

OBS_SERVER® : DATA COLLECTOR

GENERAL OVERVIEW

Obs_Server is a data collector and a Mediation Device developed and distributed by Group Audilog. Obs_Server is especially designed for the **collection of network management data** (statistics, alarms, CDRs, ...) from any kind of telecommunication equipment such as switches, routers, OMCs, VAS equipment (VMS, SMSC, Intelligent Network, ...). Obs_Server can also be used for the configuration of Network Elements (NE), or for the management of services (activation, provisioning, ...).

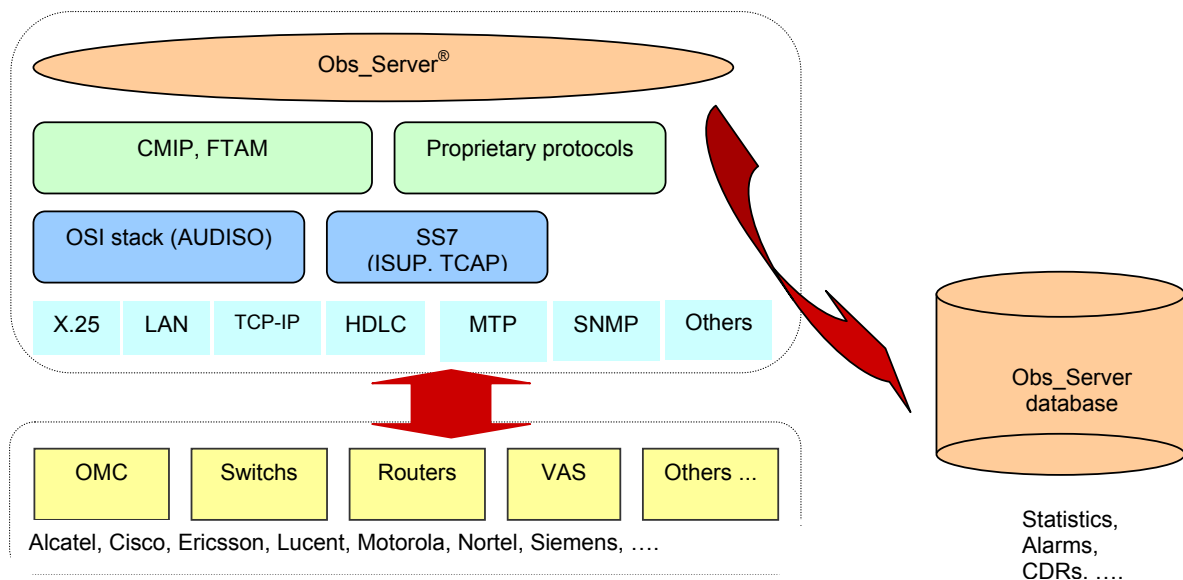
Obs_Server can support every kind of communication protocols such as **international standards** (SNMP, X25, CMIP, FTAM, ...), or **vendor specifics** (Alcatel, Ericsson, Nortel, Motorola, Siemens, ...) for the management of voice networks (fix or mobile) or data networks.

The data collection can be done according to the following mechanisms :

- initiated by Obs_Server or by a remote equipment (a file server),
- with several remote servers simultaneously,
- using different protocols simultaneously : for example using SNMP with routers, FTAM with file servers, CMIP with agents, proprietary protocols with vendors specific equipment, ...
- for different kinds of data simultaneously (statistics, CDRs, ...)

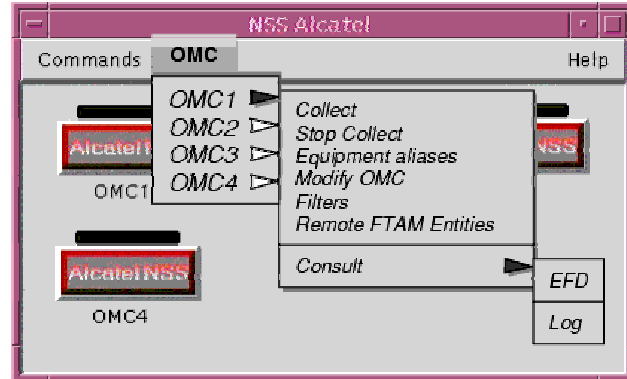
In addition to data collection mechanisms, Obs_Server can provide value added features to facilitate the data processing by the target platforms :

- **data filtering**,
- data storage,
- **periodic purge** of oldest data,
- aggregations (for example on CDRs),
- binary / ASCII **transcoding**,
- **ASN.1** decoding, ...



■ Main characteristics

- **Modularity** : Obs_Server configurations are designed "on-demand", according to customers' infrastructures and equipment interfaces to be managed,
- **Scalability** : Obs_Server platforms can be sized according to data volumes to be collected, and to data storage periods,
- **Evolvitivity** : Obs_Server platforms can be upgraded in order to support any new release of an equipment interface. Obs_Server can also support several releases of any equipment simultaneously,
- **Reliability** : Obs_Server is est une plateforme robuste ne nécessitant pratiquement aucune activité d'administration ou d'exploitation,
- **JAVA Man / Machine GUI** : the JAVA GUI allows the administrator to configure and to launch Obs_Server (configuration of protocols, launching of collection process) and to monitor the different activities (daily administration and operation, status of physical links, display of active collection process, activity log, ...)
- **High availability** : depending on Customer's needs, Audilog can design High Availability configurations (disk mirroring, redundant power supply, multi-processor architecture, ...).



■ Off the shelf interfaces

Obs_Server is supported and maintained through adequate Support and Maintenance contracts. Obs_Server is also regularly enhanced (new features) through Audilog's R&D policy. On request, Audilog can analyze the opportunity to support any new equipment as "off the shelf" interface (Note : the development of any equipment interface needs the availability of the corresponding vendor specification). The following interfaces are already "off the shelf" available :

- ALCATEL OMC-S, E10B
- ERICSSON AXE10 - AMPS, AXE10 - GSM
- MOTOROLA EMX2500 - TACS
- NMC OMC-R
- SIEMENS MSC, BSC
- SNMP SNMP V1, MIB-I, MIB-II

■ Environnements Matériels / Logiciels

• Obs_Server sur SUN Solaris	• Obs_Server sur PC Linux
Station ou serveur (ULTRA 5, E450, E10 000, ...)	PC Intel Pentium (600 Mhz ou plus)
RAM : 256 MBytes ou plus	RAM : 256 MBytes ou plus
Solaris 8 ou supérieur	RedHat 7.3 Kernel 2.4.18 / LIS 2.13
X25 : SUN Link X25 9.x + port série ou port HSI	X25 : (nous contacter)

REFERENCES ...

- EASYNET (France) CDRs collection for Alcatel E10B through CMIP and FTAM
- GLOBTEL (Slovakia) GSM Performance statistics Collection on Alcatel (CMIP) and Nortel (SDO)
- and also ...

CAMGSM (Cambodia)	CEGETEL (France)	DUTCHTONE (Nederland)
EMTEL (Mauritius)	MAROC Telecom (Morocco)	MOBINIL (Egypt)
MOBISTAR (Belgium)	TANGO (Luxemburg)	VMS (Viet-Nam) ...