A Visual Guide to VoipNow Charging

Here's a visual guide to help you better understand the charging flow in VoipNow.

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Charging levels

VoipNow comes with 4 charging levels: Administrator, Service Provider, Organizations and Users. Each level is charged by the upper entity:

- The Administrator is charged by the SIP channel provider
- The Service provider is charged by the Administrator
- The organization is charged by the Service Provider
- The Users are charged by Organizations.

Charging in VoipNow is based upon the idea of each level adding its own profit margin to the call cost.

Charging per level

Charging starts with the **channel call costs**: the administrator has to pay the SIP channel provider for terminating calls sent from VoipNow to the channel provider.

In order to make a profit, the administrator will add an amount of money on top of the **channel call cost** and charge the total cost for that call to the service provider. The **admin's call profit** is in the orange area.

The total admin cost (**channel call cost** in red together with the admin profit in orange) is charged to the service provider.

Then it's the service provider's turn to add his profit to the call cost, as paid to the admin - this is the green area. The total (call cost in red, admin call profit in orange and service provider profit in green) will be charged to the organization.

The organization adds its own profit (in blue) to the call cost - the final amount is what the user will pay to the organization for his calls.

To sum up: call cost paid by an user = outgoing call cost + admi n call profit + service provider call profit + organization call profit.

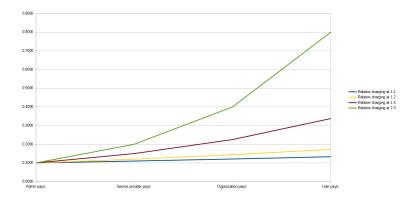
Outgoing call cost Call profit for admin Call profit for service provider Call profit for organization

Examples

For relative charging

To make it easier to understand, we will assume that all examples refer to the same dialed number and the same profit margins for relative call charging. This is how much each level will pay for the same call in relative charging setups, if each level uses the given coefficient for relative charging (i.e. admin charges 1.1*channel call cost, service provider charges 1.1*admin call cost, organization charges 1.1*service provider call cost):

Admin pays:	Relative charging at 1.1		Relative charging at 1.2		Relative charging at 1.5		Relative charging at 2.0	
	0.1000	USD/min	0.1000	USD/min	0.1000	USD/min	0.1000	USD/min
Service provider pays:	0.1100	USD/min	0.1200	USD/min	0.1500	USD/min	0.2000	USD/min
Organization pays:	0.1210	USD/min	0.1440	USD/min	0.2250	USD/min	0.4000	USD/min
User pays:	0.1331	USD/min	0.1728	USD/min	0.3375	USD/min	0.8000	USD/min



A simple formula can be given for relative call charging:

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Cc = channel call cost
Cl = call duration
Ra = administrator relative charging coefficient
Rs = service provider relative charging coefficient
Ro = organization relative charging coefficient
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Who	Pays	Is paid		
Administrator	Cc*Cl to the SIP channel provider	Cc*Ra*Cl by the service provider		
Service provider	Cc*Ra*Cl to the administrator	Cc*Ra*Rs*Cl by the organization		
Organization	Cc*Ra*Rs*Cl to the service provider	Cc*Ra*Rs*Ro*Cl by the user		
User	Cc*Ra*Rs*Ro*Cl to the organization			

For a 10 minutes call with a channel cost of 0.1 USD and a global 1.1 relative charging coefficient, the user will pay Uc = ((0.1 * 1.1) * 1.1) * 1.1) * 1.1) * 1.1)

For fixed charging

This is how much each level will pay for the same call in fixed charging setups, assuming each level adds the same fixed amount to the call cost:



