

SOLUTION BRIEF

Intelliden Policy Based Compliance Management Total Network Compliance for Network-Driven Organizations

Intelliden Policy Based Compliance Management (PBCM) is a comprehensive network compliance application, which defines and manages policies to continually validate device configurations and intelligently resolve non-compliant conditions. Intelliden Policy Based Compliance Management automates the complete network compliance lifecycle to define policies, validate devices against policies, resolve violations and report results in a continuous and closed-loop manner.

Intelliden PBCM has been designed to audit and enforce a wide variety of regulatory, industry, security and operational compliance requirements — including SOX, EU Safe Harbor regulations, PCI DSS and HIPAA — as they pertain to networks.

Unique PBCM Capabilities

- *First* application to fulfill the **total network compliance** needs — including regulatory, industry, security and operational — of network-driven organizations
- *First* application to support the **dynamic compliance** requirements of complex, multi-vendor, mission-critical network environments
- *First* application to provide **intelligent remediation** by translating network policies into actionable resolutions
- *First* application to create an **effective bridge between business and IT** to enable organization-wide network compliance

Network Compliance Drivers and Challenges

Despite the high costs of non-conformance, most enterprises lack the ability to automatically and intelligently create and enforce network policies for their mission-critical networks. Effective implementation of comprehensive compliance policies in a dynamic, multi-vendor, complex network environment is a challenging task. It becomes even harder when enterprises need to support multiple business-critical services and applications and IT and network personnel need to configure devices through manual processes, scripts or proprietary solutions. As a result, enterprises face several network compliance challenges, including:

- **Reduce Regulatory and Industry Compliance Overhead** — Enterprises face a plethora of regulatory and industry compliance audits and costs. Some of these are due to legislative initiatives such as the Sarbanes-Oxley Act (SOX) in the United States and the European Union's Safe Harbor regulations. Others result from industry mandates e.g. Payment Card Industry (PCI) Data Security Standard, which requires conformity by any network that supports credit or debit card transactions. According to analyst estimates, these are expected to represent an average of 15% of networking budgets from 2005 through 2009.

■ Maximize Network Availability and Business

Continuity — IT and network departments need to support high levels of network availability and business continuity, whether for in-house desktops or e-commerce transactions. However, many lack rules and procedures, or “policies” to ensure accurate network configuration and change management. Device misconfigurations can lead to network disruptions, which negatively impact the business.

■ Eliminate Network Security Risks —

Security vulnerabilities and violations can expose enterprises to devastating consequences. According to some analysts, up to 80% of network security problems are directly related to faulty configurations. Enterprises must take continual steps to eliminate security breaches so that sensitive customer information is not compromised and brand image is not damaged.

■ Lower Operational Costs and Increase Efficiencies —

Manual processes and script-based solutions are unreliable and cannot scale to meet the operational requirements of today’s enterprises. These can be highly complex environments with hundreds or thousands of devices from multiple vendors. They are also highly dynamic due to frequently changing business and application demands. In order to maximize operational efficiencies, network complexity must be tamed.

Traditional first-generation network compliance solutions are often ‘script based’ and narrowly focused on regulatory or security compliance. They ignore the need for holistic and comprehensive network compliance, which must support all business requirements as they pertain to networks. Traditional network compliance solutions also do not have the intelligence, flexibility or scalability to address the complex requirements of carrier class networks. They take a ‘top down’ approach to compliance, where policies are put into practice throughout the network. However without a thorough ‘bottom-up’ analysis based on the real-time state of the network devices and the impact of changes to service delivery, it is virtually impossible to deliver effective network compliance in such environments.

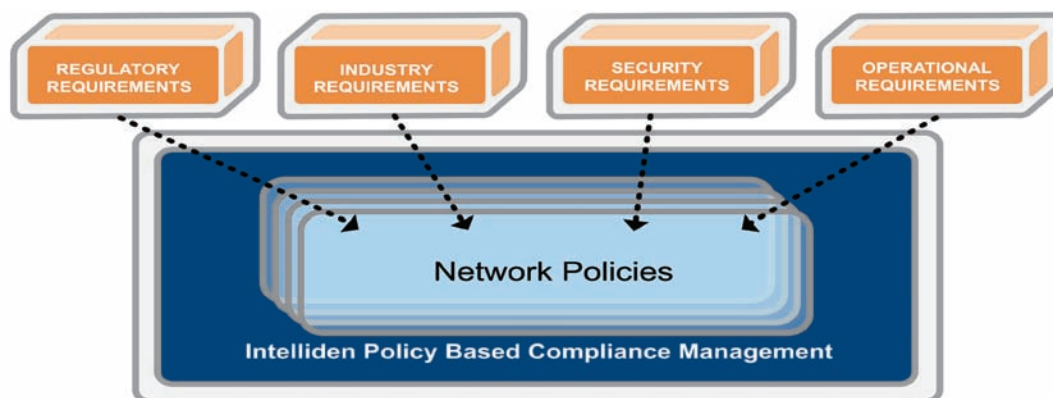
Total Network Compliance from Intelliden

Only Intelliden Policy Based Compliance Management can provide **Total Network Compliance** and meet all the compliance needs of today’s dynamic, complex and heterogeneous network-driven organizations, including regulatory, industry, security and operational requirements. This may include authentication policies to protect against unauthorized access to sensitive data, audit policies to track who made what changes to the network, security policies to apply inbound anti-spoof filters or operational policies to enable SNMP traps.

Using its unparalleled networking expertise and deep understanding of network devices, Intelliden has developed a new generation compliance management application. PBCM embodies the flexibility and scalability required to maintain high network availability and flawless delivery of services. Intelliden PBCM provides an effective way for IT and network departments to gain greater control of network resources in a dynamic and complex environment. At the same time, Intelliden PBCM enables timely access to critical network compliance information to business units across the broader organization.

Solution Highlights

- Fulfills the total network compliance requirements of network driven organizations including regulatory, industry, security and operational.
- Incorporates a closed-loop process to support the entire compliance lifecycle, from the implementation of compliance through policy correlation with network configuration, to the validation of compliance and detection of violations, monitoring and reporting.
- Enforces device specific and network wide compliance policies regardless of vendor, type, model or operating system (VTMOS).
- Supports an unlimited combination of network compliance policies and devices, from a few hundred to tens of thousands.



- Utilizes intelligent remediation to effectively resolve out-of-compliance conditions on network devices on an ad-hoc, scheduled or automatic basis.
- Provides comprehensive reports for executives, compliance departments, security teams and business units, network engineering and operations for audit purposes which show point-in-time as well as historical data and trends.
- Integrates with 3rd party business and operational applications, e.g. Business Intelligence, Governance, Risk and Compliance Management, Trouble Ticketing and Configuration and Change Management.

Closed-loop Compliance Management Process

Intelliden Policy Based Compliance Management takes network compliance to a new level, with advanced business logic that is sophisticated enough to support an unlimited combination of network compliance policy variables ... essential for large, complex service provider environments, which have extremely dynamic networks and strict requirements for high network availability and security.



Intelliden PBCM manages the entire compliance lifecycle within an on-going, closed-loop process that defines compliance policies, runs validations on the active network configuration, provides automated or user-driven resolution of compliance violations and provides compliance reports for audit and business purposes.

Compliance Without Limits — Define Policies

- Supports an unlimited number and combination of compliance policies
- Enables policies to capture all possible rules and standards
- Fosters re-use of existing policies through parameter management
- Incorporates a drag and drop, easy to use GUI for rapid policy creation
- Provides out-of-the-box policies, e.g. NSA Router Guidelines

“Always On” Compliance — Validate Devices against Policies

- Ensures continuous and accurate enforcement of policies using the Intelliden Policy Engine
- Validates against any device type
- Provides support for more than 1 million validations per hour
- Supports scheduled, ad-hoc and automatic validation

Intelligent Remediation — Resolve Compliance Violations

- Applies corrective actions automatically, or through user intervention
- Allows the corrective action based on type of violation, historical compliance status of the device and other user defined parameters
- Supports compliance exemptions and avoids unnecessary alarms

Audit Ready — Generate Compliance Reports for Audit Purposes

- Publishes a variety of standard and customizable reports for auditing and business purposes
- Dedicated reports for both business and technical audiences

Designed for Network-driven Organizations

Intelliden Policy Based Compliance Management has been specifically designed for the demanding compliance needs of network-driven organizations. It manages the inherent network complexity of such environments and helps to balance competing demands of absolute compliance and business continuity. It also provides support for dynamic compliance at multiple levels. Compliance policies for network operations need not be static and can be easily adapted as business needs evolve. Finally, it provides an actionable solution for effective collaboration between those responsible for articulating compliance requirements (e.g. executives, lines of business and compliance and security officers) and those responsible for the implementation of those policies (e.g. network and IT professionals).

Integration with Existing Management Systems

Intelliden Policy Based Compliance Management is designed as an open architecture application to facilitate integration with 3rd party business and operational applications, e.g. Business Intelligence, Governance, Risk and Compliance Management, Trouble Ticketing and Configuration and Change Management.

Platform and Architecture

Intelliden PBCM is a packaged software application, which operates on a variety of platforms including UNIX and Linux. PBCM is built to operate on the Intelliden R-Series® platform, which continuously maintains the real-time state of the network. It serves as an abstraction layer for the underlying network by translating the device configuration information into standardized device models. It also provides a single control plane for making any changes to the network devices in a consistent manner. Intelliden PBCM uses a relational database to store application data, compliance definitions and historical policy validation information.

Service and Support

Intelliden Professional Services Organization offers a wide range of service offering programs to ensure customer success. These are delivered through a unique combination of people, processes, tools and partners, resulting in high levels of customer satisfaction.

For more information about Intelliden products and services, visit www.intelliden.com or contact your local account representative or info@intelliden.com.

Intelliden (www.intelliden.com) is a leading provider of Intelligent Networking Solutions that enable organizations to control, manage and scale their networks. With Intelliden solutions, network-driven organizations can deliver next generation services, ensure compliance and completely automate network change and configuration management. Intelliden's innovative and patented solution is the first example of truly "intelligent automation" of networking devices. It is the only solution that gives companies the real-time state of the network—the key to ensuring accuracy across increasingly dynamic networks. Intelliden has been proven in global telecom companies, financial services organizations, federal government agencies and other network-driven businesses.

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