

TRIPLE CHALLENGE

De-risk New Service Provider Technology Deployments

Sequential Deployment Challenges

- The same resource can efficiently be re-deployed from one technology deployment to the next
- The Triple Challenge technologies prevent this smooth re-deployment of resources from happening



Parallel Deployment Challenges

- Due to the knock-on impact and dependent nature of each technology, projects are started in parallel
- More resources are needed to de-risk the deployment of the Triple Challenge technologies



What are the technology interdependencies which force in-parallel technology deployments?

 Deploy IP Voice / VoLTE as a traditional network element; or deploy a vIMS core to deploy IP Voice / VoLTE as a VNF?

100G6

- Upgrade the core to overcome perceived IP Voice / VoLTE QoS issues; or wait until data bandwidth requirements force packetization of 2G voice services?
- Upgrade core routers due to anticipated rise of 4G RAN data traffic; or virtualize core routing network elements to enable network data transmission flexibility?



Gigamon Unified Visibility Fabric

- Understanding how each Triple Challenge technology deployment affects other new technologies
- Understanding how each transported traffic type is affected by each newly deployed Triple Challenge technology
- Understanding how Real Time Protocol (RTP) traffic is affected by other transported traffic types on the same pipe

Gigamon Traffic Intelligence

Protection of multi-tiered security deployments



Traffic Intelligence Benefits

- The only way to address the deluge
- of subscriber offered traffic • Reduces the amount of data
- flowing to the attached tools
- Allows tools to throughput process
 greater amounts of data

FlowVUE[™]

Intelligently sample subscribers and their associated traffic flows



• See the forest for the trees

GTP Correlation

Subscriber-aware forwarding



GTP Correlation Benefits

- Removes correlation overhead for tools
 Connect next generation tools with no GTP capability to the network
- Offload complex processor centric
 - Onioad complex processor centric overhead to visibility layer
 Boost effective tool processing throughput

Adaptive Packet Filtering

Content-based filtering



Adaptive Packet Filtering Benefits

- Content-aware filtering and forwarding
 Filter on VXLAN network identifier
 (VNID) and other L2-L7 content
- Search on complex patterns with regular expressions
- Mask sensitive data for privacy compliance

De-duplication

Eliminate multiple copies of the same packet within a configurable time interval

VISIBILITY FABRIC[™]



De-duplication Benefits

- Reduce duplicated packets
- Increase accuracy and precision of analytic results

NetFlow Generation

Standards-based flow summarization and analytics



NetFlow Generation Benefits

- Offload switches/routers
 Generate NetFlow records for traffic anywhere in the network
- Generate unsampled flow dataSupport up to 6 different collectors

© 2014-2015 Gigamon. All rights reserved. Gigamon and the Gigamon logo are trademarks of Gigamon in the United States and/or other countries. Gigamon trademarks can be found at www.gigamon.com/legal-trademarks. All other trademarks are the trademarks of their respective owners. Gigamon reserves the right to change, modify, transfer, or otherwise revise this publication without notice.

Gigamon

6042-03 09/15