

# SMAVIA & External Systems

Required licenses and procedures for the integration of  
SMAVIA Recording Server into external systems via Dallmeier interfaces

English

## 1 Abstract

The VideoIP appliances of the SMAVIA series (from generation 5) with preinstalled **SMAVIA Recording Server** software can be integrated into external video management systems via various Dallmeier interfaces. Compared to devices of the 4th generation several changes regarding procedures and the SMAVIA license model have to be considered.

This document contains information regarding the required licenses and descriptions of modified procedures for the various Dallmeier interfaces. Also note possible updates to the appropriate interface documentation.

## 2 Dallmeier ActiveX

The Dallmeier ActiveX Control is a standardised interface for the easy integration of Dallmeier network devices (IP cameras, encoder, recording server) into a third-party software or into a browser as part of a Microsoft operating system.

The different files of the ActiveX packages are usually installed under C://Programmes/Dallmeier/ActiveX. The third-party software accesses these DLLs in order to establish a connection with the Dallmeier products. The connection is necessary to enable the data transfer, decoding and image display.



### 2.1 License

In connection with a SMAVIA Recording Server the **purchase of a Floating License** for the access of a workstation to the SMAVIA Recording Server is required.

If several workstation are to access simultaneously, the appropriate number of licenses must be purchased. The license codes are entered directly on the SMAVIA Recording Server.

### 2.2 Version

In connection with a SMAVIA Recording Server a **new version of the Dallmeier ActiveX as of 1.2.4.x** is required.

The integration of the new Dallmeier SMAVIA Recording Server appliance **IPS 10000** (version 9.x.x) into external systems requires adoptions at the DaVid protocol interface and version **1.4.x** of the **API/ActiveX**.

### 2.3 Function

#### Connect

The ConfigurationString with the application name must be passed on prior to connection / logon with DImXConfig. Then DImXConnect is called up.

```
DImXConfig()
<DImSDK><DImConfig><Information AppName="MyAppName"/></DImConfig></DImSDK>
```

An example (source code) is integrated in AX\_Test.exe and contained in the ActiveX PACK.

**Device type and application name**

The query of the device type is not necessary, because this is implemented in ActiveX. The connection / login is supported on a SMAVIA Recording Server („AppName“) and on devices of the 4th generation.

The application name may always be set. It is ignored when a connection to a device of the 4th generation is established and interpreted when the connection to a SMAVIA Recording Server is established.

When the application name is not set only a connection to devices of the 4th generation is possible.

**Restriction**

There are no restrictions to the general functional range.

**3 Dallmeier API**

The Dallmeier API (Application Programming Interface) is an interface that allows for the integration of Dallmeier network devices (IP cameras, encoder, recording server) into a third-party software on Microsoft operating systems.

The various libraries (DLL) are usually saved in the working folder of the third-party application. Contrary to ActiveX, the third-party software should preferably be programmed in C++.

**3.1 License**

In connection with a SMAVIA Recording Server the **purchase of a Floating License** for the access of a workstation on the SMAVIA Recording Server is required.

If several workstations are to access simultaneously, the appropriate number of licenses must be purchased. The license codes are entered directly on the SMAVIA Recording Server.

**3.2 Version**

In connection with a SMAVIA Recording Server a **new version of the Dallmeier API as of 1.2.4.x** is required.

The integration of the new Dallmeier SMAVIA Recording Server appliance **IPS 10000** (version 9.x.x) into external systems requires adoptions at the DaVid protocol interface and version **1.4.x** of the **API/ActiveX**.

### 3.3 Function

#### Connect

The ConfigurationString with the application name must be passed on prior to connection / logon with dlm\_Config. Then dlm\_Connect is called.

```
dlm_Config()
<DlmSDK><DlmConfig><Information AppName="MyAppName"/></DlmConfig></DlmSDK>
```

An example (source code) is integrated in API\_Test.exe and contained in the API PACK.

#### Device type and application name

The query of the device type is not necessary, because this is implemented in the API. The connection / login is supported on a SMAVIA Recording Server („AppName“) and on devices of the 4th generation.

The application name may be always be set. It will be ignored when a connection to a device of the 4th generation is established and interpreted when the connection to a SMAVIA Recording Server is established.

When the application name is not set, only a connection to devices of the 4th generation is possible.

#### Restriction

There are no restrictions of the general functional range.

## 4 Dallmeier DaVid Protocol

DaVid is the communication interface for all Dallmeier devices. The DaVid protocol enables the data exchange, the communication and the control of Dallmeier devices (IP cameras, encoder, recording server) via network or the serial interface.



### 4.1 License

In connection with a SMAVIA Recording Server **no separate license** for the access of a workstation to the SMAVIA Recording Server is required. The always available **Basic License** is sufficient.

### 4.2 Version

In connection with a SMAVIA Recording Server a **new version of the DaVid protocol description (version 5.32.0)** is required. It contains additional information on the SMAVIA Recording Server.

The integration of the new Dallmeier SMAVIA Recording Server appliance **IPS 10000** (version 9.x.x) into external systems requires adoptions at the DaVid protocol interface and version **1.4.x** of the **API/ActiveX**.

## 4.3 Function

### Login

The protocol has been extended with a new **login command** (login with identification) CMD\_LOGIN (44) of the target unit „device“.

In any case, the command must contain the data element „application name“ (user defined). Apart from that, the data structure is the same as for the previous login command for devices.

The query of the **protocol version** is recommended. As of protocol version 5.32.0 the login via CMD\_LOGIN (44) is always required.

### Restriction

There are no restrictions to the general functional range.



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