



Best Software tools for Operational Support "OSS" and back office for cable operators & ISP

Promo : Provisioning & Monitoring software

TECHNICAL HIGHLIGHTS

The ProMo management tools feature a full range of capabilities :

Subscriber Management

An intuitive tool to access and manage your subscribers DB

- MySQL Database connection
- User authentication and session management
- OSS users privileges
- Dynamic page flow control and variables management

Provisioning

Right Operational tools for dynamic provisioning of DOCSIS cable modems and packet Cable MTA devices

- Subscriber Provisioning IPv4, IPv6
- QoS Management module provides cable operators comprehensive control over various bandwidth assignments. It permits choosing from several QoS profiles for each subscriber.
- DOCSIS 3.0/2.0/1.1 Configuration File building
- Complete DOCSIS services range DHCP/TFTP/TOD/Syslog/SNMP

Monitoring

A set of integrated tools for interactive cable network monitoring, diagnostic and customer support

- Spectrum view
- RF parameters, MAC parameters surveillance
- Network usage monitoring
- Customer view
- Monthly and daily bandwidth usage via IPDR
- Alarm view
- MRTG

Reporting & Dash Board

At a glance displays :

- System information
- CMTS RF parameters
- CM RF Parameters
- Traffic

Firmware Maintenance

A network management tool that specially supports real time CM firmware upgrade

- On site installation support
- Modem software



What is ProMo?

The "ProMo" Provisioning & Monitoring software is a powerful and reliable system management solution that integrates all functions needed to operators to easily manage standard DOCSIS systems. It is perfectly suited for all SNMP products.

"ProMo" server is flexible and modular. It can simultaneously manage multiple CMTS, several thousands of cable modems, and unlimited number of subscriber records.

It can also be licensed for small systems having 1 to 5 CMTS and a maximum of 2000 cable modems in a basic package. It is "ProBmo": Full Provisioning and Basic Monitoring.

"ProBmo" leads to a highly adaptable, cost-effective solution that can accommodate current and future cable operator needs.

"ProMo" server is based on the latest Linux Debian OS, MySQL databases and an easy-to-use web application that excels in performance and flexibility.

"ProMo" management tools and software components feature a full range of capabilities including : subscriber management, provisioning, monitoring, firmware maintenance and reporting.

IPv4/IPv6 Provisioning for DOCSIS Systems

"ProMo" provisioning software reduces the costs and time-to market for triple-play or quad-play deployment.

Several provisioning modes are supported by "ProMo" software:

• Semi Automatic Provisioning mode

This service is useful to minimize the operator's effort in responding to personalized service requests.

This mode allows the subscriber modem to be connected to the network using a temporary IP address and limited contract, and then allows the subscriber to be redirected to a WEB site where he can fill its service request.

Once the billing data and required QoS are approved by the operator, the right contract is associated with subscriber modem.

• Standard Provisioning mode

To fulfill provisioning, the broadband provider must assign an IP address and a configuration file to the modem, and an IP address and a DNS server to the CPE device.

"ProMo" software provides, by its original concept, a very effective and fast provisioning method in 3 steps :

1. First, the broadband provider defines different service classes able to provide to their customers as a "commercial contract".
2. In second step, the DHCP server will be configured as required by the IP architecture of CM, CPE and EMTA subnet and pools.
3. The third step is creating the subscriber. The "ProMo" provisioning function allows, on one screen, to create the subscriber data record with the necessary associations of the subscriber modem and service contract.

• EMTA & SIP device provisioning

SIP-based MTAs and MTAs playing a CPE role need some special vendor specific information and learn the configuration file name through DHCP server.

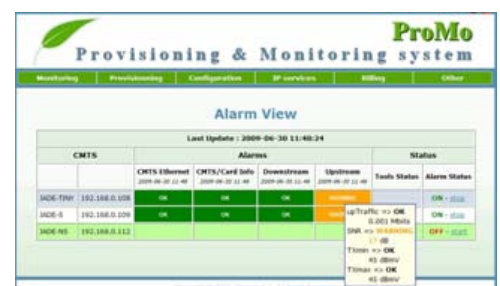
"ProMo" software allows the creation of the MTA pools and associates the EMTA configuration files with related information.

Real-Time Network Monitoring Software for DOCSIS Systems

The network monitoring functions of "ProMo" are based on MIB data polling robot. It offers a graphical and interactive interface to provide network alarms and statistics accessible from anywhere in the network.

It collects vital network statistics on key protocol attributes from the network using the SNMP standard, and presents them through standard WEB browsers such as Netscape Navigator, running on any operator workstation.

The browser interface eliminates the need for dedicated workstations and allows multiple operators to be logged in at different network locations.





EasyBill Damery Billing Software for back office

EasyBill Capabilities

The EasyBill tools and software components feature a full range of capabilities including :

Third Parties Management

An intuitive tool allowing to enter and manage all kind of information related to your customers, suppliers, prospects, with the possibility of sub classifications as :

- Size
- Form of the company
- Other parameters to define

Product and Services Management

Manage all tasks related to the products and services provisioning and selling :

- New Product creation
- New Service creation

List of products and services

- Statistics on product and services
- Stock management
- Shipments

Commercial operations

Management of all commercial tasks as incoming and outgoing orders, contracts, proposals :

- Commercial proposal
- Customer's orders
- Supplier's orders
- Contracts

Financial operations

Management of all financial operations needed in the frame of a small or middle sized companies :

- Supplier's Invoices
- Customer's Invoices
- Supplier's deliveries
- Promised/Received donations
- Salaries
- Social contributions
- VAT payments

Bank and cash operations

EasyBill software allows the management of all financial operations related to the banks in the frame of a small or middle sized companies :

- Bank / Cash
- Check deposits
- Standing orders
- Bank accounts
- Third parties

Point of sales operations

EasyBill software allows the management of all operations needed in the point of sales.

HRM, Agenda & Tools

EasyBill software allows in addition the operations on HRM and has many useful tools.

Thanks to *EasyBill*, you have your company status of in one glance



What is EasyBill?

EasyBill is a very user friendly, open and modular software, integrating all functions needed to manage the billing aspects of different players in the world of small and middle sized companies, selling products and services.

It collects vital statistics on key functions, and presents them through standard WEB browsers such as Netscape Navigator, running on any operator workstation.

The browser interface eliminates the need for dedicated workstations and allows multiple operators to be logged in at different network locations.

Link to ProMo for Internet Services Billing

The software can be linked with the "ProMo" provisioning and monitoring software in order to share the Internet services data bases. This feature allows usage based billing of the Internet services.

The software can manage unlimited number of customer records stored in the database and can be used in remote connection by more than 10 users.

EasyBill runs on the Linux platform. It is a WEB application based on MySQL data bases.

At a glance displays

A single screen presents easily understood browsers and graphs that provide an instant snapshot of the company's status.

From any browser, you have instant access to real-time status of your companies and progress of different scheduled events.

EasyBill uses bar graphs, dials and other easy-to-read displays to simplify operation.

It offers a graphical interactive interface for acquisition and presentation of the data.



*Perfectly suited for all small and middle sized cable companies and ISP, **EasyBill** is a cost-effective, WEB-based application that excels in performance and flexibility.*

*The **EasyBill** presentation area includes the synthesis of all main functions in order to show you in a glance the status of your company.*

- Statistics on the number of products, services, number of supplier invoices, customer invoices, members ...
- Work tasks board
- Last modified suppliers, customers, products, services, invoices, contacts
- By month graphs for proposals, supplier invoices, customer invoices
- Opened account's balances, oldest unpaid invoices, product stock alerts
- Accounting simple accounting reports (journals, turnover) based onto database content
- Invoices and credit note management for customers, for suppliers
- Standing orders and withdrawal management
- Members Foundation members management
- Management of employees' salaries and payments
- Project management inside other modules
- Open poll module to make online polls (like Doodle, Studs, Rdv, ...)
- Multi-modules tools
- Mass E-mailing management
- Data imports / exports Tools

AVAILABLE SERVICES

- Technical Support
- Installation and Setup
- Maintenance
- Application Support
- Hardware Support
- Guaranteed Warranty