AL Wireless

NETWORK MANAGEMENT SYSTEM

October 2016

Overview

Product

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AL Wireless NMS (Network Management System)

AL Wireless NMS is a new turn-key Network Management System for simply managing radio link networks from a centralized location.

NMS contains Special Industrial PC with dedicated Software developed by AL Wireless.

Clients can manage and monitor large networks comprised of ALCOMA RF links, as well as 3rd party SNMP-based devices in the network (switches, routers, multiplexers, etc.).

AL Wireless NMS (Network Management System)

HIGHLIGHTS

1 Unified & Centralized Monitoring

monitor converged networks (microwave, copper, fiber-optic), and provides geographical and logical map view

2 Redundancy & Scalability

supports failover and replication, easy scaling from single dedicated Industrial PC to large distributed system

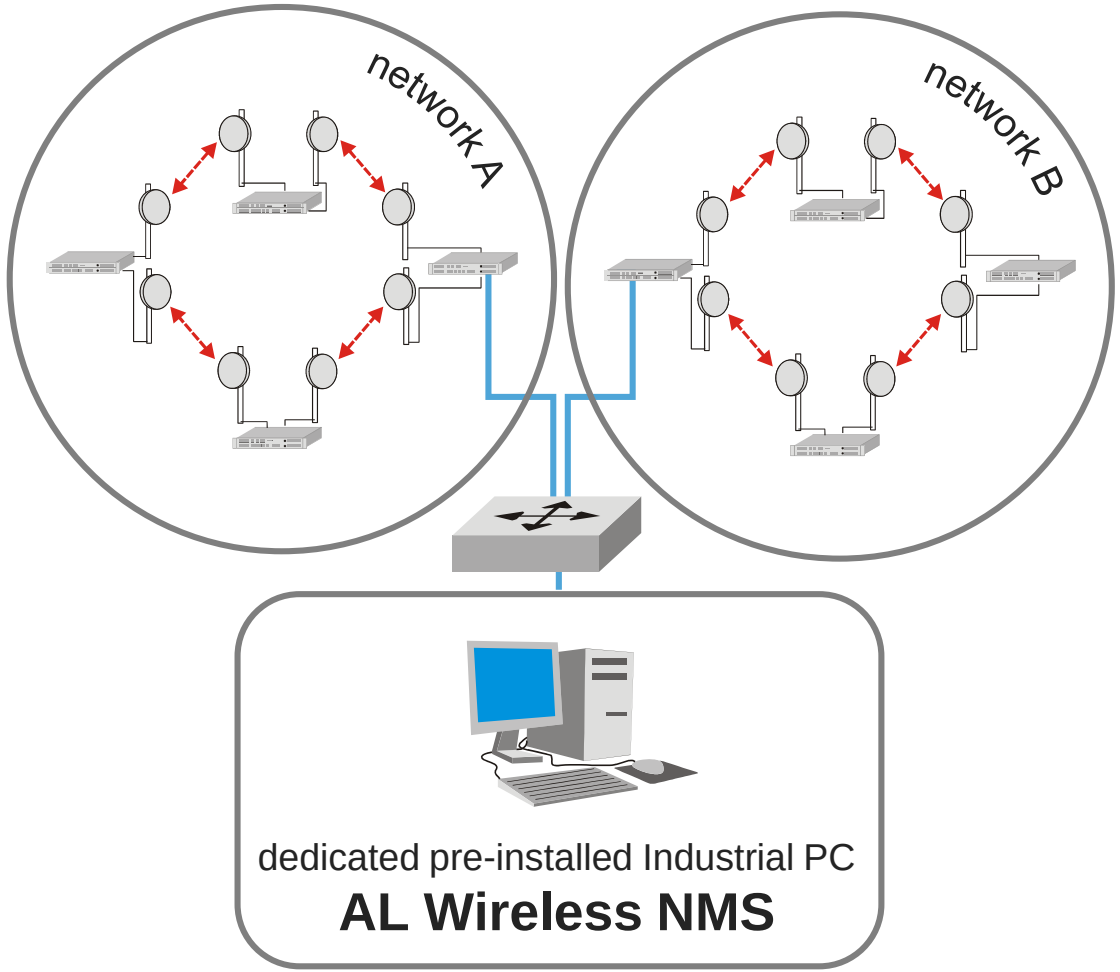
3 ALCOMA and 3rd Party Device Management

manages all connected devices such as switches, routers multiplexers and power supplies

AL Wireless NMS (Network Management System)

Key Benefits – Turn-Key Solution

- →Unified solution – lower equipment costs
- →Easy system deployment and connectivity
- →Reduces implementation processes
- →Guaranteed suitability of the dedicated Industrial PC – less malfunctions
- →High-end tested performance
- →Redundant and reliable solution
- →Supports 3rd party devices – reduces the need for additional infrastructure
- →Specially designed for RF links
- →Simple and user friendly interface



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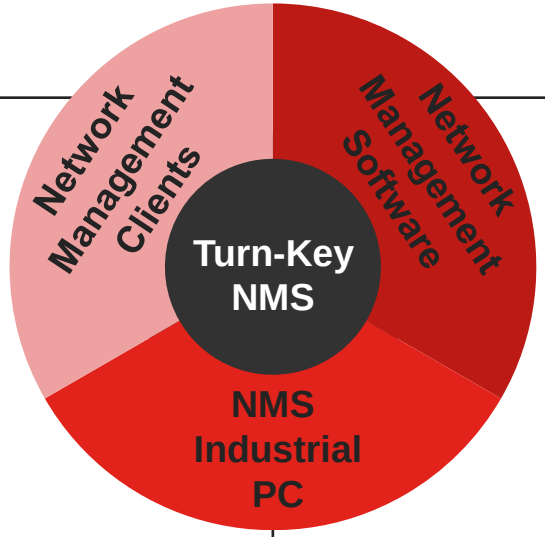
System Architecture

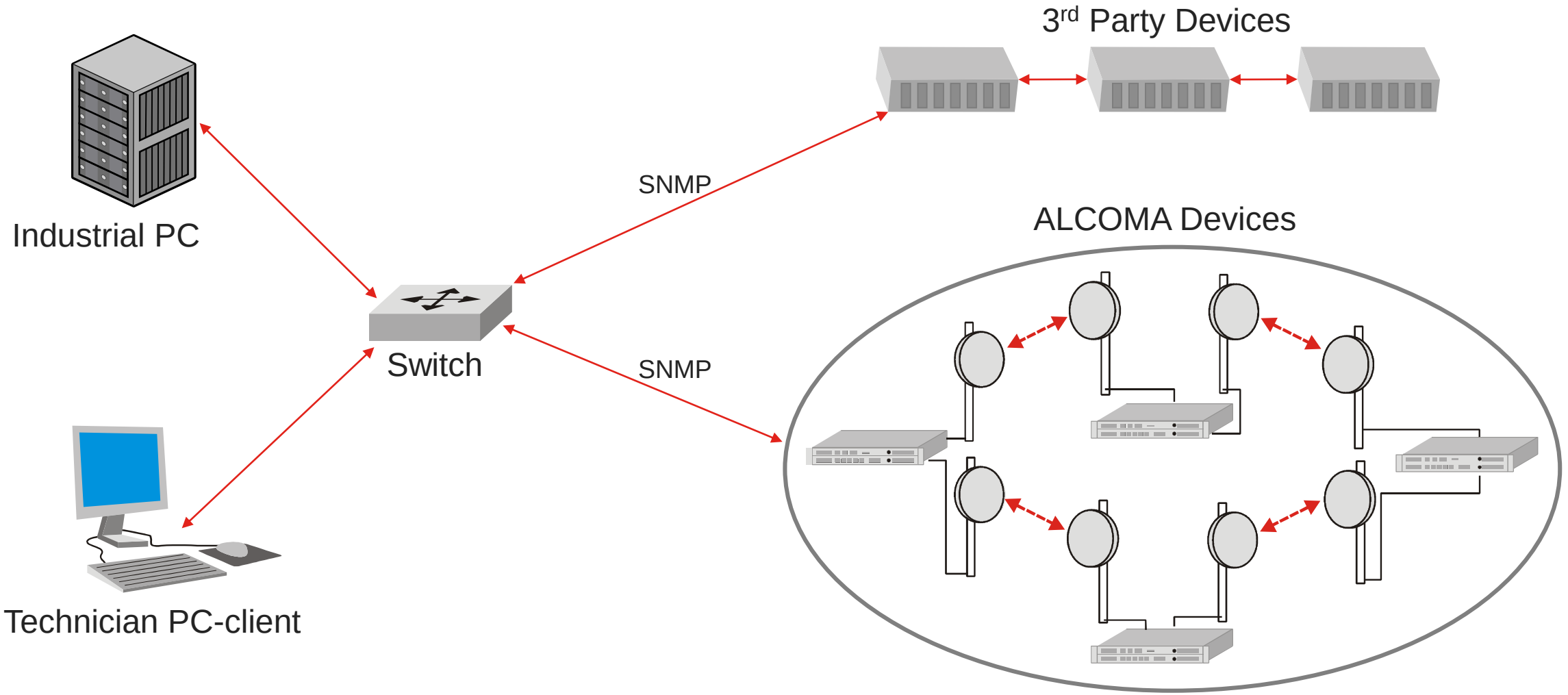


- Ready-to-use PCs for technicians
- Web application for monitoring and management
- Compatible with mobile devices
- Integrated with the Industrial PC

- Pre-installed hardware suited for the NMS software
- Lowers costs and eliminates procurement needs
- Redundant power supplies
- Failover mechanism
- Efficient and scalable
- Rack mounted

- Client-Server architecture
- SNMP-based server
- SQL Database
- Split virtual servers for scalability and reliability
- Modular software functions

System Deployment



System Features

- Full FCAPS Support
- SNMP Support (including SNMP traps)
- Telnet, SSH and CLI Support
- Geographical and topology map of the network devices
- Simple deployment and connectivity via Ethernet
- Support for 3rd party devices
- Automatic alarms and notifications
- Intuitive user interface and system control
- User access levels and security

NMS Functions

Device Searcher & Manager

- Automatic discovery of network devices
- Pre-define the configurations for the devices

Support for 3rd Party Devices

- Possibility to integrate 3rd party MIBs
- Personalized and independent configuration of rules and automations

Maps View

- Geographical and topology map of the network
- Monitoring and management of all devices via the relevant map
- Easily add quick-action buttons and graphs

NMS Functions

Alarms and Notifications

- Automated alarms and notifications display
- Accessible logs and history of outputs and actions
- Active notifications enabled by SNMP traps

Trends & Stats

- Displays statistics and changes to the device information
- Different visualization options
- Comparison of data, including function approximation

Remote Monitoring

- Network supervisors and technicians can manage and monitor the network via the PC-client
- Notifications can be received via web application (compatible with mobile), email, text message

NMS Service

We provide services to our clients using the AL Wireless NMS. These include support during network deployment and network optimization, and better long-term support and technical assistance.

The long-term support to clients and their networks includes advanced troubleshooting and is performed by analysing the issue and relevant data supplied by the client using the AL Wireless NMS.

AL Wireless a.s.
Sokolská 1605/66, Nové Město
120 00 Praha 2
Czech Republic

phone: +420 228 226 500
e-mail: info@al-wireless.com
web: www.al-wireless.com