

## Overview

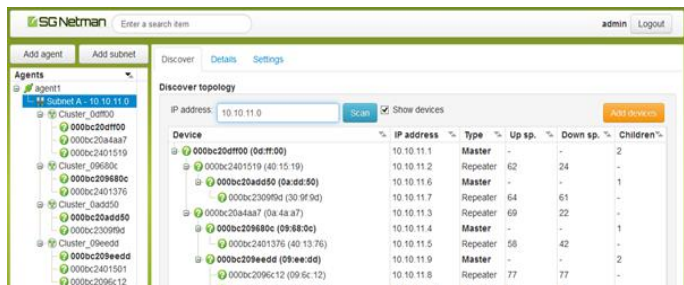
Corinex SG Netman provides operators with network management capabilities for their BPL network by giving them access to Corinex BPL devices via a unified and secure user interface. Through SG Netman, operators can administer all networked Corinex BPL devices on existing BPL networks, along with all network elements such as Corinex MV gateways and repeaters via SNMP (Simple Network Management Protocol) interface as provided through Corinex BPL devices.

## Agent Management and Configuration

SG Netman allows configuration and management of all BPL network structures, creating and associating new agents, and creating, managing and monitoring BPL subnets and clusters. It provides access to the network management information stored in the database for a large number of user clients.

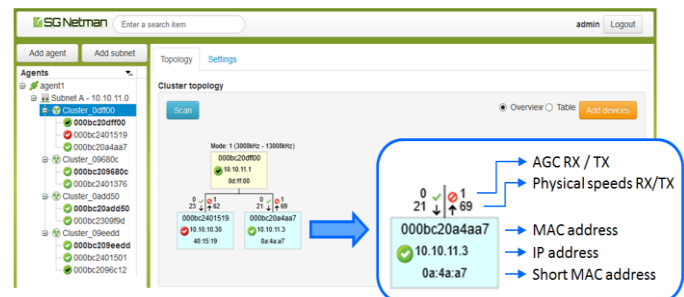
## Topology Management

SG Netman automates many of the day-to-day network operation tasks, such as subnet scanning, device discovery and addition (using single or multiple device import from scans), master device selection for each subnet in the network topology, and monitoring of operations on the BPL network.



## Configuration and Monitoring

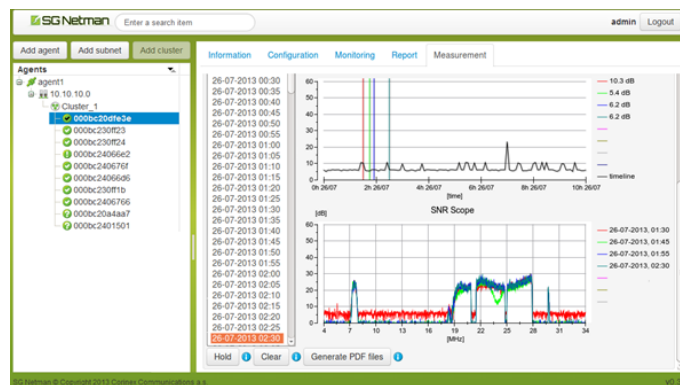
Basic or advanced information and connection statistics for any particular device can be retrieved on demand—the name, IP address, device MAC address, and all BPL configuration parameters can be set. SG Netman stores configuration parameters to the database and displays the status of selected devices within a straightforward graphical user interface—with multiple view modes and formats such as tables—using coloured icons to convey device state.



## Reports and Measurements

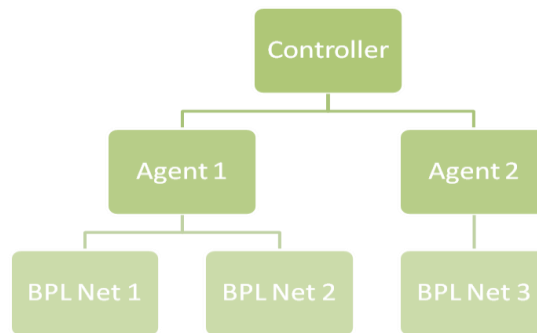
SG Netman provides operators with various and robust reporting functions to monitor the critical operational parameters and overall health of the network, and can be set to automatically diagnose any device. Vital statistics and metrics for gauging PLC link quality are automatically collected from all devices, allowing for efficient network oversight.

The software allows for fine-grained analytics and selective data filtering, such that operators can specify various metrics to monitor and the information is intelligently collated into reports tables that are tailored to the operator's specific information requirements regarding network state. Multiple measurements can be aggregated and displayed in a single line graph for ease of comparison.



## Architecture

The SG Netman architecture is mainly focused on simple scalability of the network. The software operates as a centralized system, with one controller and multiple agents, in order to deploy and manage complex BPL topologies.



The controller is responsible for user interactions, settings, configuration changes, and management of agents. An Administrator web client running from any computer can provide authenticated and secure access to all configuration, management and monitoring functions. Communication between users and the controller is based on web services via HTTPS.

Each agent functions autonomously to manage its respective network(s), scheduling jobs and reporting events to the controller. Communication between agents and the controller is implemented with the TCP protocol secured with SSL transport security.

Agents manage BPL networks via standard SNMP protocol through Ethernet interface, using TCP/IP stack.

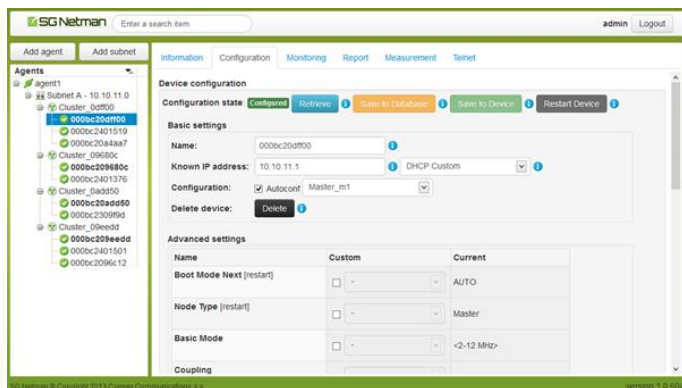
## Features Summary

### Controller

- Provides universal interface for database access
- Maintains agent entities and operations
- Maintains inventory of configured devices, subnets, etc.
- Provides user interface for configuration
- Manages connected agents and creates new agent instances

### Agent

- Responsible for configuring and maintaining services
- Maintains inventory of devices in BPL network
- Dispatches tasks to specified monitored devices to gather measurements and generate scheduled reports
- Generate logs and collect data



## Why SG Netman?

Corinex SG Netman enables operators to easily manage and monitor BPL networks, while facilitating network installation, upgrades, and configuration. By automating a number of complex, tedious tasks prone to human error, SG Netman maximizes operational efficiency. By providing proactive diagnostics, SG Netman minimizes service deployment times, and thus reduces deployment and maintenance costs.

SG Netman is easily the most comprehensive and powerful BPL network deployment and management software available today. Its rich suite of features was developed based on Corinex's years of experience in BPL product development and network deployment. Our keen foresight on industry trends informed our decision-making on which communication standards, protocols, and technologies to incorporate into our system, thus ensuring its usability, compatibility, and adaptability in the face of future developments.

## System Requirements

### Server

<i>Minimum Processor:</i>	Dual Core 2.0 GHz
<i>Recommended Processor:</i>	Quad Core 2.4 GHz
<i>Minimum RAM:</i>	2 GB
<i>Recommended RAM:</i>	4 GB
<i>Operating System:</i>	Linux Ubuntu 13.4, 32 bit

### Client

<i>Recommended Processor:</i>	2.0 GHz or faster
<i>Recommended RAM:</i>	1.0 GB or greater
<i>Operating System:</i>	Any Operating System
<i>Recommended web browser:</i>	Firefox

## Supported Corinex BPL Hardware

Corinex Enterprise Series Product Line, including:

- Corinex MV Gateways (all models)
- Corinex HD/LV Gateways (all models)
- Corinex HD200 Enterprise adapters

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