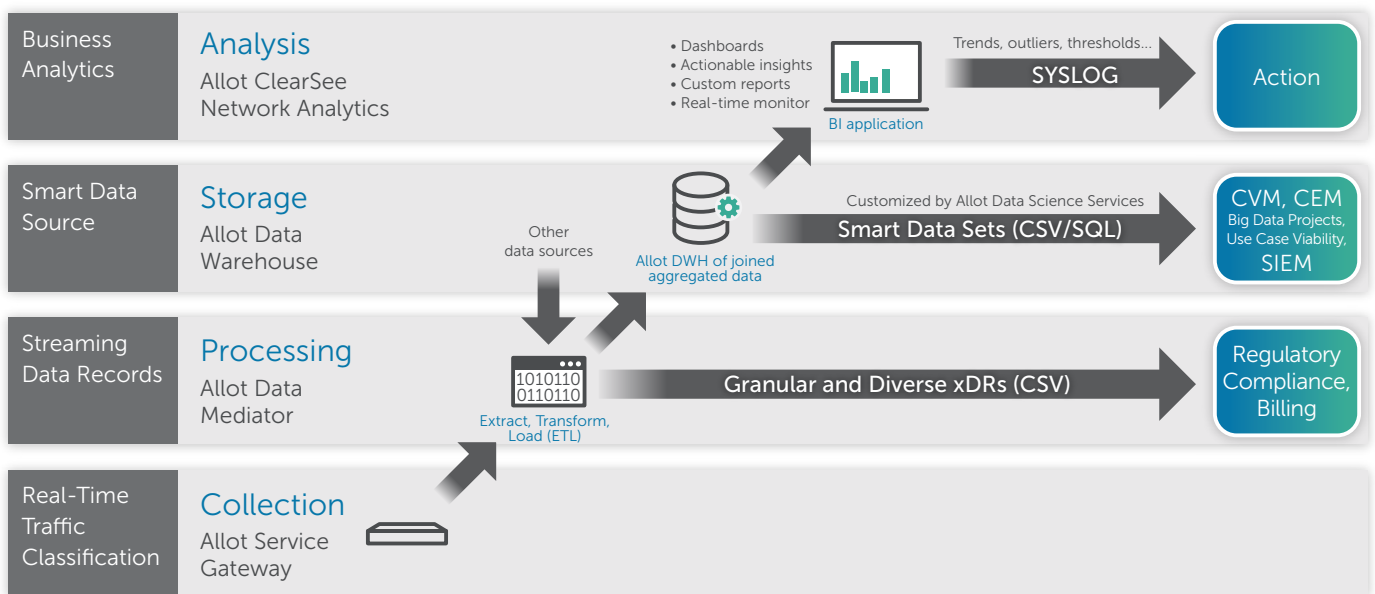Allot Smart^{NW}

ClearSee Network Analytics

Enterprise-wide Visibility of All Network Traffic

Network service performance and user satisfaction are critical to business success and productivity. With Allot business analytics, you get meaningful business intelligence from your company's network usage data, and the ability to make the right business decisions to achieve your goals.

Allot ClearSee Network Analytics includes a complete toolkit for seeing and understanding everything that is happening on your company network. As a result, your IT team can act faster and more decisively to make any size network operate better, faster, and safer.

Providing you the full value chain from data collection with Allot Service Gateways, up to business analytics with ClearSee, you get a rich variety of application, user, device, quality of experience (QoE), and security data records in real-time.

This increased visibility provides Security and IT teams with the necessary insights on how to assure and protect network services and performance.

Business Analytics	Analysis Allot ClearSee Network Analytics	• Dashboards • Actionable insights • Custom reports • Real-time monitor BI application	Trends, outliers, thresholds… SYSLOG	Action
Smart Data Source	Storage Allot Data Warehouse	Other data sources Allot DWH of joined aggregated data	Customized by Allot Data Science Services Smart Data Sets (CSV/SQL)	CVM, CEM Big Data Projects, Use Case Viability, SIEM
Streaming Data Records	Processing Allot Data Mediator	1010110 0110110 Extract, Transform, Load (ETL)	Granular and Diverse xDRs (CSV)	Regulatory Compliance, Billing
Real-Time Traffic Classification	Collection Allot Service Gateway			

Allot ClearSee Network Analytics provides enterprises with a breakthrough solution for network business intelligence

allot See. Control. Secure.

ClearSee Network Analytics

Deeper Understanding. Critical Business Insights.

Whether you operate a networked business or a business network, Allot business analytics give you deeper understanding of your network and the behavior of your users and applications.

Enterprise IT staff gain vital insights from visual reports and analysis of network traffic, online activity, and unusual traffic volumes, along with information pinpointing the causes. For example, real-time reports can show which applications and devices are consuming the bandwidth in a chronically congested link, while historical analysis can be used to identify traffic trends and their effect on network performance over time. Daily or weekly reports showing bandwidth consumption and usage volumes by application, user and site, QoE, and other vital statistics enable the IT team to identify problematic areas and take immediate action.

IT Management acquires a crucial consolidated view of the corporate network, allowing them to better define traffic management policies that meet business goals and keep employees productive. Business analytics enable informed, data-driven decisions on topics such as infrastructure investments and upgrades where and when they are needed. Web-based dashboards for ClearSee may be viewed on multiple devices from any location.

Allot ClearSee serves both network operations and security functions to help you preserve network hygiene by tracking the behavior of your users and applications, critical in the era of BYOD and shadow IT. For example, you can identify network abuse and unnecessary risk in the following ways:

- Identify abuse of network resources for recreational and personal use, such as streaming subscriber VOD (e.g., Netflix)
- Identify the use of private VPNs that could be used to circumvent security controls
- Identify the use of peer-to-peer apps that pose a liability for pirated content and can introduce malware with "license-free" software
- Identify apps such as crypto-mining that would indicate a compromised server or abuse of corporate resources.

Our experience shows that once the ClearSee solution is in place, our customers find new and innovative ways to create value from network and business analytics. Case in point: A multinational retailer used Allot service gateways and ClearSee to centrally monitor and control the traffic to 1000s of outlets from their datacenters. In addition to optimizing financial transactions and business collaboration apps, they also looked at the on-line behavior of in-store customers. An opportunity was discovered regarding buying patterns; they took that information and used it to position relevant targeted promotions.

A Powerful Self-Service Approach to Analytics

Allot ClearSee provides a complete toolkit for analyzing enterprise network usage data with extreme ease and efficiency. We bring all the important tools you'll need together on a single screen, including:

o   Real-Time Network Monitor
o   Network Metrics
o   Self-Service Reports

Real-Time Monitor

The Allot real-time monitoring dashboard lets you visualize network and application usage as it happens. Live performance metrics report anomalous network activity in a matter of seconds. Real-time views also include traffic according to the policy-enforcement elements you have defined per application, per employee, per location, per link, etc. With this level of granularity, it's easy to track real-time activity and troubleshoot problems related to individual users, remote locations, WAN links, applications, or any other element that has been associated with an enforcement policy. Moreover, live dashboard views may be customized to address your precise requirements and business priorities.


Allot Real-Time Monitor Dashboard

Insightful Network Metrics

Allot ClearSee reporting dashboards make it easy for your IT staff to measure and visualize the network and user activity that matters most. Dashboard reports are interrelated and interactive. Drilling down or changing the data fields of one report instantly updates and refreshes the display of the other reports in the dashboard. In addition, individual reports and dashboards are easily customized. Reporting dashboards are organized into domains relevant to every network administrator – Network, User, Experience, and Security.

Analytics Domains	Reporting Dashboards
Network	Real-time health, Congestion analysis, Busy Hour, Peak Period, Application usage/popularity, Protocol usage, and more
User	App usage, Device usage, Content consumed, Video and VoIP usage, QoE metrics, and more
Experience	Top content, Top consumers, Top web-apps, Video and HTTP QoE per app/sub/device, and more
Security	Security dashboards display web activity, threat events, and blocked targets
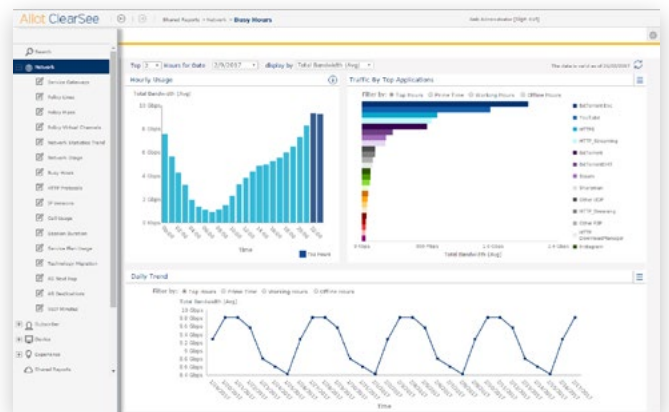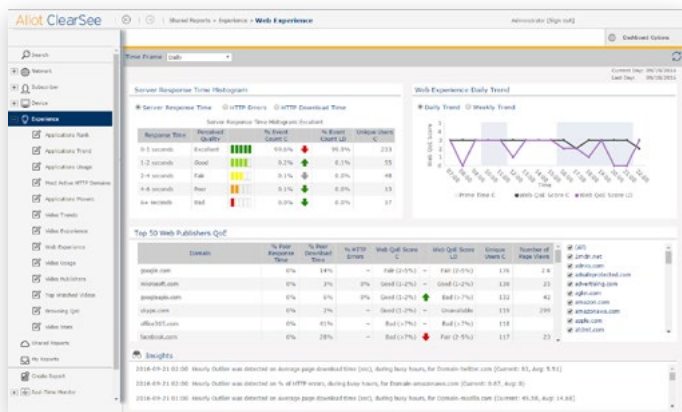
Network Metrics Dashboards

Self-Service Data Mining

With Allot ClearSee Network Analytics you aren't limited to a predefined set of reports or a specific way to analyze data. As new requirements arise, or new data information presents itself, our self-service analytics module helps you model your questions and find answers to complex business problems. For example, SLA validation dashboards ensure employee satisfaction through acceptable QoE for business-critical applications such as collaboration and web conferencing, or finance transactions, CRM and cloud-based services.

While the self-service module is easy enough for anyone to use, it provides an excellent tool for experienced analysts who have access to source data that are varied, detailed, and accurate. Custom, ad hoc analyses and reports can be built without the need for software development or upgrade. Changes and what-if scenarios can be tested on the fly. With self-service, you can find answers to specific questions, explore possible courses of action, and often discover problems and opportunities that were not anticipated.

Multiple Ways to Share

Dashboard and self-service reports may be shared with others via the GUI, and exported in a variety of formats, including Excel (plain text or with formatting), PDF, and CSV file.

GDPR Compliance

Data privacy and integrity are top concerns for IT administrators. Allot provides robust security settings that meet GDPR requirements, allowing administrators to control access to the applications as well as use/view privileges to the data and to the different analytics tools. The system administrator controls the following security settings:

o Access Authentication controls login permissions
o Functional Privileges control the functions that each user/group may use
o Object Permissions control the business objects that each user/group may use
o Data Security filters control which data each user/group may access or view
o Database Security controls direct access to the Allot data warehouse

Data Science Services

Allot Data Science Service experts can help you identify and obtain the right data sets and build customized reports for specific use cases that need specific analysis. Our expertise and experience can save you time and money as we help to aggregate the right data sets, generate custom reports, and build custom dashboards that quickly give you critical network usage insights.

Sizing

Allot ClearSee Network Analytics software and hardware packages may be purchased in node configurations designed to support data collection and export for SME and large enterprises, as well as datacenter and cloud service providers. The system is highly scalable, designed to support carrier networks and millions of endpoints. Allot ClearSee software may be installed on physical and virtual machines. for more details about the virtual edition, individual sizing, and installation requirements, please consult your Allot representative.