

PSGw 2.0 White Papers

**PSGw 2.0 Standard (SIP)
PSGw 2.0 Standard (H.323)
PSGw 2.0 Pro (SIP and H.323)**

Introduction	3
General design	4
Technical specifications	5

Introduction

PSGw (Personal Skype to H.323/SIP gateway) is an application that allows to connect Skype network with H.323 and SIP networks. PSGw works as router that should be placed between Skype and H.323 or SIP network. PSGw can route calls from Skype users to H.323 or SIP endpoint according to user-defined rules. PSGw can't route calls and connect H.323 and SIP networks! Only following combinations available: Skype to H.323, Skype to SIP, H.323 to Skype, SIP to Skype.

There are three types of PSGw:

- PSGw 2.0 Standard (SIP): supports Skype to SIP and SIP to Skype connection
- PSGw 2.0 Standard (H.323): supports Skype to H.323 and H.323 to Skype connection
- PSGw 2.0 Pro (SIP and H.323): supports Skype to SIP, Skype to H.323, SIP to Skype and H.323 to Skype connection

PSGw can establish point-to-point Skype, SIP and H.323 connections. It also supports SIP Registrar, SIP Proxy, SIP authorization, H.323 Gatekeeper, H.323 Gateway. H.235 authorization with Gatekeepers.

As PSGw is “Personal” is has three user-defined rules which allows to route (map) calls from different networks to callees in the other networks.

Due to Skype limitation PSGw supports only one concurrent connection in time. Other products that support several concurrent connections are in development.

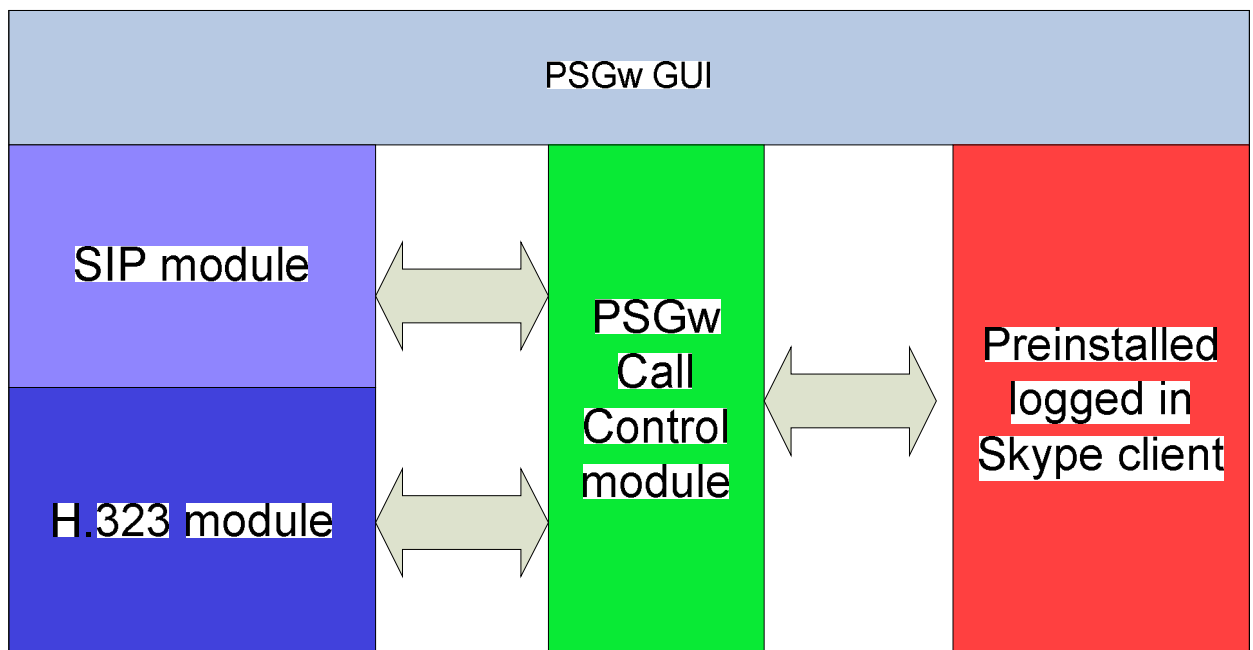
General design

PSGw 2.0 was originally designed as user-friendly application. It has user-defined rules that allows to route (map) calls between different networks (Skype, SIP or H.323).

PSGw 2.0 uses installed Skype client to connect to Skype network. That means that if user logs in with Skype username “myusername” PSGw will accept and initiate call on behalf “myusername”.

It is not possible to use Skype when PSGw is running and active. PSGw takes full control over installed Skype client. It is also not possible to place call from PSGw to local Skype username as PSGw already uses it to initiate and accept calls.

Here is general PSGw design:



PSGw provides interaction between SIP/H.323 and Skype through “Call Control module”.

Technical specifications

Mail features	PSGw 2.0 Standard (SIP)	PSGw 2.0 Standard (H.323)	PSGw 2.0 Pro (SIP and H.323)
Supported protocols	Skype to SIP SIP to Skype	Skype to H.323 H.323 to Skype	Skype to SIP SIP to Skype Skype to H.323 H.323 to Skype
Protocol features	<ul style="list-style-type: none"> • SIP Registrar support • SIP Proxy support • Authentication for registrar and proxy 	<ul style="list-style-type: none"> • H.323 Gatekeeper support • H.323 Gateway support • H.235 security for gatekeeper 	<ul style="list-style-type: none"> • SIP Registrar support • SIP Proxy support • Authentication for SIP registrar and SIP proxy • H.323 Gatekeeper support • H.323 Gateway support • H.235 password security for gatekeeper
Supported codecs	G.711-uLaw G.711-ALaw GSM G.723.1	G.711-uLaw G.711-ALaw GSM G.726 iLBC Speex	G.711-uLaw G.711-ALaw GSM G.723.1 G.726 iLBC Speex