



Flashphoner Web Call Server 3.0

is a platform designed for browser SIP/VoIP-communications

Flashphoner Web Call Server is a software product that allows transmitting video- and audio-data streams from a browser to another browser or other SIP/VoIP devices. The platform enables creation of web-based applications for real-time communication via audio-, video-calls, sending/receiving text messages and data streaming.

New browser features

Using Web Call Server, you can create such services as “Call From Website” and “Web-Phone” on the basis of javascript/html-widgets, as well as set up other types of web communication (audio-, videoconferencing, online radio, and webinars).



Video-calls

The product allows for videoconferencing with SIP-compatible software- and hardware-based phones that support the H.263/H.264 video-codecs.



Efficiency

Web Call Server has been designed to deliver ultimate efficiency for its basic goals: working with SIP and audio/video data flows.



Audio-calls

Using Web Call Server, you can easily call from a browser to GSM-, PSTN-phones and SIP-devices. The platform supports the following audio-codecs: G.711, Speex Wideband, and G.729.



Scalability

Web Call Server has a scalable architecture with an integrated load balancing feature. In case traffic distribution is required, an additional server can be easily deployed in no time to be ready for receiving calls.



WebRTC

The cutting edge technology is used to improve audio and video quality in some browsers, namely, Google Chrome.



Cross-browser compatibility

The principal Web Call Server browser technologies, Javascript, Adobe Flash Player, HTML5 Websockets, and WebRTC, are supported by 95% of browsers. The product can already be used in such popular Windows browsers as Google Chrome, Mozilla Firefox, Internet Explorer, Opera, as well as in Apple Safari for Mac OS. The Flashphoner team are constantly working on expanding the number of supported operating systems.



VoIP quality and reliability

Stream data are transmitted via the UDP-based RTMFP, which ensures low-latency streaming and high-quality connection. The product features innovative streaming congestion control algorithms specifically for unstable network environments. The signal is encrypted using the AES encryption mechanism.

For more details on Flashphoner products, please, contact us:

E-mail: features@flashphoner.com | skype ID: flashphoner.com | www.flashphoner.com

System Requirements:

- Linux x86_64, x86 (CentOS, Debian, Ubuntu, RedHat, Fedora)
- Java Development Kit (JDK 1.7+)
- Dedicated server (no virtualization)
- High Resolution Timer μ HZ = 1000

Hardware Requirements:

- Quad Core CPU 2.5Ghz
- 4 GB RAM or higher (8-16GB advisable)
- 100 Mbps Ethernet-board



Flexibility

Web Call Server supports a great number of technologies, communication protocols, and specifications.

Among the most widely used protocols and specifications are the following: SIP, RTP, RTMFP, WebRTC, HTML5 Websockets. Due to this fact, the platform allows working with modern VoIP-systems: softphones, contact- and call-centers, and SIP-supporting IP PBXs. The standard professional VoIP applications features are provided: adaptive jitter buffer,

echo suppression, noise reduction, and automatic gain control.



Technical support and customer service

During the next 6 months after the purchase, technical support and updates are provided free of charge, which will help troubleshoot all possible issues. Our technical support uses a convenient ticket system. Tickets allow you to track the status of your request and be notified via e-mail on your ticket handling process.

Product Features

Flashphoner Web Call Server is a flexible and reliable platform which helps to implement any communication service ideas for your website.



Click to Call

- integration into web-pages and VoIP-equipment;
- javascript/html-widjet "Call From Website";
- javascript/css used to edit interface;
- only the VoIP-provider shall be aware of all the SIP passwords that shall not be available for end users;
- unlimited customization.



Web-Phone

- web-phone on a website;
- javascript/html-widjet "Web-Phone";
- integration into web-pages and VoIP-equipment;
- javascript/css used to edit interface;
- traffic protection on the "client-to-server" route;
- unlimited customization.



Other Features

- audioconferencing;
- videoconferencing;
- online radio communication via a conventional phone;
- webinars;
- live-chats.

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Why choose Flashphoner Web Call Server

Flashphoner produces leading software on the Web VoIP and Flash markets. Our solutions combine functionality, reliability, and flexibility and serve for integration of audio- and video data flows transmission via IP telephony into all kinds of websites, ranging from a small website to a corporate web-interface or a large-scale Internet-service.

- Web Call Server is one of the world leaders among the software featuring audio/video-communication via a web-browser;
- Using of Flash and Javascript/CSS technologies makes it possible to implement customized GUIs;
- The products are easily scalable, and can be operated by a great number of users;
- Built-in browser technologies like Flash and WebRTC save end users the trouble of additional software installation;
- The system's development environment design ensures convenient creation of new client applications and tailoring the VoIP functionality to the required tasks.
- You get the high level of efficiency and safety of Web Call Server at a reasonable price.



Flashphoner WCS 3.0 is useful for



Website owners

The feature of audio/video calls to mobile devices, PSTN/SIP-devices can be easily added to any web project.

The «Call From Website» widget can be useful for visitors' connection to the sales department or the technical support directly from the website or from your social network or blog pages.



VoIP-providers

A customized web-phone can be added to a user account and does not require any installation by the user.



Corporate projects

Web-Phones can be integrated into CRM or ERP-systems, allowing making calls to mobile devices, PSTN- and VoIP-devices directly from the system interface.



Audio and video start-ups

Flashphoner WCS 3.0 can be used for creation of new applications which operate in real-time with a low latency, for example, audio/video web-conferencing, video-chatting or any other features in any web-browser.

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Specification

Audio

- Speex Wideband 16Khz
- G.711 alaw
- G.711 ulaw
- G.729A

Video

- H.263 QCIF (176x144)
- H.264 Baseline 3,0 (640x480)
- Sorenson Spark (Flash to Flash calls)

DTMF rfc2833 и SIP INFO Transfer, Hold RFC 3515
RTMFP (Real-Time Media Flow Protocol)
SIP 2.0 rfc3261
RTP rfc3550
SDP rfc4566
Sending/receiving text messages (IM) RFC 3428
Flash Player: Adobe Flash Player 11 or higher
Client platform: Flex
Server platform: Java, C

Product Line

So far, besides Web Call Server, Flashphoner offers such software as RTMP SIP Gateway and Websocket-SIP-Proxy.

RTMP SIP Gateway provides SIP connection with VoIP-servers and devices and media-traffic sharing using Wowza Media Server. Our professional software for Wowza-server and SIP-protocol integration is second to none.

Websocket-SIP-Proxy is a Flashphoner's experimental product which enables implementing a browser-side SIP-stack. Unlike commonly used methods, the SIP signaling employs Javascript and is performed directly in a browser.

Software Installation Options

(limited by time or number of connections)



- get free access to a fully-featured product instance for 30 days;
- try a fully-featured Developer version, designed for developers, with a limited number of connections (up to 5 connections);
- purchase an unlimited version, contact our sales department.

Flashphoner: Company Profile

Flashphoner was founded in 2009. We specialize in real-time audio- and videoconferencing browser software development. Over the 4 years of the company's performance, about 1,703 companies and developers from the USA, Germany, Japan, Russia, Brazil, China and France have become Flashphoner's clients; about 10,496 hours have been spent on software development; 3 main products that are systematically updated and improved have been released.

The company's headquarters is located in Novosibirsk (the Russian Federation).

The Flashphoner team strives to make VoIP-communications easier and more intelligible for all users, no matter what browser or device they use.