

Oracle Unified Assurance Flow Analytics

Flow Analytics, Reporting, Intelligent Insights and Real Time Alerting

Oracle Communications Unified Assurance Flow Analytics is a complete solution to collect, analyze, and provide real-time visibility into consumption of network bandwidth at the IP layer and above.

The addition of Flow Analytics – including collectors, dashboards, ML policies and active alerting – empowers Unified Assurance to provide CSPs, MSPs and large enterprises an assurance solution that is

- **Unified** across fault, performance, topology and traffic flow with a single pane of glass – in contrast to disparate, standalone tools for each purpose
- **Intelligent**, using ML policies to drive insights – enabling the transition of network operations from reactive alert-driven to proactive data-science driven
- **Active**, with real time operations alerting – in a manner consistent with the rest of Unified Assurance and facilitating dynamic resolution through automation

Flow Analytics enables you to

- Detect and troubleshoot potential issues before they occur
- Know what traffic is passing through your network and easily filter on potential threats
- Quickly identify which applications are responsible for high traffic consumption

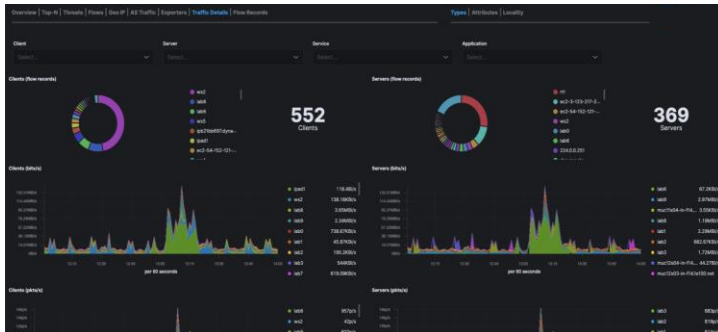


Image 1. Flow Analytics Traffic Details.

Benefits of Flow data

- Widely adopted in today's networks – all major vendors support Flow
- Easily accessible – just a matter of turning it on in routers
- Inexpensive – no hardware devices required, purely software
- Enables network insights – rivaling packet capture

Flow Analytics Dashboards

- Network Overview
- Top-N (Talkers, Services, Conversations, Applications)
- Threats
- Flows (Client/Server, Source/Destination and Autonomous Systems)
- GeolP
- Traffic Details, Attributes and Locality.
- And many others.....

Flow Analytics Supports:

- Netflow v5/v9, SFlow, IPFIX
- Telemetry including SFlow counter samples and other metrics from Cisco, Calix and more
- Full decoding and translation of all available data including DSCP, TCP Options, ECN, Fragmentation Flags and more
- Mgmt. templates provided for different devices

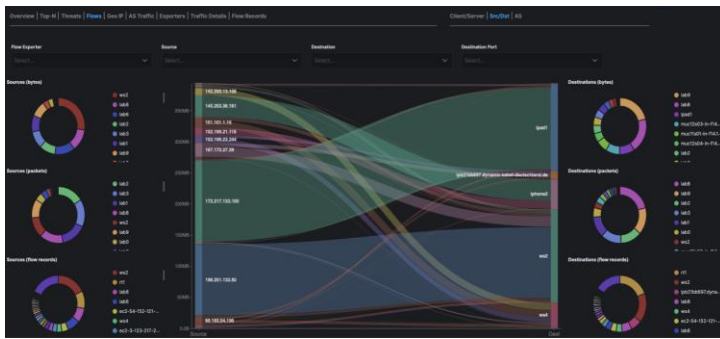


Image 2. Flow Analytics Source Destination flows.

Understand Who, What, Where and How Much

Flow data represents any data that is sent from one device to another device within a network. Data transferred between devices is called a conversation and each conversation has a device pair. Conversations are typically messages sent from one application to another; for example an email client sending mail to an Exchange Server.

Unified Assurance Flow Analytics is most useful for monitoring network security, implementing QoS, and planning for growth, expansion or network re-configurations. This type of data can help you to correlate network costs to the devices, subnetworks, external customers, internal users, and organizations or departments that use your network.



Image 3. Flow Analytics Threat analysis.

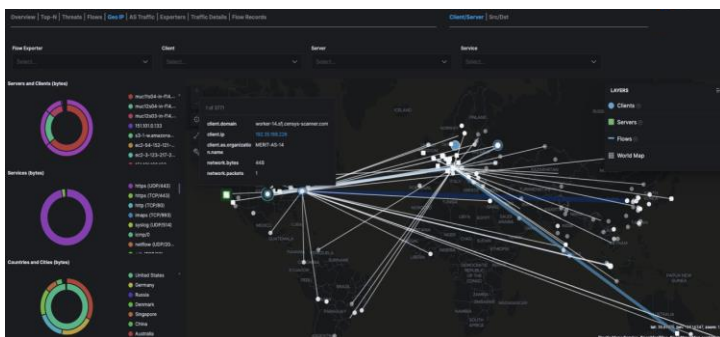


Image 4. Flow Analytics Client – Server Geo IP.

- Dynamic enrichment of network interface names and application names

Key benefits of Flow Analytics

- Provides insights to network operations, network planning and security teams into traffic traversing their network
- See which users, devices and/or applications are using the most bandwidth
- Discover traffic patterns & device performance
- Prioritize business-critical applications
- Validate effectiveness of constant bit QoS (CBQoS) policies

Unified Assurance Unified Topology

Flow Analytics extends support for Unified Assurance's Unified Topology features by visualizing conversations on a geographic map for visual threat analysis and traffic troubleshooting.

Oracle Unified Operations

The Unified Assurance solution is part of Oracle's Unified Operations suite of solutions.

- Together with Unified Orchestration, and Unified Inventory and Topology, the Unified Assurance solution enables full-service lifecycle automation, including designing, ordering, provisioning, orchestrating, and assuring overall service operations.
- Unified Assurance, with Unified Orchestration, drives guided and closed loop

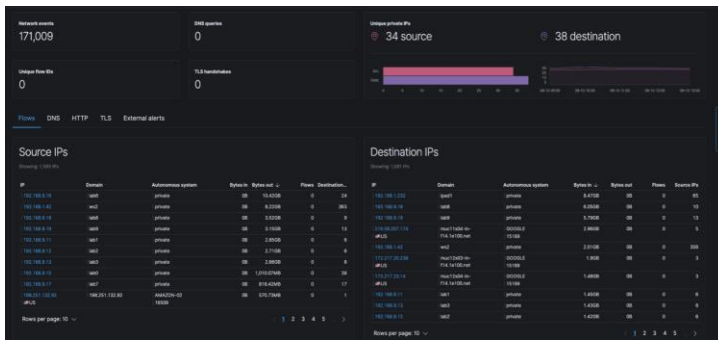


Image 5. Flow Analytics Security Event and Incident Management (SEIM).

service and network automation.

- Unified Assurance, with Unified Inventory and Topology, enables the transition to active and live inventory providing near real time visibility into networks and services.

Visualization of Multiple Data Sources

Seamlessly integrated within Unified Assurance, **Flow Analytics** provides operations teams with a clearer image of what is happening in your network.

Fully integrates to **Unified Assurance Event Analytics** to combine the power machine learning across events and flows in your network.

The addition of **Flow Analytics** provides **Unified Assurance** users the most comprehensive visibility possible; you can see unified Fault Management, Performance Management, Universal Topology and Traffic Composition from flow analysis.

Alerts generated from machine learning based flow analysis are seamlessly integrated into **Unified Assurance** Events for real time alerting and automated actioning.

Flow Analytics is licensed by collector

Seamlessly integrated within the Unified Assurance platform

- Easy to understand model
- Can add this capability to some or all collectors
- Enables both passive (ongoing) and active (dynamic) collection and analysis of flow data

Summary

Oracle Communications Unified Assurance Flow Analytics is a complete solution to collect, analyze, and provide real-time visibility into consumption of network bandwidth at the IP layer and above.

It enables Unified Assurance to provide a single pane of glass across fault, performance, topology and Flow data, provide intelligent insights using ML policies into the Flow data together with unified, real time alerting facilitating dynamic resolution through automation.

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