

NARUS nSYSTEM



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CONSTANTLY DEEPENING INSIGHT FOR A NEW LEVEL OF CONTROL

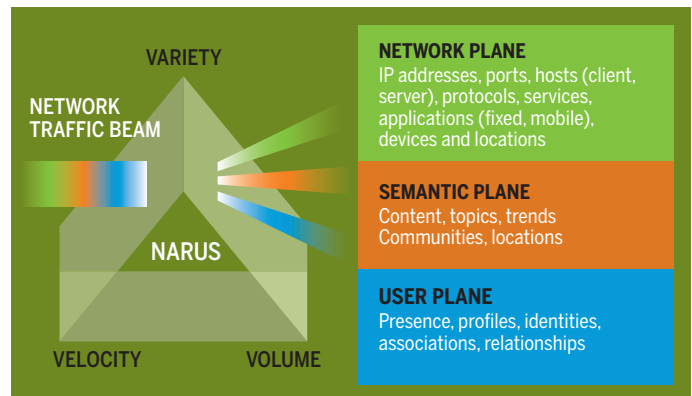
As the Internet grows more complex and dynamic, information security organizations are inundated with enormous volumes of data, users connected at tremendous speeds, and ever-changing dynamics with new devices and applications entering the network all the time.

The only way for organizations to stay ahead is to identify and analyze every piece of data that flows across the network and to understand it in context of everything else that is happening — a job that is impossible for any human or team of humans to undertake. The future of cybersecurity requires a new approach: drawing from the richly layered semantic web to enable machine-to-machine analysis and automated machine learning to bring deep new meaning to network activity and user behavior.

BRINGING CYBER 3.0 TO CYBERSECURITY

Narus nSystem is a portfolio of analytics that apply automated machine-based algorithms to process 100% of network packets to discover, analyze, and understand every interaction on a network. nSystem develops rich profiles of every interaction to provide deeper context for faster, more accurate awareness. Analysts can hone in immediately on critical issues instead of wasting their time on unimportant conditions or manually trying to piece together data to get the big picture.

This context is possible because of the way nSystem separates the data it processes into three different “planes,” which offer distinct sets of dimensions critical to developing a complete understanding of network activity and user behavior. The network plane consists of information about devices (brand, type and operating system) and hosts (client, server, applications, protocols and services).



The semantic plane consists of content, topics, trends, communities and locations. The user plane consists of presence, profiles, identities, associations and relationships about users. The nSystem analytics automate the understanding of each of these planes, identify the context of the interactions, and aggregate data across the planes to deliver incisive intelligence.

NETWORK PLANE ANALYTICS

These analytics provide solutions for some of the most common challenges network operators and security analysts face:

- **Visibility:** Situational awareness and visibility across every dimension, with volumetric analysis of traffic patterns and targeted packet capture for in-depth analysis
- **Control:** Alignment of every aspect of network usage with enterprise goals
- **Context:** Identification of hidden relationships and connectivity patterns between network elements and end users

SEMANTIC PLANE ANALYTICS

Semantic analytics allow users to perform sentiment analysis, identify relationships between users through the content they share or network elements they share. These analytics provide:

- **Visibility:** Situational awareness about content, communities, locations, and demographics
- **Context:** Insight into explicit and implicit relationships, association of content with users, their locations and their roles

USER PLANE ANALYTICS

User analytics help build associations between users, the content and the network elements that they use. User plane analytics provide:

- **Visibility:** User identification and digital fingerprinting with elements across every plane
- **Control:** Alignment of user activity and relationships to enterprise goals
- **Context:** Insight into relationships between users, content and network elements, as well as compounding of user profiles with more detail and depth over time

DEPTH OF INSIGHT THROUGH DATA FUSION AND CONTINUAL LEARNING

Narus nSystem fuses data sets from the three different planes together and compounds the rich knowledge already developed about a profile as machine learning takes place. The technology continues to grow smarter and automates the chaining of data, building off these newly formed data models and learning from past patterns to predict how new threats and conditions will take shape.

This Cyber 3.0 approach provides you with contextualized, definite answers to your toughest questions, and provides a new level of proactive control to let you act faster and preemptively defend against emerging cyberthreats.

THE THREE LAYERS OF NARUS NSYSTEM

Narus' nSystem is built on an elastic architecture that:

- Is extensible with vertical and horizontal scalability
- Is agnostic to network architecture
- Supports broadest combination of interfaces, protocols and application visibility

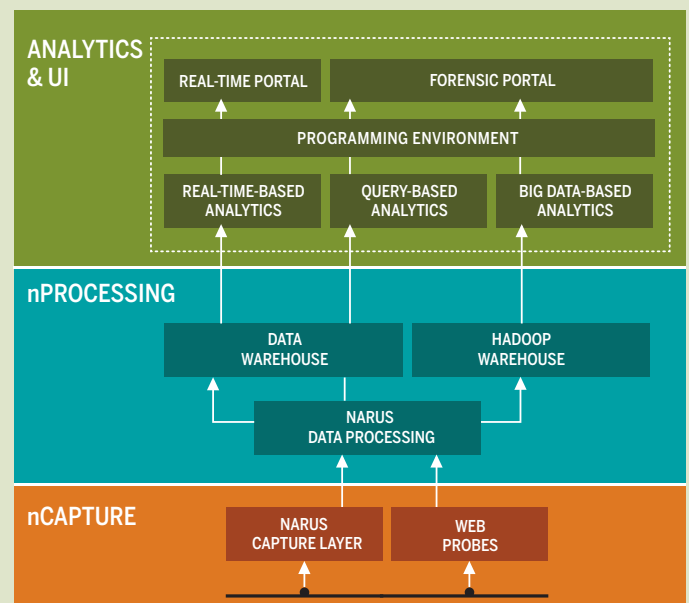
ANALYTICS LAYER

The analytics layer offers interactive dashboards with multi-dimensional views for the Narus network analytics, semantic analytics, user analytics and targeted session captures. Narus nSystem also offers advanced analytics for automated data correlation with machine learning.

This layer provides user-friendly visualization of the analytics, allowing users to instantly see vital information and navigate through the information quickly and easily.

nPROCESSING LAYER

This layer offers centralized scalable data processing and storage framework. Narus nSystem uses a combination of data warehouse and Hadoop to provide a combination of rapid response times and cost-effective data storage.



Narus nSystem provides comprehensive and adaptive analytics to enhance cybersecurity and protect critical assets.

nCAPTURE LAYER

Narus has architected the nCapture layer for distribution at multiple sites. 100% of the packets are examined but only the critical metadata is stored to provide session fidelity. The Narus nSystem supports a broad range of network architectures and supports 20 G and a path to 100 G link capacities.

THE NARUS DIFFERENCE

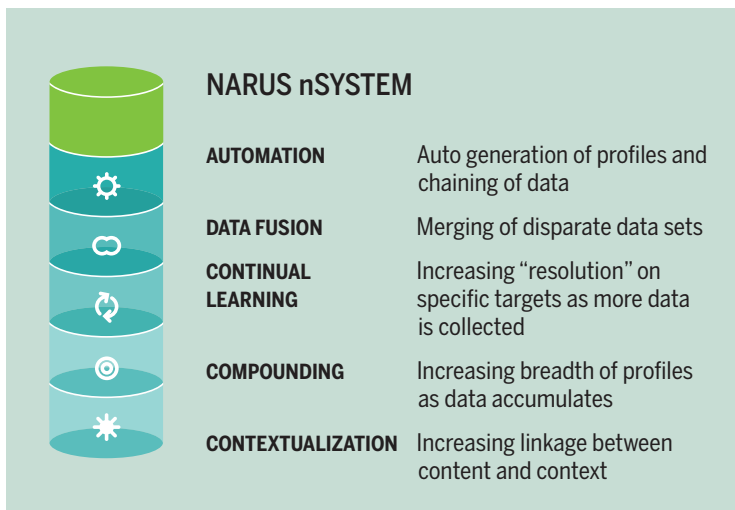
Answering the critical questions that face you today requires a new depth of intelligence, gained from the ability to automate, fuse, continually learn, compound and contextualize information in spite of the great velocity, volume, and variety of data. Enter the Narus nSystem for Cyber 3.0: harnessing the semantic web for automated, continuous machine learning.

LEARN MORE

Contact us to learn more about Narus nSystem and find out how we can enhance your cybersecurity and protect your critical assets.

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Narus nSystem provides unique depth and breadth of insight at every plane. The ability to fuse all the identified dimensions – data gathered from structured and unstructured sources — analyze the data and deliver intelligence to the user gives you a new level of control to predict and protect your future.