

The logo for VoipNow Professional 2. It features the word 'VOIPNOW' in large black letters, with a blue globe icon replacing the 'O'. Below it, the word 'PROFESSIONAL' is in smaller black letters, and a large red '2' is to the right. A registered trademark symbol (®) is above the 'W'.

4PSA VoipNow® 2.0.3

Intercom/Paging Extension Type Guide

For more information about 4PSA VoipNow, check:

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Intercom/Paging Extension Type Guide

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Preface

Who Should Read This Guide

This Extension's Guide must be read by all the 4PSA VoipNow users that own an Intercom/ Paging Extension.



Chapter 1

Edit Your Contact Information



Caution

After the first install, you will be required to fill in your contact information from the **Extension's Account Details** page. You will not be able to access and manage the application until all the required details are set up in the system.


In order to update your contact information, click the  Edit extension icon available in the  [Home](#) section, which can be accessed from the left navigation panel.

4PSA VoipNow allows you to update your account information:

- Update your contact information
- Change your login password

You can modify the following contact details:


- Company name
- Contact name
- Password – Use this text box to change the password for the reseller account.

 Caution


Based on the chosen password strength set up by the system administrator, you are not allowed to fill in dictionary words or passwords containing only digits or sequences of more than three identical characters.


All security levels ask for a minimum five characters long password.

- Confirm Password
- Phone
- Fax
- Email – The email address where 4PSA VoipNow can send you notifications about events that occur in the system.

 Caution

The system can send automatic notifications when predefined events occur. In order to change your notification preferences, as well as the email templates

used for sending these notifications, click the  **Email templates** icon located in the **Tools** area.

- Address
- City
- State/Province
- Postal/ZIP code
- Country
- Region - The regions of a country are listed in alphabetical order. The one selected by default is the first one on the list.
- Timezone - The time zone selected by default is one you have previously set up from  [Unified Communications](#) >> Interface Preferences page.




Click the OK button to submit the data. When all the required information has been filled in and you choose not to change it, the Cancel button will return you to the previous page without any modification.

Chapter 2

Manage the Application

My I nterface Settings

4PSA VoipNow allows you to customize the application's default look and settings in the My I nterface Settings page. Here you can define the interface language, the application's skin, the number of rows in the records list for the logged in user (reseller in your case) and several other options.

To access this page, you can either click the  [My interface](#) link from the right corner of the top frame, either on the  My interface button located in the Unified Communications settings area of the  [Unified Communications](#) page.

You can adjust the following preferences based on your needs:

- Rows in table – Use this text box to set the number of rows that will be displayed in your interface. It can be any number between 1 and 9999, the default value being 50.

- Expanded alerts - Use this text box to set the number of alerts displayed in the user context. It can be any number between 1 and 10, the default value being 3.
- Interface skin – Use this drop-down list to choose the skin used by the logged in user interface.
- System language – Use this drop-down list to choose the language used by the logged in user interface.



Caution

4PSA VoipNow does not allow you to use language packs that were created for earlier versions of the interface. The following warning message is displayed:
Impossible to switch to preferred interface language {outdated language}, because an outdated language pack is installed on the system. Please contact your provider to correct this situation.

Only the system administrator can fix this problem.

- Display tool tip – Use this check box to enable/ disable application tool tips displayed on mouse over images/ icons.
- Display context help – Use this check box to enable/ disable context help, displayed in the top area of the page, under the title.
- Program logo – Choose the logo that will be displayed at the top of the user's interfaces. Fill in the text box with the location of the file on your computer or use the button to locate the file.



Caution


It is recommended to use an image file in a GIF, JPEG, or PNG format with a height of 50 pixels.

- Logo URL – The logo file has a hyperlink attached to it. Use this text box to fill in the destination of this hyperlink. It can be your business website for example.



Click OK to save your changes. Click Cancel to go back to the previous page without updating the preferences. The Default button overwrites your own account settings with the default settings.

Restore Dismissed Alerts

Alerts present on any page in the application can be hidden by pressing the [Dismiss alert](#) link. These settings are only available for the logged in user.

To restore all the dismissed alerts, click the  Restore dismissed alerts button available in the Tools area.

Set up an Access Policy

4PSA VoipNow allows you to set up an access policy for the extension account. To enter the Access policy page, click the  Access icon available in the Unified Communications settings area of the  [Unified Communications](#) page.

There are two types of access policies:

- Deny - When this policy is configured, the extension is not allowed to log in to the 4PSA VoipNow interface if his computer's IP is listed on the deny list. All the other IPs that are not included in the deny list can access the interface with the extension account.
- Allow - When this policy is configured, the extension can login to the 4PSA VoipNow interface only if his computer's IP address is listed in the allow list. All the other IPs that are not included in the allow list cannot access the interface with the extension account.







Note

You cannot set up both types of policies at the same time.

View the Networks List

In the Network Access Policy page you can see a list with all the allowed and denied networks available in the system. The following information is available:


- N - The network's order number.
- A - The network's permission:
 -  - Allowed
 -  - Denied

- P - Use these icons to change the position of a certain network inside the list:
 -  Up
 -  Down



Note



When you change the order, 4PSA VoipNow displays the number of changes you have performed to remind you to save them before navigating away from the page. In the top left corner of the network list 4PSA VoipNow displays {x} changes pending in the rules order.

Click the  [Apply changes](#) link to save the changes you have performed in the network list.

- IP - The network's IP address.
- Mask - The network's subnet mask.

Searching the Network List

When the network list is too long and you are searching for a specific one, you can use the following features:




- Search – Fill in the text you are looking for in the text box. Click the  button or the Search label to display only the desired networks.
- Show all – Click this  button or the Show all label to display the entire list.

The search criteria will be retained even if you navigate to other pages until a new search is performed.


You can change the number of entries per page by clicking the [10](#), [25](#) and [100](#) links available in the right side of the table. The total number of records is shown in the left side.

Add Allowed or Denied Network

In order to add allowed or denied networks, follow these steps:


- Click the  Access icon. A new page where you can enter the subnet or IP addresses to which you want to allow/ deny access opens.
- Subnet or IP address - Use the drop-down list to specify if you want to allow or to deny access for the subnet or IP address filled in the first text box. Use the second text box to specify the position of the address inside the networks list.
- Use the   buttons to add several subnet or IP addresses at the same time.
- Click Ok to add the IP(s) to the allow/ deny list. Click Cancel to go back to the previous page.

Remove a Network

To remove a network, select its corresponding check box and then click the  [Remove selected](#) link. You will be asked to confirm the removal.

Chapter 3

View Account Overview

You can view the details of your account in the  [Home](#) section, which can be accessed from the left navigation panel. There, in the Account overview section, 4PSA VoipNow displays the following information:

- Extension type - The extension type, in this case Intercom/ paging.
- Public phone number(s) - If one or more public phone numbers are assigned to the extension, they will be displayed here with their corresponding monthly costs (e.g. 49932040495 (10.1 USD)). Otherwise, 4PSA VoipNow displays '-'.
- Extension internal number - The phone number assigned when the extension was added to the system.
- Calls cost for { month} – The the calls' cost in the current month, showing both the total costs for incoming external calls and for outgoing external calls.
- Outgoing time spent on { month} – The outgoing calls' total duration of the total number of calls in the current month.

- Incoming time spent on { month} – The incoming calls' total duration of the total number of calls in the current month.
- Number of sound files – The total number of sound files, the disk space used and the percent of available disk space.
- Number of music on hold files - The total number of music on hold files, the disk space used and the percent of available disk space.

Chapter 4



Manage Unified Communications Features

From this page you can manage your sessions and your access policies or you can customize your interface.

To access this page, click the  [Unified Communications](#) link from the left navigation panel.





Manage Sessions

View the Sessions List

In order to view the sessions list, click the  [Unified Communications](#) link available in the left navigation panel. Then click the  Sessions button. This link will open the Manage Sessions page, where you can view a list of all the sessions. Multiple operations can be performed on the sessions:

- Search the existing sessions
- Delete sessions

4PSA VoipNow displays the following information about each session:

- T – The type of the user that logged in the system displayed using an icon:
 -  Admin
 -  Reseller
 -  Client
 -  Extension
- Login – The user name of the person who logged in to the system.
- IP - The IP of the machine after which the user logged in the system.





Note

If the user logged in from the VoipNow4Plesk module, the IP of the respective Plesk server will be displayed here.

- Logon time - The time when the user logged in to the system.

Searching the Sessions List

When the sessions list is too long and you are searching for specific sessions, you can use the following features:

- Search – Use the text box to specify the words you are looking for. Click on the  button or the Search label to display only the sessions that match your search criteria.
- Show all – Click this  button or the show all label to display the entire list.

The search criteria will be retained even if you navigate to other pages until a new search is performed.


You can change the number of entries per page by clicking the [10](#), [25](#) and [100](#) links available in the right side of the table. The total number of records is shown in the left side.

The sessions list can be filtered by login name, IP and log in time. To do so, click on a table header link. The order criteria is marked by the highlighted


table header and the arrow indicates how the sessions list was sorted. The sort direction can be changed by another click on that header.

Remove a Session








To remove registered sessions, follow these steps:

1. Choose the sessions you want to remove by selecting their corresponding check boxes in the Manage Sessions page.
2. Click the  [Remove selected](#) link.
3. You will be asked to confirm the removal. If you want to proceed, click OK. Otherwise, click Cancel.

Login History

You are able to see a detailed history of the login sessions by clicking the  Login history button located in the **Tools** section of the Session Management page.



The following information is available:

- T - The user's level is shown using an icon:
 -  Admin
 -  Reseller
 -  Client
 -  Extension
 -  Unknown level
- O - The icon in this column shows if the respective user is logged in or not. The icon can be:
 -  User is online
 -  User is offline
- Username - The user name of the persons who logged in to the system.
- Number of logins - The number of login sessions establish by the respective user.

- First login - The date and time when the user logged in for the first time.
- Last login - The date and time when the user last logged in.

Searching the Login History List

When the login history list is too long and you are searching for specific sessions, you can use the following features:

- Search - Use the text box to specify the words you are looking for. Then click the  button or the `search` label to display only the records that match your search criteria.
- Show all - Click the  button or the `show all` label to display the entire list.


The search criteria will be retained even if you navigate to other pages until a new search is performed.

You can change the number of entries per page by clicking the [10](#), [25](#) and [100](#) links available in the right side of the table. The total number of records is shown in the left side.

The login history list can be filtered by user name, number of logins, first login date and last login time. To do so, click on a table header link. The order criteria is marked by the highlighted table header and the arrow indicates how the login history list was sorted. The sort direction can be changed by another click on that header.

Clear Logs

You are able to clear logs according to two criteria:

- Clear logs starting from { date } to { date } - You can choose to clear the logs from a distinct period of time. Click the  Calendar icon to specify the start and end date of the time interval.
- Clear logs older than - You can choose to clear logs older than a specified number of days / weeks / years. Select the time unit from the drop-down list and specify the number of time units in the text box.

Login History of a Specific Account



You are able to see the login history of a specific account by clicking the respective user name in the login history list. The page containing the login history of a specific account displays the following information:

- Login time - The date and time when the user logged in.
- IP address - The IP address the user logged in from.





Note

If the user logged in from the VoipNow4Plesk module, the IP of the respective Plesk server will be displayed here.

- Hostname - The hostname where the user logged in from.
- L - This column shows whether the user logged in from the interface or by using API:
 -  Control panel log in
 -  CallAPI log in

Searching the Account's Login History List

When the account's login history list is too long and you are searching for a specific record in the list, you can use the following features:

- Search - Use the text box to specify the words you are looking for. Then click the  button or the `Search` label to display only the records that match your search criteria.
- Show all - Click the  button or the `Show all` label to display the entire list.

The search criteria will be retained even if you navigate to other pages until a new search is performed.


You can change the number of entries per page by clicking the [10](#), [25](#) and [100](#) links available in the right side of the table. The total number of records is shown in the left side.

The account's login history list can be filtered by login time, IP address, host name and login type. To do so, click on a table header link. The order criteria is marked by the highlighted table header and the arrow indicates how the account's login history list was sorted. The sort direction can be changed by another click on that header.

Clear Logs for an Account

The procedure is identical to the one described in the [Clear Logs](#) section.

Failed Logins

You can see a list of the failed login attempts by pressing the  Failed logins button in the `Tools` section of the Sessions Management page.

The following information is available:

- L - This column shows whether the user logged in from the interface or by using API.
- Login time - The date and time of the login attempt.
- Username - The user name used for the login attempt.
- Message - The reason for which the login attempt failed.
- IP Address - The IP address of the user who attempted to log in.





Note

If the user logged in from the VoipNow4Plesk module, the IP of the respective Plesk server will be displayed here.

- Hostname - The hostname of the user who attempted to login.

Searching the Failed Login History List

When the failed login history list is too long and you are searching for specific records, you can use the following features:

- Search - Use the text box to specify the words you are looking for. Then click the  button or the Search label to display only the records that match your search criteria.
- Show all - Click the  button or the Show all label to display the entire list.

The search criteria will be retained even if you navigate to other pages until a new search is performed.

You can change the number of entries per page by clicking the [10](#), [25](#) and [100](#) links available in the right side of the table. The total number of records is shown in the left side.

The failed login history list can be filtered by login time, user name, message, IP address and hostname. To do so, click on a table header link. The order criteria is marked by the highlighted table header and the arrow indicates how the failed login history list was sorted. The sort direction can be changed by another click on that header.



Clear Logs

The procedure is identical to the one described in the [Clear Logs](#) section.

Chapter 5



Intercom/ Paging Setup

This extension type allows the user to call several or all available extensions in the same time. The called extensions will hear the caller's announcements whether they pick up the phone or not.

In order to edit your extension's settings, click the  [Home](#) link available in the left navigation panel and than the  Intercom/paging setup icon located in the `Tools` area.

4PSA VoipNow displays the following options:

- Basic settings
 - Type - You are able to choose between:
 - 2 way Intercom - The called extensions are able to talk back to the caller
 - 1 way Paging - The called extensions cannot talk balk to the caller

- Alert-Info header - The text specified in this field will be displayed on the called extensions' phone terminals
- Timeout - The maximum duration of the intercom/ paging session. After this period of time, the call is disconnected
- On connection play sound - 4PSA VoipNow plays this sound each time the user is connected to the called extensions. Use the  icon to select the sound or specify the address of the sound file. A pop-up window that displays a list of all the available sounds matching the text filled in the text box. The following information is available:
 - P - Click the  icon to play or to download the sound.
 - Name - The name of the sound file. Click the link in order to select this sound.
 - Folder - This column displays the file's folder location.

If you are searching for a particular sound, you can use the available controls.

In order to display all the sounds available in the system for all the events, click the [Display all](#) link located under the search controls.

You can change the number of entries per page by clicking the [10](#), [25](#) and [100](#) links available in the right side of the table. The total number of records is shown in the left side.

- Caller permission for all extensions - If this option is enabled, all the available extensions are allowed to call the intercom/ paging extension. If this option is disabled, you will be able to manually assign individual permissions from the Caller permission area.
- Allow intercom calls to all extensions at once - When this option is enabled, the intercom calls are allowed to call all the available extensions in the same time.
- Caller permission - Use this section to specify the extensions that are allowed to call the intercom/ paging extension.
 - Individual extensions - Specify the extensions that are allowed to call the intercom/ paging extension.
 - Groups - Specify the extension groups that are allowed to call the intercom/ paging extension.
- Allow intercom calls to - Use this section to specify the extensions that can be called by the intercom/ paging extension.

- Individual extensions - Specify the extensions that can be called by the intercom/ paging extension
- Groups - Specify the extension groups that can be called by the intercom/ paging extension.



Note

In order to add/ remove numbers or groups to/ from the lists, you have to click



the button. The **Choose extensions/ groups** window will pop up, allowing you to select the extensions/ groups that you want to add/ remove.

Chapter 6

Edit Your Extension's Permissions and Phone Numbers

To modify the permissions and phone numbers of your extension, follow these steps:

1.



Click the Extension permissions and phone numbers icon available in the **Tools** area.

2. A new page opens, allowing you to modify the following fields:

- Permissions
 - Sound management – This option allows the extension to manage sound files, folders, and languages.
- Limits
 - Maximum disk space for sound files – Use the available text box to specify the maximum storage space reserved for the sounds created

by the extension user. If you do not want to limit the disk space, select the `Unlimited` check box.

- Maximum disk space for music on hold files – Use the available text box to specify the maximum storage space reserved for the music on hold files. If you do not want to limit the disk space, select the `Unlimited` check box.
- Maximum concurrent calls – Use the available text box to limit the number of external calls that can be active at the same time. If you do not want to limit the extension, select the `Unlimited` check box.




Note

Both incoming and outgoing calls are counted.

- Maximum concurrent text to speech – Use the available text box to limit the number of calls that are allowed to use the text to speech application at the same time. If you do not want to limit the extension, select the `Unlimited` check box.




Note

This line is available only if the **Allow text to speech** option was enabled from the  [Unified Communications](#) >> **System Preferences** page.

In order to use the text to speech functions, you must make sure that:

- There is at least one Cepstral voice engine installed on your server.
- There is at least one voice support license and one concurrency port license installed on your server (licenses can be purchased from the 4PSA store).

More details about the Cepstral engine installation can be found in the 4PSA VoipNow release notes.

- Account expiration date – To specify the date when the extension account becomes invalid, deselect the `Unlimited` check box and provide a date using the text box or the available  calendar button.
- Incoming phone number selection – Use the two lists to associate one or more public phone numbers from the client's pool with the extension.



Note



This section is displayed only if there are phone numbers available in the client account where the extension is located.

When you assign a public phone number to an extension, the phone number becomes exclusive to that extension. No other extension can use it. From that moment on, callers from outside the 4PSA VoipNow system can reach that extension by dialing the phone number.

3. Click OK to save the changes to the account. Click Cancel to return to the previous page without saving the changes.

Chapter 7

View Your Personal Charging Plan

4PSA VoipNow allows you to view detailed information about your account's current charging plan. To access this information, click the  [Home](#) link available in the left navigation panel and then the  Charging plans icon situated in the Tools area.

Depending on the charging plan type (prepaid or postpaid) and its settings, you can view one or more of the following sections:

- Charging plan description
 - Charging plan name – The descriptive name of the charging plan.
 - Charging plan type – The type of the charging plan: prepaid or postpaid.
 - Allow incoming calls - Yes – 4PSA VoipNow displays this information only if your extension can receive calls from extensions that belong to the system as well as from extensions outside the system.

- Allow outgoing external calls - Yes – 4PSA VoipNow displays this information only if your extension can make calls to destinations outside the system.
- Allow outgoing local calls - Yes – 4PSA VoipNow displays this information only if your extension can call other extensions on the same client account.
- Allow outgoing extended local calls - Yes – 4PSA VoipNow displays this information only if your extension can call other extensions in the system (not on the same client account).
- Remaining incoming calls credit – The amount currently available for incoming calls.



Note

This information is available only for prepaid charging plans.

- Remaining outgoing calls credit – The amount currently available for outgoing calls.



Note

This information is available only for prepaid charging plans.

- Number of recharges



Note

This information is available only for prepaid charging plans.

- Incoming money limit – The supplementary credit for external incoming calls.



Note

This information is available only for postpaid charging plans.

- Outgoing money limit – The supplementary credit for external outgoing calls.



Note

This information is available only for postpaid charging plans.

- External outgoing limits – Number of outgoing minutes available, per time interval. The number of outgoing minutes is displayed for each time interval included in the charging plan in the format:

{ m } minutes limit in time interval { T }

The number of remaining minutes in current month is also displayed in format:

{ m } minutes limit in over usage. { m } minutes and 0 seconds remaining in { m } remaining in { month }



Note

This information is available only for `postpaid` charging plans.

4PSA VoipNow displays this section only if the extensions on the client account can make calls to destinations outside the system.

- Outgoing calls charges – These are the charges applied to conversations after the user has exceeded the number of available minutes.
 - Calls are charged indivisible for the first { T } seconds and then every { T } seconds - For the first { T } seconds the call is taxed as one minute; afterwards, taxing is done every { T } seconds.
 - Local calls are charged { money unit } / second – The fee charged for calls between extensions on the same client account.



Note

4PSA VoipNow displays this information only if the extensions can call locally.

- Extended local calls are charged { money unit } / second – The fee charged for calls between extensions belonging to different client accounts from the system.



Note

4PSA VoipNow displays this information only if the extensions can call locally to extensions on different client accounts.

If the charges for external calls are computed using a fixed prices method, 4PSA VoipNow displays the costs for each time interval in the following format:

- Calls made in time interval { T } are charged with { money unit } / second – The price charged for external calls made in time interval { T } .

4PSA VoipNow displays the costs for the calls outside the time intervals specified above:

- Calls made outside these time intervals are charged {money unit} / second – The price charged for external calls made outside time interval { T} .
- External incoming calls charges – These charges apply to calls received from outside the system.




Note

4PSA VoipNow displays this information only if the extensions are allowed to receive external calls.

Chapter 8

View Your Charging Limits History

4PSA VoipNow allows you to view detailed information about a extension's charging limits. To access this information, click the  Charging limits icon available in the Tools area.

The charging limits history table contains the following columns:

- Incoming money limit – Displays the supplementary credit for external incoming calls.
- Outgoing money limit – Displays the supplementary credit for external outgoing calls.
- Over usage minutes – Displays the supplementary over usage minutes limit.
- Every month – Displays the time frame for the charging limits: current month or monthly.
- Order number – Displays the number of the request for allocating the new charging limits.

- Date added – Displays the date when the charging limits were enforced.

Chapter 9

View Extension's Charging Credits History

4PSA VoipNow allows you to view detailed information about the history of recharges for the extension's charging credit. To access this information, click the



Charging credits icon available in the **Tools** area.

The charging credits history table contains the following columns:

- Incoming calls credit – Displays the supplementary credit for incoming calls.
- Outgoing calls credit – Displays the supplementary credit for outgoing calls.
- Order number – Displays the number of the request for allocating the new charging credits.
- Date added – Displays the date when the charging credits were enforced.


Chapter 10

Manage Your Time Intervals

View Time Intervals



Time intervals are used to match calls to a certain period of time. This can be done for charging reasons or in order to filter incoming/ external calls. In the Time Interval Management page, you can view a list of all the available time intervals added to the system.

To access this page, click the  [Home](#) link in the left navigation panel.

Next, click the  Time intervals icon available in the `Tools` area. Multiple operations can be performed:

- Add a new time interval
- Searching the time intervals list
- Edit an existing time interval
- Delete time intervals

4PSA VoipNow displays the following information about each time interval:

- T – The method used to define the time interval:
 -  Individual days method
 -  Interval method
- Name – The time interval's descriptive name. Click this link to edit the time interval's information.
- Intervals - The number of different time intervals defined for the specific time interval block. Click the number displayed to see further information regarding the time intervals:
 - Hours - The hours used as the time interval limits.
 - Week days - The days used as the time interval limits.
 - Days of the month - The month period to which the time interval applies.
 - Month - The month to which the time interval applies.
- Created – The date when the time interval was created.





Note

There is one default time interval for each user in the system named `Full month` that covers the entire month.

Searching the Intervals List

When the time intervals list is too long and you are searching for a specific one, you can use the following features:

- Search – Fill in the text you are looking for in the text box. Click the  button or the `Search` label to display only the time intervals whose name contain that text.
- Show all – Click this  button or the `Show all` label to display the entire list.



The search criteria will be retained even if you navigate to other pages until a new search is performed.

You can change the number of entries per page by clicking the [10](#), [25](#) and [100](#) links available in the right side of the table. The total number of records is shown in the left side.


The time intervals list can be filtered by name and creation date. To do so, click on a table header link. The order criteria is marked by the highlighted table header and the arrow indicates how the time intervals list was sorted. The sort direction can be changed by another click on that header.

Add a New Time Interval

Time intervals are used on call filtering, call routing, charging plans, etc. Whenever a new account is created, the extension must have a charging plan associated to this account. The extension can be charged differently based on the call time interval.

To add a new time interval, click the  [Home](#) link in the left navigation panel. Next, click the  Time intervals icon available in the **Tools** area and follow the next steps:

1.

In the Time Interval Management page, click the  Add time intervals icon.

2. A new page opens, allowing you to enter information about the new time interval:





- The Time interval definition area has two fields which represent the generic description of the time interval block:
 - Name – Use the text box to fill in a descriptive name which will help identifying the time interval.
 - Matching algorithm – A time interval block can be described in two ways:
 - Individual days – This method allows 4PSA VoipNow to match the same time interval in different days. See the example below.
 - Interval – This method allows 4PSA VoipNow to match a continuous time interval that extends over several days. See the example below.
 - Timezone – Use the drop-down list to select the time zone in which your time interval is defined. The default value is `server_default`.



Note

This information is also displayed in the list of time intervals, next to the name of the time interval.

In the description of a charging plan, this information is listed in the Outgoing calls charges area.

- The Matching intervals area allows you to enter multiple time intervals in order to have a more complex and comprehensive overview of the calls. Here you can enter the following parameters:
 - Start at hour and End at hour – Use the available text boxes to specify the limits of the time slot.
 - Start weekday and End weekday – Use these drop-down lists to select the days of the week that define the time slot.
 - Start day of month and End day of month – Use these drop-down lists to select the days of the month that define the time slot.
 - Month - Use this drop-down list to select the month that defines the time slot.
3. Use the   buttons to add several time intervals at the same time:
-  removes the corresponding Time interval.
 -  adds another Time interval.
4. Click OK to add the new time interval(s). Click Cancel to go back to the previous page without adding the interval(s).



Note

You can enter up to **ten** different time intervals to a single time interval block.

Example of a time interval defined in individual days

In the below time interval, 4PSA VoipNow matches the calls made or received between 8:00 – 20:00 hours, on Monday, Tuesday, Wednesday, Thursday and Friday between 1 and 31 of every month.

Time interval definition	
Name *	Individual
Matching algorithm	Individual days
Matching intervals	
Start at hour *	08 : 00
End at hour *	20 : 00
Start weekday	Monday
End weekday	Friday
Start day of the month	1
End day of the month	31
Month	--

A time interval defined in individual days

Example of a contiguous time interval

In the below time interval, 4PSA VoipNow matches the calls made or received between Monday, 8:00 and Friday, 20:00, between 1 and 31 of every month.

Time interval definition	
Name *	Interval
Matching algorithm	Interval
Matching intervals	
Start at hour *	08 : 00
End at hour *	20 : 00
Start weekday	Monday
End weekday	Friday
Start day of the month	1
End day of the month	31
Month	--

A continuous time interval

Example of a time interval block with two different time intervals defined for individual time frames

In the below time interval block, 4PSA VoipNow matches the calls made or received between 8:00 - 18:00 hours on Monday, Tuesday, Wednesday, Thursday and Friday, every month between 1 and 31, as well as the calls made or received between 18:01 - 07:59 hours on Monday, Tuesday, Wednesday, Thursday and Friday, every month between 1 and 31.

Time interval definition

Name *

Matching algorithm

Matching intervals

Start at hour * :

End at hour * :

Start weekday

End weekday

Start day of the month

End day of the month

Month

Start at hour * :

End at hour * :

Start weekday

End weekday


Start day of the month

End day of the month

Month

A time interval block with two different time intervals

Edit a Time Interval

To edit the properties of a time interval, click the  Time intervals icon available in the `Tools` area and follow these steps:

1. In the time interval list, click the name of the time interval you want to change.

2. A new page where you can rename the time interval and modify its start/end hours, days, dates will open. You can also change the matching algorithm.




Note


For more information on the fields in these sections, read the [Add Time Intervals](#) section.

3. Click OK to save the changes you have made to the time interval. Click Cancel to return to the previous page without saving the changes.

Remove a Time Interval



To remove a time interval, click the  Time intervals icon available in the **Tools** area and follow the next steps:

1. Choose the time intervals you want to remove by selecting their corresponding check boxes.
2. Click the  [Remove selected](#) link.
3. You will be asked to confirm the removal. If you want to proceed with the removal, click OK. Otherwise, click Cancel.

Chapter 11

Manage Your Phone Numbers Collections

The phone numbers collections can be used for screening the outgoing calls of a phone terminal extension.

View the Phone Numbers Collections



To access this page, click the  Phone number collections icon available in the `Tools` area.

The Phone Numbers Collections page displays a list of all phone numbers that are assigned to categories. The following information is available:

- Number - The screening number. Click it to modify its settings.
- Category - The category the screening number belongs to.
- Tag - Identification tags.
- Owner - The category's owner.

Searching the Phone Numbers Collection

When the phone numbers collection is too long and you are searching for a specific number, you can use the following features:

- Search – Fill in the number you are looking for in the text box. Click the  button or the `Search` label to display only the names that match the searching criteria.
- Show all – Click this  button or the `Show all` label to display the entire list.

Even if you navigate to other pages, the search criteria will be retained until a new search is performed.


You can change the number of entries per page by clicking the [10](#), [25](#) and [100](#) links available in the right side of the table. The total number of records is shown in the left side.

Also, use the View numbers in category drop-down list to see all the numbers belonging to a certain category.

Add a New Collection Number

To add a new number to a certain collection, follow these steps:

1.

Click the  Add number icon, located in the `Tools` area of the Phone Numbers Collections management page.




Note

In order to add numbers, at least one category must be defined. For more information on adding a new category, see the [Add a Phone Number Category](#) section.

2. These numbers can be imported from a file or manually added from the web interface. The information is grouped into two sections:

- Import collection numbers - Use this sections if you wish to manually import the numbers from a file.
 - Import numbers from file - Select this check box to add the collection numbers from an existing file. If this option is disabled, so are the next two fields.

- Import file - Use this text box or the  button to specify the location of the file containing the collection numbers.
- Field separator - Use this text box to specify the field separator character. The default value is ','.



Note

The uploaded file entries must be in the following format:

```
{phone number},{category_name}
```

- Add collection numbers - Use this section if you want to manually add the collection numbers. If you have previously selected the Import numbers from file check box, this section will be disabled.
 - Number - Use this text box to fill in the collection number.
 - Category - Use the drop-down list to select one of the available phone numbers collections.



You can add/ remove several numbers by using the   icons.

3. Click OK to add the new number(s). Click Cancel to go back to the previous page without adding any numbers.

Edit a Collection Number

If you want to edit an existing phone number, follow these steps:

1. In the Phone Number Collections management page, choose the desired number and click on it.
2. In the new opened page, the information is grouped into two sections:
 - Import collection numbers
 - Modify collection number




Note

For more details on how to edit a collection number, see the [Add a New Collection Number](#) section.

3. Click OK to save the changes. Click Cancel to go back to the previous page without saving anything.

Remove a Collection Number

To remove collections numbers from the system, follow these steps:


1. Choose the numbers you want to delete by selecting their corresponding check boxes in the Phone Numbers Collections management page.
2. Click the  [Remove selected](#) link.
3. You will be asked to confirm the removal. To do so, click OK. If you do not want to delete the numbers, click Cancel.

Manage Phone Number Categories

The phone number categories are number collections used for screening purposes.

View the Phone Number Categories

In order to view the list of all the phone numbers categories in the system,



click the  Categories icon, available in the Tools area of the Phone Numbers Collections management page.

4PSA VoipNow displays the following information about each category:

- Category - The category's descriptive name. Click the link to edit the category's properties.
- Tag - Identification tags.
- Inheritance level - The phone number category's visibility.

Searching the Phone Number Categories

When the phone number categories list is too long and you are searching for specific category, you can use the following features:

- Search – Fill in the text you are looking for in the text box. Click the  button or the Search label to display only the categories that match your search criteria.
- Show all – Click this  button or the Show all label to display the entire list.

The search criteria will be retained even if you navigate to other pages until a new search is performed.

You can change the number of entries per page by clicking the [10](#), [25](#) and [100](#) links available in the right side of the table. The total number of records is shown in the left side.


The phone number categories list can be filtered by category name, tag and inheritance level. To do so, click on a table header link. The order criteria is marked by the highlighted table header and the arrow indicates how the reseller list was sorted. The sort direction can be changed by another click on that header.

Add a Phone Number Category

To add a new phone number category, follow the next steps:

1.



Click the  Categories icon, located in the **Tools** area of the Phone Numbers Collections management page.

2. Fill in the details required in the Add new category section:

- Category - The name of the category.
- Tag - The identification tag.
- Inheritance level - Use this drop-down list to specify the category's visibility:
 - 0 – The category is visible only to the extension user. Always, inheritance level 0 represents the logged in user. For each child user, the level is incremented with 1.
- Description - Use this text area to associate some notes about the purpose and content of the category.



You can add/ remove several categories by using the   icons.

3. Click OK to add the new category(s). Click Cancel to go back to the previous page without adding any categories.

Edit a Phone Number Category

If you want to edit an existing phone number category, follow these steps:

1. In the Categories management page, choose the desired category and click on its name.

2. In the new opened page, you will be able to edit the information grouped into one section:

- Modify category




Note

For more details on how to edit a category, see the [Add a Phone Number Category](#) section.

3. Click OK to save the changes. Click Cancel to go back to the previous page without saving anything.

Remove a Phone Number Category

To remove phone numbers categories from the system, follow these steps:

1. Choose the categories you want to delete by selecting their corresponding check boxes in the Categories management page.
2. Click the  [Remove selected](#) link.
3. You will be asked to confirm the removal. To do so, click OK. If you do not want to delete the numbers, click Cancel.

Export a Phone Number Collection

In 4PSA VoipNow you can export all the phone numbers available in the collection in `.csv` format for sharing them among 4PSA VoipNow servers or for backup purposes.

Click the  [Export numbers](#) link placed above the Collection numbers table, then save the `.csv` file to the desired location.



Chapter 12

Manage Your Sounds

There are two types of sounds: music on hold and announcements sounds.

Music on hold sound files are played when a caller is on hold waiting for someone to answer his call. These sounds files are not language specific because they are usually melodies. Music on hold files can only be uploaded and not recorded over the phone.

An announcement sound is played when the user is notified on an event or when information is requested from the user. These sounds have different files for different languages, allowing the user to listen to the sound version specific to his language preferences. If the files in the requested language do not exist, than the default sounds will be played. This type of sound can be either uploaded or recorded over the phone.

A system sound is a sound that can be seen by all users registered in the system, regardless of their level. Lower level users, like resellers and clients can also define shared sounds, but these can be seen only by the users belonging to their account. Non-system or non-shared sounds can only be used by the user that created them.

Once a system sound is added, it cannot be removed from the system. System sound files can be overwritten by replacing their content with a different sound. Sound files can be deleted or changed only by the user who added them.

View the Sounds List



Note

The **Sounds** section is available only if the **Sound Management** permission has been activated for your account. If this permission hasn't been activated, you will not be able to see the **Sounds** icon in the **Tools** area.





In the Sound Management page, you can view a list of the sounds available in the system.



To access this page, click the  [Home](#) link situated in the left navigation panel. In the new opened page, click the  Sounds icon available in the **Tools** area.

You can perform multiple operations:

- Add and delete sounds from the system
- Search for specific sounds in the system
- Organize sound files by using sound languages and folders

4PSA VoipNow displays the following information about each sound:

- S – The sound status is displayed using an icon:
 -  Enabled
 -  DisabledClick the icon to change the sound's status.
- T – The type of the sound is displayed using an icon:
 -  specifies a **Shared** sound (available to all accounts belonging to the same user)
 -  specifies a **User** sound (available to the user who created it only)
- M – This field describes the purpose of the file by using an icon:

-  specifies an `Announcement` sound
-  specifies a `Music on hold` sound
- **Name** – The name of the sound. Click this link to edit the sound.
- **Folder** – The folder where the sound is located in the system.
- **Languages** – The number of languages for which this sound is defined.





Note

If the sound is used as `Music on hold`, this field displays '-'.

- **Updated** – The date when the sound was last modified.

Searching the Sounds List

When the sound list is too long and you are searching for specific sounds, you can use the following features:

- **Search** – Fill in the text you are looking for in the text box. Click the  button or the `Search` label to display only the sounds whose name or folder contain that text.
- **Show all** – Click this  button or the `show all` label to display the entire list.

The search criteria will be retained even if you navigate to other pages until a new search is performed.

You can change the number of entries per page by clicking the [10](#), [25](#) and [100](#) links available in the right side of the table. The total number of records is shown in the left side.


The sounds list can be filtered by name, folder and update date. To do so, click on a table header link. The order criteria is marked by the highlighted table header and the arrow indicates how the sounds list was sorted. The sort direction can be changed by another click on that header.

Add a New Sound




Note

The **Sounds** section is available only if the **Sound Management** permission has been activated for your account. If this permission hasn't been activated, you will not be able to see the **Sounds** icon in the `Tools` area.

A new sound can be added only if there is at least one sound language available. On extension creation, the default sound language is added to the extension account. When there are no sound languages, click the  Sound languages icon and follow the instructions in the [Add a New Language](#) section to add new languages.

To add a new sound, click the  Sounds icon available in the  Home page, in the `Tools` area and follow these steps:

1.


Click the  Add sound icon available in the `Tools` area.

2. A new page opens, allowing you to enter information about the new sound:

- Sound form
 - Name – The descriptive name for the sound.
 - This is music on hold – Use this check box to specify the purpose of the sound. When this option is selected, the sound can be played to a caller that is on hold. Otherwise, the sound is used for announcement purposes only.
 - This is a system sound – When this option is enabled, all the users in the system can see and use this sound file.
 - Folder – Use this drop-down list to select the folder where the sound will be stored.

If you are creating music on hold sounds (i.e. the check box This is music on hold is enabled), the following option is displayed:

- This is system music on hold – When this option is enabled, the Folder options is disabled and the sound is stored in `/Default` folder.
- Record over the phone

- I want to record sound over the phone – When this option is enabled, 4PSA VoipNow gives you the possibility to record the sound file over the phone rather than uploading it.
- Upload sound files
 - Filename – Click the  button to locate the sound file on your computer and upload it.



Note

4PSA VoipNow accepts the following extensions for sound files: .mp3, .wav, .gsm and .raw.

If you are creating an announcement sound (i.e. the check box This is music on hold is not enabled), the following options are available:

- Language – Use this drop-down list to specify the language of the sound file uploaded in the system.
- Default sound file – When this option is enabled, this file is set as default for the sound. The default file is played for the callers with a phone language that is unavailable for the sound.

For example, let's assume you have created a sound that announces callers that the extension user is on holiday. You have added versions of the announcement in English, French, and Dutch and set the English file as default. The English sound version will be played to any caller that has other phone language set.







Note

Each sound object must have one default sound file associated. When uploading several sound files at the same time, make sure you select only one default file. Otherwise, 4PSA VoipNow will display an error message.

3.





You can use the   buttons to remove/ add versions of the sound in different languages:

-  removes the Upload sound section.
-  adds another Upload sound files section.

4. Click OK to add the new sound. Click Cancel to go back to the previous page without adding the sound.

Edit Sound Information

To edit the information on an existing sound, click the  Sounds icon available in the  [Home](#) page, in the **Tools** area. In the new opened page, you can modify the sound's properties. For example, you can:

- Add and delete files containing versions of the sound for different languages
- Change the shared flag of an announcement sound

To edit the properties of a sound follow these steps:

1. Click the name of the sound you want to modify.
2. A new page opens, allowing you to change the details of the sound. The content of this page depends on the purpose of the sound: `announcement` or `music on hold`.

If the sound is an announcement sound, the information is grouped in the following sections:

- Sound properties - This section can not be modified.
- Record sound file over the phone
 - I want to record sound over the phone - Enable this option if you want to record the sound over the phone.
- Upload sound files – Use this section to upload files containing versions of the sound in different languages.





Note

When you upload a sound file associated with a language that already exists, 4PSA VoipNow replaces the old file with the new version. Before this operation is performed, 4PSA VoipNow asks you to confirm the replacement.

3.



Use the   buttons to remove/ add versions of the sound in different languages.

If the sound is a `music on hold` sound, you can use the Upload sound files section to replace the current music on hold file.

4. Click OK to save your changes. Click Cancel to go back to the previous page without changing the sound.

To manage the existing sound files associated with an announcement sound, follow these steps:

1. Click the name of the sound you want to modify.
2. A new page opens, allowing you to view a detailed list of the existing files. In the Existing sounds section, 4PSA VoipNow displays the following information about each file:
 - Filename – The name of the file. Click this link to download it on your computer.
 - Sound file size – The file's size in Kb.
 - Folder – The folder where the file is located.
 - Language – The language associated with the sound file.






Note

The default sound file of the sound object is displayed in **bold** format.

3. Click OK to save your changes. Click Cancel to go back to the previous page without changing the sound.

Remove a Sound

To remove a sound, click the  [Home](#) link available in the left navigation panel, than the  Sounds icon and follow the next steps:

1. Choose the sounds you want to remove by selecting their corresponding check boxes.
2. Click the  [Remove selected](#) link. A new page displaying the list of the sounds that will be deleted opens.
3. Review the list. If you want to proceed with the removal, select the **Confirm** the removal check box and click OK. Otherwise, click Cancel to return to the previous page without deleting anything.



Caution

You cannot remove sounds that are currently used.

You cannot remove a music on hold sound if the following conditions are met:

- The folder where the sound is located is used.
- The sound is the only one left in the folder.

Manage Sound Folders



Note

The **Sounds** section is available only if the **Sound Management** permission has been activated for your account. If this permission hasn't been activated, you will not be able to see the **Sounds** icon in the **Tools** area.

View the Folder List

In the Sound Folder Management page, you can view a list of the sound folders available in the system. Multiple operations can be performed:

- Add a new sound folder
- Delete sound folders and their content
- Search for specific folders

To access this page, click the  Sounds icon available in the **Tools** area



and then on the  Folders icon.

4PSA VoipNow displays the following information about each folder:

- Folder name – The name of the sound folder.
- Sounds – The number of sounds stored in the folder. Click this link to open a new page listing these sounds.
- Created – The date when the folder was added to the system.

Searching the Folders List

When the time folder list is too long and you are searching for specific time intervals, you can use the following features:

- Search – Fill in the text you are looking for in the text box. Click the  button or the Search label to display only the folders whose names contain the text.
- Show all – Click this  button or the show all label to display the entire list.



Even if you navigate to other pages, the search criteria will be retained until a new search is performed.






You can change the number of entries per page by clicking the [10](#), [25](#) and [100](#) links available in the right side of the table. The total number of records is shown in the left side.

The sound folders list can be filtered by folder name, sounds and creation date. To do so, click on a table header link. The order criteria is marked by the highlighted table header and the arrow indicates how the folder list was sorted. The sort direction can be changed by another click on that header.




Add a New Sound Folder


Each time you add new sound files in the system you choose the folder name where you want them to be stored. If you want to store a sound in a specific folder, other than the ones already existent, you can add a new sound folder before adding sound files.

To create a new sound folder, click the  Sounds icon available in the Tools area and than on the  Folders icon and follow the next steps:

1. In the Sound Folder Management page, click on the  Add folder icon.
2. A new page opens, allowing you to enter the name of the new folder. Use the available text box to name the new folder.
3. Use the   buttons to add several folders at the same time:
 -  adds a new folder input text box.
 -  removes the corresponding text box.
4. Click OK to add the new sound folder(s). Click Cancel to go back to the previous page without adding the folder(s).

Remove a Sound Folder

To remove a sound folder, click the  [Unified Communications](#) link in the left navigation panel. Next, click the  Sounds icon, in the Unified Communications settings area. In the new opened page, click the  Folders icon in the Tools area and follow the next steps:

1. Choose the folders you want to delete by selecting their corresponding check boxes.
2. Click the  [Remove selected](#) link. A new page displaying the list of folders and the sounds located in the folders that will be deleted opens.



Note

When you delete a folder, you also delete all the sounds located in the folder.

3. Review the list. If you want to proceed with the removal, select the `Confirm the removal` check box and click OK. Otherwise click Cancel to return to the previous page without deleting anything.



Note

If the sounds inside the folder are currently used by extensions, these sounds cannot be deleted. The folder that contains them cannot be deleted either.

Manage Sound Languages



View the Language List

A sound file can be recorded in several languages so that the extension can listen to the specified announcement in his chosen language if available in the system. If the extension's language does not exist, then the announcement will be played in the default sound language.

In the Sound Language Management page, you can view a list of the languages available in the system. Multiple operations can be performed:

- View a detailed list of the system languages

- Add a new sound language
- Search for specific languages
- View the sounds that have files in different languages
- Delete sound languages from the system

To access this page, click the  Sounds icon available in the Tools area and then on the  Sound languages icon.

4PSA VoipNow displays the following information about each sound language:

- Language name – The name of the language.





Note

When there is no sound file associated with the language, you can click the language name to rename the language properties.

- Sound files – The number of sound files in this language. Click this link to view the list of sound files.
- Created – The date when the language was added to the system.

Searching the Languages List

When the language list is too long and you are searching for specific languages, you can use the following features:

- Search – Fill in the text you are looking for in the text box. Click the  button or the Search label to display only the languages whose names contain that text.
- Show all – Click this  button or the Show all label to display the entire list.



Even if you navigate to other pages, the search criteria will be retained until a new search is performed.






You can change the number of entries per page by clicking the [10](#), [25](#) and [100](#) links available in the right side of the table. The total number of records is shown in the left side.

The languages list can be filtered by name, sound files and creation date. To do so, click on a table header link. The order criteria is marked by the highlighted



table header and the arrow indicates how the languages list was sorted. The sort direction can be changed by another click on that header.

Add a New Language

To create a new language, click the  Sounds icon available in the Tools area and then on the  Sound languages icon and follow the next steps:



1. In the Sound Language Management page, click on the  Add sound language icon.
2. A new page opens, allowing you to provide the name of the new sound language. Use the drop-down list to add one of the available languages to the system.
3. Use the   buttons to add several languages at the same time:
 -  adds another drop-down list so you can create another language.
 -  removes the corresponding drop-down list.
4. Click OK to add the new sound language(s). Click Cancel to go back to the previous page without adding the language(s).


Edit Language Details

To change a language's details, click the  Sounds icon available in the Tools area and then on the  Sound languages icon and follow the next steps:

1. Click the name of the language you want to modify.
2. A new page in which you can use the Name drop-down list to choose another name for the language opens.
3. Click OK to save your changes. Click Cancel to return to the previous page without renaming the language.

Remove a Sound Language

To remove sound languages, click the  Sounds icon available in the Tools area and then on the  Sound languages icon and follow the next steps:

1. Choose the languages you want to delete by selecting their corresponding check boxes.
2. Click the  [Remove selected](#) link. A new page displaying the list of languages and their associated sounds that will be deleted opens.
3. Review the list. If you want to proceed with the removal, select the `confirm` the `removal` check box and click OK. Otherwise click Cancel to return to the previous page without deleting anything.

Chapter 13


View Your Call Costs

View Your Extension's Call Costs

4PSA VoipNow offers an easy way to keep track of the calls made by all the extensions in the system.



















In the Call Report page, you can view a monthly report of all registered calls. You can also:

- Search for specific calls.
- Export the call list to a file in one of the available formats: Microsoft Excel or CSV.

To access this page, click the  Call costs icon available in the Tools area.

4PSA VoipNow displays a table containing the calls registered in the current month. To view the calls from a previous month, use the drop-down list available in the page.

The table includes the following details about each call:

- F – The call flow is displayed using an icon:
 -  Incoming call
 -  Outgoing call
- T – The call type is displayed using one of the icons:
 -  External call
 -  Local call
 -  Extended local call
- A – The application used by the call is displayed using an icon:
 -  Dial
 -  Voicemail center
 -  Voicemail
 -  IVR
 -  Conference
 -  Queue
 -  Park
 -  Unpark
 -  Callback
 -  Calling card
 -  Fax
 -  Intercom/paging
 -  Supervising
- From – The number of the extension that initiated the call.
- To – The number of the extension that answered the call.
- Call started – The date and time when the call was initiated.

- Answered - The date and time when the call was answered.
- Call duration – The duration of the call.
- CallID – The unique number that Asterisk generated to identify the call.
- Client – The name of the client who owns the extension.
- Call cost – The cost of the call for the logged in user.
- Profit – The profit made by the logged in user from this call.




Caution

It is highly advisable to hunt for the call costs that have a negative profit!




Note

You can filter the displayed columns by clicking the  **Show columns** button. After choosing the desired columns, click on **Apply** in order to save the changes. Likewise, if you cannot see some of the above columns, it is likely that they have been disabled using this control.

Searching the Calls List

To search the calls database, follow these steps:


1. 4PSA VoipNow automatically displays only the calls from the current month. If you want to view the call list for previous months, use the following options:
 - From number - Use this text box to fill in the number of the person who made the call.
 - To number - Use this text box to fill in the number of the person who answered the call.
 - Account name – Use this text box to fill in the account name (on reseller, client or extension levels) you are searching for.
 - Charging plan - Use this text box to fill in the charging plan name that generated the call cost you are searching for.
 - CallID – Use this text box to fill in the unique number that Asterisk generated to identify the call.
 - Through channel - Use this drop-down list to search only for the calls that were directed through a specific channel.


- Selected channel prefix- This value is available only for outgoing external calls. It contains the prefix of the dialed number that was matched with one of the area codes defined in the routing channel's costs.
- Call duration – Use this section to specify the call duration limits by filling in the fields from the rule:
Higher than { x} seconds and/or lower than { y} seconds
- Call cost – Use this section to specify the call cost limits by filling in the fields from the rule:
Higher than { x} and/or lower than { y}
- Profit – Use this section to specify the profit limits by filling in the fields from the rule:
Higher than { x} and/or lower than { y}
- Call ended with – Use the drop-down list to filter calls that ended with:
 - Answered
 - No answer
 - Busy
 - Failed
 - Unknown
 - Not allowed
- Start search on { x} and end on { y} - Use these text boxes or click the  calendar icon to specify the period you want to search.
- Display - Use these radio buttons to filter the search results:
 - All – Select this option to display all the call types in the list.
 - Incoming calls – Select this option to display only the calls that were received.
 - Outgoing calls – Select this option to display only the calls that were placed.
- Limit search by call context – Use these radio buttons to filter the search results:
 - All – Select this option to display all the calls.
 - Local calls – Select this option to display only the calls made to local numbers (between extensions belonging to the same client).

- Extended local calls – Select this option to display only the calls made to extended local numbers (between extensions belonging to different clients).
- External calls – Select this option to display only the calls received from outside the system or sent to external destinations.
- Limit search by application – Select these check boxes to filter the search results by the application used by Asterisk to handle the call:
 - Dial – Select this option to display the calls between two phone terminals.
 - Queue – Select this option to display the calls targeted at queue extensions.
 - Conference – Select this option to display the conference calls.
 - Voicemail – Select this option to display the calls that ended in the voice mailbox.
 - Voicemail center – Select this option to display the calls to a voicemail center extension type.
 - IVR – Select this option to display calls targeted at IVR extensions.
 - Park – Select this option to display calls that were parked.
 - Unpark – Select this option to display calls that were picked up from the parking lot.
 - Calling card - Select this option to display calls that were made using an extension of type calling card.
 - Intercom/paging - Select this option to display the calls made through an intercom/paging extension type.
 - Callback - Select this option to display calls that were made using an callback extension type.
 - Fax - Select this option to display incoming fax calls stored on the server.
 - Supervising - Select this option to display the supervised calls.

2. Click OK to display only the records that fit your search criteria.

Export Reports to an Easy-to-Edit Format

-  [Export to Excel](#) – Click this link to export the call costs report to a Microsoft Excel file.

-  [Export to CSV](#) - Click this link to export the call costs report to a .csv format file.

You have the possibility to customize the exported call cost report by choosing the columns you want to include in your report. To select the relevant columns that will appear in the exported report, click the `Show export` button in the upper right corner of the screen. Select the check boxes corresponding to the column names you want to export. Deselect the check boxes corresponding to the column names you want to leave out.

This is the list of all possible columns you can export in your customized report:

- Call flow - The direction of the call: incoming or outgoing.
- Call type - The received call's type
- Application - The application that answered the call. Any of the applications listed under Limit search by application (see above) can answer the call.
- To number - The phone number of the person who answered the call.
- From number - The phone number of the person who made the call.
- Call started - The date and time when the call started ringing on the destination phone.
- Call answered - The date and time when the call was answered. If the call was not answered, 4PSA VoipNow records the value: 0000-00-00 00:00:00
- Call duration - The total length of the received call.
- Call disposition - The way the call was terminated: it was either answered, not answered, failed, etc
- Charging plan - The charging plan that generated the call cost.
- Call cost - The call's cost as charged by the channel.
- Money unit - The currency currently used for charging.
- Call ID - The unique ID of the call generated by 4PSA VoipNow.
- Transfer source - If the call was transferred to another extension, this column will list the source extension.
- Transfer destination - If the call was transferred to another extension, this column will list the destination extension.
- Initially called extension - If the call was picked up from another extension, this column will display the extension that was originally called.

- Callback caller-ID - If the caller used a callback extension to route its call to a remote destination, this column displays the authorized caller-ID (the number from which the user dialed the system).
- Calling card code - If the caller used a calling card to call a destination number, this column displays the code introduced to authenticate and charge the call.

Chapter 14

Manage Your Email Templates

Manage Email Notifications

4PSA VoipNow can send email notifications to its users when standard events occur. The text of the notifications can be customized. The system can be also setup to send only some notifications and only to certain users.



To access this page, click the  Email templates icon located in the Tools area.

You can set the notification preferences for a series of events displayed on the first column.



Note

If you want all the email notifications from a specific category to be sent to a certain user, select the check box from the user's column header.

Therefore, you can enable email notifications for your own account. When a new account is created, it inherits the upper level account email notification options. Afterwards, the account owner can change these options in the same way in the Email Template Management page.

When an account is created, the new owner can receive a mail notifying him that the account was registered. This notification is made only if the upper level account owner has the notification enabled.



Note

The email notification will be sent to the email address specified in the account information.

Notification emails can also be sent to an email address specified in the E-mail address column. This email address can be different for each selected event.

The events that can trigger an email notification are displayed in the Email Template Management page:

- Extension email templates
 - Extension creation – This email notification is triggered by the creation of an extension account.
 - Extension expiration warning – The email notification triggered by this event is sent { x} days in advance, as specified in the Send expiration noticesfield.
 - Extension expired - The email notification triggered by this event is sent after the extension account has expired.
 - Extension charging limit warning – The email notification triggered by this event is sent when the available number of minutes is below { y} minutes or when the credit is below the { credit_limit} , as specified in the Send charging limit warnings when the account is below field.
 - Extension charging limit exceeded - The email notification triggered by this event is sent after the charging limit was exceeded.

For the events in this field set, 4PSA VoipNow can deliver email alerts to the following users:

- The client that owns the extension account
- The extension account owner
- A custom email address
- Unified Communications email templates

- Voicemail message notification - The email notification triggered by this event is sent after a voicemail message has been received.
- Fax message received - The email notification triggered by this event is sent after a fax message has been received.
- Sent fax accepted - The email notification triggered by this event is sent after a fax message has been accepted by the receiver.
- Sent fax not accepted - The email notification triggered by this event is sent if the receiver has not accepted the fax message.
- Fax delivery report - 4PSA VoipNow can send a delivery report for all the sent fax messages.

For the events in this field set, 4PSA VoipNow can deliver email alerts to the following users:

- The extension account owner
- A custom email address
- Security email templates
 - Customer password forgotten notification – For this event, 4PSA VoipNow will send an email message containing a temporary password to the user who has forgotten his password and requested a new one. This password is valid only for the time period specified in the Login Preferences page, in the Expiration time for new password field.

In the Preferences section you can specify the conditions in which the warning emails will be sent:

- Send expiration notices {x} days in advance – Use this text box to specify how many days before the account expiration a notifications is dispatched to the users.
- Send charging limit warnings when the account is below {y} minutes or {credit_limit} {currency} – A charging limit warning is generated in one of the following cases:
 - The minutes remaining in the Available external outgoing minutes plus the minutes remaining in the External outgoing over usage go below a certain limit.
Use the first text box to specify this minutes limit.
 - The credit remaining in Limit for external outgoing calls goes below a certain limit.

Use the second text box to specify this money limit.

- The credit remaining in Limit for external incoming calls goes below a certain limit.


The money limit you specified for external outgoing calls in the above text box, includes the external incoming calls money limit.

To enable notifications for users, follow the steps:

1. From the available check boxes, select the ones corresponding to the users you want to notify for that event.
2. Click OK to save your options. Click Cancel to return to the previous page without saving the changes you have made.

Customize the Email Content

To customize the subject and content of an email notification, follow these steps:

1. Click the  icon corresponding to the chosen event.
2. A new page allowing you to edit the email subject and email body opens. Modify the text, keeping in mind the following rules:
 - You may use only plain text when writing the email subject and content. The email is also sent in plain text format.
 - You can include tags that will be automatically replaced by the system with the appropriate content. Examples:
[recipient_name] is replaced with the name of the person receiving the notification.
3. Click OK to save the changes to the email. Click Cancel to return to the previous page without saving the changes.

Restore the Default Settings

To restore the default notification settings and email contents, click the Default button.



Note

When you click the **Default** button, 4PSA VoipNow will not overwrite the other email address destination.

Appendix A. Using the Text To Speech Feature

The text to speech feature allows you to convert written text into speech. 4PSA VoipNow uses the text to speech engine developed by [Cepstral](#).

Controlling How the Text is Read

The Cepstral engine allows you to control the voice reading the text by specifying attributes such as rate, pitch and volume or by inserting pauses. This can be achieved by using a set of HTML-like tags; the tags make up the Speech Synthesis Markup Language (SSML).

This section offers a set of SSML examples that can be used with the Cepstral engine. For more detailed descriptions of the elements and attributes of the markup language, see the official W3C SSML Specifications: <http://www.w3.org/TR/speech-synthesis/>

Inserting silence/ pauses

You can insert pauses between words, sentences or paragraphs by using the `<break>` empty tag. To control the length of the break, you can use two attributes: `strength` and `time`.

```
"There is no <break strength='none' /> pause here."
```

```
"This is a <break strength='x-weak' /> pause between words."
```

```
"This is a <break strength='weak' /> longer pause between words."
```

```
"This is a <break strength='medium' /> pause between sentences."
```

```
"This is a <break strength='strong' /> pause between paragraphs."
```

```
"This is a <break strength='x-strong' /> longer pause between paragraphs."
```

```
"This is a <break time='2s' /> two second pause."
```

```
"This is a <break time='4500ms' /> 4.5 second pause."
```

```
"This is a <break /> pause between sentences."
```

Controlling the Speech Rate

You can control the rate of the speech by using the `prosody` element and specifying a value for its `rate` attribute.

```

"I am now <prosody rate='x-slow'>speaking at half speed.</prosody>"
"I am now <prosody rate='slow'>speaking at 2/3 speed.</prosody>"
"I am now <prosody rate='medium'>speaking at normal speed.</
prosody>"
"I am now <prosody rate='fast'>speaking 33% faster.</prosody>"
"I am now <prosody rate='x-fast'>speaking twice as fast</prosody>"
"I am now <prosody rate='default'>speaking at normal speed.</
prosody>"
"I am now <prosody rate='.42'>speaking at 42% of normal speed.</
prosody>"
"I am now <prosody rate='2.8'>speaking 2.8 times faster than normal</
prosody>"
"I am now <prosody rate='-0.3'>speaking 30% more slowly than
normal.</prosody>"
"I am now <prosody rate='+0.3'>speaking 30% faster than normal.</
prosody>"

```

Controlling the Voice Pitch

You can control the pitch of the speech by using the `prosody` element and specifying a value for its `pitch` attribute.

```

"<prosody pitch='x-low'>This is half-pitch</prosody>"
"<prosody pitch='low'>This is 3/4 pitch.</prosody>"
"<prosody pitch='medium'>This is normal pitch.</prosody>"
"<prosody pitch='high'>This is twice as high.</prosody>"
"<prosody pitch='x-high'>This is three times as high.</prosody>"
"<prosody pitch='default'>This is normal pitch.</prosody>"
"<prosody pitch='-50%'>This is 50% lower.</prosody>"
"<prosody pitch='+50%'>This is 50% higher.</prosody>"
"<prosody pitch='-6st'>This is six semitones lower.</prosody>"
"<prosody pitch='+6st'>This is six semitones higher.</prosody>"
"<prosody pitch='-25Hz'>This has a pitch mean 25 Hertz lower.</
prosody>"
"<prosody pitch='+25Hz'>This has a pitch mean 25 Hertz higher.</
prosody>"

```

```
"<prosody pitch='75Hz'>This has a pitch mean of 75 Hertz.</prosody>"
```

Controlling the Output Volume

You can control the volume of the speech by using the `prosody` element and specifying a value for its `volume` attribute.

```
"<prosody volume='silent'>This is silent.</prosody>"
"<prosody volume='x-soft'>This is 25% as loud.</prosody>"
"<prosody volume='soft'>This is 50% as loud.</prosody>"
"<prosody volume='medium'>This is the default volume.</prosody>"
"<prosody volume='loud'>This is 50% louder than normal.</prosody>"
"<prosody volume='x-loud'>This is 100% louder than normal.</prosody>"
"<prosody volume='default'>This is the default volume.</prosody>"
"<prosody volume='-33%'>This is 33% softer than normal.</prosody>"
"<prosody volume='+33%'>This is 33% louder than normal.</prosody>"
"<prosody volume='33%'>This is 33% louder than normal.</prosody>"
"<prosody volume='33'>This is 33% of normal volume than normal.</prosody>"
```

Adding Emphasis to the Speech

You can control the stress placed on certain pieces of text by using the `emphasis` element and specifying a value for its `level` attribute.



Note

The nature of emphasis differs between languages, dialects or even voices. Languages indicate emphasis using a possible combination of pitch change, timing changes, loudness and other acoustic differences

```
"This is <emphasis level='moderate'>stronger</emphasis> than the rest."
```

```
"This is <emphasis level='strong'> even stronger</emphasis> than the previous."
```

```
"This is <emphasis level='none'>the same as</emphasis> than the rest."
```

```
"This is <emphasis level='none'>the opposite of</emphasis> emphasis."
```



Note

The **none** level is used to prevent the synthesis processor from emphasizing words that it might typically emphasize.

Spelling Words Phonetically

The `phoneme` element provides a phonemic/phonetic pronunciation for the contained text. The `ph` attribute is a required attribute that specifies the phoneme/phone string.

"You say `<phoneme ph='t ah0 m ey1 t ow0'>tomato</phoneme>`, I say `<phoneme ph='t ah0 m aa1 t ow0'>tomato</phoneme>`"

For a complete list of available phonemes for your language, please see the Cepstral page [Editing the Lexicon](#).