

## **DAMERY special offer for Integrated Provisioning & Monitoring Server**

### **PROBMO IS A REAL DAMERY PROMOTION OF THE BEST, THE OPTIMAL, THE LESS EXPENSIVE PROVISIONING & MONITORING SOFTWARE**

The **ProBmo** is a powerful and reliable provisioning solution that integrates all functions needed to operators to easily manage industry-standard DOCSIS systems. Perfectly suited for **all brand of CMTS** products, **ProBmo** is a low-cost, web-based application that excels in performance and flexibility.

The **ProBmo** server unit can simultaneously manage multiple CMTSs and thousands of cable modems. All subscribers' records are stored in databases.

This leads to a highly adaptable, cost-effective solution to stack several DOCSIS CMTSs.

Using the **ProBmo** server and two Jade CMTS units allows you to create a configuration 2DS/2US for the application requiring 80Mbps DS and 20Mbps upstream real bandwidth.

Using **ProBmo** server and 2 Opal CMTS units it is possible to create a configuration 2DS/4US/8US for the application requiring 80Mbps full duplex real bandwidth.

The **ProBmo** server implements client-server architecture. It is based on the last Linux version and an easy-to-use web application. It provides to cable operators, using a standard WEB browser, the possibility to access cable modems and CMTS units

The browser interface eliminates the need for dedicated workstations

#### **ProBmo Capabilities**

The **ProBmo** server and software offer a full range of capabilities including:

- **Web application environment :**
  - Database connection (MySQL, Oracle)
  - User privileges
  - Dynamic page flow control and variables management
- **Compatible with any DOCSIS CMTS brand**

**ProBmo** provides full control for any CMTS brand in addition to Damery entire family of CMTS (JADE, OPAL, CORAL)

- **Full function integrated in a light small, low cost 1U unit.**



- **Complete DOCSIS servers range :**
  - DHCP , TOD, TFTP serves
  - SYSLOG server
  - SNMPTRAP server, SNMP Manager
  - MRTG Manager
- **Full Provisioning tools for cable operators business support:**
  - Subscriber Provisioning
  - QoS = Contract Management: **ProBmo** provides cable operators a comprehensive control over various bandwidth assignments. It permits choosing from several QoS profiles for each business or residential subscriber.
  - Configuration File Builder
  - Onsite installation support
- **Basic Network Monitoring system**
  - Network usage monitoring, MRTG
  - Customer view
  - IP Events
- **Complete service and support**

#### **DAMERY CONTACT INFO**

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## Provisioning & Real-Time Basic Network Monitoring

### Provisioning :

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

ProBmo software provides by its original concept a very effective and fast provisioning method in 3 steps.

First the broadband provider defines different types of commercial contract using different service classes.

Then the IP architecture defining the subnet for cable modems, CPE and EMTA has to be configured once a time using DHCP configuration tools.

Finally, the subscriber has to be created.

ProBmo provisioning function allows on one screen to create the subscriber data record with the necessary associations of the subscriber modem and service contract.

Finalise the operation by a demand of DHCP file generation.

### EMTA & SIP device provisioning

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

ProBmo software allows to create the MTA pools with related information.

### Service Panel

ProBmo software provides an elegant way to start and stop for the different services.

### Basic Monitoring

#### Customer View

ProBmo has a customer status browser presenting all the necessary information concerning your customers and the modem status

Very extended research possibilities are included for the customer view services



ISP	Last name	Mac address	IP address	CM status	CMTS	Contract	Nrtg	Graph
DAPHNE	Jackson	00:02:84:FD:00:84	192.168.0.200		JADE-S	noAccess_1	ON/OFF	View reboot
DAPHNE	D'Haze	00:02:84:FD:01:85	192.168.0.203		JADE-S	noAccess_1	ON/OFF	View reboot
DAPHNE	Baneton	00:02:84:FD:01:82	192.168.0.212		JADE-S	noAccess_1	ON/OFF	View reboot
DAPHNE	cp3	00:02:84:FD:08:8F	192.168.0.202		JADE-TWY	default	ON/OFF	View reboot
DAPHNE	Makengreau	00:02:84:FD:20:68	192.168.0.203	registrationComplete	JADE-S	month_1	ON/OFF	View reboot
DAPHNE	Ayral	00:02:84:FD:20:77	192.168.0.207	registrationComplete	JADE-S	default	ON/OFF	View reboot
DAPHNE	Muscato	00:02:84:FD:20:7D	192.168.0.206	registrationComplete	JADE-S	light	ON/OFF	View reboot
DAPHNE	Morgan	00:02:84:FD:28:8F	192.168.0.210	registrationComplete	JADE-S	default	ON/OFF	View reboot
DAPHNE	1	00:02:84:FE:00:00	0.0.0.0		JADE-S	noAccess_1	ON/OFF	reboot
DAPHNE	5	00:02:84:FE:00:00	192.168.0.150		JADE-S	noAccess_1	ON/OFF	reboot
DAPHNE	4	00:02:84:FE:00:00	192.168.0.144		JADE-S	noAccess_1	ON/OFF	reboot
DAPHNE	cp2	00:02:84:FE:00:72	192.168.0.208		JADE-S	full	ON/OFF	reboot
DAPHNE	2	00:02:84:FE:00:6A	192.168.0.209		JADE-S	noAccess_1	ON/OFF	reboot
DAPHNE	cp1	00:02:84:FE:00:08	192.168.0.200		JADE-S	full	ON/OFF	View reboot
DAPHNE	3	00:02:84:FE:00:04	192.168.0.159		JADE-S	noAccess_1	ON/OFF	reboot
DAPHNE	dema_1	00:18:9B:85:1F:08	192.168.0.205	registrationComplete	JADE-S	voll_1	ON/OFF	View reboot
DAPHNE	dema_2	00:18:9B:85:1F:06	192.168.0.204	registrationComplete	JADE-S	voll_1	ON/OFF	View reboot
DAPHNE	Jackson	00:18:9B:94:09:AA	192.168.0.210		JADE-S	noAccess_1	ON/OFF	reboot
DAPHNE	Michale	00:00:18:9F:4B:3D	10.0.0.5		JADE-S	noAccess_1	ON/OFF	reboot

### CMTS MRTG Graphs

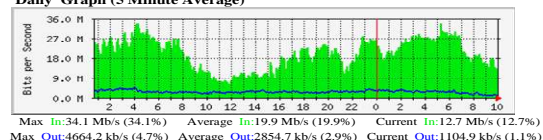
For each CMTS, the following information are presented on the MRTG graphs, with the possibility to program the polling rates and the parameters to be polled:

- Ethernet traffic
- DS traffic
- Upstream traffic
- Signal to noise ratio
- Micro reflections
- Number of cable modem Online

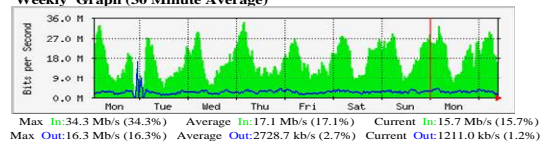
The information for each parameter can be presented yearly, monthly and daily.

The statistics were last updated Tuesday, 25 October 2011 at 10:01, at which time 'jade.daphne-sa.be' had been up for 115984400.

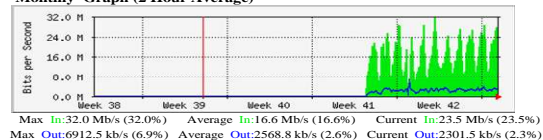
#### Daily' Graph (5 Minute Average)



#### Weekly' Graph (30 Minute Average)



#### Monthly' Graph (2 Hour Average)



### IP events

ProBmo allows the possibility to browse all IP events or selected IP events.

ProBmo allows setting ON/OFF MRTG graph for each customer individually.