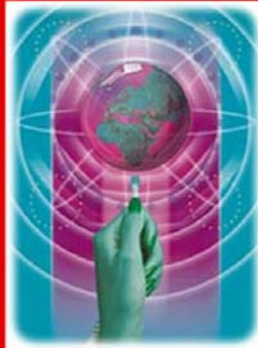


# ne2os Gateway v2.0

*"We INTEGRATE YOUR COMPLEX NETWORK WITH MANAGEMENT SYSTEMS VIA OUR MEDIATION SOFTWARE SOLUTION"*



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## Mediation Principles

Integration of management systems with complex networks, having vendor specific protocols and data models, is very difficult task, when not supported by dedicated software such as dedicated mediation software. Mediation software makes this task feasible and easy because:

- it provides single point of connection between a management system and a managed network, which hides and separates network complexity,
- it unifies different data models enclosed in different network element types and presents data in a coherent single model upward to a management system,
- it may perform data pre-analysis and/or aggregation in order to reduce scope and amount of information delivered to a management system,
- finally it facilitates change management processes.

Experience in integration of management systems, gathered by DOT Systems for many years, has driven to development of **ne2os Gateway** mediation software solution.

## Mediation Framework

**ne2os Gateway** is a comprehensive mediation framework dedicated for integration of management systems and applications with network elements directly or via Element Management Systems. **ne2os Gateway** can be characterized as:

- **generic mediation platform** that can be used in mediation of any data and protocols,
- **flexible and customizable** software that minimizes cost and time required for introduction of a new management solution into a management network,
- framework prepared to handle **multi-vendor** and **multi-technology** environments,
- software package containing a rich set of **communication protocol** and **data processing (parsing) libraries**.

**ne2os Gateway** is designed in component architecture, where new components can be developed and added as required. Such approach gives enormous freedom and flexibility during integration of new management systems, when it may be required to adapt to new technologies or new data models.

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## Architecture Overview

### ne2os Gateway

#### OSS Interface Components

osl

#### Mediation Components

mdFunction

#### Network Element Interface

nel

#### Framework Components

Protocol stacks

Scripting Engine

Flow Control Tools

Administration Tools

Data Storage **MDB**

**ne2os Gateway** is the mediation framework containing a set of predefined and reusable components. The design process of new mediation solutions is strongly facilitated by:

- ready to use communication libraries supporting: dce, corba, Q3, soap, snmp, cmip, ftp, http, tcp/ip, x.25, osi, cli, etc.
- scripting mechanism allowing integrators to quickly define a new data processing algorithm,
- enhanced flow control tools which enable easy definition of a new data flow through mediation,
- a set of advanced administration tools such as mediation process surveillance and control, high availability management, log management,
- common data warehouse storing configuration and back-up data used during roll-back or startup procedures.

Such advanced mediation software solutions are dedicated for complex integration cases, which examples are given below.

## Usage Scenarios

Independent mediation applications are usually used in cases, where mediation procedures are complex or managed networks are built from equipment of many vendors. In other cases it is enough to apply simple ad-hoc solution or to use some kind of ETL software (Extract, Transform & Load).

Further there are shown a few typical examples where, without dedicated mediation software, it would not be possible to develop overall solution in optimum cost and timeframe.

**Provisioning** is the case where convergence of different technologies and network domains into single consistent service model can be well achieved with ne2os Gateway. In this case, ordinary mdFunction is enriched by additional modules: Order Management and Service Activation.

In case of **Traffic Management**, ne2os Gateway implements complex procedures of:

- measurement management,
- measurement collection and mapping,
- traffic control.

By applying common ne2os Gateway mediation function, one can unify measured attributes as well as traffic regulation policies.

One of main features of Network Inventory system is automatic **Network Discovery**. It requires from Network Inventory system very good integration with a network. Depending on the scope of inventory data base, network discovery procedures may become extremely complex. With help of ne2os Gateway this task can be realized with minimum cost and time.

Typical ne2os Gateway mediation usage scenario can be found in **Fault Management** systems, where multiple alarm sources send alarms in different formats must be unified to a single alarm model (typically X.733).

## Product Roadmap

Future versions of our ne2os Gateway will follow the newest concepts of OSS systems design, created by TeleManagement Forum. It will be compliant to New Generation OSS (NGOSS) specifications, NGOSS architecture, principles and rules, such as loosely-coupled distributed components, contract oriented APIs, common communication, infrastructure, shared information data, etc.



## More Information

For more information, please contact DOT Systems or visit our web site.



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