

Infosim's StableNet* Based on Intel® Architecture Provides Any-to-Any Connectivity for IoT

Enabling data-driven insight and holistic visibility for Telco, service providers, and the enterprise



Perhaps the central challenge as the Internet of Things (IoT) becomes a driving force in the worldwide economy is enabling secure, manageable, seamless connectivity across diverse things, protocols, systems, and infrastructures. The difficulties and risks are similar for organizations from service providers and enterprises to Telco. On the one hand, there are myriad vendors, applications, protocols, configurations, and management systems that are neither integrated nor interoperable. On the other, the sheer volume of data is ever-increasing and a digitally savvy global population and workforce are placing new demands on businesses large and small. New management systems can take years to rollout, delaying new services and revenue streams, and increasing maintenance costs. These factors create a set of complex, costly obstacles facing organizations for whom modernization is a competitive necessity.

Infosim focuses on addressing the core IoT challenge with a flexible, innovative platform based on powerful, high-performance Intel® architecture. StableNet* is designed to connect "any-to-any," providing new levels of assurance and interoperability to both legacy and modern IoT infrastructure. By enabling protocols, networks, databases, and applications to talk to each other securely, and providing holistic, end-to-end visibility, Infosim and Intel are enabling viable, cost-effective connectivity with all the accompanying business and end-customer advantages. StableNet is being utilized by managed service providers (MSPs), enterprises, and Telcos, as well as in energy and manufacturing implementations.

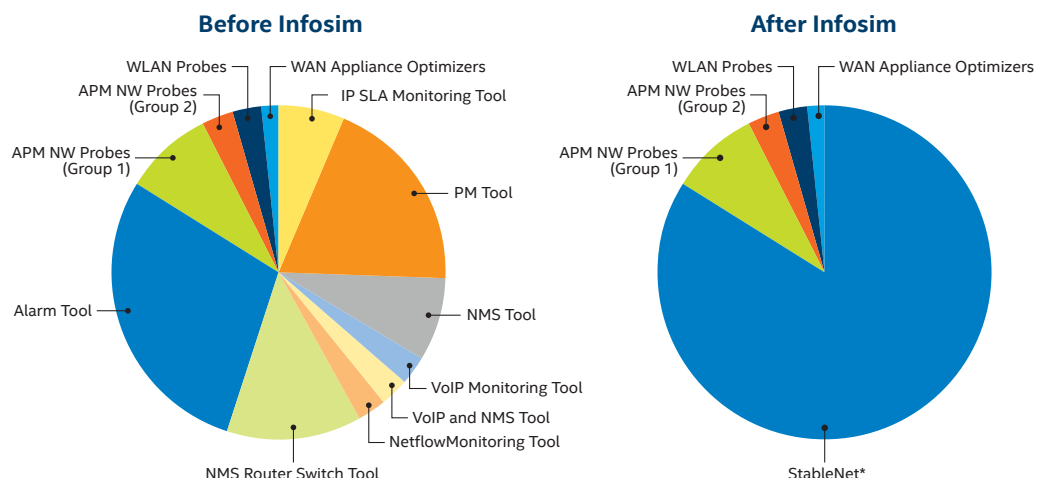


Figure 1. Infosim simplifies the "zoo" of management applications and increases cross-business visibility

StableNet is a third-generation highly automated network and services management system. The key differentiator compared to other types of legacy Operational Support Systems (OSSs) is that StableNet is a unified OSS system with three integrated functions that focus on configuration, fault, and performance management, with automated root cause analysis (RCA). StableNet can be deployed on a multitenant, multicustomer, or dedicated platform, and can be operated in a highly dynamic flex-compute environment. A modular licensing model allows companies to pay for what they need, and scale up or down as their business evolves.

StableNet benefits include:

- **Comprehensive management:** Unified configuration, fault/RCA, and performance management in a single product.
- **Lower costs:** Reduction in OPEX and CAPEX via product consolidation, step-by-step migration, and retirement of existing legacy element management solutions.
- **Streamlined access:** Automated service delivery directly from your integrated service catalog.
- **Policy-based:** Configuration and policy governance that maximizes service availability and reduces MTTR.
- **Rapid ROI:** Due to reduction in OPEX and CAPEX, and customer service credits realized via greater service availability.
- **Service-oriented architecture (SOA):** Enables high levels of integration and flexibility.
- **Built for business:** An Intel architecture foundation helps ensure high levels of security, performance, reliability, and scalability, along with a long-term roadmap to maximize investments.

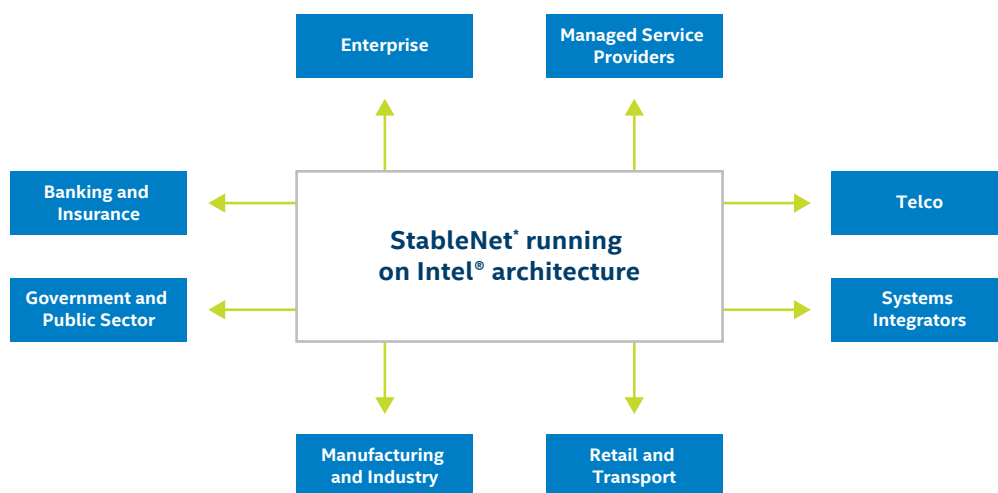


Figure 2. The agile, holistic IoT platform for business and industry worldwide

StableNet is available in two versions

STABLENET* TELCO	STABLENET* ENTERPRISE
A comprehensive unified management solution for telecom operators and ISPs.	An advanced, unified, and scalable network management solution for IT and managed service providers.
Services and network performance analysis	Automated fault and performance management
ICT and application performance monitoring	Automated IT infrastructure discovery via devices and/or via CMDB
Customer service monitoring	Automated root cause analysis
Service assurance and configuration management	Network configuration and change management
Mobile/4G LTE	Automated reporting
Inventory tracking	Security, audit, integration, and compliance monitoring
Field monitoring	
Network configuration and change management	

Sample use cases

Telco Service Assurance

Telco companies are increasingly tasked with managing not only fixed and mobile networks, but also VoIP and IPTV, internal IT systems, applications, DBs, FWs, and key application services for business customers. Achieving convergence and cross-silo visibility with legacy systems requires time-intensive efforts and large upfront investments. With StableNet Telco running on Intel® platforms, Telco operators and managers gain integrated performance, fault, automated root cause, configuration, and inventory management within one consistent, modular Telco NG OSS solution.

The solution simplifies services-oriented management, including installation, deployment, and operations, and reduces total cost of ownership (TCO). Offerings include quad-play, mobile, high-speed Internet, VoIP (IPT, IPCC), IPTV across carrier Ethernet, metro Ethernet, MPLS, L2/L3 VPNs, multicustomer VRFs, Cloud, and FTTx environments. IPv4 and IPv6 are fully supported.

- Supports handling of mass-CDRs, large numbers of IP and MPLS network elements, NetFlow, systems, and servers.
- Scales to very large distributed Telco, MSP, SaaS, and cloud environments.
- Supports distributed deployment of large numbers of small management agents at small sites. This allows cost-efficient, centralized, end-to-end monitoring for large numbers of distributed small sites and offices.
- Allows step-by-step implementation and modular licensing for phased replacement of legacy management solutions.

Enterprise Infrastructure Management

Today's enterprises are competing in a 24/7 service economy, with an infrastructure and application mix that is steadily growing in size and complexity. Outages and service

disruption are costly and result in a loss in productivity. Monitoring of networks, applications, and devices is more critical than ever before, with a mix of personal and business devices accessing corporate networks amidst rampant security and identity threats. With StableNet Enterprise running on Intel platforms, organizations gain proactive management with near-real-time problem identification, remediation, and restoration. This highly automated, consistent, cross-silo IT monitoring and reporting management solution addresses complex large, distributed IT network infrastructures, IT systems, and ICT services challenges in an efficient and secure way.

How it works in brief

StableNet's unified network and services management platform has been addressing IoT management for years. This scalable platform consolidates many discrete network management functions. It can discover, map, monitor, and manage large-scale networks, with reporting, alerts, and visualization of overall IT infrastructure.

It is ideally suited for cloud infrastructure management. StableNet provides an array of functional capabilities required for monitoring and managing the hosting platforms within a cloud environment.

Application performance monitoring (APM) products in the market place today have a wealth of functionality that brings additional complexities and ultimately results in a costly operating model. StableNet's APM functionality is already integrated with other enriched capabilities, making troubleshooting and identification of root causes much easier.

Many applications today are browser- or web-based. StableNet has the ability to configure predefined scripts that interact with a web-based application and perform a suite of metric tests. These are collected and analyzed for specific performance-related issues, as well as problem determination, monitoring, and reporting requirements.

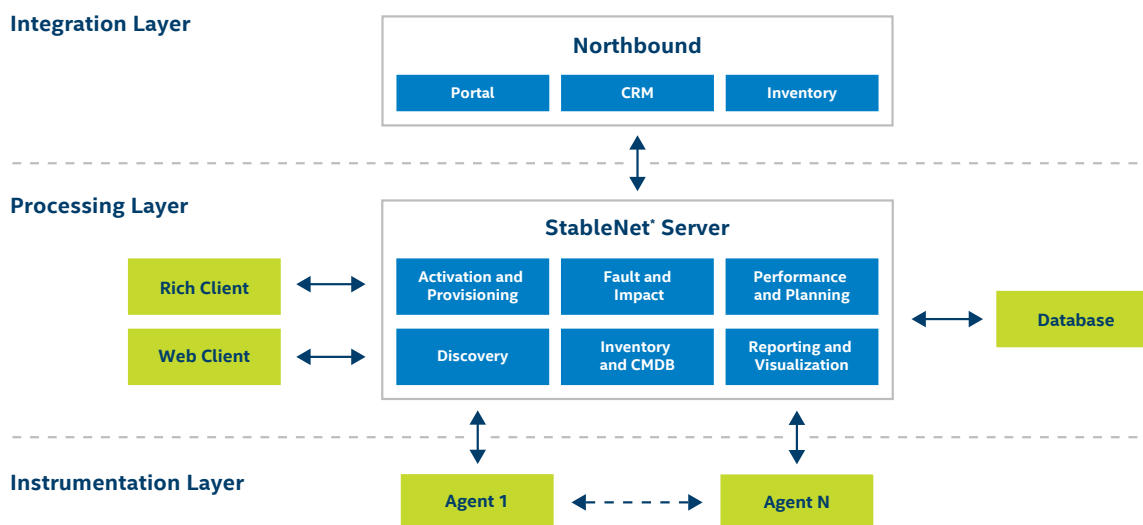


Figure 3. The StableNet platform provides a flexible service-oriented architecture

Conclusion

Now organizations can easily and cost-effectively overcome the main hurdle to taking full advantage of smart systems that deliver seamless connectivity and data-driven intelligence. Put simply, with Infosim's StableNet based on Intel technology, the common "zoo" of management systems becomes manageable, interoperable, integrated, and effective. With StableNet, you can manage devices, networks, databases, and services; achieve visibility across systems, vendors, and protocols; and scale to meet evolving requirements. Together, Infosim and Intel are enabling organizations to deploy software-defined networking and SaaS so they can innovate and compete in a connected world.

About Infosim

Infosim is a leading manufacturer of automated service fulfillment and service assurance solutions for Telcos, ISPs, managed service providers, and corporations. Since 2003, Infosim has been developing and providing StableNet to Telco and enterprise customers. Infosim is privately held with offices in Germany (Wuerzburg, HQ; Muenster), United States (Austin), and Singapore.

infosim.net

Resources

[StableNet Telco: Automated Service Assurance and Fulfillment ›](#)

[StableNet Enterprise: Automated IT Management and Business Service Assurance ›](#)

[StableNet Appliance: Infosim StableNet Software on ready-to-run systems platform ›](#)

[More on StableNet ›](#)

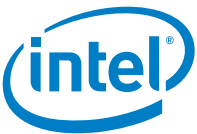
The foundation for IoT

Intel works closely with the ecosystem to deliver smart Internet of Things (IoT) solutions based on standardized, scalable, reliable Intel® architecture. These solutions range from sensors and gateways to server and cloud technologies to data analytics algorithms and applications. Intel provides essential end-to-end capabilities—performance, manageability, connectivity, analytics, and advanced security—to help accelerate innovation and increase revenue for enterprises, service providers, and the Telco industry. Intel can help organizations use data to monitor, control, optimize, and benchmark, as well as to share historical and near-real-time information to improve decision-making.

Learn more

Infosim is a general member of the Intel® IoT Solutions Alliance. From modular components to market-ready systems, Intel and the 400+ global member companies of the Alliance provide scalable, interoperable solutions that accelerate deployment of intelligent devices and end-to-end analytics. Close collaboration with Intel and each other enables Alliance member to innovate with the latest IoT technologies, helping developers deliver first-in-market solutions.

- For more information about Infosim, please visit infosim.net or contact us at info@infosim.net.
- For more information about Intel® IoT Technology and the Intel IoT Solutions Alliance, please visit intel.com/iot.



Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software, or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer, or learn more at intel.com/iot.

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