

Understanding the Call Reports in VoipNow

Applies to VoipNow 5.X.X!

If you have a business or a contact center with a high call traffic, VoipNow's **Call Reports** feature allows you to automatically keep track of all the incoming and outgoing call flows. This tool enables you to monitor and assess your agents' performance as well as track overall call costs with zero effort.

This article explains the information gathered in **Call Reports** based on your selected criteria. Also, you will learn how to export these reports in case you need them in other formats, i.e. .xls or .csv.

Overview

To access this feature, go to VoipNow's main menu, select **Call Reports**, then click the **Reports** tab.

The **Call Reports** area is divided into three sections:

- **Search Calls**, where you get to set the call report filters. For explanations on each filter, including the latest additions made available in VoipNow 5.X.X - i.e. **Group calls by CallID**, **Call Supervising** and **User Calls**, scroll down the page.
- **Export Columns**, where you can select the columns that you want to see in your exported report.
- **Call List**, where you can view the current month's calls registered in the system.

Understanding the Call Reports filters

In the **Search Calls** area, you will find a large set of filters that let you drill down call statistics to the smallest detail.

Search Calls

From number: Starting with 1801

To number: Ending with 001

Account name: All levels

Company name: All levels

Charging plan: Admin Charging Plan

CallID:

Through channel: ExternalChannel

With callerID:

Caller IP:

With network code:

Selected channel prefix:

SIP-CallID:

Called DID:

PRI channel:

Call duration: Bigger than seconds and smaller than seconds

Call cost: Bigger than and smaller than

Profit: Bigger than and smaller than

Call ended with: Answered

Start search on: 2017-08-01 and end on: 2017-09-01

Hangup cause: Any

Display: ☒ All ☐ Incoming calls ☐ Outgoing calls

Limit search by call context: ☒ All ☐ Local calls ☐ Extended local calls ☐ External calls

Limit search by application: ☒ Dial ☒ Queue ☒ Conference ☒ Voicemail ☐ Voicemail center ☒ IVR ☒ Park ☒ Unpark ☐ Calling card ☐ Intercom/Paging ☒ Callback ☐ Fax ☒ Queue Supervising ☒ User Call ☒ Call Supervising

Group calls by callID: ☒ Yes ☐ No

Show All OK

From number

This filter allows you to narrow the report to calls from specific phone numbers. From the drop-down list, you can select calls placed from numbers **Starting** or **Ending with** specific digits. Or you can select **Exact match** and enter the exact phone number placing the calls.

To number

Just like the above-mentioned filter, you can set the report to record only calls placed to certain phone numbers - starting or ending with specific digits, or matching an exact full phone number.

Account name/Company name

You can indicate the name of the company and of the account (of the service provider, organization or user), whose calls you want to see in your report.

Charging plan

This filter lets you track strictly the calls registered under a specific charging plan.

CallID/Through channel

The report can track calls based on the unique number that Asterisk generates to identify them, i.e. the CallID. Also, if you want to analyze only calls placed through a specific channel, you can select it from the Through channel drop-down list.

With CallerID/Caller IP

You may track calls based on the CallerID and/or the Caller IP of the person who placed them.

With network

You can track calls by specifying the network code in which the calls were placed (defined on Channel Cost). The report will only track the calls placed in that specific network.

Selected channel prefix

This filter applies only for external outgoing calls. This is where you can indicate the prefix of the dialed number that was matched with one of the area codes that you have defined in the [routing channel's costs](#).

Example

Let's assume the user dials the external number 8010400 and the channel that routes the call has defined 2 costs:

- Area code 80 charges 0.2 USD
- Area code 801 charges 0.5 USD

Since area code 801 is the closest matching prefix for the dialed number, the caller will be charged 0.5 USD. If the entry corresponding to 801 would have been deleted, the closest matching prefix would be 80 and the caller would be charged only 0.2 USD.

Assuming this was an error caused by the administrator; when updating the channel costs, the administrator forgot to delete the entry corresponding to 801. This error would be hard to trace if the channel had more than 20 costs defined.

SIP-CallID

This filter lets you track calls based on their SIP specific CallID (unique for each call).

Called DID

This filter refers to the called Direct Inward Dialing (DID) number.

PRI channel

This field is where you specify the identification number of the PRI card that contains the channel through which the call was made.

Call duration

You may filter calls by their length. Just fill in the time limits in the **Bigger than <x> seconds and/or smaller than <y> seconds** rule.

Call cost

You may also filter calls by their costs. Set the cost limits in the **Bigger than <x> and/or smaller than <y>** rule.

Profit

To narrow calls by profit, set the limits in the **Bigger than <x> and/or smaller than <y>** rule.

Call ended with

This filter is very helpful, because it allows you to track calls based on how they were handled. From the drop-down list you can set the report to track only the calls that were answered or missed, the calls that could not be answered because the callee was in another conversation, the calls that could not reach their destination, the calls that were not authorized to reach their destination. You can even identify the calls with an unknown resolution.

Start and end search on

Click on the calendar icon to set a time interval for your report.

Hangup cause

This filter lets you narrow calls by their hangup cause. You have close to 50 hangup causes to choose from the drop-down list. For more info, read the Hangup Causes section in [this page](#).

Display

You may have your report track only incoming, or outgoing calls.

Limit search by call context

This filter distinguishes between local calls, extended local calls and external calls. Local calls refer to those made between extensions that belong to the same organization. Extended local calls refer to those made between extensions that belong to different organizations. External calls refer to those received from/made to destinations outside the VoipNow.

Limit search by application

VoipNow lets you track calls based on the application used by Asterisk to handle them. Simply select the checkbox of the filters you're interested in.

- **Dial** – Displays the calls between two phone terminals.
- **Queue** – Displays the calls of queue extensions.
- **Conference** – Displays conference calls.
- **Voicemail** – Displays the calls that ended in the voice mailbox.
- **Voicemail center** – Displays the calls of voicemail center extensions.
- **IVR** – Displays the calls of IVR extensions.
- **Park** – Displays parked calls only.
- **Unpark** – Displays the calls picked from the parking lot.
- **Calling card** – Displays calls placed through Calling Card extensions.
- **Intercom/paging** - Displays calls made through Intercom/Paging extensions.
- **Callback** - Displays calls made through Callback extensions.
- **Fax** - Displays incoming fax calls stored on the server.
- **Queue supervising** - Displays monitored Queue calls.
- **User Call** - Displays all calls between Hubgets users.
- **Call supervising** – Displays calls monitored using Monitor or Bargain operations.

Group calls by callID

A simple phone call can be split into several legs, depending on the parties involved in the conversation. These call legs have the same callID.

Select **Yes**, if you want all call legs to be grouped into a single table entry, i.e. one head row with details like overall **Call Duration**, **Call Cost** and **Profit**. Please note that the rest of details in the head row refer strictly to the first call leg (the party that initiated the call).

Call List

October 2017

A	E	From	To	Call Schematic
		0003*001	0003*002	Default user →

1 call groups (0 USD)

To see call leg details individually, go to the head row and click the **Expand** icon in the **E** column. Each call leg will be displayed on a separate table row with details like caller, callee, call schematic, the time the call was initiated and answered to, etc.

Call List

October 2017

A	E	From	To	Call Schematic	Initiated	Answered	Call Duration
		0003*001	0003*002	Default user →	-	-	00:00:19
		0003*001	0003*002	Default user →	-	-	00:00:00
		0003*001	0003*002	→ Default user	-	-	00:00:00
		0003*001	0003*002	Default user →	Oct 15, 2017 23:18:36	Oct 15, 2017 23:18:36	00:00:19
		0003*001	0003*002	→ Default user	Oct 15, 2017 23:18:36	Oct 15, 2017 23:18:36	00:00:19

1 call groups (0 USD)

If you select **No**, the report will show each call leg in a separate row.

Checking the Call List

By default, the Call List displays the current month's calls.

If you want to see the call list of a previous month, select it from the drop-down list at the top of the table. If you want to see the list of all calls, from the same drop-down list, select "-".

Call List									
Show Columns Export to Excel Export to CSV									
Call List	To	Call Schematic	Call Duration	CallID	Company Name	CallerID	Caller IP	Call Cost	Profit
September 2017	2499*002	PapaNas2 Owner →	00:00:00	1504015729.20002	ORG2 PapaNas	PapaNas2 Owner (2499*001)	192.168.3.207:ws	0 USD	0 USD
August 2017	2499*001	Papanas 2User →	00:00:32	1504009529.2	ORG2 PapaNas	Papanas 2User (2499*002)	192.168.3.207:ws	0 USD	0 USD
July 2017	2499*001	Papanas 2User →	00:00:32	1504009389.20062	ORG2 PapaNas	Papanas 2User (2499*002)	192.168.3.207:ws	0 USD	0 USD
June 2017	2499*001	Papanas 2User →	00:00:32	1504009251.2006	ORG2 PapaNas	Papanas 2User (2499*002)	192.168.3.207:ws	0 USD	0 USD
May 2017	2499*001	Papanas 2User →	00:00:32	1504009238.20058	ORG2 PapaNas	Papanas 2User (2499*001)	192.168.3.207:ws	0 USD	0 USD
April 2017	2499*002	2499*001	00:00:32	1504008869.20056	ORG2 PapaNas	Papanas 2User (2499*002)	192.168.3.207:ws	0 USD	0 USD
March 2017	2499*002	2499*001	00:00:32	1504008805.20054	ORG2 PapaNas	Papanas 2User (2499*002)	192.168.3.207:ws	0 USD	0 USD
February 2017	2499*001	2499*002	00:00:32	1504007097.2005	ORG2 PapaNas	PapaNas2 Owner (2499*001)	192.168.3.214:ws	0 USD	0 USD
January 2017	2499*001	2499*002	00:00:32	1504006967.20046	ORG2 PapaNas	PapaNas2 Owner (2499*001)	192.168.3.214:ws	0 USD	0 USD
December 2016	2499*001	2499*002	00:00:32	1504006826.20042	ORG2 PapaNas	PapaNas2 Owner (2499*001)	192.168.3.214:ws	0 USD	0 USD
October 2016	2499*001	2499*002	00:00:32	1504006826.20042	ORG2 PapaNas	PapaNas2 Owner (2499*001)	192.168.3.214:ws	0 USD	0 USD
1 - 10 call groups of 1,458 total (0 USD) Pages: First << 1 2 3 4 5 >> Last Number of entries per page: 10 25 100									

Please note that some of the columns in this list might not be displayed by default. To change the columns you want to see displayed, click the [Show columns](#) icon and, from **Table Layout** pop-up select (or deselect) the columns you're interested in. Press **Apply** when you're done and the **Call List** table will show your selected columns.

Table Layout

☒ Type

☒ Application Type

☒ Caller Number

☒ Receiver Number

☐ Transfer Source

☐ Transfer Destination

☒ Call Schematic

☐ Ringing Started

☐ Initiated

☐ Answered

☒ Call Duration

☒ CallID

☒ Company Name

☐ SIP-CallID

☐ Called DID

☐ PRI channel

☒ CallerID

☒ Caller IP

☒ Call Cost

☒ Profit

Cancel

Apply

Exporting Call Reports

VoipNow lets you export calls reports in .xls or .csv formats. If you don't need to export the full report, but only parts of it, you can select the columns you're interested in.

Export Columns

Call flow

☐

Call type

☒

Application

☒

To number

☒

From number

☒

Call initiated

☒

Ringing started

☐

Call answered

☒

Call duration

☒

Call disposition

☒

Service Provider

☒

Company name

☒

Contact full name

☒

Contact first name

☒

Contact last name

☒

Service Provider ID

☒

Organization ID

☐

Charging plan

☒

Call cost

☐

Call profit

☒

Money unit

☒

Original channel

☐

Call ID

☐

Transfer source

☒

Transfer destination

☒

Initially called extension

☒

Selected channel prefix

☒

Parent call ID

☐

Callback CallerID

☐

Channel name

☒

Calling card code

☒

SIP-CallID

☐

Called DID

☐

PRI channel

☐

Hangup cause

☐

Network code

☒

Flow reference extension

☒

CallerID

☒

Caller IP

☐

Default

OK

STEP 1: By default, the **Export Columns** section is minimized. To expand this section, click the arrow on the right.

STEP 2: Select the columns you want to see in your exported report and press **OK**.

STEP 3: Then press the **Export to Excel** or **Export to CSV** button at the top right of the **Call List**.

Most of these **Export Columns** have already been explained in the section dedicated to understanding filters. Other than those, you can choose to export the following report columns:

- **Call initiated** - Displays the date and time the caller dialed the callee's number.
- **Ringing started** - The date and time the called extension started ringing.
- **Call answered** - The date and time the call was answered. If the call was not answered, VoipNow records the 0000-00-00 00:00:00 value.
- **Call disposition** - The way the call was ended, i.e. answered, not answered, failed, etc.
- **Money unit** - The currency currently used for charging.
- **Original channel** - The channel used to route the call.
- **Call ID** - The unique ID of the call generated by VoipNow.
- **Transfer source** - If the call was transferred to another extension, this column lists the source extension.
- **Transfer destination** - If the call was transferred to another extension, this column lists the destination extension.
- **Initially called extension** - If the call was picked from another extension, this column lists the extension that was originally called.
- **Parent call ID** - It refers to the number which originated a received call. This is useful for tracing phone calls that have multiple entries in the call cost table. For example, when a call that is received by an extension and transferred to another, the system records two separate entries and gives the impression that two different calls have been made.
- **Callback CallerID** - If the caller used a callback extension to route its call to a remote destination, this column displays the authorized callerID (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.
- **Flow reference extension** - The extension that initiated an outgoing call or the extension that received an incoming call.

Related articles

- [How to properly set the timezone](#)
- [How to delete older call recordings](#)
- [How to pick up calls with full and/or short numbers](#)
- [How can I see the IP of the phone that placed a call](#)
- [How to use Hunt Groups in VoipNow](#)