

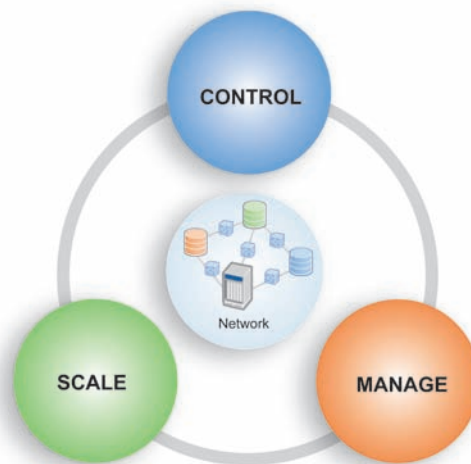
SOLUTION BRIEF

Intelliden Intelligent Networking Solutions

Whether you are a Communications Service Provider (CSP) launching a new IPTV service, a financial institution supporting distributed branch locations, or a government agency establishing a secure data center, your network is mission critical. Your business depends on the **guaranteed availability, reliability, performance** and **security** of your networks.

Purpose-built for organizations whose business depends on their networks, Intelliden's Intelligent Networking Solutions automate critical network configuration and change management tasks, ensure total network compliance and enhanced security, and provide dynamic provisioning of network resources for next generation services.

Intelliden's Intelligent Networking Solutions enable network-driven organizations to control, manage and scale their networks. Intelliden is the only solution that knows the real-time state of the network, which is key to ensuring accuracy across increasingly dynamic networks. Intelliden offers an innovative and patented solution, which is the first example of truly "intelligent automation" of networking devices.



The Intelliden Difference

- **Proven** — purpose-built for, and proven in, large, complex and dynamic IP networks
- **State Aware** — enables data (and not code) driven device changes based on real-time state
- **Flexible Architecture** — provides an integrated solution for network discovery, configuration, provisioning and compliance
- **Standards Based** — utilizes an open architecture based on industry standards for faster deployment and lower total cost of ownership
- **Intellectual Property** — more than 35 issued and pending patents

Intelliden Solutions Overview

Intelliden's Intelligent Networking Solutions consist of the following applications:

- Discovery and Reconciliation
- Network Configuration & Change Management (NCCM)
- Policy Based Compliance Management (PBCM)
- OS Manager
- Dynamic Resource Provisioning (DRP)

Intelliden's applications are built upon its patented and award winning R-Series® platform.

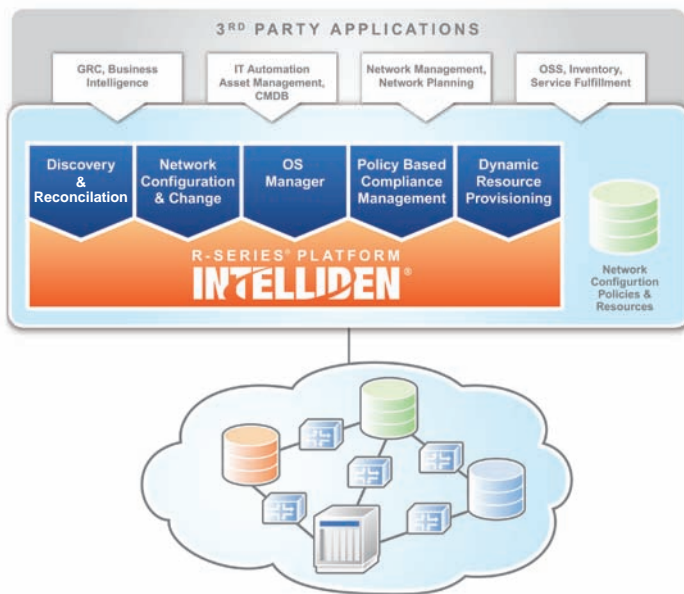


Figure 1. Intelliden Platform and Applications

R-Series® Platform

The R-Series® platform provides intelligent automation, standardization and scalable device management. It serves as an abstraction layer and a control plane through which all network devices can be configured, provisioned and changed in a policy compliant manner.

Intelliden device models are a unique and patented feature of the R-Series platform and translate device information—irrespective of the vendor, type, model and operating system (VTMOS)—into common XML based representation. Device models enable standardization of the multi-vendor network environment, ensure accuracy of changes through real-time state awareness, and provide greater scalability and repeatability through data-driven changes.

Most network facing applications make device changes on an 'anticipatory basis' i.e. based on a snapshot of a previously known network state. This can lead to inaccurate device changes and result in network outages, service degradation or policy breaches. However, Intelliden R-Series ensures that all device changes are made based on the real-time state of the device configuration, and enforces correct syntax and semantics. This capability is fundamental to implementing *accurate-first-time, every time* network changes.

Through its distributed architecture, R-Series provides unparalleled scalability options as well as support for global deployments with stringent redundancy and resiliency requirements.

Intelliden Discovery and Reconciliation

Intelliden's Discovery and Reconciliation (D&R) application provides real-time and continuous reconciliation of network resource data. It improves inventory accuracy through real-time detection of network changes and rapid remediation of those changes with third party systems such as Inventory, Fault Management and CMDB.

Key Features

- Scans the defined IP addresses and discovers devices and related information (e.g. chassis, memory, cards, port, serial number, OS, etc.)
- Produces a comprehensive device inventory report for network audit and synchronization
- Presents device information in a normalized format via an industry standard compliant interface
- Handles hundreds of thousands of devices and can scale up with device and change volume
- Monitors and alerts OSS applications in real time of any device changes

Intelliden Network Configuration and Change Management

Intelliden's Network Configuration and Change Management (NCCM) application is designed specifically for dynamic, complex and heterogeneous network environments, and automates time-consuming device configuration and change management tasks.

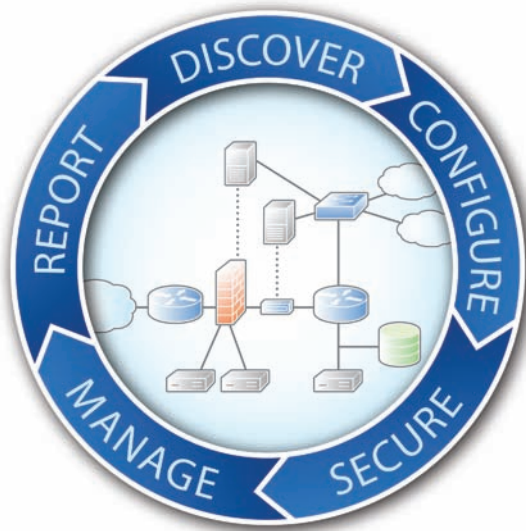


Figure 2. Intelliden Network Configuration and Change Management



Figure 3. Intelliden Policy Based Compliance Management

Key Features

- Enables accurate and rapid configuration changes through data-driven programmable templates and based on real-time device state
- Provides full and partial back-up and restore of device configurations
- Supports out of band detection and management of changes, and non disruptive rollback
- Provides comprehensive change management capabilities with multi-level approvals
- Maintains complete historical audit trail of all network changes
- Provides out-of-the-box and customizable reports

Policy Based Compliance Management

Intelliden's Policy Based Compliance Management (PBCM) 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. PBCM provides an effective way for IT and network staff to gain greater control of their network resources in dynamic and complex environments.

Key Features

- Supports entire compliance lifecycle in a closed loop manner
- Provides comprehensive support for regulatory, industry, security and operational policies
- Enables rapid creation of policies through an intuitive, easy to use interface
- Continuously validates and enforces policies through a powerful engine
- Resolves out-of-compliance conditions in an intelligent manner
- Provides audit reports for technical and business audiences
- Offers unparalleled scalability with support for more than 1 million validations per hour
- Provides out of the box policies, e.g. NSA router guidelines and operational policies

Intelliden OS Manager

Intelliden's OS Manager application is designed specifically to help customers with the laborious and error prone process of handling upgrades to the OS running on a network device.

Key Features

- Performs automated upgrade process based on available device resources and versions
- Enables users to specify and customize the OS upgrade process according to their business needs, best practices or internal policies
- Applies device configurations automatically after the upgrade
- Keeps track of all the OS changes to the devices for reporting
- Supports multiple upgrade protocols

Key Features

- Supports multi-vendor activation of code, edge, access and CPE devices
- Enables data driven allocation of IP network resources based on real-time state
- Provides provisioning templates for definition of repetitive provisioning changes
- Ensures resiliency during failovers for exception handling
- Maintains complete audit trail of all activation requests and changes
- Provides standards-based interfaces for easy integration to third party applications

Intelliden Dynamic Resource Provisioning (DRP)

Intelliden's Dynamic Resource Provisioning (DRP) application supports the complete network provisioning process including initial network element and path configuration, resource availability checks, on-going dynamic allocation of resources and exception handling. This highly scalable application is designed to work with third party Service Fulfillment applications and workflow engines.

Intelliden Benefits

Intelliden's unique approach to network device management offers customers distinct and significant advantages.

- Delivers maximum network reliability, scalability and automation
- Lowers network OPEX, supports faster deployment of revenue enhancing services and maximizes compliance audit readiness
- Offers a proven solution for large, complex, dynamic network-driven environments

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.

For further information, please contact:

Americas Inquiries

Intelliden, Inc.

535 Middlefield Rd., Suite 120, Menlo Park, CA 94025

Tel: +1 888 906 0660 or +1 719 785 0660

info@intelliden.com

Europe, Middle East, Africa Inquiries

Intelliden Limited

Siena Court, The Broadway

Maidenhead, Berkshire SL6 1NJ, United Kingdom

Tel: +44 (0) 01628 509025, info@intelliden.com

Asia-Pacific Inquiries

Intelliden, Inc.

7F CJ Building, 2-7-4 Nishi-shimbashi, Minato-ku,

Tokyo 105-0003, Japan

Tel: +81 (0)3 5579 9290, info@intelliden.com