

# Video Communication Recording for SIP active



## Administration manual for system providers

6/3/2022

### Product line Neo, version 7.x

The described functions can be used with the following ASC products:

EVOIP<sup>neo</sup>

EVOLUTION<sup>neo</sup> / XXL / eco

EVO<sup>flex</sup> (country-specific)

Please note that you can always find the most up-to-date technical documentation and product updates in the partner area on our website at <https://www.asctechnologies.com>.

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## 1 General information

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## 2 Introduction

This manual describes the installation and configuration of the recording solution in the application System Configuration.



Basic information about using the application System Configuration can be found in the user manual for administrators *System Configuration - General information*.

The recording solution Video Communications Recording for SIP active is based on the software EVOIP<sub>neo</sub> active for SIP which provides the functionality which is necessary for the active IP recording of unencrypted and encrypted video conversations in a SIP environment.

To record conversations, the recording server is added to the conference as participant. This can either be done automatically if configured that way on the phone or on the PBX or initiated manually by the participant.

The recording server receives the conversation data which is supposed to be recorded as a mixed RTP data stream. The additional data is extracted from the SIP signaling.

The video conversations are encrypted in the ASC proprietary file format and stored on the recording server.

Since the recording is started by a conference call, the recording server does not receive the phone numbers of the other communication participants. To obtain this information nonetheless, different SIP headers can be configured as information source.

### Video Communications Recording for SIP active

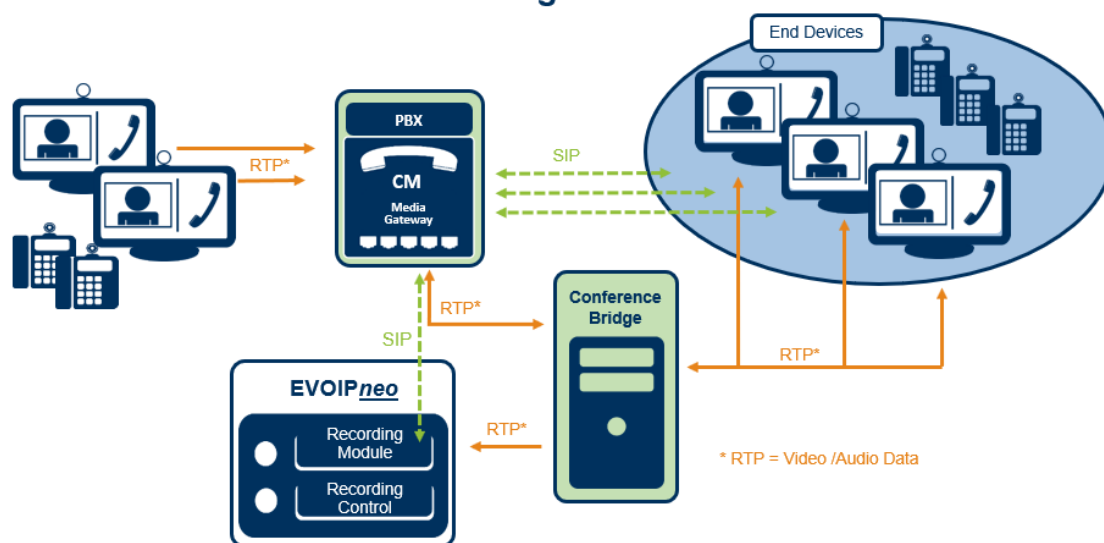


Fig. 1: Overview of the recording solution

### 3 System requirements



For basic information about the necessary hardware and software components refer to the installation manual *Installation requirements*.



A list of the codecs supported in this recording solution can be found in the installation manual *Installation requirements*.



A list of the supported PBXs and end devices as well as their supported versions can be found at ASC XCHANGE (<https://www.asc.de/partner>) in the current Neo *Integration Overview*.

#### 3.1 Hardware components



For basic information about the necessary hardware components refer to the installation manual *Installation requirements*.



EVOIP<sub>neo</sub> recording software can be used on the customer's existing hardware. Alternatively, you can use ASC recorders.

##### 3.1.1 Recorder

For the recording solution you can use the following systems:

- EVOLUTION<sub>neo</sub> eco
- EVOLUTION<sub>neo</sub>
- EVOLUTION<sub>neo</sub> XXL



With hybrid systems (VoIP and TDM) the required software for the recording solution has already been installed on the EVOLUTION<sub>neo</sub> recorder. If more performance is needed, an additional EVOLUTION<sub>neo</sub> recorder or EVOIP<sub>neo</sub> server can be added.

#### 3.2 Software components

For the recording, you need the installation medium with the server software Neo Suite which is installed on the ASC recording server.

#### 3.3 External components



A list of the supported PBXs and end devices as well as their supported versions can be found at ASC XCHANGE (<https://www.asc.de/partner>) in the current Neo *Integration Overview*.

##### 3.3.1 PBX

Supported are PBXs end devices which use SIP as signaling protocol.

##### 3.3.2 Supported PBXs and end devices

Supported are PBXs end devices which use SIP as signaling protocol.

The following RFC standards are supported:

- RFC 3261 (SIP)
- RFC 3550 (RTP)
- RFC 3665 (SIP Basic Call Flow Examples)
- RFC 3711 (SRTP)

- RFC 4566 ([SDP](#) Session Description Protocol)
- RFC 4568 ([SDES](#))
- RFC 4733 ([DTMF](#)) optional
- RFC 6086 ([DTMF](#) via SIP INFO) optional

ASC gives no guarantee for the functionality of untested end devices.

### 3.3.3 Additional requirements and restrictions

- Early Media must be deactivated.
- Voice Activity Detection ([VAD](#)) or silence suppression must be deactivated.
- The SIP authentication methods *basic* and *auth* are supported.

### 4 Installation requirements



For basic information about the used default ports refer to the installation manual *Installation requirements* in chapter *Communication matrix*.



If you have configured customer-specific ports, you have to open them in the firewall separately.

#### 4.1 Licenses

##### ASC

License name	Number
EVOIP <sub>neo</sub> Base license - active	1 license per recording server
EVOIP <sub>neo</sub> active for SIP	1 license per concurrent recording
Video Communications Recording for SIP active	1 license per agent to be recorded

Tab. 1: Licenses of ASC

#### 4.2 Information

Before you start the installation, make sure that the following information is available:

- IP address of the recording server
- SIP port of the recording server



In this recording solution, the [SIP](#) authentication methods *basic* and *auth* are supported.



## 5

## Overview install and configure product

The following steps have to be carried out:

1. Install Neo software
2. Configure PBX and conference bridge
  - Since the configuration is vendor-specific, the steps cannot be described here. The configuration is usually done by the telecommunication technician.
3. Configure System Configuration
  - Create and activate recording architectures
    - The recording servers, recording types, and the integration types are assigned in the Recording Architectures module.
  - Configure servers
    - In the Servers module, the usage of the server is configured.  
A server can be used for archiving, import, export, replay, data storage or for audio analysis.
  - Create PBX
    - A PBX configuration can either be created via the PBX module or via the configuration in the Integrations module.
  - Create, configure, and activate integration
    - Configure recording architecture  
Link the integration to the previously created recording architecture.
    - Global recording settings  
Configuration of port and transport protocol for SIP signaling
    - Configure recording servers  
Configuration of the parameters of the recording server, e. g. IP address, incoming port for RTP, and extensions.

#### Additional configuration steps for video recording

- Activate video support
  - For a working recording of video conversations, you have to activate the parameter for the support of video in the configuration file of the Recording module. See Activate video support.
- Configure employees
  - To be able to record the video conversations of agents, you have to configure the respective employees as agents in the Employees module and configure their *extension* or their *PBX Agent ID* in the agent data in the group field *Telephony* as well as activate the option *Video recording* in the group field *Miscellaneous Settings*.  
For this configuration you have to log in to the application System Configuration as 1st-tenant-admin.
- Configure Recording Planner
  - To be able to record the video conversations, you have to activate the option *Record video* in the Recording Planner module in the Quality Management module.  
For this configuration you have to log in to the application System Configuration as 1st-tenant-admin.
- Configure miscellaneous settings
  - Optional configuration of participant information in an additional data field

### 6 Installation



**Before** installing the Neo software, ensure that Microsoft Windows has been installed and configured according to our specifications.



For information about the installation and configuration of Microsoft Windows refer to the respective installation manual for system providers *Configuration Microsoft Windows Server 2016*, *Configuration Microsoft Windows Server 2019* or *Configuration Microsoft Windows Server 2022*.



For information about the installation of the Neo software refer to the installation manual for system providers *Installation of the recording software of ASC*.

## 7 Configuration

### 7.1 System Configuration



Basic information about using the application System Configuration can be found in the user manual for administrators *System Configuration - General information*.

#### 7.1.1 Start application

During the installation, shortcuts for the Neo applications are created on the computer desktop.

1. To start the application directly on the server, double-click on the shortcut System Configuration.

To access the application from a computer via the web, enter the following URL in the address bar of the browser:

*https://<System-IP>/SystemConfiguration.*

If you have configured customer-specific ports, you must add the port in the URL:

*https://<System-IP>:<Port>/SystemConfiguration.*

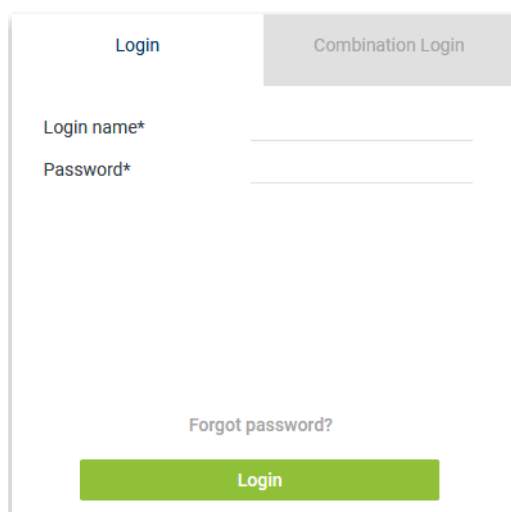


Fig. 2: System Configuration - Web interface

To install and configure the recording solutions, you have to log in as system provider.

Login data for the administrator of the system provider:

User name:	<i>system-admin</i>
Neo version < 6.3	
Default password:	<i>1</i>
	If the default password <i>1</i> has never been changed before a software update to a Neo version $\geq 6.3$ , the password must be changed upon the next login or by entering it again. If the default password has already been changed before a software update to a Neo version $\geq 6.3$ , the changed password remains.
Neo version $\geq 6.3$	
Default password:	<i>A\$c123</i>

Tab. 2: Login data - system provider

2. Log in to the web interface.  
⇒ The main window System Configuration appears.

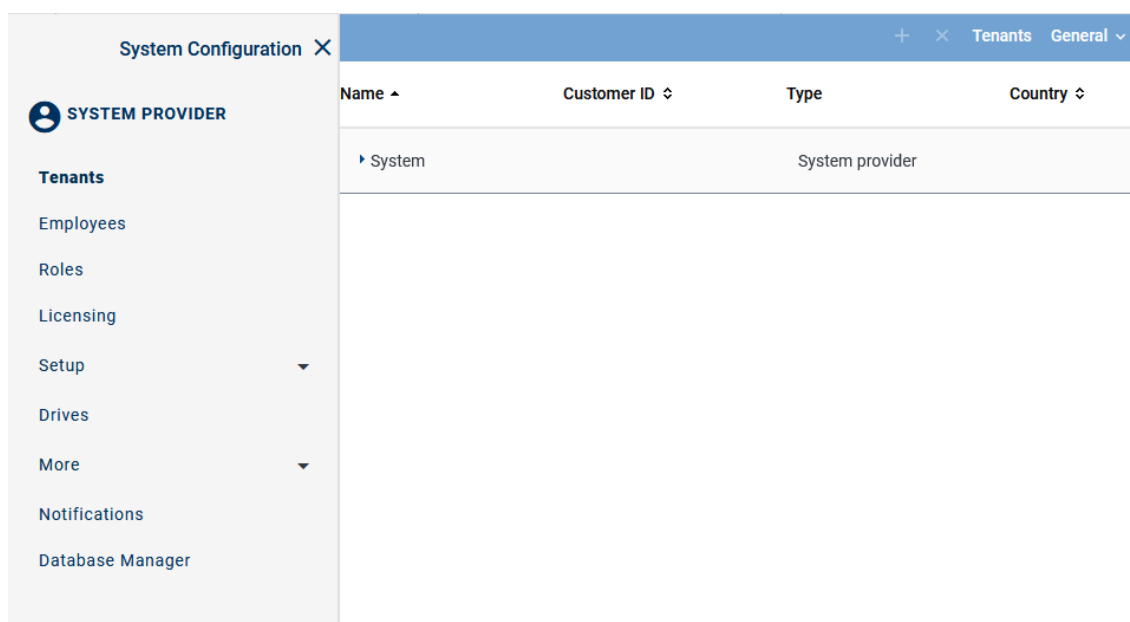


Fig. 3: System Configuration - main view

## 7.1.2 Configure recording solution

### Supported recording architectures

In this recording solution, the following recording architecture types are supported:

- All-in-one Basic Recording
- All-in-one Failover
- All-in-one Parallel Recording
- Multi-Server Recording
- Multi-Server Failover
- Multi-Server Parallel Recording

### 7.1.2.1 Configure recording solution All-in-one Basic

#### 7.1.2.1.1 Create recording architecture

Start the configuration in the Recording Architectures module because an activated recording architecture is required for further configuration.

The recording servers, recording types, and the integration types are assigned in the Recording Architectures module.

1. Select the menu item *Setup > Recording Architectures* in the navigation bar.
  - ⇒ The following window appears:

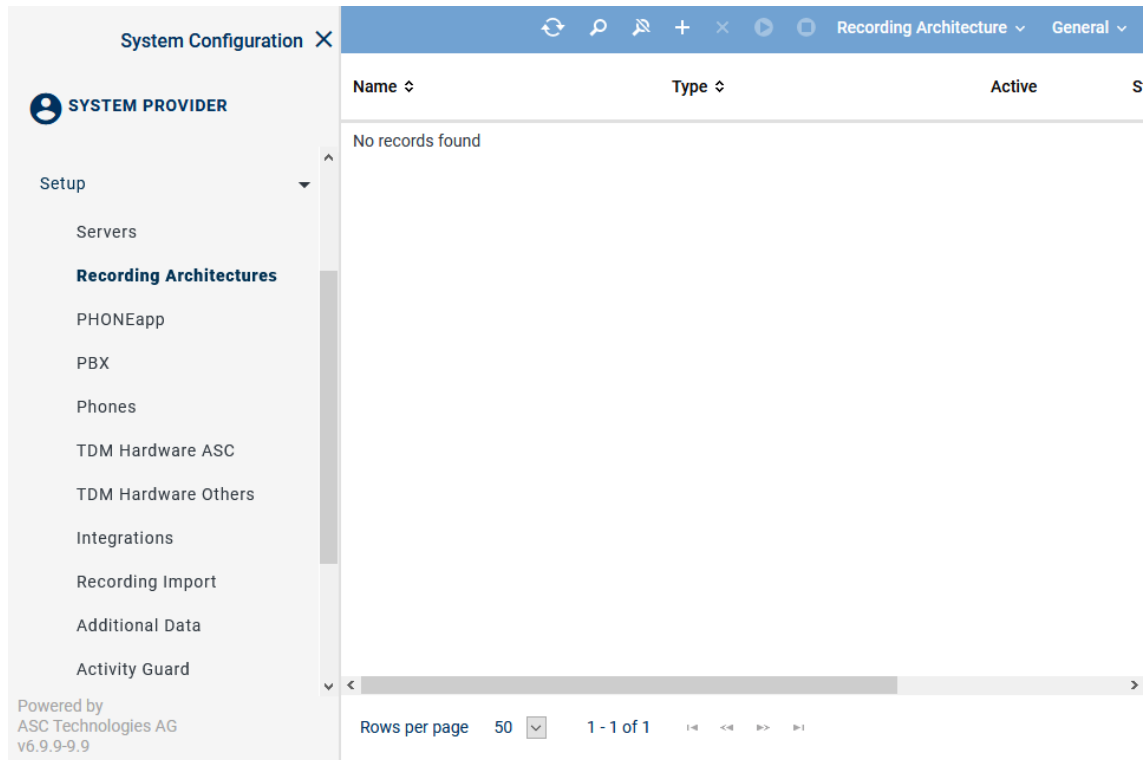




Fig. 4: Recording architectures - main view

<b>Name</b>	Name of the recording architecture
<b>Type</b>	Type of the recording architecture
<b>Active</b>	Shows whether the recording architecture has been activated and is ready to be used for the recording. <div> <span>✓</span> = Recording architecture is active and ready to be used for recording. It can be deactivated by clicking on the icon  (<i>Deactivate</i>) in the toolbar.  <span>✗</span> = Recording architecture is not active. It can be activated by clicking on the icon  (<i>Activate</i>) in the toolbar. </div>
<b>Standby Active</b>	Shows whether the standby server is active for one or several recording components in the recording architecture. <div> <span>✓</span> = At least 1 standby server is active.  <span>✗</span> = No standby server is active or no standby server has been defined. </div>
<b>Creation Date</b>	Date on which the recording architecture was installed.
<b>Updated</b>	Date on which the settings of the recording architecture were updated for the last time.



**NOTICE!** Hidden columns can be added by clicking on the menu item *General > Adjust Table*.








### Toolbar of the Recording Architectures module

The toolbar offers the following functions.



Fig. 5: Toolbar Recording Architectures module

	<b>Refresh</b>	Refreshes the main view.
	<b>Search</b>	Opens the window of the search function. The search function allows searching systematically for sets of data which meet certain criteria.


		The icon  is displayed whenever the search has been adjusted by means of a filter.
	<i>Reset search</i>	Resets all search filters so that all sets of data are displayed in the main view again.
	<i>Create</i>	Creates a new recording architecture.
	<i>Delete</i>	Deletes the selected recording architecture. The recording architecture is removed from the list of the main view. <b>NOTICE!</b> You can only delete recording architectures which are inactive and have not been assigned to an integration or server for the import.
	<i>Activate</i>	Activates the selected recording architecture.
	<i>Deactivate</i>	Deactivates the selected recording architecture. <b>NOTICE!</b> You can only deactivate recording architectures which have neither been assigned to an active integration nor to an active import.
<i>Recording Architecture</i>	<i>Standby Management</i>	The menu item is only available for recording architectures with failover possibilities. By clicking on the menu item Standby Management, you can open a window in which you can manually define the active server in architectures with failover concepts.
<i>General</i>	<i>Print</i>	Prints the table of the main view.
	<i>Adjust Table</i>	Opens a window in which you can adjust the following settings for the main view: <ul style="list-style-type: none"> <li>• <i>Displayed information</i></li> <li>• <i>Order of the displayed columns</i></li> <li>• <i>Number of rows per page</i></li> </ul>
	<i>General Help</i>	Opens the online help.
	<i>Module Help</i>	Opens the module-specific online help.



For detailed descriptions of the default functions such as *Search*, *Print*, *Adjust table* or *Help* refer to the user manual for system providers *General information - System Configuration*.

### Create recording architecture All-in-one Basic

Create a recording architecture of the type *All-in-one Basic Recording*.

- To create a new recording architecture, click on the icon  (*Create*) in the toolbar of the main view.

⇒ The window *New Recording Architecture* appears.

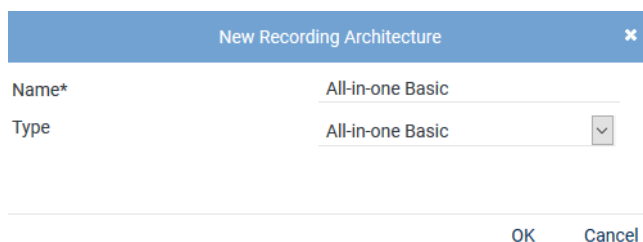
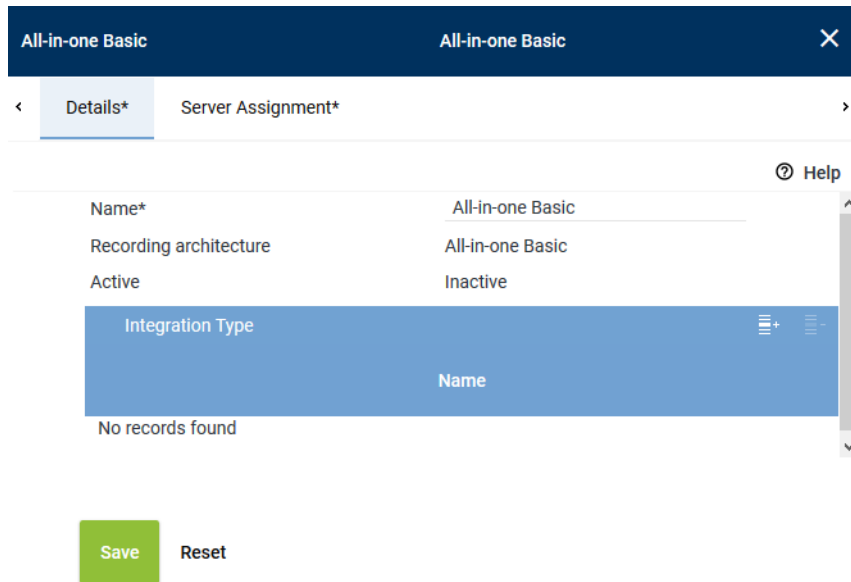


Fig. 6: Create recording architecture - All-in-one Basic Recording

- In the entry field *Name*, enter a descriptive name for the recording architecture.

3. From the drop-down list *Type*, select the recording architecture type *All-in-one Basic Recording*.  
**NOTICE!** The drop-down list only displays the supported recording architecture types.
4. Click on the button *OK*.  
 ⇒ Your entries now appear in the detail view.



**All-in-one Basic** All-in-one Basic X

< Details\* Server Assignment\* >

Help

Name\* All-in-one Basic

Recording architecture All-in-one Basic

Active Inactive


Integration Type

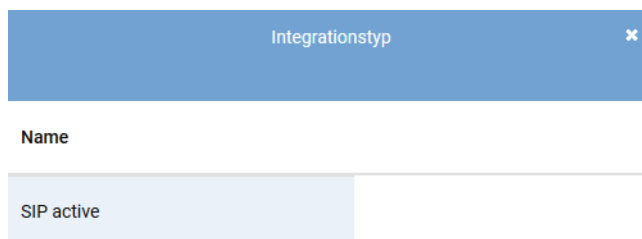
Name
No records found

Save Reset

Fig. 7: Recording architecture - tab Details

### Add integration type

1. Click on the icon  (*Add*) in the toolbar of the list *Integration Type*.  
 ⇒ The window *Integration Type* appears.



**Integrationstyp** X

Name

SIP active

Hinzufügen Abbrechen

Fig. 8: Select integration type



Only those integration types are displayed which have a license in the system and which support the selected architecture type.

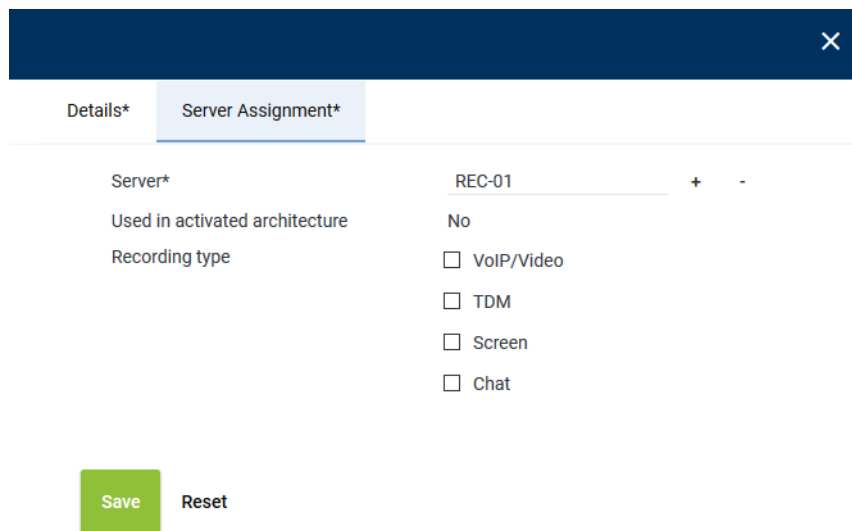


Any number of integration types can be assigned to a recording architecture.

- Select *SIP active* from the list of the available integration types and click on the button *Add*.  
⇒ The name of the integration type now appears in the list in the detail window.

### Assign server for All-in-one Basic

- Click on the tab *Server Assignment* to assign a recording server to the recording architecture..



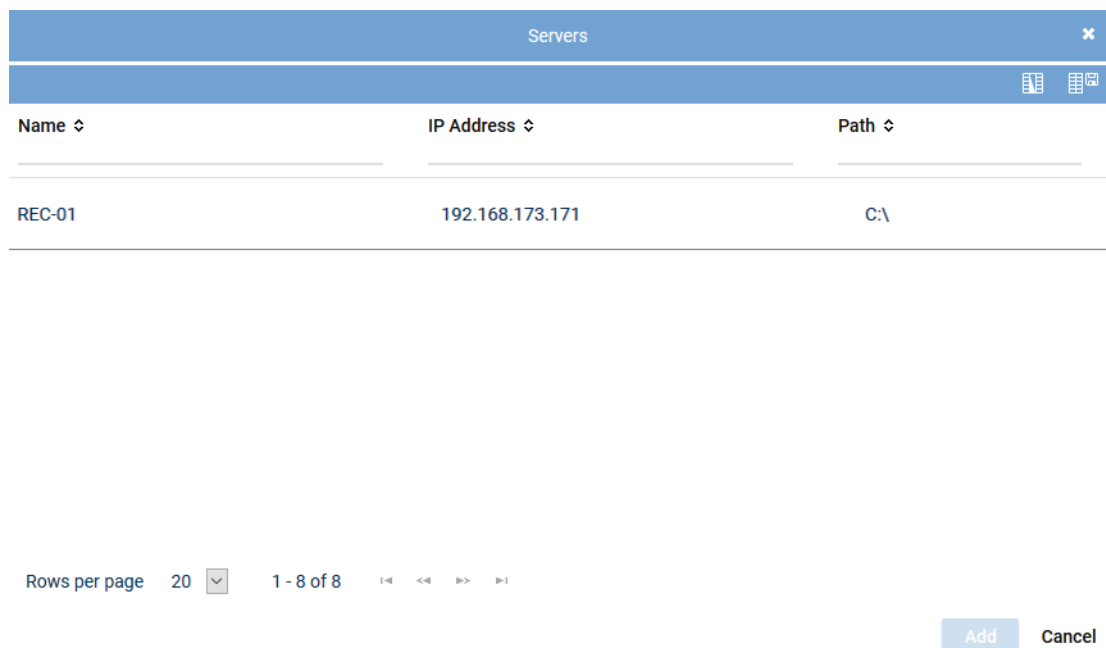
The screenshot shows a configuration window with a dark blue header and a close button (X). Below the header are two tabs: 'Details\*' and 'Server Assignment\*'. The 'Server Assignment\*' tab is active. It contains the following fields:

- Server\***: A text field containing 'REC-01' with '+' and '-' buttons to its right.
- Used in activated architecture**: A dropdown menu set to 'No'.
- Recording type**: A group of four checkboxes:
  - ☐ VoIP/Video
  - ☐ TDM
  - ☐ Screen
  - ☐ Chat

At the bottom of the tab are two buttons: a green 'Save' button and a grey 'Reset' button.

Fig. 9: Recording architecture - tab Server Assignment

- Click on the button **+** next to the entry field *Server*.  
⇒ The window *Servers* appears.



The screenshot shows a window titled 'Servers' with a blue header and a close button (X). Below the header are two icons: a list view icon and a grid view icon. The main area contains a table with the following columns: 'Name', 'IP Address', and 'Path'. The table has one row with the following data:

Name	IP Address	Path
REC-01	192.168.173.171	C:\

Below the table is a pagination bar showing 'Rows per page' set to 20, '1 - 8 of 8', and navigation arrows. At the bottom right of the window are two buttons: 'Add' and 'Cancel'.

Fig. 10: Recording architecture - assign server

- Select the respective server.





A server can be configured in several recording architectures, but you cannot activate several recording architectures with the same server at the same time. If you would like to activate several recording architectures at the same time, you have to use different servers to do so.

4. Click on the button *Add*.  
⇒ The name of the server appears in the detail view.
5. Activate the check boxes in front of the recording variants that you would like to use this server for.

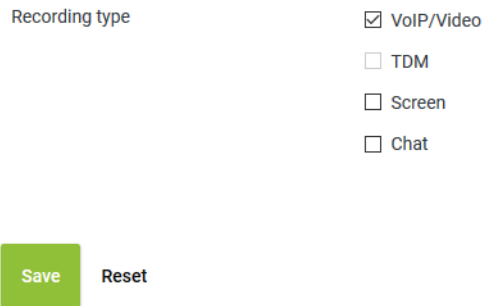





Fig. 11: Recording architecture - activate recording variant



You can activate several recording types if the integration has been designed for this and if you have installed the respective licenses.

### Activate recording architecture

1. Click on the button *Save*.
2. Select the recording architecture in the main view so that the icon  (*Activate*) in the tool-bar becomes active.
3. To activate the recording architecture, click on the icon  (*Activate*).  
⇒ In the column *Active*, the icon  (*Active*) appears.





Recording Architecture			
Name ▾	Type ▾	Active	Standby active ▾
All-in-one Basic	All-in-one Basic		

Fig. 12: Recording architecture - activate recording architecture

4. To deactivate the recording architecture, if required, click on the icon  (*Deactivate*).  
⇒ In the column *Active*, the icon  (*Inactive*) appears.



The recording architecture must have been activated so that the integration can be configured.



If you install an add-on for the integration subsequently, you must deactivate the recording architecture and activate it again after having installed the license.

#### 7.1.2.1.2 Configure server

Each server in your network on which the Neo software has been installed is recognized automatically as a server of the recording system and displayed in the Servers module. In the Servers module, you can configure the purpose of the servers of your recording system.

1. In the navigation bar, select the menu item *Setup > Servers*.

⇒ The following window appears:

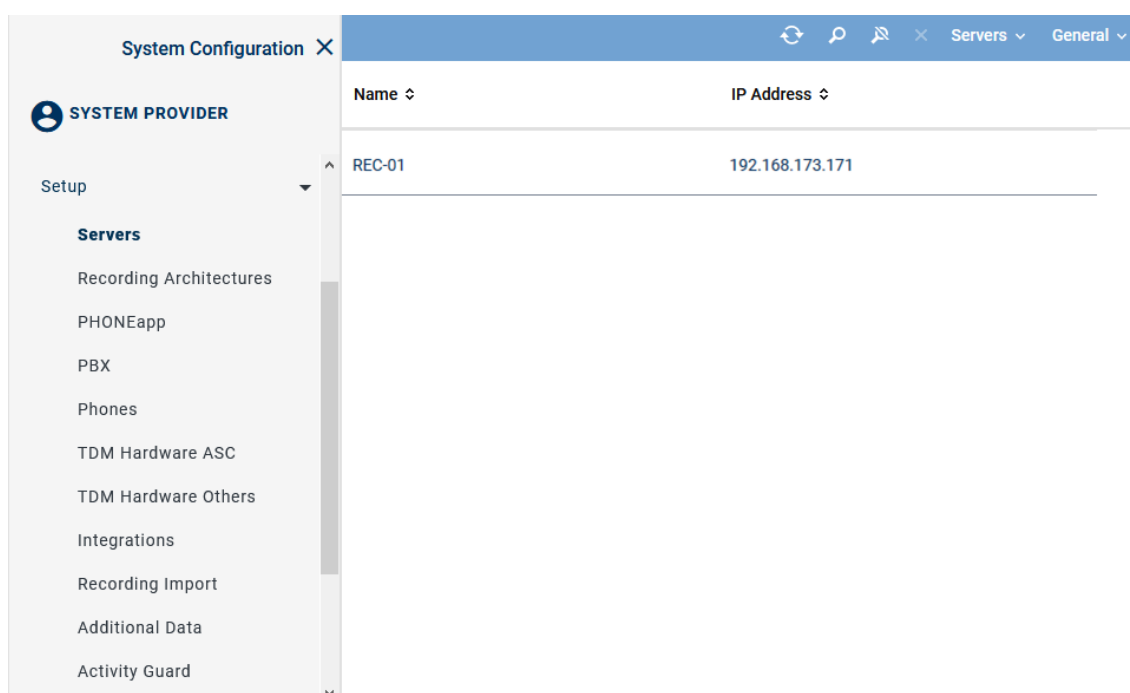


Fig. 13: Servers - main view

Depending on the configuration of the columns, the following information is displayed in the main view:

<i>Name</i>	Shows the name of the server.
<i>IP Address</i>	Shows the <a href="#">IP</a> address of the server.
<i>Path</i>	Shows the path of the server.
<i>Creation Date</i>	Date on which the server was installed.
<i>Updated</i>	Date on which the settings of the server were updated for the last time.

**NOTICE!** Hidden columns can be added by clicking on the menu item *General > Adjust Table*.

### Toolbar of the Servers module

The toolbar offers the following functions.

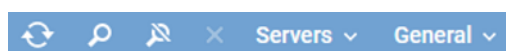







Fig. 14: Toolbar Servers module

	<i>Refresh</i>	Refreshes the main view.
	<i>Search</i>	Opens the window of the search function. The search function allows searching systematically for sets of data which meet certain criteria.  The icon  is displayed whenever the search has been adjusted by means of a filter.
	<i>Reset search</i>	Resets all search filters so that the main view displays all data sets again.
	<i>Delete</i>	Deletes the selected server configuration.  This functions serves the purpose of deleting the server configuration when the hardware of a server has been removed and there is no connection to the Neo system.

<i>Server</i>	<i>Administrate Server Locations</i>	Opens a window where you can set up and administrate the location of the servers, see <a href="#">chapter "Administrate server locations"</a> , p. 19.
	<i>Administrate NTP Server</i>	Opens a window in which you can administrate the servers for time synchronization.
	<i>Manage Synchronization Configurations</i>	Opens a window in which you can manage the synchronization configurations.
<i>General</i>	<i>Adjust Table</i>	Opens a window where you can adjust the following settings for the main view: <ul style="list-style-type: none"> <li>• <i>Displayed information</i></li> <li>• <i>Order of the displayed columns</i></li> <li>• <i>Number of rows per page</i></li> </ul>
	<i>General Help</i>	Opens the online help.
	<i>Module Help</i>	Opens the module-specific online help.



For detailed descriptions of the default functions such as *Search*, *Print*, *Adjust table* or *Help* refer to the user manual for system providers *General information - System Configuration*.

### Administrate server locations

You can create and manage a list of server locations. In the tab *Details*, you can assign locations to the servers.

#### Add server locations

- Click on the menu item *Servers > Administrate Server Locations* in the toolbar of the main view.  
⇒ The window *Server Locations* appears.

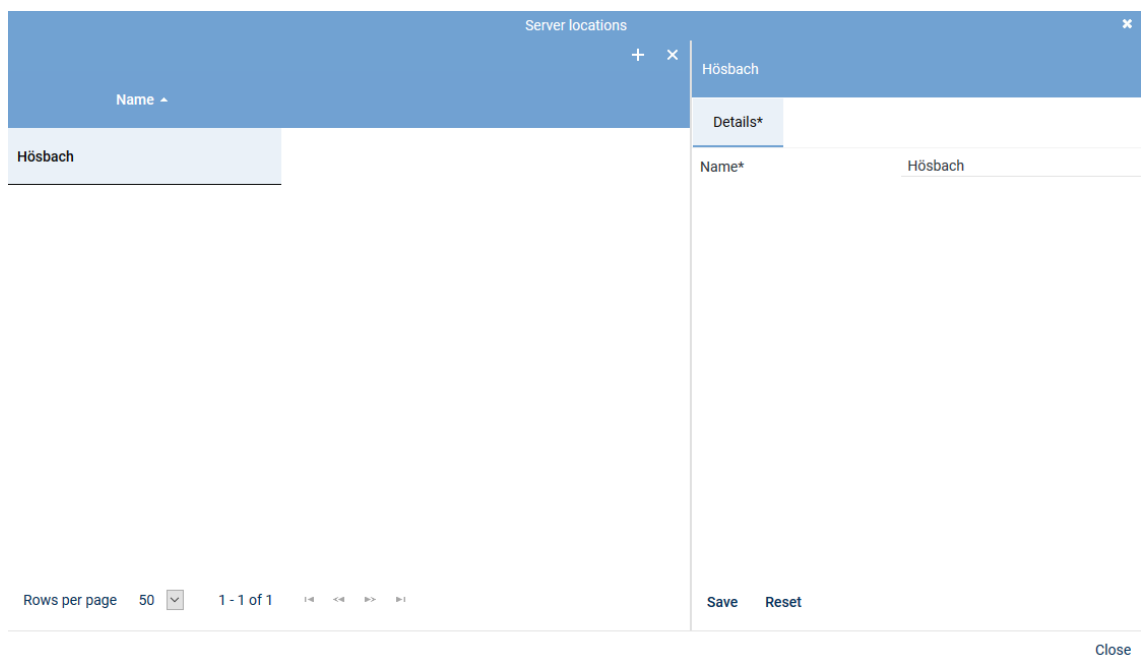



Fig. 15: Add server locations

- Click on the icon  (*Create*) in the toolbar of the window *Server Locations*.
- Enter the name of the location on the right side in the tab *Details*.

4. To save the entry, click on the button *Save*.  
To discard the entry, click on the button *Reset*.
5. To add further locations, repeat the last 3 steps.
6. To close the window, click on the button *Close*.

### Delete server location



A server location can only be deleted when it has not been assigned. To be able to delete a server location, you must first delete possible assignments.

1. Click on the menu item *Servers > Administrate Server Locations* in the toolbar of the main view.  
⇒ The window *Server Locations* appears.
2. Select the location you would like to delete.

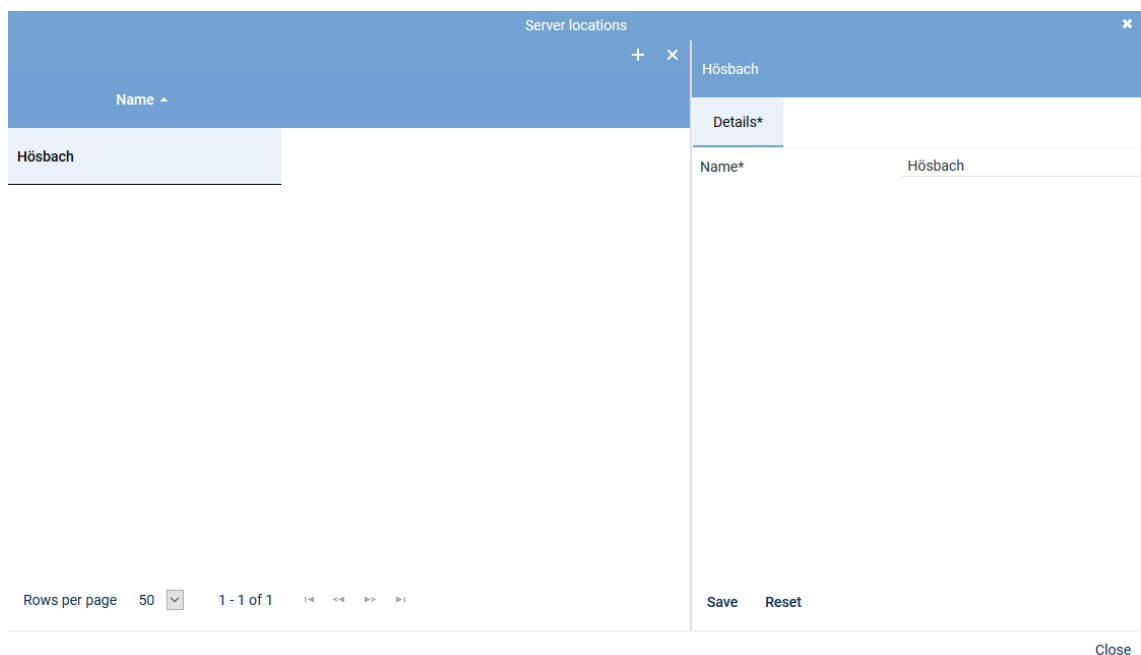



Fig. 16: Delete server location

3. Click on the icon  (*Delete*) in the toolbar of the window.
4. To delete further locations, repeat the last 2 steps.
5. To close the window, click on the button *Close*.

### Tab Details

1. To configure the server, select the entry of the corresponding server in the main view.  
⇒ In the detail view, the tab *Details* appears.  
The information *Name* and *Configured IP address* has already been entered during the installation and is displayed for your information only.

<
Details\*
Usage\*
Media Streamer
Replay Server Address Mapping
Key Ma >

? Help

Name	REC-01
Configured IP address	192.168.173.171
IP address*	192.168.173.171 <input type="button" value="v"/>
Server location	Hörsbach <input type="button" value="v"/>

Fig. 17: Servers - tab Details

- From the drop-down list, select the IP address which is supposed to be used as default address of the server in the system.
- Select the *Server location* in the drop-down list. The drop-down list displays all locations which have been created in the location management.
- Click on the button **Save** if the entries are correct.

### Tab Usage

- Click on the tab *Usage* to configure the intended purpose.



As a server may be used for several recording solutions, all intended purposes are displayed. Note that some intended purposes do not apply for certain recording solutions. In chat recording, for instance, audio analysis or replay via phone cannot be used.

<
Details\*
Usage\*
Media Streamer\*
Replay Server Address Mapping
Key M. >

API Server	▶
Audio Analysis	▶
Recording Control/Key Management	▶
Data Processing	▶
Replay	▶
Virtualization	▶

Fig. 18: Servers - tab usage

### Group field API Server

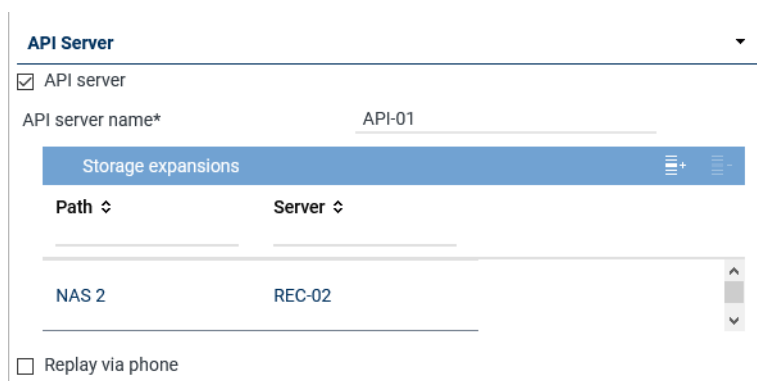




Fig. 19: Group field API Server

The ASC API Server is a service within the Neo software.


The ASC API Server offers the interface for the client applications to communicate with the Neo system.

Furthermore, the ASC API Server is required for replay by means of the web applications. Not until the ASC API Server has started, can the replay server be activated and the corresponding ASC API Server assigned for replay in the web applications.


Parameter	Value/Description
<i>API server</i>	<p>Activate the check box to start the ASC API Server.</p> <p><input checked="" type="checkbox"/> = Function has been activated. You have to complete the entry field <i>API server</i>.</p> <p><input type="checkbox"/> = Function has not been activated.</p> <p>To be able to reach the ASC API Server from a public network and with configured port forwarding, too, you have to adjust the settings in the tab <i>Replay Server Address Mapping</i>, see <a href="#">chapter "Tab Replay Server Address Mapping", p. 32</a>.</p>
<i>API server name</i>	<p>Enter the name which is supposed to denote the server in the system. The displayed name can be selected arbitrarily and is a kind of pseudonym.</p> <p>The displayed name is meant to make it easier for users to select a server as different API servers may be used across the system by different tenants. When selecting the API server, these pseudonyms are displayed on the client computers instead of the real server name or the IP address.</p>
<i>List Storage expansions</i>	<p>Here, you can add storage expansions for replay. If a recording which is supposed to be replayed cannot be found on the server, the search is continued on the storage expansions which have been entered here. That way, even recordings can be replayed which have not been transferred to the server.</p> <p>If the function <i>Replay</i> has been activated, you can adjust the following settings:</p> <ul style="list-style-type: none"> <li>By clicking on the icon  (<i>Add</i>), you can add storage expansions, see <a href="#">chapter "Add storage expansion for replay", p. 23</a>.</li> <li>By clicking on the icon  (<i>Remove</i>), you can remove storage expansions from the list.</li> </ul>

Parameter	Value/Description
	<p>If you use several recording servers in your system for which storage expansions have been configured, you can add any storage expansion of any recording server on every API server of the system.</p>
<i>Replay via phone</i>	<p>Activate this function if you would like to use the functions <i>Replay via phone</i> or <i>Last Call Repeat</i>.</p> <p><input checked="" type="checkbox"/> = Function has been activated.  <input type="checkbox"/> = Function has not been activated.</p> <p><b>NOTICE!</b> The function <i>Replay via phone</i> has been implemented in the following Neo components:</p> <ul style="list-style-type: none"> <li>• Application POWER<u>play</u> Pro</li> <li>• Application POWER<u>play</u> Instant</li> <li>• Replay module</li> </ul> <p>In order to enable a client to use the functionality <i>Replay via phone</i>, you have to assign this client an identifier either in the Employees module or in the Phones module which allows the system to clearly identify the phone.</p> <p><b>NOTICE!</b> In the tab <i>Media Streamer</i>, you have to assign this function to a <b>PBX</b>, see <a href="#">chapter "Tab Media Streamer", p. 30</a>. To be able to do so, at least 1 <b>PBX</b> must have been configured in the system.</p>

### Add storage expansion for replay

1. Click on the icon  (*Add*) in the toolbar of the list.
2. Select 1 or several storage expansions.  
 If you would like to select several storage expansions or revoke a selection, click on the respective line while holding the [Ctrl] key down.

Storage Expansion for Replay				
Device Type ↕	Name ↕	Path ↕	Free Disk Space ↕	Server ↕
NAS	NAS 2	NAS 2	<div></div>	REC-02

Rows per page: 20  1 - 1 of 1    << < > >>

Add Cancel

Fig. 20: Select storage expansion

- To apply the selected storage expansions, click on the button *Add*.  
To discard the selection and close the window, click on the button *Cancel*.

### Group field Audio analysis

**Audio Analysis**

☒ Emotion detection

Stream audio data from\* REC-01 + -

Fig. 21: Group field Audio Analysis

Parameter	Value/Description
<i>Emotion detection</i>	<p>Activate this check box to activate emotion detection for audio analysis.</p> <p><input checked="" type="checkbox"/> = Function has been activated. Tenants can use the emotion detection function.</p> <p><input type="checkbox"/> = Function has not been activated.</p>
<i>Stream audio data from</i>	<p>If the function emotion detection has been activated, the parameter to select the respective server becomes active.</p> <ul style="list-style-type: none"> <li>Click on the button <b>+</b> to select the server from which the audio data is supposed to be streamed for emotion detection from the list of available servers.</li> </ul>

Tab. 3: Configure audio analysis

Emotion Detection ✕

📋

Name ↕

REC-01

Rows per page 20 ▼ 1 - 8 of 8 1-8 << >> 1-8

Add Cancel

Fig. 22: Select server for emotion detection

- Click on the button *Add* to apply the selected server.

### Group field Recording Control/Key Management

**Recording Control/Key Management** ▼

☐ Recording control/Live Streaming

Recording architecture Please choose... ▼

☐ Neo key management

Fig. 23: Group field Recording Control/Key Management



Parameter	Value/Description
<i>Recording control/ Live Streaming</i>	This recording solution does not support external recording control.
<i>Neo key management</i>	<p>This function serves for customer-specific recording encryption. To be able to configure the conditions for key management, activate the check box <i>Neo key management</i>.</p> <p>The function can only be activated if the license <code>ASC_KEY_MANAGEMENT</code> is available.</p> <p>For more information about the configuration of key management refer to the administration manual <i>Configuration server and recording architectures</i> and to the installation manual <i>Installation Dongle Manager</i>.</p>

Tab. 4: Configure recording control/key management

### Group field Data Processing

**Data Processing** ▼

☒ Data storage

☐ Transfer data for replay

Target Server

Name	IP Address ↕
No records found	

☒ Transfer data for data storage

Target Server

Name	IP Address ↕
No records found	

Activate period of time ☒

Start

End

Receives data from

Name	Only Replay
No records found	

☐ Archiving

☒ Export







Replay server

☒ Import

Recording architecture

Fig. 24: Group field Data Processing

Parameter	Value/Description
<i>Data storage</i>	Activate the check box to make additional functions of data processing available for editing.
<i>Transfer data for replay</i>	<p>Activate the check box if you would like to transfer the data to another server for replay purposes only.</p> <p>If the function has been activated, you can add a server to the list</p>

Parameter	Value/Description
	<p><i>Target Server</i> to which the recorded data is supposed to be transferred for replay purposes. The data is not saved on the target server but only buffered in a cache for replay purposes.</p> <ul style="list-style-type: none"> <li>By clicking on the icon  (<i>Add</i>), you can add the target server, see <a href="#">chapter "Add target server to a list"</a>, p. 27.</li> <li>By clicking on the icon  (<i>Remove</i>), you can remove target servers from the list.</li> </ul> <p><b>NOTICE!</b> Only those servers are displayed for which an API server and a replay server have been configured.</p>
<i>Transfer data for data storage</i>	<p>Activate the check box if you would like to transfer the data to be saved on another server.</p> <p>If the function has been activated, you can select a server in the list <i>Target Server</i> to which the recorded data is supposed to be transferred to be saved. The drop-down list displays all servers on which the function <i>data storage</i> has been activated. The data is copied to the target server and saved there.</p> <ul style="list-style-type: none"> <li>By clicking on the icon  (<i>Add</i>), you can add the target servers, see <a href="#">chapter "Add target server to a list"</a>, p. 27.</li> <li>By clicking on the icon  (<i>Remove</i>), you can remove target servers from the list.</li> </ul> <p><b>NOTICE!</b> Only those servers are displayed for which the function <i>data storage</i> has been activated.</p> <p>If the function has been activated, you can activate the transfer for a certain period of time.</p> <ul style="list-style-type: none"> <li><i>Activate period of time</i> <input checked="" type="checkbox"/> = Function activated. The fields to enter a time become active. Select the time for from – to by means of the rotating field.</li> <li><i>Activate period of time</i> <input type="checkbox"/> = Function not activated.</li> </ul> <p><b>NOTICE!</b> Once the function has been configured, the data can be replayed on the target server. If replay is requested, the data is buffered in the working memory of the target server even if the transfer for data storage has not been completed.</p> <p><b>NOTICE!</b> For distributed systems with a slower network connection, the storage interval for data transfer may be adjusted. The storage interval for data transfer must be configured by an ASC service technician or by an authorized partner.</p>
<i>Receive data from</i>	<p>This table displays servers which transfer data to this server.</p> <p>The column <i>Name</i> displays the server name from which data is transferred.</p> <p>The column <i>Only Replay</i> displays the purpose of the transfer:</p> <p> = Data is transferred for replay only.</p> <p> = Data is transferred for data storage.</p>
<i>Archiving</i>	<p>Activate the check box <i>Archiving</i> if you would like to use the server for archiving purposes.</p>
<i>Export</i>	<p>Activate the check box <i>Export</i> to allow the export from this server.</p>



### Group field Replay

**Replay**

☒ Replay

Replay server\*

WebSocket port\* 
  
(max. 5 characters)

API server\*


+


-

Name

Connection Status

Fig. 26: Group field Replay

Parameter	Value/Description
<i>Replay</i>	<p>A replay server can replay recordings via the integrated <i>Replay Feature</i>. Only data which has either been recorded directly on this server or which has been transferred to this server for data storage or only for replay purposes can be replayed. The client computers of the system can connect to a replay server for replay purposes.</p> <p>Activate the check box <i>Replay</i> to be able to use the replay function of the players and the phones.</p> <p><input checked="" type="checkbox"/> = Function has been activated. You have to complete the entry field <i>Replay server</i>.</p> <p><input type="checkbox"/> = Function has not been activated.</p>
<i>Replay server</i>	<p>If the function has been activated, you can enter a displayed name which is supposed to denote the server as the replay server in the system in the entry field <i>Replay server</i>. The displayed name can be selected arbitrarily and is a kind of pseudonym. As the replay server and the <a href="#">API</a> server must not be identical, you can select different pseudonyms.</p> <p>The displayed name is meant to make it easier for users to select a server as different replay servers may be used across the system by different tenants. When selecting the replay server, these pseudonyms are displayed on the client computers instead of the real server name or the IP address.</p> <p>In order to be able to reach the server activated for replay from a public network and with configured port forwarding, you have to set the configuration in the tab <i>Replay Server Address Mapping</i>. For further details about the configuration refer to the administration manual <i>Configuration of servers and recording architectures</i>.</p>
<i>WebSocket port</i> (maximum of 5 characters)	<p>Enter the port via which the data to be replayed in <a href="#">POWERplay Web</a> are supposed to be transmitted.</p>
<i>List</i> <i>API server</i>	<p>Here, you can add <a href="#">API servers</a> that the replay server may use. If a recording which is supposed to be replayed cannot be found on a server, the search is continued on the <a href="#">API servers</a> which have been entered here.</p> <p>If the function <i>Replay</i> has been activated, you can adjust the following settings:</p> <ul style="list-style-type: none"> <li>By clicking on the icon  (Add), you can add the <a href="#">API server</a>, see <a href="#">chapter "Add API server to a list"</a>, p. 29.</li> </ul>

Parameter	Value/Description
	<ul style="list-style-type: none"> <li>By clicking on the icon  (Remove), you can remove selected <a href="#">API servers</a> from the list.</li> </ul>

Tab. 6: Configure replay

### Search and replay functions



To be able to use the search and replay functions via [LCR](#) as well as to use replay via phone, you have to create the users with the respective access rights in the application System Configuration in the Employees module. For information about the configuration refer to the administration manual *User management* for tenants.

### Add API server to a list

The replay server required the services of an [API](#) server. The configuration must be as follows:


- If the replay server runs on a server with a local [API](#) server, it must not necessarily be assigned as the replay server always addresses the local [API](#) server first.
  - If the replay server runs on a separate server, you must assign at least one [API](#) server that the replay server can address.
  - If several [API](#) servers are available in the network, you can assign further [API](#) servers in addition to the local [API](#) server. The assigned [API](#) servers are addressed in order. For this reason, the local [API](#) server should always be first in the list.
- To assign an [API](#) server, click on the icon  (Add) in the toolbar of the list *API Server*.
  - Select the server from the list on which the [API](#) service is running.



Fig. 27: Select server



Only those servers are available on which the [API](#) service has been installed and activated. See [chapter "Group field API Server", p. 22](#).

- To apply the selected servers, click on the button *Add*.  
To discard the selection and close the window, click on the button *Cancel*.

### Group field Virtualization

#### Virtualization

☐ VM without Trusted License

Fig. 28: Group field Virtualization

Parameter	Value/Description
<i>VM without Trusted License</i>	<p>This functionality can only be activated if the system runs in a virtual environment and if no <i>TRUSTED_VIRTUALIZATION</i> license has been installed.</p> <p>When you tick the check box <i>VM without Trusted License</i>, the tab <i>Keystore/Virtualization</i> becomes active and must be completed.</p> <p>There, you can configure the following options:</p> <ul style="list-style-type: none"> <li>• <i>licensing.asc.de</i> If you enter this domain, there is no key management.</li> <li>• <i>IP address of the DongleMan</i> If you enter the IP address of the Dongle Manager, you can activate key management.</li> </ul>

Tab. 7: Configure virtualization



For detailed information about how to configure virtualization and key management refer to the administration manual *Encryption of recordings*.



For *virtualization* without an Internet connection, a Trusted License is required.

1. To save the entries, click on the button *Save* in the detail view.  
To reset the entries, click on the button *Reset* in the detail view.

### Tab Media Streamer

1. Click on the tab *Media Streamer* in the detail view.

In this tab, you can configure the Media Streamer for the functionalities *Replay via phone* and *Last Call Repeat Facility*.



The tab *Media Streamer* is only active if the function *Replay via phone* has been activated in the tab *Usage*.

<
Details\*
Usage\*
Media Streamer\*
Replay Server Address Mapping
Key M. >

PBX +

PBX	PBX	▼
Extension* (max. 18 characters)	123456	
Media streamer IP address*	192.168.169.192	▼
Minimum port	24000	
Maximum port	24099	
Transport protocol	UDP	▼
SIP signaling port	5062	
User name		
Password		
PBX IP address		
PBX port	5060	
Registration required	<input checked="" type="checkbox"/>	
SIP registration expiration	3600	Second(s)

Save
Reset

Fig. 29: Servers module - tab Media Streamer

2. Enter the following parameters:

<b>PBX</b>	<p><b>PBX</b> that the Media Streamer is supposed to be mapped to.</p> <p>Select a <b>PBX</b> from the drop-down list. The drop-down list displays all <b>PBXs</b> which have been created in the system.</p> <p>If no <b>PBX</b> has been created in the system yet, you can create a <b>PBX</b> via the blue bar <b>PBX</b>.</p>
<b>Extension</b>	<p>Extension which is supposed to be mapped to the Media Streamer. This is a mandatory field; the configuration cannot be saved if this information is missing.</p> <p>If an external analog gateway has been integrated, enter the value <b>8000</b>.</p>
<b>Media streamer IP address</b>	<p>IP address which is supposed to be used for the exchange of the audio data and for the <b>SIP</b> communication.</p> <p>Select an IP address from the drop-down list. The drop-down list displays all IP addresses of the server.</p>
<b>Minimum port</b>	<p>Enter the minimum port which is supposed to be used for the audio data exchange.</p> <p>Enter an even number.</p>
<b>Maximum port</b>	<p>Enter the maximum port which is supposed to be used for the audio data exchange.</p> <p>Enter an uneven number.</p> <p>A port range of 100 (e. g. 24000-24099) is sufficient for 50 licenses. The port range should be twice as wide as the number of available licenses.</p> <p><b>NOTICE! The port range must not have less than 64 ports.</b></p>

<i>Transport protocol</i>	<p>From the drop-down list, select the transport protocol type you would like to use for the <b>SIP</b> communication.</p> <p><b>TCP</b> = unencrypted  <b>UDP</b> = unencrypted  <b>TLS</b> = encrypted</p> <p>If an external analog gateway has been integrated, select <b>UDP</b> in the drop-down list.</p>
<i>SIP signaling port</i>	<p>Enter the port for the <b>SIP</b> communication.</p> <p>Port for data exchange: 5062</p>
<i>User name</i>	Enter the user name for the authentication on the <b>SIP</b> server.
<i>Password</i>	Enter the password for the authentication on the <b>SIP</b> server.
<i>PBX IP address</i>	Enter the IP address of the <b>SIP</b> registrar of the <b>PBX</b> .
<i>PBX port</i>	<p>Enter the port of the <b>SIP</b> registrar of the <b>PBX</b>.</p> <p>If an external analog gateway has been integrated, enter the value 5060.</p>
<i>Registration required</i>	<p>Select whether the <b>SIP</b> extension has to be registered with the <b>SIP</b> registrar of the <b>PBX</b>.</p> <p><input checked="" type="checkbox"/> = <b>SIP</b> extension has to be registered.  <input type="checkbox"/> = <b>SIP</b> extension does not have to be registered.</p> <p>If an external analog gateway has been integrated, deactivate the check box <i>Registration required</i>.</p>
<i>SIP registration expiration</i>	Enter the time interval after which the registration has to be repeated.

### Tab Replay Server Address Mapping

1. Click on the tab *Replay Server Address Mapping* in the detail view.

In this tab, you can configure the replay server address mapping. This address mapping is required for servers which have been activated for replay to be able to reach them from a public network and with configured port forwarding.



The tab *Replay Server Address Mapping* is not active unless you have activated the function *Replay* in the tab *Usage*.

<
Details\*
Usage\*
Media Streamer
Replay Server Address Mapping
>

**Replay Server Addresses**

Remove Replay Server Addresses

Internal Address of the Replay Server (IP/Port or DNS)  :

Internal download URL

External Address of the Replay Server (IP/Port or DNS)  :

External download URL

Save
Reset


Fig. 30: Servers module - tab Replay Server Address Mapping



### Group field Replay Server Addresses

1. Enter the following parameters:

<i>Internal address of the replay server (IP/Port or DNS)</i>	Enter either the <b>IP</b> address and the port or the DNS name under which the replay server can be reached.
<i>Internal download URL</i>	Enter the <b>URL</b> under which the replay server can be reached internally, e. g.:  https://example.company.com/
<i>External address of the replay server (IP/Port or DNS)</i>	Enter either the <b>IP</b> address and the port or the DNS name under which the replay server can be reached via the browser from outside the local network. When entering the external address take into consideration whether the <b>SSL</b> certificate has been issued for an IP address or a <b>DNS</b> address. In the latter case, entering the <b>DNS</b> name is mandatory; otherwise the certificate check in the replay application will fail.
<i>External download URL</i>	Enter the <b>URL</b> under which the replay server can be reached via the browser from outside the local network, e. g.:  https://example.company.com/  When entering the external address take into consideration whether the <b>SSL</b> certificate has been issued for an IP address or a <b>DNS</b> address. In the latter case, entering the <b>DNS</b> name is mandatory; otherwise the certificate check in the replay application will fail.

If you would like to remove the addresses, click on the button  in the title bar of the group field.



If address mapping has been configured, the replay server receives the configured address and the configured port.

If address mapping has not been configured, the replay server receives the IP address and the default port **4040** as entered in the tab *Details*.



To allow the users of the respective tenant to access the replay server via the browser, an internal address and/or an external IP address or a DNS name must be configured in the Tenants module.



For information about the configuration refer to the administration manual for tenants *User management tenant*.

### Tab Key Management

1. Click on the tab *Key Management* in the detail view.

In this tab, you can configure the settings for the Neo key management. This tab is only active if you have installed the corresponding license and enabled the function *Neo Key Management* in the tab *Usage*.

< Usage\* Media Streamer\* Replay Server Address Mapping
Key Management >

Key creation interval

☒ All

365 Day(s)

☐ Create key manually

Delay usage

until

0 Day(s)

0 Hour(s)

☐ Key expiration date

after

0 Day(s)

☒ In case of an error switch to simple key management automatically

Save

Reset

Fig. 31: Servers module - tab Key Management

<i>Key creation interval</i>	<p>Select whether a key is supposed to be generated automatically or manually. Select one of the following options:</p> <ul style="list-style-type: none"> <li>• <i>All</i> Select the intervals in which a new key is supposed to be generated automatically. Possible time interval: 1 to 365 days Default value: 365 days</li> <li>• <i>Create key manually</i> Select that a key is supposed to be generated manually.</li> </ul> <p>Old keys which are no longer used for encryption become inactive for the time being. They remain in the database, though, since they are still required for the decryption of old recordings.</p>
<i>Delay usage</i>	<p>If required, enter a time interval during which the new key is not supposed to be used yet after having been created. Not until after this time interval has passed can the key be actually used for encryption.</p> <p>Possible time interval: 0 to 14 days Default value: 0 days (new keys are immediately used for encryption)</p> <p>A delay guarantees that the key has been captured by a database backup before it will actually be used.</p>
<i>Key expiration date</i>	<p>Select whether an inactive key is supposed to become invalid after the expiration of the time interval defined here.</p> <p><input type="checkbox"/> = Key never becomes invalid.</p> <p><input checked="" type="checkbox"/> = Key becomes invalid. In the entry field, enter the time interval after which the key loses its validity. Once this time interval has passed, the key cannot be used anymore. If recording data must be deleted after a certain period of time, this option offers additional security on top of the configured date of deletion. This especially applies to the case when recording data has been transferred manually to a storage location where the deletion mechanism of the system cannot find it.</p>

**CAUTION!** All recordings which have been encrypted with a key which has meanwhile become invalid are useless and cannot be replayed anymore.

*In case of an error ... automatically*

Select whether simple key management is supposed to be used if the Neo key management does not work (e. g. if the service *DongleMan* fails). If you have not activated the option, no recording takes place as long as the Neo key management has been activated but does not work.

☒ = In case of an error, simple key management is used as replacement.

☐ = In case of an error, no recording takes place as long as the Neo key management has been activated. In this case, disable key management in the tab *Usage*.



On top of the settings in this tab, each tenant who would like to use the Neo key management has to define individual settings in his own user management (Tenants module).



For information about the configuration refer to the administration manual for tenants *User management tenant*.

### Tab Keystore/Virtualization

1. Click on the tab *Keystore/Virtualization* in the detail view.

In this tab, you can configure the connection data to the service *DongleMan* for key management and authentication of the *VMware*.

The tab *Keystore/Virtualization* is not active unless you have activated the function *VM without Trusted License* in the tab *Usage*. I. e. that you have not installed the licenses locally but would like to manage the licenses via an Internet connection by means of ASC license management.

#### For key management there are the following options:

- *Dongle*  
You can continue to use your existing dongle. The Dongle Manager reads out the encryption password from the dongle.  
In this case, no separate configuration is required.  
In a virtualized environment, the USB port that the dongle has been plugged in to must have been assigned to the server that the Dongle Manager runs on.
- *Dongle Manager*  
In the current version, the Dongle Manager reads out the encryption password directly from the database. To enable this, you must enter the connection data to the server that the Dongle Manager runs on.
- *ASC License Management System*  
**NOTICE! License Management does not support encryption.**

#### For licensing, there are the following options:

*Without Internet access:*

- *Dongle*  
Without Internet access you can continue to use your dongle for authentication purposes. In a virtualized environment, the USB port that the dongle has been plugged in to must have been assigned to the server that the VMware has been installed on.  
In this case, no separate configuration is required.

- *Trusted Virtualization License*

Alternatively, you can install a *Trusted Virtualization License* to authenticate licensing; you do not require Internet access for this.

In this case, no separate configuration is required.

*With Internet access:*

- *ASC License Management System*

You can establish a connection to ASC's license management via the Internet. To do so, you must enter the connection data *licensing.asc.de* in this tab.

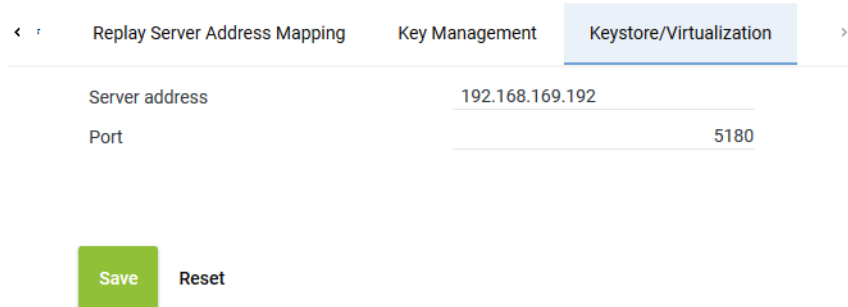


Fig. 32: Servers module - tab Keystore/Virtualization

<b>Server address</b>	<p>Enter the address of the server for the connection.</p> <ul style="list-style-type: none"> <li>• If you use the hardware with Neo key management: IP address of the server where the service <i>DongleMan</i> has been installed.</li> <li>• If you use the <b>VM</b> with dongle without Neo key management: IP address of the server where the service <i>DongleMan</i> has been installed.</li> <li>• If you use the <b>VM</b> without Neo key management, you can authenticate the <b>VM</b> via ASC License Management System, too. In this case, enter the following address: <i>licensing.asc.de</i></li> <li>• If you use the <b>VM</b> with <i>TRUSTED_VIRTUALIZATION</i> license and Neo key management: IP address of the server where the service <i>DongleMan</i> has been installed.</li> </ul>
<b>Port</b>	<p>Enter the port for the connection.</p> <p>5180 = Dongle Manager</p> <p>8181 = ASC License Management System</p>



For detailed information about how to configure virtualization and key management refer to the administration manual *Encryption of recordings*.

1. To save the settings, click on the button *Save*.  
To discard the settings, click on the button *Reset*.

### 7.1.2.1.3 Create PBX

The PBX can either be configured via the PBX module or via the Integrations module.

In this configuration step, the parameters for the PBX are configured, e. g. the name, the area code and the net code.

1. Select the menu item *Setup > PBX* in the navigation bar.

⇒ The following window appears:

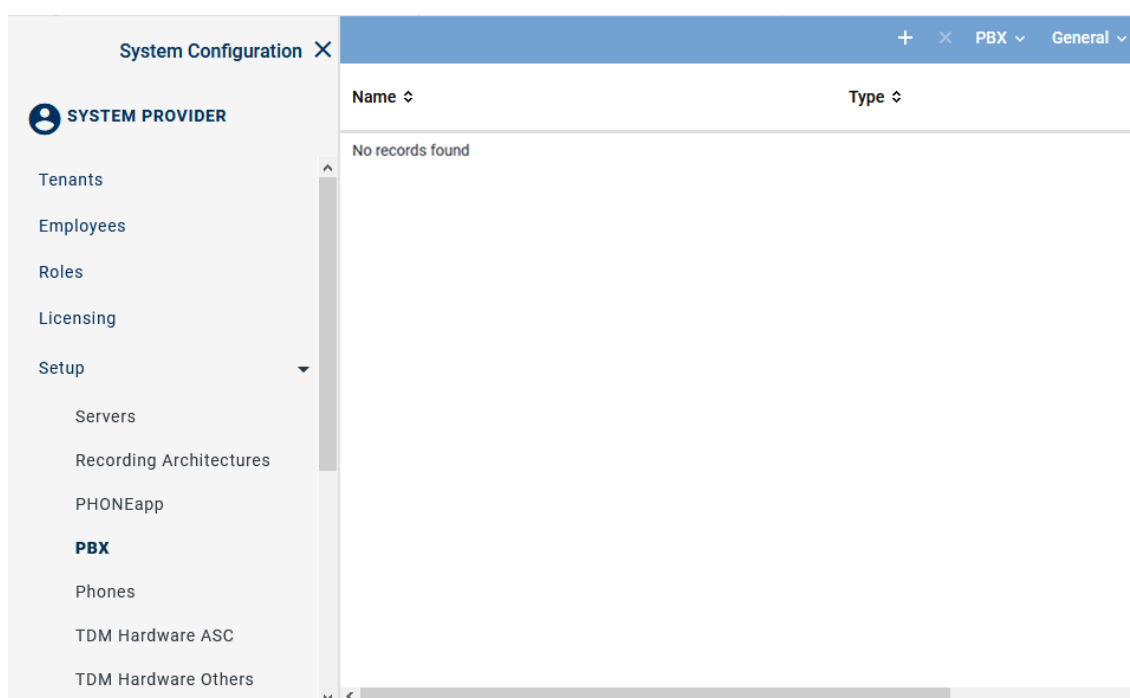


Fig. 33: PBX module - main view

### Toolbar of the PBX module

The toolbar offers the following functions.

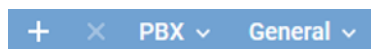





Fig. 34: Toolbar PBX module

	<i>Create</i>	In the detail view, you can enter the parameters of the new PBX.
	<i>Delete</i>	Deletes the selected PBX configuration. A PBX can only be deleted if it is not used in any configuration.
<i>PBX</i>	<i>Phone Configuration</i>	Opens a window in which you can create and configure phones.
	<i>Administratre Unused Extensions</i>	Opens a window in which you can delete extensions that are not used in any configuration.
<i>General</i>	<i>Print</i>	Prints the table of the main view.
	<i>Adjust Table</i>	Opens a window in which you can adjust the following settings for the main view: <ul style="list-style-type: none"> <li>• <i>Displayed information</i></li> <li>• <i>Order of the displayed columns</i></li> <li>• <i>Number of rows per page</i></li> </ul>
	<i>General Help</i>	Opens the online help.
	<i>Module Help</i>	Opens the module-specific online help.



For detailed descriptions of the default functions such as *Search*, *Print*, *Adjust table* or *Help* refer to the user manual for system providers *General information - System Configuration*.

### Create new PBX

- Click on the icon  (*Create*) in the toolbar of the main view of the PBX module.  
⇒ In the detail view, the tab *Details* appears.

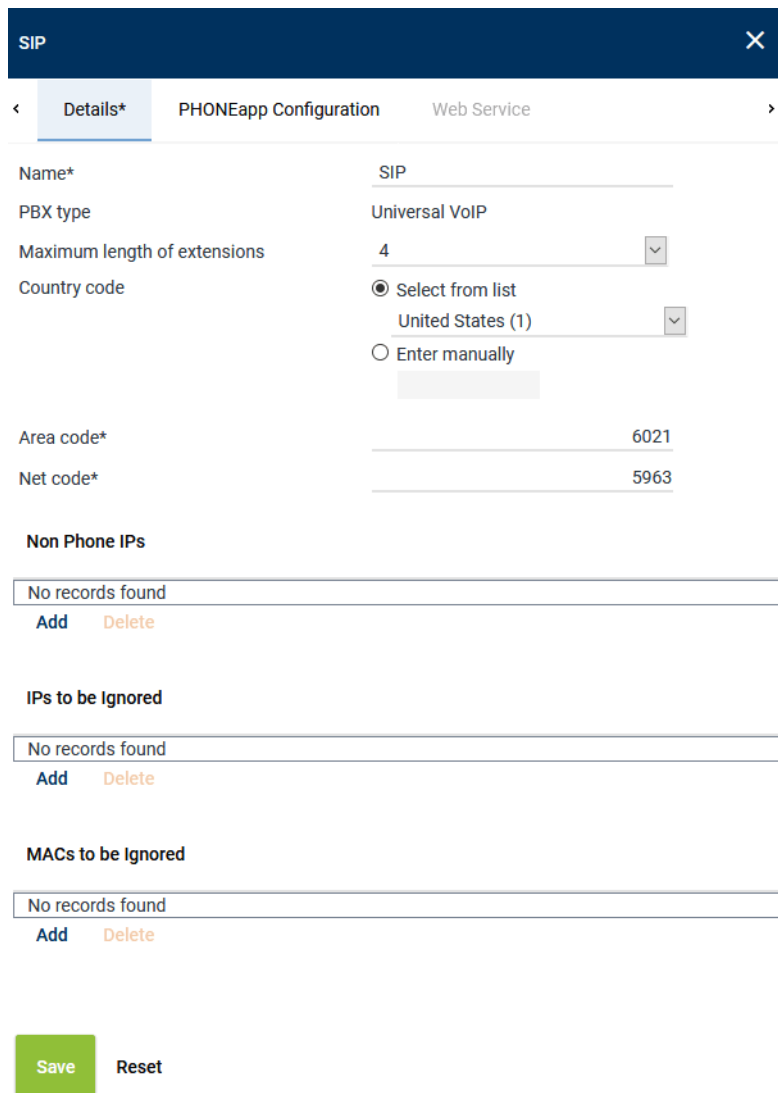


Fig. 35: Create new PBX - tab Details

- Set the following parameters in the detail view:

Parameter	Value/Description
<i>Name</i>	This <i>name</i> serves as the identifier of this PBX.
<i>PBX type</i>	Select the type of the <b>PBX</b> from the drop-down list.
<i>Maximum length of the extensions</i>	Enter the number of digits of the extensions, e. g. 4.
<i>Country code</i>	Select the option for the country code: <ul style="list-style-type: none"> <li><i>Select from list</i> Select the country code from the drop-down list.</li> <li><i>Enter manually</i> If the corresponding country code is not available in the drop-down list, you can enter the 3-digit code manually. e. g. for Sri Lanka 094.</li> </ul>
<i>Area code</i>	Enter the area code without the preceding 0, e. g. 6021.

Parameter	Value/Description
<i>Net code</i>	Enter the net code, e. g. 5963. Do not enter an extension here.

Tab. 8: Create PBX

If you would like to display the complete phone number, e. g. if you use more than one PBX, several area codes, or if you would like to record mobile phones, you have to configure the value 0 in the following parameters:

Parameter	Value/Description
<i>Maximum length of the extensions</i>	Enter the number 0 in the field maximum length of the extensions to display the complete phone number.
<i>Area code</i>	Enter the number 0 as area code to display the complete phone number.
<i>Net code</i>	Enter the number 0 as net code to display the complete phone number.

Tab. 9: PBX parameters with complete phone number

- To save the settings, click on the button *Save*.  
To discard the settings, click on the button *Reset*.

#### 7.1.2.1.4 Assign recording resources

##### Resources for tenants

In multi-tenant systems, you have to assign each tenant its own recording resources.

Depending on the recording type, agents can be assigned to the recording resource via the extension, via the PBX Agent ID or via the chat ID. Within one tenant, you can configure all three possibilities. For information about the configuration of chat systems refer to the respective manual.

##### Resources for employees

In systems deploying several PBXs, you can assign employees the recording resources of different PBXs.



For information about the configuration refer to the administration manual for tenants *User management tenant*.

##### Assign extensions to tenants

If you would like to assign resources based on extensions, you can assign the tenant the extensions intended for recording in the Tenants module.

- Select the menu item *Tenants* in the navigation bar.

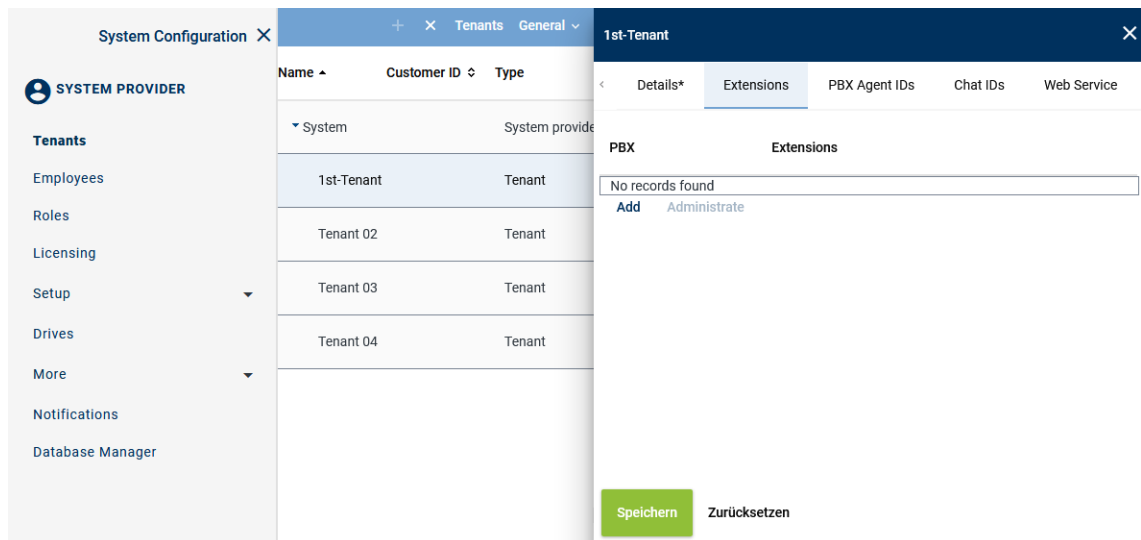
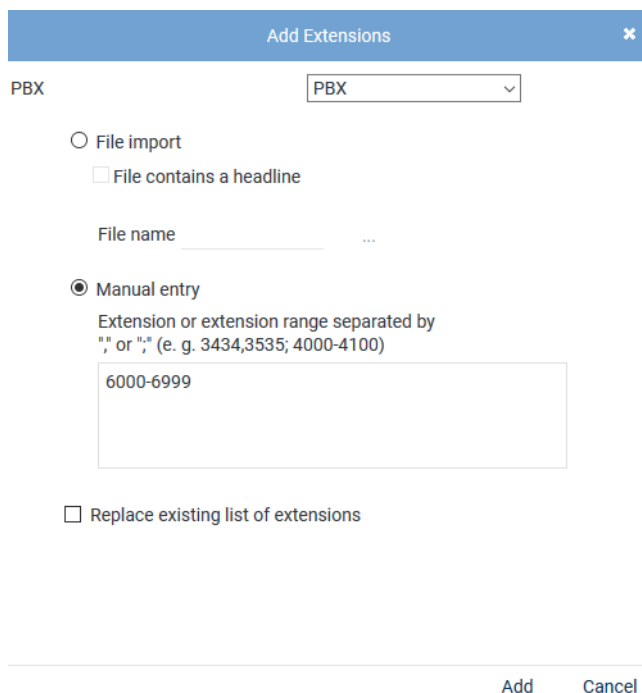


Fig. 36: Tenants - main view - tab Extensions

### Add extensions

1. In the main view, select the tenant to whom you would like to assign extensions.
2. Click on the tab *Extensions*.
3. Click on the button *Add*.
  - ⇒ The following window appears:



The 'Add Extensions' dialog box has a 'PBX' dropdown menu set to 'PBX'. It offers two options: 'File import' (with a checkbox for 'File contains a headline' and a 'File name' field) and 'Manual entry' (selected). The 'Manual entry' section includes a text area with '6000-6999' and a note: 'Extension or extension range separated by "," or ";" (e. g. 3434,3535; 4000-4100)'. There is a checkbox for 'Replace existing list of extensions'. At the bottom are 'Add' and 'Cancel' buttons.

Fig. 37: Assign extensions to tenants

4. From the drop-down list, select the PBX in which the extensions for this tenant have been configured.

<b>File import</b>	<p>Select the option to import extensions from an existing file and add them to the table of extensions. The following file formats are supported:</p> <ul style="list-style-type: none"> <li>• <i>ZIP</i></li> <li>• <i>TXT</i></li> </ul>
--------------------	---



- CSV

**NOTICE! The maximum number of extensions in a file has been limited to 2000 for performance reasons. If more extensions are required, you can import several files.**



#### *File contains a headline*

Activate this option so that this structured is recognized correctly when importing the file.

The file must not contain more than one column. If commas or other column separators are detected in the file, the file is considered invalid and an error message is displayed.

#### *File name*

To import the file, proceed as follows:

- Click on the button  behind the field *File name*.
- Click on the button *Choose File*.
- Select the respective file in the Explorer and click on the button *Open*.
- Click on the button  *Upload File*.

#### *Manual entry*

Select this option to enter extensions or extension ranges manually.

To import number ranges, you must enter the same number of digits for the beginning and the end of the range, e. g. 1-9, 10-99, 01-20, 001-200, 4000-5000. If the end of the range asks for several digits, you have to add zeros for the beginning of the range, e. g. 01-10, 010-100.

Enter country codes as number ranges as follows:

+4984496800--+4984496810

**NOTICE! The number of digits must be equal. Add zeros in front of digits to level up possible incongruences.**

**NOTICE! Wildcards cannot be used!**

#### *Replace existing list of extensions*

Activate the check box to replace the list of extensions.

☒ = Function has been activated; the entry replaces the extensions of the selected PBX.

☐ = Function has not been activated; the configured extensions of all PBXs are kept and the new extensions are added to the selected PBX.

- Click on the button *Add*.  
⇒ The extensions are added in the table of extensions.
- If errors have been detected, the window *Result* appears.  
Click on the button *Display Error Report* to open the window *Error Report*.  
To close the window *Error Report*, click on the button *Close*.  
To close the window *Result*, click on the button *Close*.
- The configured extensions now appear in the detail view.
- Click on the button *Save* in the detail view to save the entries.

#### **Remove extensions**

- In the list, select the **PBX** for which you would like to remove the assigned extensions.

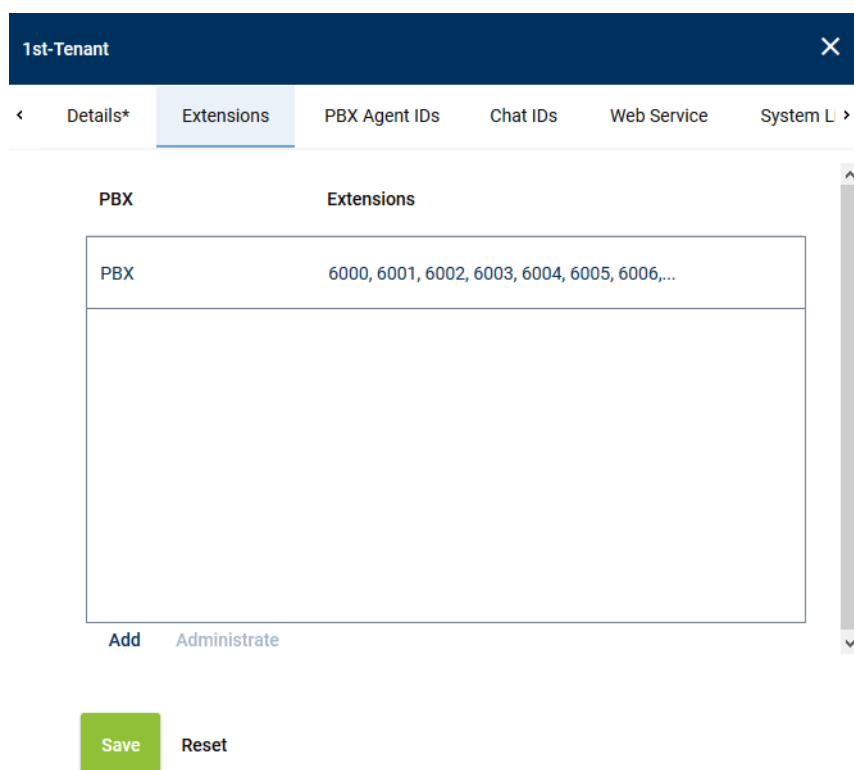


Fig. 38: Remove extensions

2. Click the button *Administrate*.
3. Select one or several extensions you would like to remove from the assignment.  
To select several extensions or to revoke the selection, click on the respective line while holding the [Ctrl] key down.



Fig. 39: Select extensions

4. To remove the selected extensions, click on the button *Remove*.  
To cancel the process and close the window, click on the button *Cancel*.

### Assign PBX Agent IDs to tenants

If the information about PBX Agent IDs is delivered by the PBX, you can make an assignment by means of the PBX Agent IDs. In this case, you can assign the respective tenant the PBX Agent IDs designated for recording in the Tenants module.



In 1-tenant systems, the PBX Agent IDs are automatically assigned to the tenant who has been created by the system (1st tenant). PBX Agent IDs are assigned to the user in the Employees module.

When installing a 1-tenant system, you can skip this chapter.



In multi-tenant systems, you have to assign the PBX Agent IDs manually to each tenant who is supposed to be able to use them. There are multi-tenant systems, too, in which only 1 tenant has been set up.

The manual assignment of PBX Agent IDs is not possible until a PBX has been created since the assignment is PBX-related.

1. Select the menu item *Tenants* in the navigation bar.

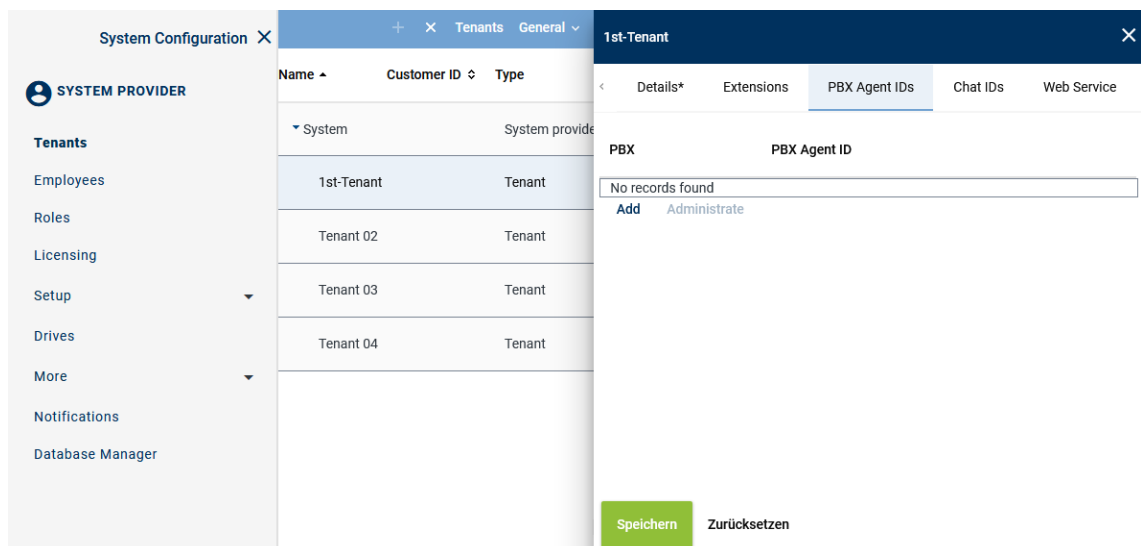


Fig. 40: Tenants - main view - tab PBX Agent ID

### Add PBX Agent ID

1. In the main view, select the tenant to whom you would like to assign the PBX Agent IDs.
2. Click on the tab *PBX Agent IDs*.
3. Click on the button *Add*.
  - ⇒ The following window appears:

Add PBX Agent IDs ✕

PBX

PBX ▾

☐ File import
 

☐ File contains a headline

File name  ...

☒ Manual entry
 

PBX Agent IDs separated by ";" or ","

427agent1,427agent2

☐ Replace existing list of PBX Agent IDs

Add
Cancel

Fig. 41: Assign PBX Agent IDs to tenants

4. From the drop-down list, select the PBX in which the PBX Agent IDs for this tenant have been configured.

<i>File import</i>	<p>Select the option to import PBX Agent IDs from an existing <a href="#">CSV</a> file and add them to the table of PBX Agent IDs.</p>
	<p><i>File contains a headline</i></p> <p>Activate this option so that this structured is recognized correctly when importing the file.</p> <p>The <a href="#">CSV</a> file may not contain more than 1 column. If commas or other column delimiters are found in the <a href="#">CSV</a> file, then the file is not valid and an error message appears.</p> <p>Only ZIP files are supported as file format. To be able to import a <a href="#">CSV</a> file, you have to pack it in a ZIP file.</p>
	<p><i>File name</i></p> <p>To import the file, proceed as follows:</p> <ul style="list-style-type: none"> <li>Click on the button <span style="background-color: #eee; border: 1px solid #ccc; padding: 0 5px;">...</span> behind the field <i>File name</i>.</li> <li>Click on the button <i>Choose File</i>.</li> <li>Select the respective ZIP file via the Explorer and click on the button <i>Open</i>.</li> <li>Click on the button <span style="background-color: #4f81bd; color: white; padding: 0 5px;">↗</span> <i>Upload File</i>.</li> </ul>
<i>Manual entry</i>	<p>Select this option to enter PBX Agent IDs manually.</p> <p>You can separate the individual PBX Agent IDs by the delimiters indicated in the screenshot.</p> <p><b>NOTICE! Wildcards cannot be used!</b></p>
<i>Replace existing list of PBX Agent IDs</i>	<p>Activate the check box to replace the list of PBX Agent IDs.</p> <p><input checked="" type="checkbox"/> = Function has been activated; the entry replaces the PBX Agent IDs of the selected PBX.</p> <p><input type="checkbox"/> = Function has not been activated; the configured PBX Agent IDs of all PBXs are kept and the new PBX Agent IDs are added to the selected PBX.</p>

5. Click on the button *Add*.  
⇒ The PBX Agent IDs are added to the table of PBX Agent IDs.
6. If errors have been detected, the window *Result* appears.  
Click on the button *Display Error Report* to open the window *Error Report*.  
To close the window *Error Report*, click on the button *Close*.  
To close the window *Result*, click on the button *Close*.
7. The configured PBX Agent IDs now appear in the detail view.
8. Click on the button *Save* in the detail view to save the entries.

### Remove PBX Agent ID

1. In the list, select the **PBX** for which you would like to remove the assigned PBX Agent IDs.
2. Click the button *Administrate*.
3. Select one or several PBX Agent IDs you would like to remove from the assignment.  
To select several PBX Agent IDs or to revoke the selection, click on the respective line while holding the [Ctrl] key down.

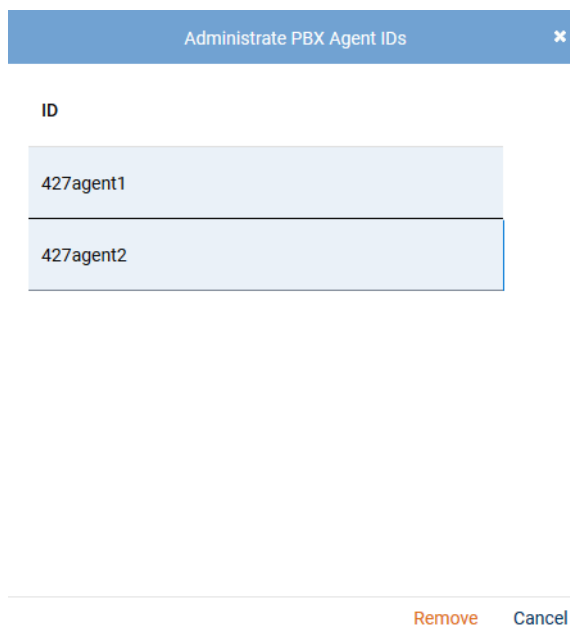


Fig. 42: Select PBX Agent IDs

4. To remove the selected PBX Agent IDs, click on the button *Remove*.  
To cancel the process and close the window, click on the button *Cancel*.

### Assign chat IDs to tenants

For chat recording, chat identifiers are used for the assignment. The assignment to the respective tenant can be done in the Tenants module.



In 1-tenant systems, the chat IDs are automatically assigned to the tenant who has been created by the system (1st tenant). Chat IDs are assigned to the user in the Employees module. When installing a 1-tenant system, you can skip this chapter.



In multi-tenant systems, you have to assign the chat IDs manually to each tenant who is supposed to be able to use them. There are multi-tenant systems, too, in which only 1 tenant has been set up.

The manual assignment of chat IDs is not possible until a chat system has been created in the PBX module since the assignment is PBX-related.

1. Select the menu item *Tenants* in the navigation bar.

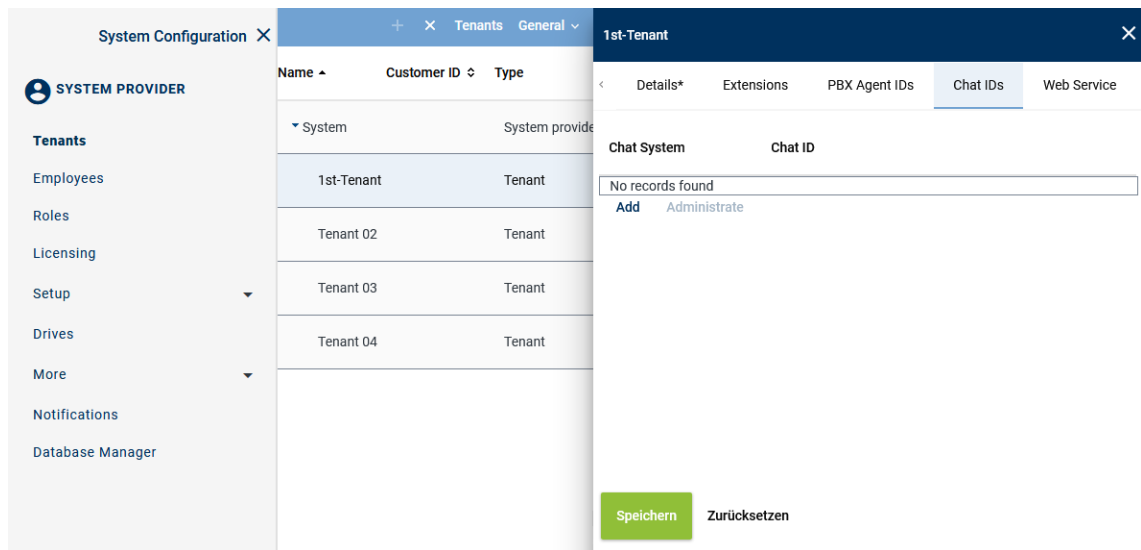


Fig. 43: Tenants - main view - tab Chat Identifier

### Add chat ID

1. In the main view, select the tenant to whom you would like to assign the chat IDs.
2. Select the tab *Chat IDs*.
3. Click on the button *Add*.
  - ⇒ The following window appears:

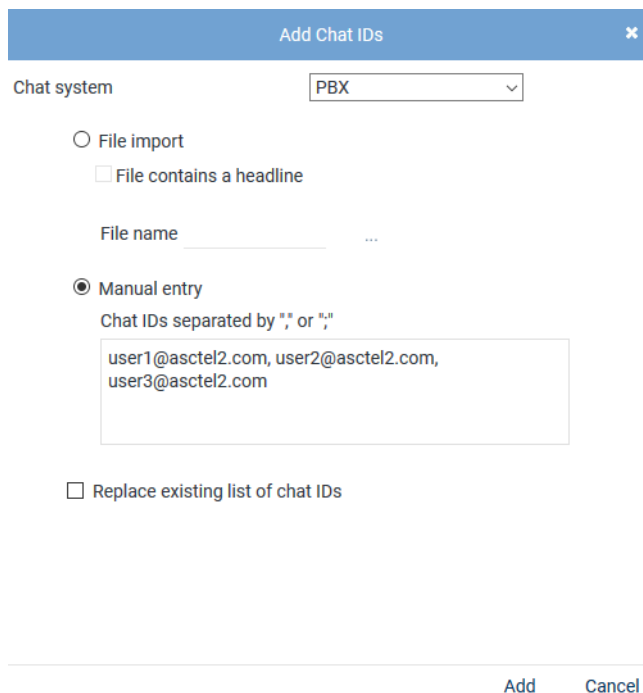




Fig. 44: Assign chat IDs to tenants

4. From the drop-down list, select the chat system in which the chat IDs for this tenant have been configured.

<b>File import</b>	Select this option to import the chat IDs from an existing <b>CSV</b> file and add them to the table of chat IDs.
<b>File contains a headline</b>	

	<p>Activate this option so that this structured is recognized correctly when importing the file.</p> <p>The <b>CSV</b> file may not contain more than 1 column. If commas or other column delimiters are found in the <b>CSV</b> file, then the file is not valid and an error message appears.</p> <p>Only ZIP files are supported as file format. To be able to import a <b>CSV</b> file, you have to pack it in a ZIP file.</p> <p><i>File name</i></p> <p>To import the file, proceed as follows:</p> <ul style="list-style-type: none"> <li>• Click on the button  behind the field <i>File name</i>.</li> <li>• Click on the button <i>Choose File</i>.</li> <li>• Select the respective ZIP file via the Explorer and click on the button <i>Open</i>.</li> <li>• Click on the button  (<i>Upload file</i>).</li> </ul>
<i>Manual entry</i>	<p>Select this option to enter chat IDs manually.</p> <p>You can separate the individual chat IDs by means of the delimiters displayed in the screenshot. The chat address must be identical to the entries in the agent data in the Employees module and must contain the name of the corresponding domain. The configuration must be identical to the entries in the Skype for Business Monitor.</p> <p><b>NOTICE! Wildcards cannot be used!</b></p>
<i>Replace existing list of chat IDs</i>	<p>Activate the check box to overwrite existing chat IDs.</p>

- Click on the button *Add*.  
⇒ The chat IDs are added to the table of chat IDs.
- If errors have been detected, the window *Result* appears.  
Click on the button *Display Error Report* to open the window *Error Report*.  
To close the window *Error Report*, click on the button *Close*.  
To close the window *Result*, click on the button *Close*.
- The configured chat IDs now appear in the detail view.
- Click on the button *Save* in the detail view to save the entries.

#### **Remove chat ID**

- In the list, select the chat system for which you would like to remove the assigned chat IDs.
- Click the button *Administrate*.
- Select one or several chat IDs you would like to remove from the assignment.  
To select several chat IDs or to revoke the selection, click on the respective line while holding the [Ctrl] key down.

Administrate Chat IDs
✕

ID

---

user1@asctel2.com

---

user2@asctel2.com

---

user3@asctel2.com

---

Remove   Cancel

Fig. 45: Select chat IDs

4. To remove the selected chat IDs, click on the button *Remove*.  
To cancel the process and close the window, click on the button *Cancel*.

#### 7.1.2.1.5 Create integration for All-in-one Basic

In the Integrations module, the PBX-related recording settings are configured.

You first have to create and activate a recording architecture to be able to create a integration and to assign it here.

Depending on the recording solution, you additionally have to configure IP addresses, ports, protocols, sniffer cards, CTI connection data, phones, monitor points, and, where required, add-ons.

1. In the navigation bar, select the menu item *Setup > Integrations*.  
⇒ The following window appears:



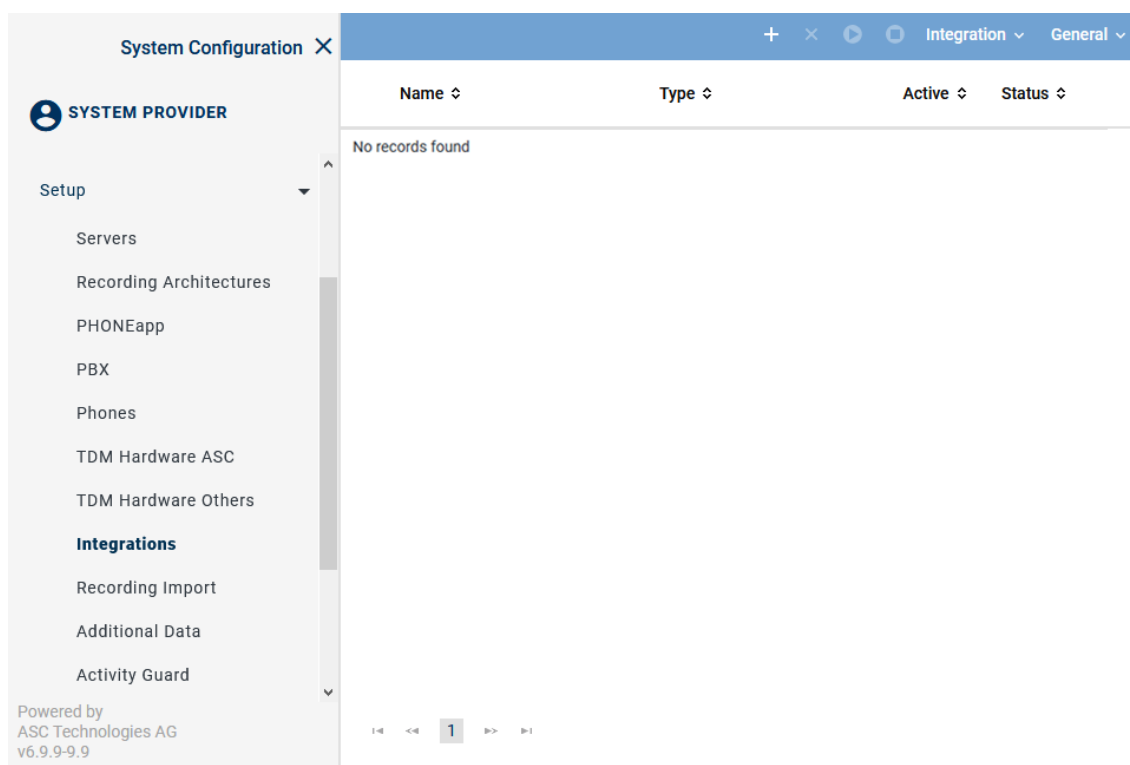




Fig. 46: Integrations - main view

In the table in the main view, the following information is displayed:





<b>Name</b>	Name of the integration
<b>Type</b>	Type of the integration
<b>Active</b>	Shows whether the integration has been activated and is used for the recording. <div> <span>✓</span> = Integration is active, can be deactivated in the toolbar via the icon .         </div> <div> <span>✗</span> = Integration is not active, can be activated in the toolbar via the icon .         </div>
<b>Status</b>	Shows whether the configuration has been carried out completely. <div> <span>✓</span> = Configuration is complete.         </div> <div> <span>✗</span> = Configuration is incomplete.         </div>

### Toolbar of the Integrations module

The toolbar offers the following functions.




Fig. 47: Toolbar Integrations module

	<b>Create</b>	Opens the detail view so that you can create a new integration.
	<b>Delete</b>	Deletes the selected integration. The integration can only be deleted if it has been deactivated.
	<b>Activate</b>	Activates the selected integration. The integration can only be activated if it has been configured completely.
	<b>Deactivate</b>	Deactivates the selected integration. This stops running recordings.

<i>Integration</i>	<i>Import Grammar</i>	By clicking on this menu item, you can import a customized grammar which you can then configure in the configuration step for the CTI connection data.
<i>General</i>	<i>General Help</i>	Opens the online help.
	<i>Module Help</i>	Opens the module-specific online help.

### Assign integration type

- Click on the icon  (*Create*) in the toolbar of the main view to create a new integration.  
⇒ In the detail view, the tab *Integration Type* appears.

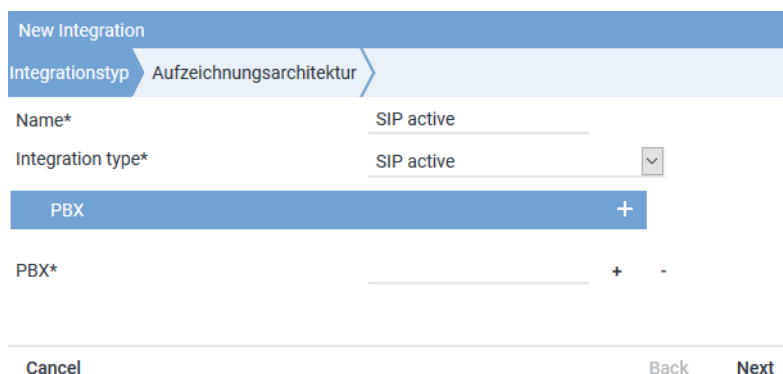



Fig. 48: Create integration type

- Enter the following parameters:

Parameter	Value
<i>Name</i>	In the entry field, enter a descriptive name for the integration. This name is used as the identifier of this integration in the system.
<i>Integration type</i>	Select the entry <i>SIP active</i> from the drop-down list <i>Integration type</i> .

Tab. 10: Create integration type

- To assign the PBX, click on the button  behind the field *PBX*.  
⇒ The window *PBX* appears.

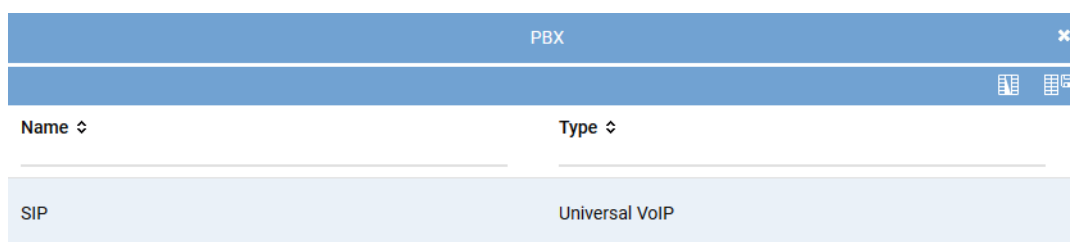


Fig. 49: Select PBX

- Select the respective *PBX* from the list of available PBXs.

5. Click on the button *Add*.

### Assign recording architecture for All-in-one Basic

1. In the detail view on the bottom right, click on the button *Next*.  
⇒ The tab *Recording Architecture* appears.



New Integration

Integration Type Recording Architecture

Recording Architecture

Recording architecture\* All-in-one Basic

Save Cancel Back Next

Fig. 50: Assign recording architecture - All-in-one Basic


2. Select the respective recording architecture from the drop-down list *Recording architecture*.



Only activated recording architectures in which the appropriate integration type has been configured appear in the drop-down list.

3. Click on the button *Save*.  
⇒ The integration now appears in the main view.

### Configuration steps

1. To complete the configuration of the integration, click on the icon  in front of the name of the new integration.  
⇒ The following configuration steps appear:

SIP active		SIP active		X		X	
Step		Configuration					
Configure recording architecture		✓					
Global recording settings		X					
Configure recording servers		X					
Configure add-on		✓					
Configure miscellaneous settings		✓					

Fig. 51: Configuration steps of the integration

### Configure recording architecture

The section *Configure recording architecture* has already been configured in previous steps.



- Click on the button  (*Edit configuration step*) in the line *Configure recording architecture* in the main view to show the configuration.
  - ⇒ In the detail view, the configuration step appears with the information of the assigned recording architecture.



Fig. 52: Configuration step - Configure Recording Architecture

- Click on the button *Save* to save changes and to finish the configuration step.
- Click on the button *Cancel* to cancel the configuration step without applying changes.

### Global recording settings for All-in-one Basic

- Click on the button  (*Edit configuration step*) in the line *Global recording settings* in the main view.
  - ⇒ The window *Step: Global Recording Settings* appears.

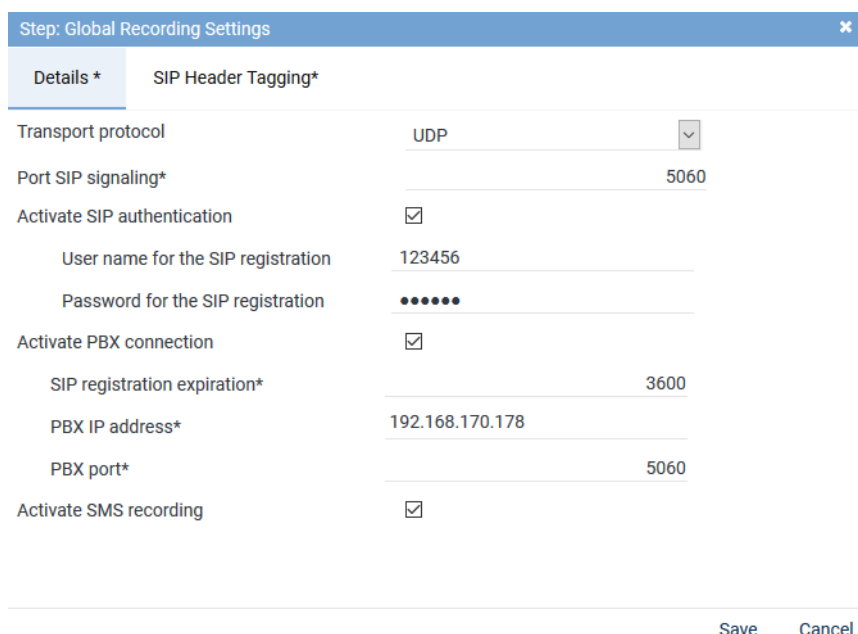


Fig. 53: Configuration step - Global Recording Settings

- Set the following parameters in the tab *Details*:

Parameter	Value/Description
<i>Transport protocol</i>	From the drop-down list, select the used transport protocol for the SIP signaling between the recording server and the PBX. The following protocols are available: TCP = unencrypted UDP = unencrypted TLS = encrypted

Parameter	Value/Description
<i>Port SIP signaling</i>	<p>Enter the port for the <a href="#">SIP</a> signaling, where the recording server is expecting the signaling.</p> <p>Default value for <a href="#">UDP</a> and <a href="#">TCP</a> is 5060.</p> <p>Default value with <a href="#">TLS</a> encryption is 5061.</p> <p><b>NOTICE!</b> If you would like to use several integrations, you have to configure a separate <a href="#">SIP</a> port for each integration.</p> <p><b>NOTICE!</b> If you would like to use a media streamer for replay, configure another <a href="#">SIP</a> port for it, too. In case of communication issues with the media streamer, this could otherwise affect the recording.</p>
<i>Activate SIP authentication</i>	Activate this option if you would like to use <a href="#">SIP Digest Authentication</a> .
<i>User name of the SIP registration</i>	Enter the user name for the <a href="#">SIP</a> registration, e. g. 123456.
<i>Password of the SIP registration</i>	Enter the password, if an authentication for the <a href="#">SIP</a> registration is used.
<i>Activate PBX connection</i>	Activate this check box if the recording server is supposed to register itself on the PBX.
<i>SIP registration expiration</i>	Enter the time in seconds after which the <a href="#">SIP</a> registration runs out, e. g. 3600.
<i>PBX IP address</i>	Enter the IP address of the PBX.
<i>PBX port</i>	Enter the port on which the SIP signaling is sent to the <a href="#">PBX</a> . The default value is 5060.
<i>Activate SMS recording</i>	Activate the check box if you would like to use <a href="#">SMS</a> recording.

Tab. 11: Global recording settings

- To save the entries, click on the button *Save*.  
To discard entries, click on the button *Cancel*.

### Tab SIP Header Tagging

- If you would like to configure the SIP header tagging, click on the tab *SIP Header Tagging*.

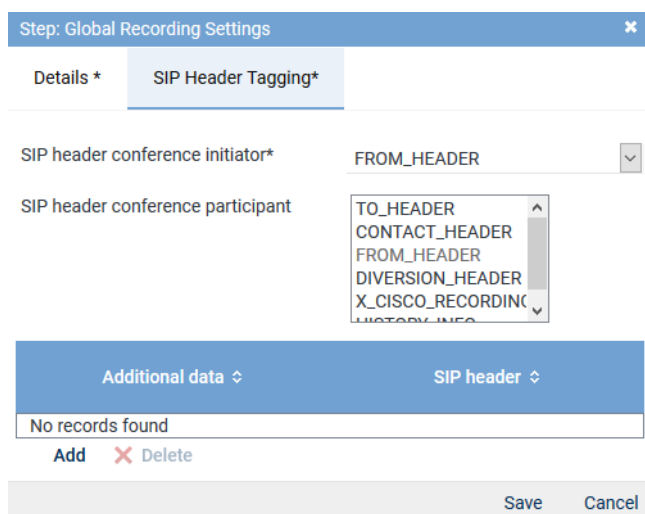


Fig. 54: Tab SIP Header Tagging Configure sources

- Enter the following parameters:

Parameter	Value/Description
<i>SIP header conference initiator</i>	Select the SIP header which contains the extension of the conference initiator.
<i>SIP header conference participant</i>	Select the SIP header which contains the extension of the additional conference participants.

Tab. 12: Configure SIP header tagging



It is possible to select several entries; the information is then displayed one after the other in the respective replay application.

To select several entries, highlight the respective entries while holding the [Ctrl] key down. To deselect an entry, click on it again without releasing the [Ctrl] key.

- If you would like to configure individual additional data that you have defined previously in the Additional Data module, click on the button *Add* in the section *Additional data*.  
⇒ The window *SIP Additional Data* appears.

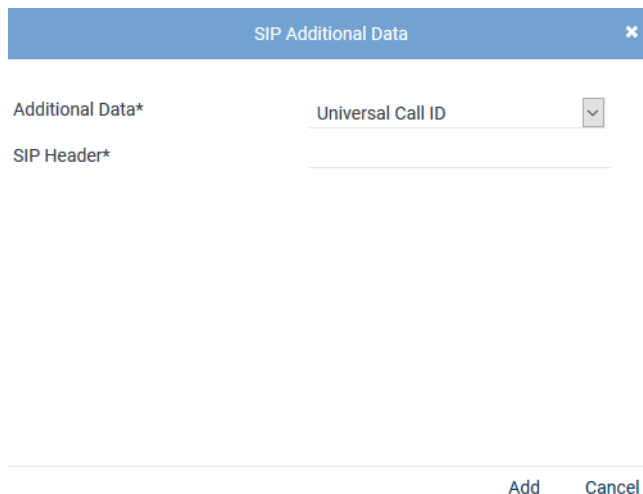


Fig. 55: SIP Additional Data



Only those entries appear in the drop-down list which have been configured in the application System Configuration in the Additional Data module. For further information refer to the administration manual *Additional Data module*.


- Enter the following parameters:

Parameter	Value/Description
<i>Additional Data</i>	In the drop-down list, select the display name of the field in which the information of the SIP header is supposed to be released.
<i>SIP Header</i>	Enter the source from the SIP header from where the information is to be extracted. Observe the correct spelling.

Tab. 13: Configure SIP conversation parameters

- Click on the button *Save* to close the window.
- Click on the button *Save* to finish the configuration in this step.

### Configure recording server for All-in-one Basic

- In the main view in the line *Configure recording servers* click on the button  (*Edit configuration step*).  
⇒ The window *Step: Configure Recording Servers* appears.

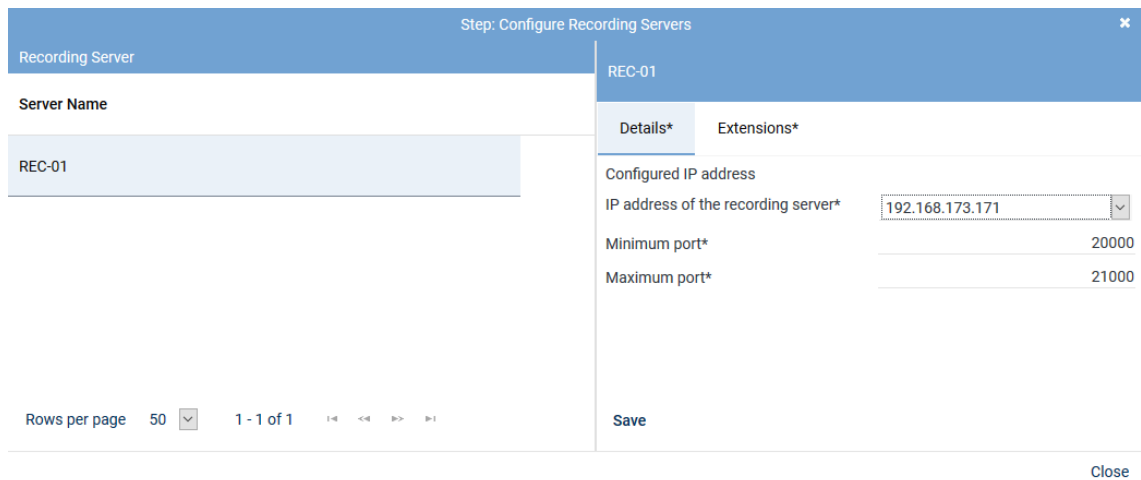


Fig. 56: Configuration step - Configure recording servers

- Enter the following parameters in the tab *Details*:

Parameter	Value/Description
<i>Configured IP address</i>	Here, the IP address is displayed which has been configured for this recording server and via which the data to be recorded is received.
<i>IP address of the recording server</i>	From the drop-down list, select one of the available IP addresses of the recording server for the recording data.
<i>Minimum port</i>	Enter the lowest port of the port range configured for the PBX via which the <b>RTP</b> data is supposed to be received, e. g. <b>20000</b> .
<i>Maximum port</i>	Enter the highest port of the port range configured for the PBX via which the <b>RTP</b> data is supposed to be received, e. g. <b>21000</b> .

Tab. 14: Configure recording servers



For stereo recording, reckon with 4 ports as only even ports are used to receive **RTP**.  
In addition, stereo recording requires more storage space.



If you use several active integrations in one recording architecture, you must configure different port ranges for each integration in the configuration step *Configure recording servers*.

### Tab Extensions

- Click on the tab *Extensions*.

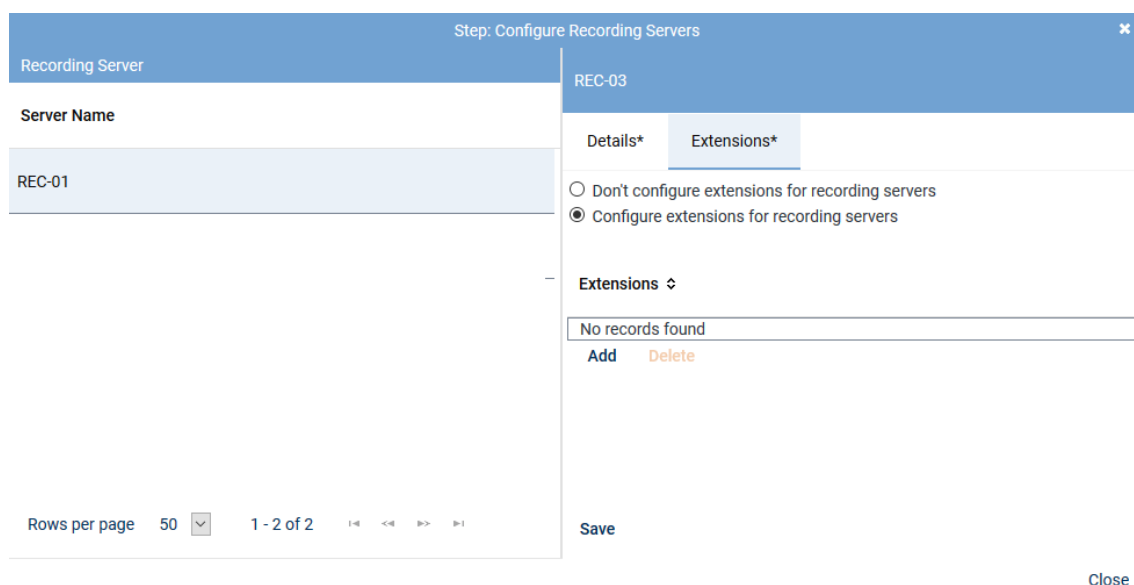


Fig. 57: Tab Extensions

The following options are available:

<i>Configure no extensions for recording servers</i>	Activate this option if you have not configured the extensions for the recording server in the PBX.
<i>Configure extensions of the recording server</i>	Activate this option if you have configured extensions for the recording server in the PBX and add the extensions.

- To add extensions, click on the button *Add* in the table *Extensions*.  
⇒ The window *Add Extensions* appears.

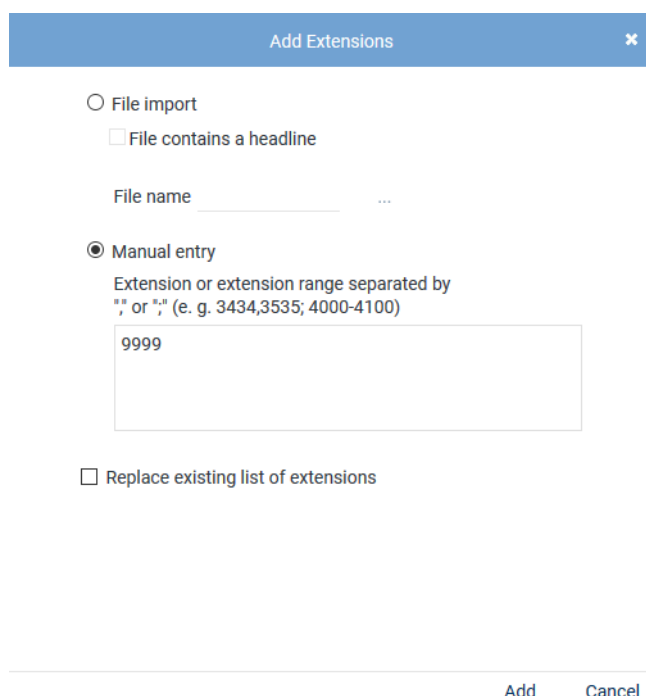


Fig. 58: Add extensions

- In the window *Add Extensions*, enter either a single extension or an extension range that the recording server is to use when registering on the PBX.
- Click on the button *Add*.  
⇒ The extensions are added in the table of extensions.



5. If errors have been detected, the window *Result* appears.  
Click on the button *Display Error Report* to open the window *Error Report*.  
To close the window *Error Report*, click on the button *Close*.  
To close the window *Result*, click on the button *Close*.
6. The configured extensions now appear in the detail view.

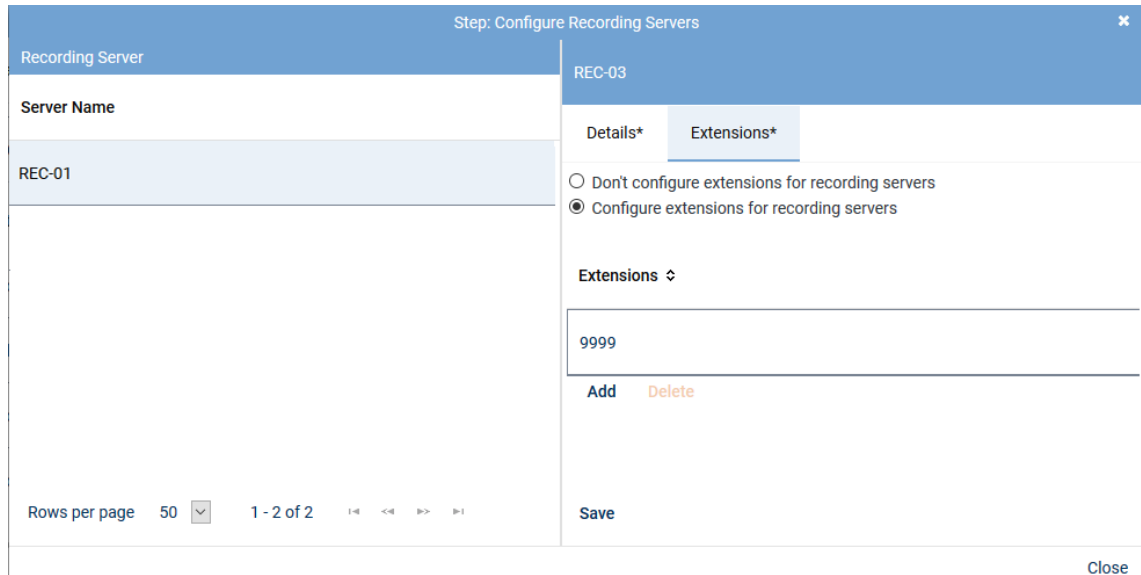


Fig. 59: Added extensions

7. Click on the button *Save*.
8. Click on the button *Close* to finish this configuration step.

### Configure add-on




The use of the add-on in the integration is optional. The status of this configuration step has been set to *No selection* by default and is considered to be completely configured that way. You can activate and use the integration without an add-on, too.



Add-ons are not supported in this recording solution.

### Configure miscellaneous settings

1. Click on the button  (*Edit configuration step*) in the line *Configure recording servers* in the main view.  
⇒ The window *Step: Miscellaneous Settings* appears.

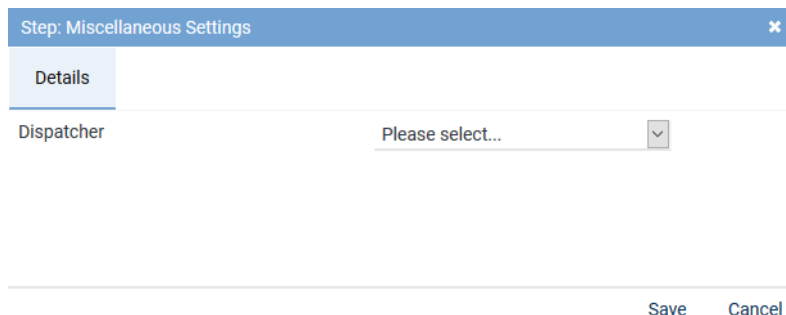


Fig. 60: Configure miscellaneous settings

2. Enter the following parameter:


Parameters	Description
<i>Dispatcher</i>	From the drop-down list, select the previously created additional data field that the participant information is supposed to be connected with.




Only those entries appear in the drop-down list which have been configured in the application System Configuration in the Additional Data module. For further information refer to the administration manual *Additional Data module*.

### Activate integration

The integration can only be activated after the configuration is complete.

If not all configuration steps have been carried out completely, the icon  (*Incomplete*) will appear in the main view, in the line of the created integration, in the column *Status*.

If the configuration has been carried out completely, the icon  (*Complete*) will appear in the line of the respective step, in the column *Configuration*.

If all settings are complete, the icon  (*OK*) will appear in the main view, in the line of the created integration, in the column *Status*.

















+ × ⏮ ⏭ Integration ▾ General ▾			
Name ▾	Type ▾	Active ▾	Status ▾
 SIP active	SIP active		
Step		Configuration	
Configure recording architecture			
Global recording settings			
Configure recording servers			
Configure add-on			
Configure miscellaneous settings			

Fig. 61: Activate integration

1. Mark the integration in the main view, so that the icon  (*Activate*) becomes active in the toolbar.
2. To activate the integration, click on the icon  (*Activate*).  
⇒ In the column *Active*, the icon  (*Active*) appears.




+ × ⏮ ⏭ Integration ▾ General ▾			
Name ▾	Type ▾	Active ▾	Status ▾
 SIP active	SIP active		

Fig. 62: Activated integration



If you use several PBXs, you can create and activate several integrations with the same recording architecture.



If you take advantage of the grace period and there is no valid license file in the system after its expiration, all integrations are deactivated. After uploading a valid license file, you have to activate the integrations again.






Upon activating the standard configuration, a bulk recording will start.

To restrict the recording to particular end devices, the tenant can configure the Recording Planner in the System Configuration accordingly.

### Deactivate/Delete integration

To be able to delete an integration, it has to be deactivated.

- To deactivate the integration, click on the icon  (*Deactivate*) in the toolbar.
  - ⇒ In the column *Active*, the icon  (*Inactive*) appears.
  - ⇒ The icon  (*Delete*) becomes active in the toolbar.







+ ×   Integration ▾ General ▾			
Name ▾	Type ▾	Active ▾	Status ▾
 SIP active	SIP active		

Fig. 63: Deactivate integration

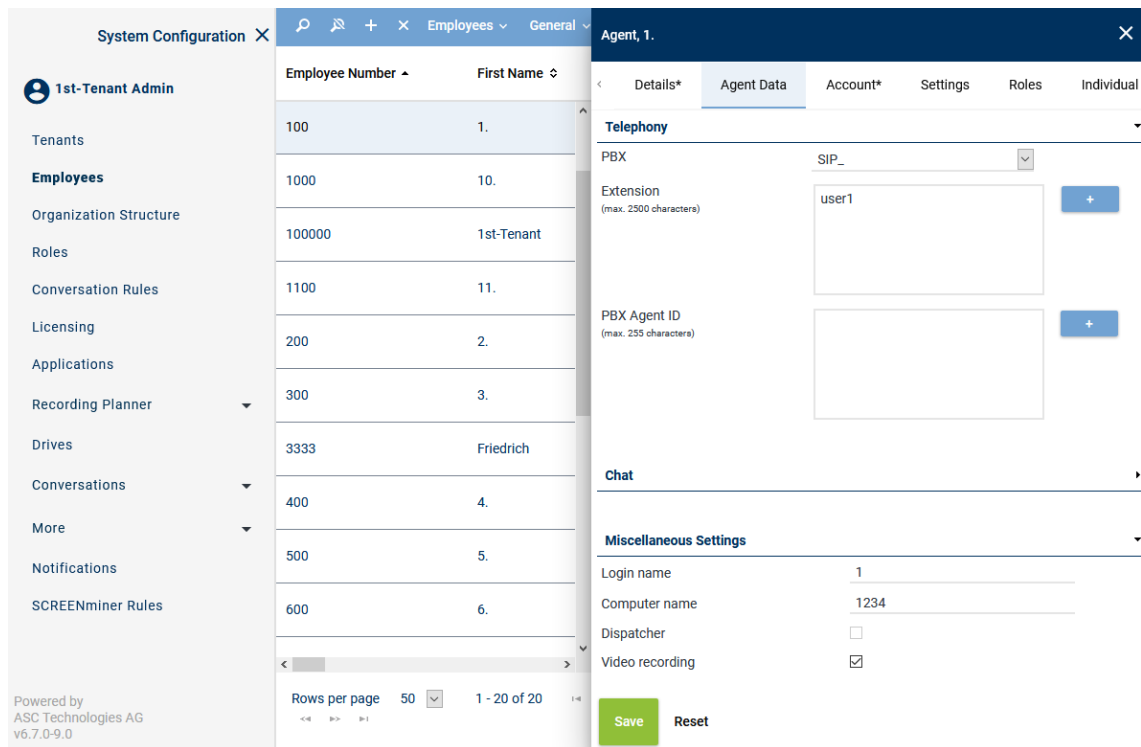
- Click on the icon  (*Delete*) and confirm the security prompt to delete the integration.

#### 7.1.2.1.6 Additional configuration steps for video recording

### Configure employees

To be able to record the video conversations of agents, you have to configure the respective employees as agents in the Employees module and configure their *extension* or their *PBX Agent ID* in the agent data in the group field *Telephony* as well as activate the option *Video recording* in the group field *Miscellaneous Settings*.

- Log in to the application System Configuration as *1st-tenant-admin*.



The screenshot shows the 'System Configuration' window with the 'Employees' tab selected. The 'General' sub-tab is active, displaying a list of employees. The table has columns for 'Employee Number' and 'First Name'. The list includes employees with numbers 100, 1000, 100000, 1100, 200, 300, 3333, 400, 500, and 600. The 'Agent, 1.' configuration window is open on the right, showing the 'Agent Data' tab. Under the 'Telephony' section, there are fields for 'PBX' (SIP\_), 'Extension' (user1), and 'PBX Agent ID'. Under the 'Miscellaneous Settings' section, there are fields for 'Login name' (1), 'Computer name' (1234), 'Dispatcher' (checkbox), and 'Video recording' (checkbox). The 'Save' and 'Reset' buttons are at the bottom.

Employee Number	First Name
100	1.
1000	10.
100000	1st-Tenant
1100	11.
200	2.
300	3.
3333	Friedrich
400	4.
500	5.
600	6.

Agent, 1. Configuration:

- Telephony**
  - PBX: SIP\_
  - Extension (max. 2500 characters): user1
  - PBX Agent ID (max. 255 characters):
- Miscellaneous Settings**
  - Login name: 1
  - Computer name: 1234
  - Dispatcher: ☐
  - Video recording: ☒

Fig. 64: Main view Employees

- Click on the tab *Agent Data*.

### Group field Telephony

- Enter the following parameters:

<b>PBX</b>	Enter the name of the PBX in which the extensions has been configured.
<b>Extension</b>	Enter the extension if an extension has been configured in the PBX.
<b>PBX Agent ID</b>	Enter the PBX Agent ID if it has been configured in the PBX for this purpose.

### Group field Miscellaneous Settings

- Enter the agent's data.

<b>User name</b>	Enter the user name that has been configured for this agent.
<b>Computer name</b>	Enter the computer name that has been configured for this agent.
<b>Video recording</b>	Activate the check box so that the video conversations can be recorded.



For information about the configuration refer to the administration manual for tenants *User management tenant*.

### Configure Recording Planner

To be able to record the video conversations, you have to configure the Recording Planner module.

- Log in to the application System Configuration as *1st-tenant-admin*.

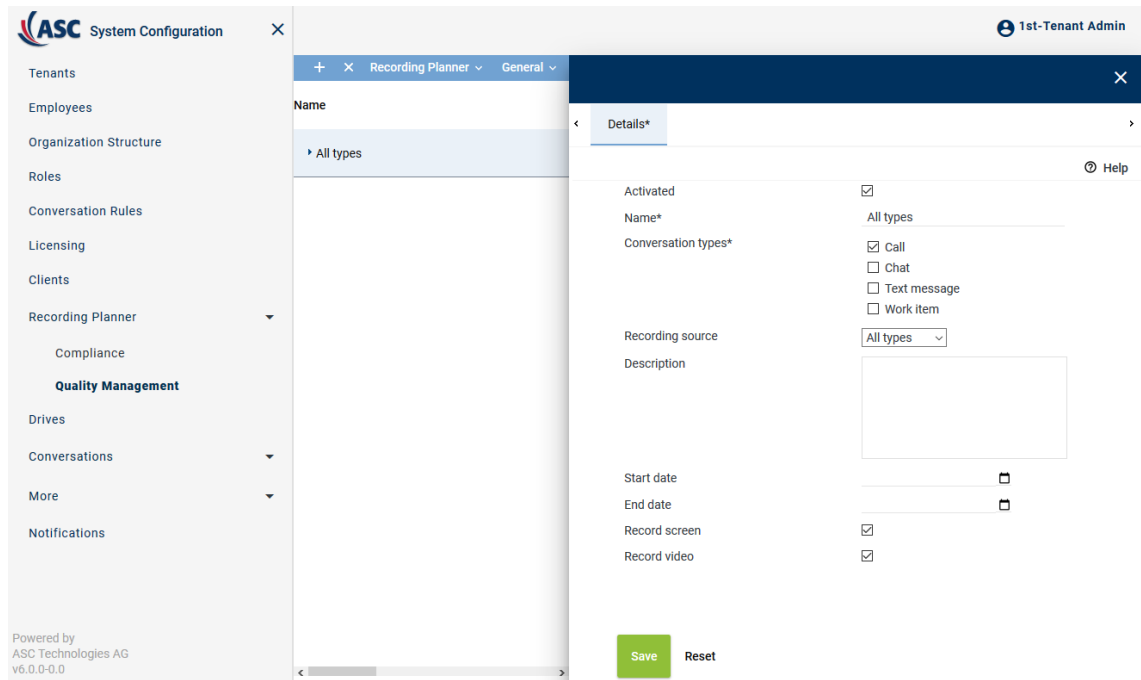


Fig. 65: Main view Recording Planner

2. Activate the following options for video recording:

<b>Conversation types</b>	Activate the following option so that video conversations can be recorded.
	<input checked="" type="checkbox"/> <i>Call</i>
<b>Record screen</b>	Activate the option so that video conversations can be recorded. This option is activated automatically upon activating the conversation type <i>Call</i> .
<b>Record video</b>	Activate the option so that video conversations can be recorded. This option is activated automatically upon activating the conversation type <i>Call</i> .



For information about the Recording Planner module refer to the administration manual for tenants *Recording Planner*.

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## Glossary

### API

Application Programming Interface

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### API server

Server on which the API service runs. (API=Application Programming Interface)

---

### CSV

Comma-separated values is a file format which stores tabular data in plain text form.

---

### Digest Authentication

In Digest Access Authentication (also RFC 2617) the server sends a random string of characters (nonce) created specifically for this purpose along with the WWW-Authenticate-Header. The browser calculates the hashcode (usually MD5) of a combination of user name, password, contained string of characters, HTTP method, and requested URI. It sends it back to the server in the authentication header along with the user name and the random string of characters. The server then calculates the hash total for comparison purposes. This method resembles Message Authentication Code. Provided that the used hash function is safe in terms of the cryptographic construction, attackers do not profit from sniffing the communication since the hash function prevents a reconstruction of the access data and because the access data are different for the next request due to using a nonce. (Especially the widespread hash function MD5 is not considered safe anymore.) The remaining data transmission is not protected, though. To achieve this Hypertext Transfer Protocol Secure (HTTPS) can be used. Translation of the German-language source: Wikipedia (20/02/2017)

---

### DNS

Domain Name System is a worldwide directory service which administrates the name domain of the Internet. Its main task is to answer the queries regarding name resolutions. (Source: Wikipedia 5th April 2017)

---

### DTMF

Dialed Dual Tone Multi Frequency keys represent dialing signals on the analog connecting cable of the telephone. This is a method to transmit the phone number to the telephone network or to a PBX.

---

### IP

Internet Protocol, basic protocol for Internet communication

---

### LCR

Last Conversation Repeat

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### PBX

Private Branch Exchange

---

### RTP

Real-time Transport Protocol is a protocol to continuously transmit audio and video files via the IP protocol within the network.

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**SDES**

Session Description Protocol Security Descriptions

---

**SDP**

The Session Description Protocol describes properties of multimedia data streams. It serves to manage communication sessions and is used together with SIP and H.323 for instance within the IP telephony to deal codecs, transport protocols and addresses as well as for the transmission of meta data. (Source: Wikipedia 4th May 2017)

---

**SIP**

Session Initiation Protocol

---

**SMS**

Short Message Service, text message (GSM, landline)

---

**SRTP**

Secure real-time protocol

---

**SSL**

Secure Socket Layer

---

**TCP**

Transmission Control Protocol, controlled connection establishment, protected data transmission

---

**TDM**

Time Division Multiplexing is an umbrella term for time-slot-oriented interfaces, ITU G.703 defined. The term is used ASC-wide representative for conventional telephony.

---

**TLS**

Transport Layer Security, former name Secure Socket Layer (SSL), is a hybrid encryption protocol for secure data transmission on the Internet.

---

**UDP**

User Datagram Protocol UDP is a minimal, connectionless network protocol which belongs to the core members of the Internet protocol suite. Its purpose is to make sure that data transmitted via the Internet reach the designated application. There is no destination check.

---

**URL**

Uniform resource locator. Identifies and locates a resource (e. g. a website) about the used access method (e. g. the used network protocol as HTTP or FTP) and the location of the resource in the computer network. (Source: Wikipedia 20th November 2013)

---

**VAD**

Voice Activity Detection or silence suppression

---

**VM**

Virtual machine

---

---

### **VoIP**

Voice over IP