoE monitoring at the network boundary provides a clear view of the impact to customer experience by your transport network.

Segmented monitoring for fault localization

When issues are detected, being able to orchestrate monitoring end-points along the service path allows for quick localization of the issue.

Automating the localization of faults eliminates the need to assemble multidomain teams to troubleshoot issues.

Visibility beyond the network boundary

Video quality issues that originate outside the network have been the bane of many service providers. Being able to deploy a lightweight monitoring solution in CPE or user device provides additional clarity.

Monitoring as a user 'app' or device OSS feature delivers visibility where it has been missing.

Conclusion



Elastic scalability

For core, cloud, edge, handset or set-top / ONT

Segmented results pinpoint distribution bottlenecks and localized QoE-impact

True Perceptive QoE



Directly measures viewing experience

"Watches" videos to assess QoE the way users see them.

Industry standard real-time video QoE for any video stream¹

Correlated Network QoS

04

Isolates network contribution

Active, simulated video traffic creates L3/4 benchmark.

Determine where QoE is impacted by network latency, packet loss, jitter or congestion.

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