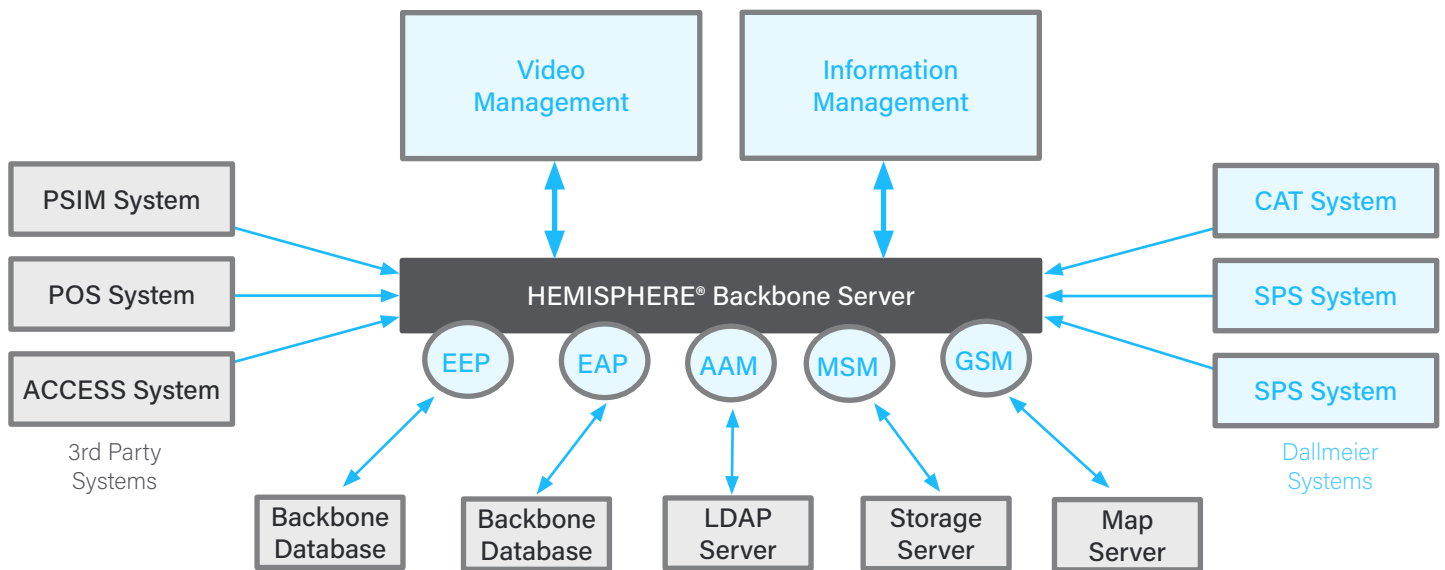


# Backbone Server Software

HEMISPHERE® Backbone Server Software for central distribution of data between all components of a HEMISPHERE® Security and Business Management System



The HEMISPHERE® Backbone Server Software with its integrated modules forms the central and extremely powerful system for the efficient and rule-based distribution of data as alarm messages, status messages, event messages or authorization information between all components of a HEMISPHERE® Security and Business Management System.

## Function

The modules of the Backbone Server receive, for example, the data from an access control system and automatically forward it to a workstation as an alarm message in accordance with the defined rule. Simultaneously, the sending of a status message to various applications for graphical display or the sending of a freely definable e-mail can be triggered.

## Enterprise Event Processing Module

The HEMISPHERE® Enterprise Event Processor Module (EEP) allows the easy connection of 3rd party systems via standardized network protocols (RESTful) and established web standards (XML, SOAP, JSON). These allow the passive reception of states from the connected systems which can be linked to predefined events using an identifier. If an event is triggered by the corresponding state, further actions and workflows as well as corresponding messages can be initiated automatically. In addition, each event is archived in the integrated database with all associated data.

## Enterprise Alarm Processing Module

The HEMISPHERE® Enterprise Alarm Processing Module (EAP) allows the linking of events with defined alarm messages. These can be grouped under different alarm types, to which individual alarm layouts are assigned on the workstations. The different alarm layouts can include acoustic and optical signals in addition to the automatic display of cameras, and always ensure that the attention of the operator is focused. If an event is triggered, further actions and workflows as well as the sending of a corresponding alarm message to the alarm inbox of a HEMISPHERE® workstation can be initiated automatically.

## Advanced Authentication Module

The Advanced Authentication Module (AAM) is the central user administration for the entire HEMISPHERE® System. It allows the connection to an LDAP server but also the manual creation of users. In addition, state-of-the-art web standards (OAuth2) enable access to all components of the entire system after a single login, for example at a workstation (single sign-on).

## Media Storage Module

The HEMISPHERE® Backbone Server Software contains the license for the use of the Media Storage Module (MSM). The module manages a special file system that is optimized for the central storage of data, images and videos in a computer cluster.

## Geo Service Module

The Geo Service Module (GSM) enables the simple connection of a map server with generally available (OpenStreetMap) or individually created (site plan) map material and makes it available for the frontend on the SeMSy® Workstation. While an event is displayed, a map with the corresponding location can be faded in automatically.

## Georeferencing

The Backbone Server software allows the linking of events with exact location data. Both in live operation and during a subsequent evaluation, it is immediately apparent which incident triggered the event, as well as when and where.

## Docker and Kubernetes

The HEMISPHERE® Backbone Server Software is offered with all modules as an image for docker containers in virtual environments. This allows resource-saving operation in a computer cluster, with Kubernetes being used for scaling and administration of the container system.

## Performance

The Backbone Server should be equipped with 64GB RAM. Four CPU cores are recommended for processing 1000 events per second (without attached media data). When using the different modules, one additional CPU core per module is required.


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Software	
006159	<b>HEMISPHERE® Backbone Server Software</b> License for the use of the basic installation of the server software on one server, licenses for the modules EEP, EAP, AAM, MSM and GSM included, 20 web client licenses for accessing the Backbone Server Software (BBS) included, 1x HEMISPHERE® Site Dongle
006160	<b>DLD - HEMISPHERE® Backbone Server Software</b> Extension of a backbone server dongle with a license for using the server software on another server, licenses for the modules EEP, EAP, AAM, MSM and GSM included, 20 web client licenses for accessing the Backbone Server Software (BBS) included

Included Module Licenses	
<b>DLD - Enterprise Event Processing Module</b>	License for the use of the EEP module for the connection of 3rd party systems over RESTful protocols, linking predefined events with external data sets
<b>DLD - Enterprise Alarm Processing Module</b>	License for the use of the EAP module for the basic configuration of alarms by definition of behavior and properties
<b>DLD - Advanced Authentication Module</b>	License for the use of the AAM module for central user administration
<b>DLD - Media Storage Module</b>	License for the use of the MSM module for archiving event data on a (network) drive
<b>DLD - Geo Service Module</b>	License for the use of the GSM module to access a map server and for forwarding the maps to the frontend

Server	
006007.415	 <b>Server Rack-Mount 2 RU III</b> Server hardware, 2 RU rack-mount, 2x 12-core 2.2GHz CPU, 128 GB DDR4-2400 RAM, 2x redundant power supplies, 1x SATA DOM 64 GB, 2x SSD 1000 GB with RAID 1 (in tray), 6x 3,5" HDDs optional, RAID 6, License for VMware ESXi 6.5 included



See more.