



Platform Specifications – Version 1.0

The number of connected devices is growing exponentially. OEMs and service providers are realizing that the management and maintenance of these devices is becoming increasingly complex and expensive.

DeviceMaestro™ is a standards-based, scalable, and flexible Device Management software platform that helps customers centrally, securely and proactively track, diagnose and manage geographically dispersed devices over a LAN/WAN/Internet, and provides valuable business insights. The DeviceMaestro platform needs customization for the deployment of a Device Management solution and can be tailored to suit any device category/parameter.

Thinstream's DeviceMaestro offers quick and easy adaptability to different device environments, customization, faster go-to-market and increased efficiency for OEMs, service providers, systems integrators and solution architects across various industries.

Client-Server Platform

- Versatile, scalable client-server based architecture
- Server component works with embedded client component or proxy software that manages devices over existing standard/proprietary protocols
- Well-defined interfaces for development of custom Device Management solution

Standards-Based Architecture

- Compliant with the following industry standards:
 - TR-069 – a Customer Premise Equipment (CPE) WAN Management Protocol (CWMP) for communication between a CPE and an Auto-Configuration Server (ACS)
 - SNMP – an industry-standard monitoring and control protocol for network/device management on IP networks
 - HTTP – a standard networking protocol for communication between devices
 - SOAP – an XML-based protocol for exchange of information in a decentralized distributed environment
- Offers independence from device type/manufacturer, ease of extension, superior interoperability and flexible communication protocol support

Highly Scalable

- Ability to plug-in device with pre-installed client software pointing to preferred ACS or installing client software and configuring pointer to the ACS
- Local or global deployment of devices within a premise or across geographies

Connectivity Options

- Supports devices connected over Ethernet and Wi-Fi™ across a LAN/WAN, the intranet/Internet
- Client is portable to any device including those with limited CPU and memory capacity

Secure Communication

- Encrypted communication over secure SSL connection between the ACS and the device
- Supports HTTPS connectivity
- Firewall friendly – meets stringent enterprise network security norms for devices behind firewalls

Easy Device Configuration

- Easy remote configuration through metadata driven profiles, templates and workflows
- Flexible grouping of devices and other elements for intuitive, efficient deployments

Superior Monitoring, Diagnosis

- Uses alerts, trends and events to proactively monitor all configured devices
- Heartbeat system continuously monitors device status and network connectivity
- Zero-touch management – remote isolation and fixing of device issues, upgrades and installation of patches
- Ability to define rules, thresholds to monitor device performance



Flexible Customization, Integration

- Platform requires customization for deployment of a Device Management solution
- Device Management plug-ins for quick, easily customization of ACS and client
- Custom developed user interface with user-friendly dashboards, reports, graphs and widgets to suit specific requirements and device parameters
- Ability to support various devices/models from different manufacturers across multiple industries
- Data model offers flexibility to define parameters to be managed, presenting uniform view to the ACS
- Well-defined, Web Services interfaces for easy extension, integration with existing business systems

Comprehensive Support

- Software updates to DeviceMaestro platform for bug fixes and feature enhancements
- Technical support for DeviceMaestro platform issues
- Professional services for customization, integration, maintenance and enhancement of specific DeviceMaestro-based Device Management solution

System Requirements

- **Server Configuration:**
 - Hardware with minimum configuration of Intel® Pentium® 4 processor 2.7GHz. (or equivalent), 2GB RAM and 40 GB HDD
 - Operating Systems (any of the following):
 - Windows Server® 2008 (32/64 bit)
 - Windows Server 2003 (32/64 bit)
 - Windows 7 (Professional/Ultimate)
 - Windows Vista® (Business/Ultimate)
 - Windows® XP Professional
 - Virtual PC (based on one of the above)
 - Java® Run-time Environment (JRE) latest version
 - Proxy Server
- **Client Configuration :**
 - Operating Systems (any of the following):
 - Windows Server 2008 (32/64 bit)
 - Windows Server 2003 (32/64 bit)
 - Windows 7 (Professional/Ultimate)
 - Windows Vista (Business/Ultimate)
 - Windows XP Professional
 - Virtual PC (based on one of the above)
 - Ubuntu® Linux 9.10 and above

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