

## Dimetis BOSS LINK Connector<sup>®</sup>

### Ad-Hoc Switching of Point-to-Point/Multipoint Connections

Connecting diverse equipment over point-to-point and multi-point video-centric contribution networks is a time consuming, manual and error-prone process. It typically involves setting up numerous configuration profiles and confirming compatibility. Dimetis BOSS LINK Connector<sup>®</sup> is simple, cost effective software that offers drag-and-drop, ad-hoc switching connections through a dashboard graphical user interface (GUI), allowing multiple network devices (e.g. encoders, decoders, network adapters, etc) to be easily configured, connected, disconnected and monitored.

System Level Features	System Level Benefits
Point-to-Point & Point-to-Multipoint Switching	Improves network efficiency as a single point of control, minimizing operational errors.
Browser-based GUI with Dashboard Control	Simplifies operation. Requires no client installation, minimizing deployment costs.
Configurable Device & Bandwidth Profiles	Maximizes network flexibility. Guarantees connection compatibility.
Integrated Device Monitoring	Provides faster network fault identification and rectification.
Network & Device Agnostic	Operates as a common platform across ASI, SDI, HD-SDI, and Ethernet environments.

## Product Features

### Technologies

- Encoders / Decoders / IP Gateways
- IP, DTM

### Compatibility Checking

- Edge Bandwidth
- Source / Destination Signal Characteristics

### Device Monitoring

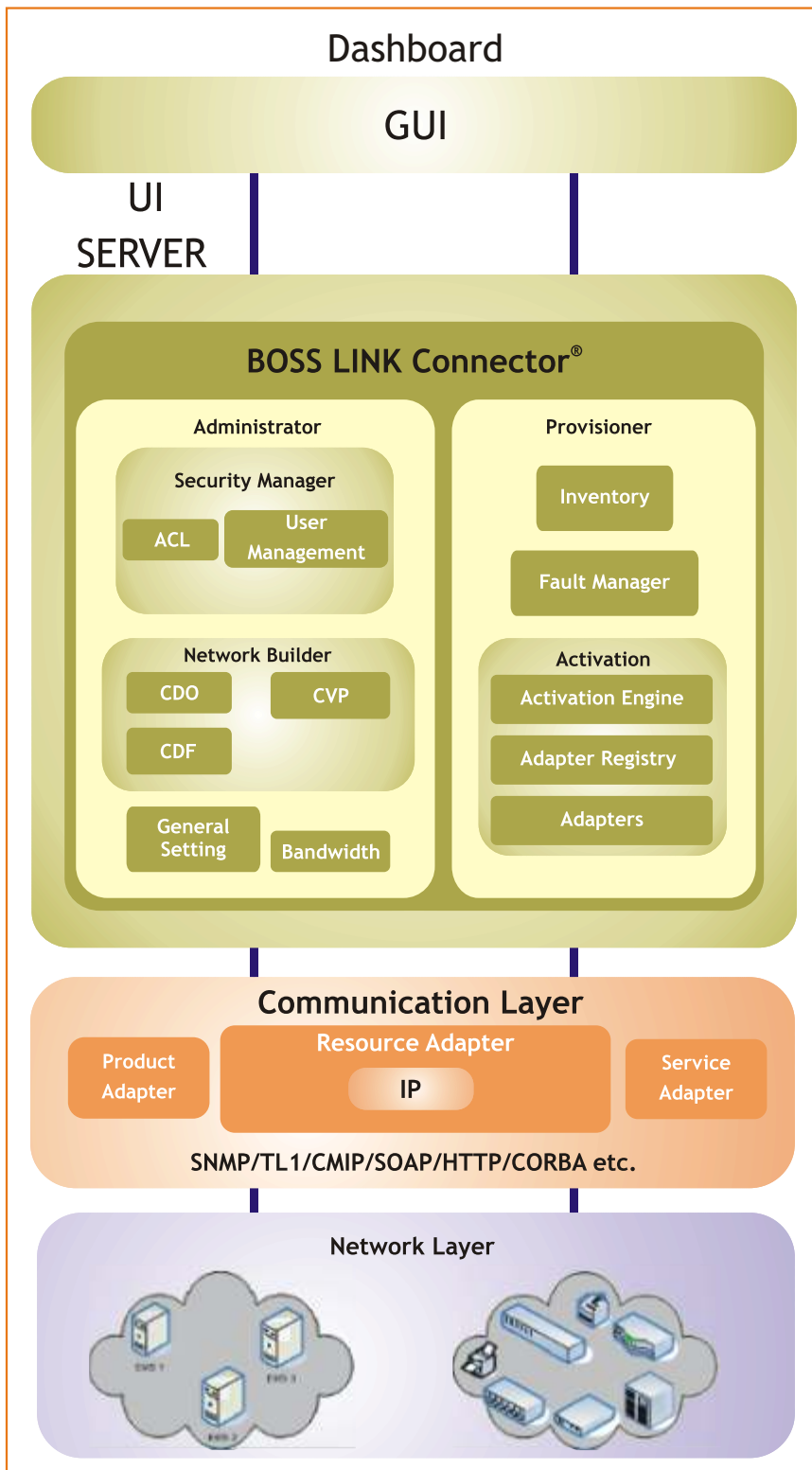
- Identifies/Reports Faulty Devices
- Color-coded Alarming with Archival

### Simplified Operation

- Intuitive Drag-and-Drop GUI
- Zero-footprint, Browser-based Client



## Architecture Diagram





Dimetis BOSS LINK Connector® consists of the following key modules:

### Dashboard:

The Dashboard with an intuitive GUI displays all the ports and corresponding connections belonging to the chosen site and its sub sites. The types of ports supported are ASI, SDI and Ethernet. Dashboard users can select a source port and destination port(s) to either connect or disconnect to, and ad-hoc switch in either uni-cast (point-to-point) or multi-cast (point-to-multipoint) modes. A browser based GUI is utilized which does not require any client installation, hence minimizing deployment costs in distributed environments.

### Fault Manager:

The Fault Manager provides the ability to detect, isolate, prioritize, and correct malfunctions throughout the network.

### Inventory Manager:

The Inventory Manager provides the means to define

the topology, device association and bandwidth relationship across each element in the network.

### Activation Engine:

The Activation Engine handles configuration and activation of ASI, SDI and Ethernet ports, and communicates to the actual device adapters using SNMP, Corba etc.

### Security Manager:

Security Manager authenticates system log-ins and provides authorization based on the Access Control List or based on the permission granted to the user, ensuring authorized access.

### Bandwidth Management:

The Bandwidth Management System dynamically calculates system bandwidth requirements based on network activity. Two types of bandwidth relationships are supported: Parent-Child and Peer-Peer.

### Port Alarm Status



### Port Connections



### Port Details



### Network Builder:

Network Builder allows the Administrator to build the inventory. It also enables the definition of Custom Defined Objects (CDO), Custom Defined Fields (CDF) and Custom Validation Plug-ins (CVP).

### Communication Layer:

The Communication Layer enables the flow of information between the application and the actual end devices via the specific device adapters and ensures protocol compliance.

## Hardware Requirements

Server side	Client side
Oracle instance: 2 GB memory, 80 GB HD with dual processor	Commercially available PC with current MS Windows Explorer, Mozilla Firefox or Opera Browser.
Activation & Inventory engine: 2 GB memory, 80 GB HD with dual processor (Minimum requirement)	Operating system: Sun Solaris 9.0. Windows XP/2000/VISTA Linux Fedora, Redhat or SuSe

## System Features

Application Servers	JBoss BEA WebLogic IBM WebSphere TIBCO TOMCAT
Middleware	Java Servlets
JAVA	J2SE [JDK 1.5] Eclipse 3.3.0 IDE for Java
Graphical Tools	GWT 1.4.2 Adobe-Flex 2.0
Database	MySql, Oracle 10g

Headquartered in Dietzenbach, Germany, Dimetis is a leading software and hardware Systems Integrator, providing standards-based Broadcast OSS solutions. With more than 25 years experience, Dimetis has an extensive customer base. Its products and services have been deployed to many of the world's largest broadcasters, telecommunication providers and media carriers.

Dimetis GmbH, Justus-von-Liebig-Straße 9, D- 63128 Dietzenbach, Germany

Phone: +49 (0) 60743010 0, Email: [info@dimetis.de](mailto:info@dimetis.de)

[www.dimetis.de](http://www.dimetis.de)