DATA SHEET

# ARUBA NETINSIGHT

Advanced network analytics for a mobile-first campus

Aruba NetInsight delivers actionable guidance for improving network performance and the quality of your users' mobile experience via continuous monitoring, analysis, and benchmarking. Using powerful machine learning algorithms and Aruba's extensive wireless expertise, NetInsight arms IT organizations with the intelligence needed to proactively optimize how data, voice, and video applications perform across your entire campus – including local and remote locations.

As organizations move to mobile environments with unpredictable connectivity patterns, more wireless initiated voice and video usage, and access from multiple device types due to BYOD programs, NetInsight delivers the visibility and learning needed for today's always-on network requirements.

## HOW NETINSIGHT WORKS

Data feeds from multiple sources including your Aruba wireless infrastructure, DHCP and authentication servers are gathered via a data collector that is deployed onsite in your data center.

## KEY FEATURES

- Network analytics as-a-service
- Transforms existing network data into powerful insights
- RF configuration based on environmental classification
- Anonymous peer-to-peer benchmarking
- Recommendations for continuously improving network performance and user experience

The data is then compressed and sent via a secure tunnel to the NetInsight cloud instance.

NetInsight is then able to analyze network connectivity and performance issues by leveraging machine learning-based models, Aruba's Wi-Fi expertise, and the latest cloud technologies.

A cloud-based dashboard allows network admins to view insights along with root causes, and more importantly, provides recommendations to fix immediate and foreseeable network performance issues.

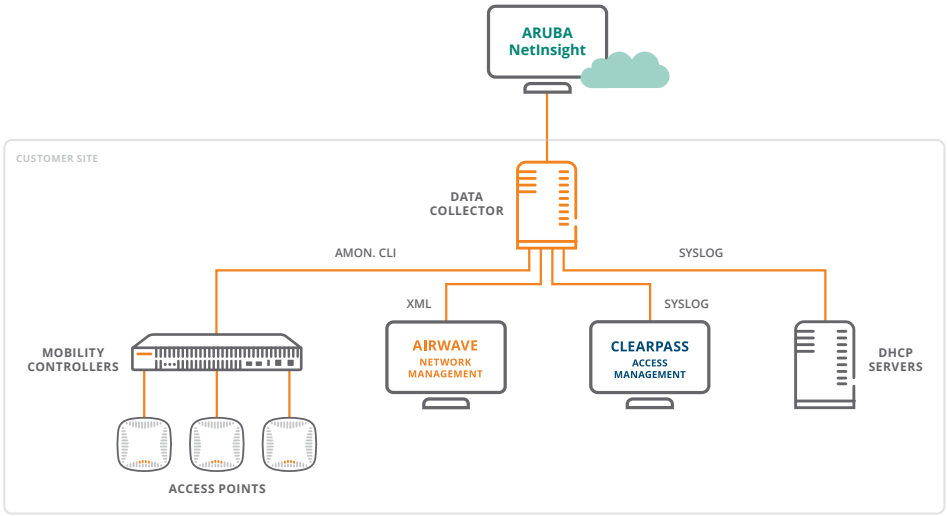


Figure 1: Aruba NetInsight Topology

## KEY CAPABILITIES DELIVERED BY NETINSIGHT

### Wi-Fi Optimization with Benchmarking

Proactively optimize network performance with:

- Automatic classification of individual APs based on environmental measures such as radio propagation, AP arrangement, user behavior and traffic characteristics
  - Radio propagation attributes include path loss exponent, through-ceiling loss and number of adjacent floors
  - AP arrangement attributes include AP density, AP uniformity, and AP capabilities
  - User behavior attributes include user density, user mobility, connection duration, and device class mix
  - Traffic attributes include load statistics, application type distribution and UL/DL ratio
- Recommendations for configuration tuning and projected impact on user experience
- Anonymous peer benchmarking based on comparative learnings against similar networks

### Impact Analysis

Identify the outcome of a change on the network based on key performance indicators with:

- Event creation for marking configuration modifications and firmware updates as tracked change triggers
- Pre- and post-event comparisons for monitoring the outcome of a change for an extended period of time to validate that it has either improved performance, remained the same, or regressed

### Real-time Anomaly Detection

Easily detect irregularities that can be extremely difficult to identify manually, but can be early indicators of bigger problems using:

- Baseline models of "normal" based on various attributes of tracked metrics
- Automatic monitoring for inconsistent device and radio performance events and trends
- Intelligent clustering of events to focus on anomalies that will actually degrade user experience

### User Connectivity Insights

Focus on what is truly impacting user experience with:

- Real-time monitoring of authentication, DHCP and Wi-Fi connectivity failures
- Automatic elimination of false positives by machine-learned roaming patterns to automatically discount irrelevant failures
- Insight-driven root cause analysis and recommendations to fix problems proactively

Aruba NetInsight empowers IT organizations with the insight needed to focus on what is most relevant and critical to the business, and continuously measure and tune network performance.

## SPECIFICATIONS

NetInsight Solution Components

- Cloud-based Interface
- Data Collector – 1U Server (HPDL360) running CentOS7

Data Sources

- Aruba Mobility Controllers – version 6.4.x and higher
- Aruba ClearPass – version 6.6 and higher
- Aruba AirWave – version 8.2 and higher
- DHCP – Infoblox, ISC, BlueCat

Network Protocols

- AMON – Aruba Controllers
- Syslog – Aruba ClearPass, DHCP & DNS
- XML – Aruba AirWave

Security

- IPSec tunnel to secure traffic between the data collector and NetInsight instance in the cloud

## ORDERING INFORMATION

| Part Number | Description |
|---|---|
| JZ115AAE | Aruba NetInsight 1-year Subscription per 1 Network Device |
| JZ116AAE | Aruba NetInsight 3-year Subscription per 1 Network Device |
| JZ117AAE | Aruba NetInsight 5-year Subscription per 1 Network Device |

NetInsight subscription is licensed per year per network device. Choose from 1, 3 or 5 year subscriptions. Network devices include APs and Controllers.

For example, to subscribe to NetInsight for 3 years for a network with 2,000 APs and 5 Controllers, order 2,005 x JZ116AAE.

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