

**NS.Lib is a software library (DLL) containing all the services, tools and interfaces needed to manage Wide Area Network (WAN) communications (Ethernet, SMS, GPRS, GPS, WiFi). This DLL is designed to be hosted on M2M gateways, for use on the web server, but also on the back-end customer GUI. NS.Lib is composed of a set of base classes to simplify implementing customized plug-ins and Man Machine Interface (MMI) to achieve communication services between available WAN technologies over your M2M network.**



## Services on the gateway

- Provides interfaces for the hosted software
- Includes local communication interface between Plug-in software and customer Plug-in.
- Modem implementation RASDIAL, e-mail and SMS,
- WinCE FTP client

## Services on the web server

- Provides interface for third party tools
- Manages several gateways on the Ground Server(\*)

## Services on the PC hosting the customer MMI

- Provides WAN interfaces
- Supports static & dynamic IP addressing
- Ground Server connectivity and proxies of web services
- Connection to a Plug-in on a gateway and RPC calls (Get/Set/Start/Stop...)
- Object model with base classes for customer's software implementations
- Alarm display / acknowledge / history



## Features at a glance

### General purpose

- Ethernet (TCP, UDP, HTTP, FTP), GPRS, SMS, WiFi)
- Upload & download file transfer (HTTP, FTP)
- Data compression (zip) & encryption (AES-128)
- Data transfer (synchronous, asynchronous)
- Data logging with time stamp
- Alarms and events notification manager
- Hot software upgrade manager

### Specifications

<b>Footprint</b>	580 KB – DLL
<b>.NET</b>	Framework 2.0 Compact Framework 2.0