

## Intelliden OS Manager Datasheet

### Challenges

Every network management organization is familiar with the needs and risks of managing multiple device OS software versions in their network. Regular OS upgrades are necessary for taking advantage of the latest device feature sets as well as for fixing occasional security vulnerabilities and software bugs. On the other hand, device software upgrade can be time consuming and can cause network performance degradation or at worst, outages, if not executed correctly.

The OS complexity challenge faced by today's network management organization is likely to get much worse. Network engineers are faced with the need to manage potentially hundreds of device software versions due to multiple OS types, hardware lines, release modes and feature sets often from the same vendor. These software versions need to be managed in an increasingly distributed enterprise with network silos and remote locations. Not surprisingly, device software management can be laborious especially under the backdrop of shortening maintenance windows and periodic regulatory mandates which require that devices have the latest security patches installed on them. The software upgrade process itself is far from straight forward and varies by device vendor, type and OS.

### Intelliden OS Manager

**The Intelliden OS Manager application provides flexible, reliable and automated management of operating system (OS) software in a multi-vendor network.** Designed to provide a holistic view of network devices and associated software versions in a unified repository, Intelliden OS Manager can support hundreds of thousands of devices across multiple vendors, types and models.

### Key Features

- Holistic view of network devices and associated software versions
- Unified repository with valid OS images and upgrade requirements
- Reliable upgrades with high degree of consistency and accuracy
- Configurable process to support best practices and vendor requirements
- Support for role based access control and secure data transfer protocols
- Comprehensive audit tracking of all OS changes and transactions
- Support for multiple device vendors and types including Cisco and Juniper
- Highly scalable architecture

In combination with Intelliden's Policy Based Compliance Management application, OS Manager enables network engineering to monitor all OS versions in use across the network, flag devices with software versions that do not meet corporate policies, and upgrade those devices to bring them back into compliance.

### Key Benefits

Intelliden OS Manager provides a number of important benefits:

- Increases network reliability by ensuring that devices have accurate and up-to-date software versions
- Frees up valuable network engineering time by automating otherwise time-consuming manual upgrade process for hundreds of thousands of heterogeneous devices across multiple locations
- Improves operational efficiency by reducing upgrade time from days to minutes
- Ensures that network devices meet security policies for necessary OS software versions
- Eliminates network silos by providing a holistic, unified view of device OS versions

## Platform and Architecture

Intelliden OS Manager is a packaged application, which operates on a variety of server platforms including Red Hat® Enterprise Linux® and Sun® Solaris®. It also requires Oracle® relational database to be installed for persistent data storage. Finally Intelliden OS Manager is built to operate upon the Intelliden R-Series® platform, which continuously maintains the real-time physical and logical state of the network.

## Detailed Capabilities

<b>Holistic view of network devices</b>	Provides a holistic view of all devices and associated software versions across multiple domains, locations and customers
<b>Unified OS repository</b>	Maintains a repository of available OS images for network devices, associated storage and memory requirements, and boot parameters. Provides the ability to specify OS images as valid upgrade candidates.
<b>Reliable and consistent upgrades</b>	Validates that OS upgrade path is valid, checks available device memory and storage, and automatically back-ups configurations prior to upgrade. Can reboot devices with new OS Image and import configurations into Intelliden R-Series®. Links device to relevant Intelliden SmartModels™ device drivers in R-Series for easy configuration of new features.
<b>Configurable process with support for device specific variations</b>	Can schedule upgrades to occur immediately or in future e.g. during a maintenance window. Provides the ability to configure upgrade process to align with organizational best practices and requirements e.g. approvals. Supports device specific variations e.g. copy configuration and VLAN.dat files from Cisco CatOS® before erasing flash, and replace files prior to copying new image.
<b>Secure upgrades</b>	Ensures that only approved users can access specific devices and perform upgrades through role based access control. Supports secure data protocols (e.g. SCP, SSH or SFTP) for image transfer.
<b>Audit tracking</b>	Tracks all changes and transactions executed during the OS upgrade process.
<b>Multi-vendor device support</b>	Supports operating systems from multiple device vendors including Cisco (IOS®, CatOS®) and Juniper (JUNOS®). Can quickly support new devices in the field.
<b>Highly scalable architecture</b>	Supports upgrade of hundreds of thousands of devices in a dynamic network environment.

## About Intelliden

Intelliden ([www.intelliden.com](http://www.intelliden.com)) is a leading provider of Intelligent **Network Automation Solutions** that enable organizations to control, manage and scale their networks. With Intelliden, network-driven organizations can enforce granular access control and security, automate configuration changes, ensure network compliance, accurately provision devices and provide a normalized view of network resources, irrespective of vendor, type, model or operating system. Intelliden's innovative and patented platform acts as the **Trusted Source of Network Truth™** by providing the real-time state of the network – the key to ensuring accuracy across increasingly dynamic networks. It is the industry's most scalable and open solution, and has been proven in service providers, financial services organizations, government agencies and other businesses dependent on their networks.

## Contact information

For more information about Intelliden products and services, visit [www.intelliden.com](http://www.intelliden.com) or email [info@intelliden.com](mailto:info@intelliden.com).