

BOSS - Broadcast OSS Platform Operations Support Systems for Broadcast Services

The Dimetis **BOSS Platform** is an organized system of software, hardware, services and design practices that enable optimum management, monitoring and controlling of the components that allow a company to run its business.

It gives Broadcasters, Broadcast Carriers and Media companies the ability to:

- **Configure, Manage, Monitor and Maintain Equipment, Facilities and Networks**
- **Create, Deploy, Manage and Maintain the Services on these Networks**
- **Provide Business Information necessary to Insure Customer Delight**

The Dimetis portfolio of solutions is specially tuned to the hardware and software requirements of the Broadcast world. **BOSS** is a true "**Broadcast OSS Platform**".

It offers all the leading-edge features required to efficiently operate broadcast networks and services to perfectly anticipate and fulfill the needs of the customers.

BOSS - Broadcast OSS Platform

Element Management	Integration	Assurance	Fulfillment	Customer Care
<ul style="list-style-type: none"> ● Device Control ● Universal Element Management Administration 	<ul style="list-style-type: none"> ● Submodule Software & Hardware ● Third party systems ● Interface to additional platforms & operating systems ● Superior Umbrella Management ● Improvement of scalability 	<ul style="list-style-type: none"> ● Test & Quality supervision ● Monitoring ● Error detection ● Analysis ● Error correlation ● Trouble shooting ● Backup connection ● Trouble ticketing 	<ul style="list-style-type: none"> ● Configuration ● Event Management ● Order Management ● Resources Management: Scheduling Planning Booking ● Bandwidth Management ● Activation ● Operation ● Archiving 	<ul style="list-style-type: none"> ● Cost calculation ● Clearing ● Accounting ● Invoicing ● Interfaces to billing systems (e.g. SAP) ● Web-Portal ● Reporting ● CRM

The **BOSS Platform** is organized into five functional groups and modeled on the concepts laid out in the ITU - T, TMN and TMF work. All functions shown are designed to work individually or together as an integrated whole to provide maximum flexibility and backward compatibility.

○ **Element Management**

Network Elements are all devices used by the networks and monitored by the Broadcast OSS management.

○ **Integration**

Management of all Network Element and information to the higher layers in an efficient and scalable way. It supports multiple types of Network Elements and integrates them into the Broadcast network.

○ **Assurance**

Monitoring of the network, reporting any faults that occur and insuring that the network recovers in a fast and efficient manner. The multiple functions offer robust Quality Assurance required from a network.

○ **Fulfillment**

Events and orders are generated by/for the customer, are processed and matched to the capacities and characteristics of the network.

○ **Customer Care**

Information about the quality of Services and the fulfillment of the Service Level Agreements (SLA) are collated and transformed into information needed to show the customer proof of service, invoicing and strategic inputs for business planning.

Element Management

Monitoring, setup and teardown of connections are provided at each network element. The devices [N.E.] can be SNMP, TMN Q3 or COBRA compatibles or have proprietary MIBs.

Control of all devices:

- Network nodes (e.g. switches, routers)
- Terminal equipment (e.g. distribution amplifier, converter)

Universal Element Management Administration

Integration

Monitoring, control, setup and teardown of connections are provided inside the networks (based on SDI, SDH, ATM, DTM, DVB or IP technologies)

Hardware and Software to scale up the control of all devices:

- Software module to manage up to 1000+ nodes and 10000+ parameters
- Software capable of processing Network nodes (e.g. switches, routers)
- Local controllers at remote sites (connecting remote devices and pre-filtering commands, controls and status)

Multiple system interfaces

Assurance

Monitoring

- Status of network components (switches, routers etc.) directly or via local controllers
- Status of links/connections

Reporting of messages

- Graphical display of the actual device status
- Interface to higher-layer control systems

Fault Management

- Automatic error recognition
- Conflict warnings
- Error correlation engine
(based on topology and/or application architecture)
- Disaster Recovery
(Re-routing, backup connections)

Trouble Ticketing

- DiTrack - Tool of Dimetis

Fulfillment

Configuration data (user defined)

- Definition of all network nodes, devices and connections
- Definition of all resources
- Provider tariffs

Event Management

- Event definition
(incl. splitting in multiple projects)
- Event calendar
- Order allocation

Order Management

- Customer requests (web based or interface to another enterprise system)
- Definition of customer orders (requirements for connections and resources)
- Operating/processing lists
- Order tracking (work flow, time and status-oriented)
- Definition of external orders

Resources Management

- Scheduling of resources and connections,
- Path finding (routing through the network)
- Booking of network connections and resources
- Conflict recognition
- Assignment of network links or resources
(bar charts, graphics)

Bandwidth Management

- Administration of bandwidth
- Display of used bandwidth and availability

Activation/Operation

- Setup and Teardown of links
- User initiated
- Time controlled

Archiving

- All event and order data
(incl. connections, used resources and costs)

Customer Care

Billing

- Cost calculation (for the total order, for single resources/connection)
- Cost control/clearing
- Invoice printing (Order oriented, Customer collective invoice)
- Transfer of finance data to enterprise systems (e.g. SAP)

Customer Relationship Management

- Customer Management
- Supplier Management
- Communication via Email/Fax/SMS (incl. monitoring of communication interfaces)

Reporting/Statistics

- Customer orders, connections, used resources, network or device troubles etc.
- Data export in different formats (e.g. csv, xml)
- Direct database access with special standard tools (e.g. Crystal Reports)

Web Portal

- Customer requests
- Workflow information
- Assignments of network connections or resources

Benefits

- The modular **BOSS Platform** architecture guarantees flexible solutions by combining the different functions.
- Each solution is customized in order to support the specific requirements of each user/operator.
- A fast implementation of each solution provides a short timeframe until commissioning and a fast Return-on-Investment for the customer.

Use for

- Broadcasters in contribution and distribution networks (DVB-x, IPTV)
- Triple Play carriers: VoIP, IPTV over SDH, CWDM, DWDM, PON and HFC
- Professional audio/video network carriers
- Media, event and post-production companies

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