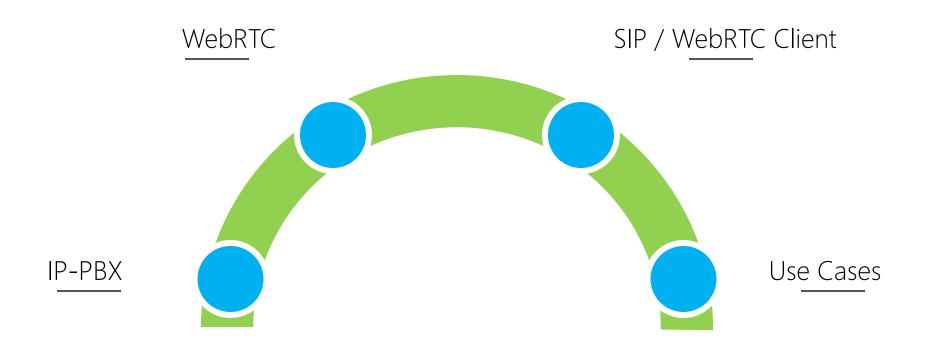


Open Telecom Application Platform for Startups

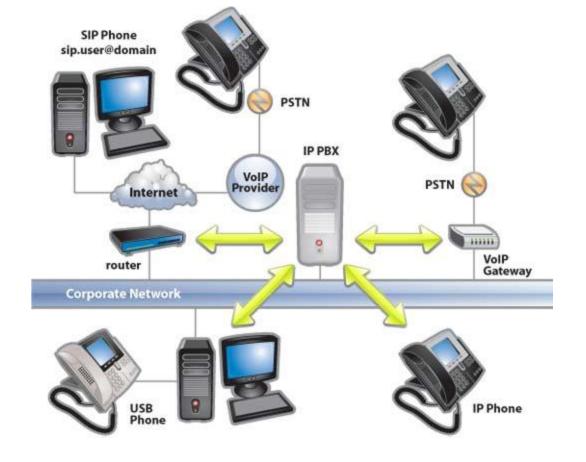
Au Duong Dat, Chairman - VHT

Content



1

IP-PBX



PBX (Private Branch Exchange) is a system that connects telephone extensions to the PSTN (Public Switched Telephone Network) and provides internal communication for a business. An IP-PBX is a PBX with Internet Protocol connectivity and may provide additional audio, video, or instant messaging communication utilizing the TCP/IP protocol stack.



Asterisk is an open source framework for building communications applications. Asterisk turns ordinary computer into a communications server. Asterisk powers IP PBX systems, VoIP gateways, conference servers and other custom solutions. It is used by small businesses, large businesses, call carriers and government centers, agencies, worldwide. **Asterisk** is free and open source. **Asterisk** is sponsored by **Digium**







FreeSWITCH is a scalable open source cross-platform telephony platform designed to route and interconnect popular communication protocols using audio, video, text or any other form of media. It was created in 2006 to fill the void left by proprietary commercial solutions. FreeSWITCH also provides a stable telephony platform on which many applications can be developed using a wide range of free tools. FreeSWITCH was originally designed and implemented by Anthony Minessale II with the help of Brian West and Michael Jerris. All 3 are former developers of the popular **Asterisk** open source PBX.





WebRTC

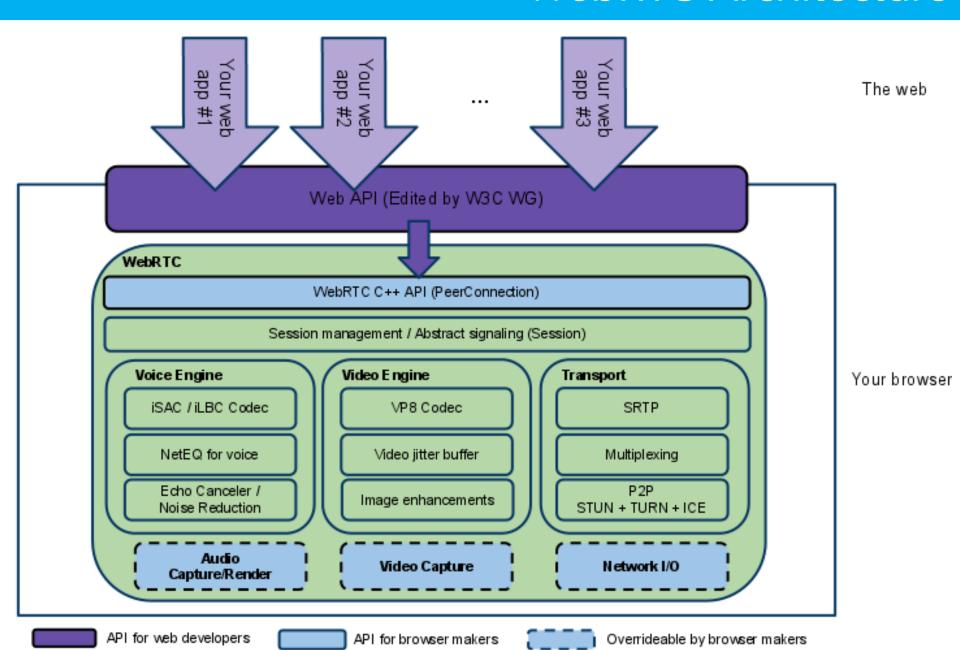


WebRTC is a free, open project that provides browsers and mobile applications with Real-Time Communications (RTC) capabilities via simple APIs. The WebRTC components have been optimized to best serve this purpose.

WebRTC enable rich, high quality, RTC applications to be developed for the browser, mobile platforms, and IoT devices, and allow them all to communicate via a common set of protocols.

The **WebRTC** initiative is a project supported by Google, Mozilla and Opera, amongst others.

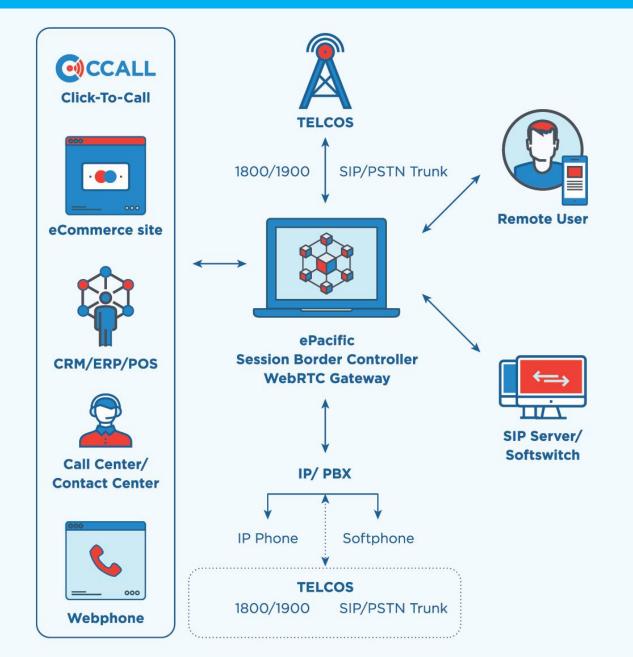
WebRTC Architecture



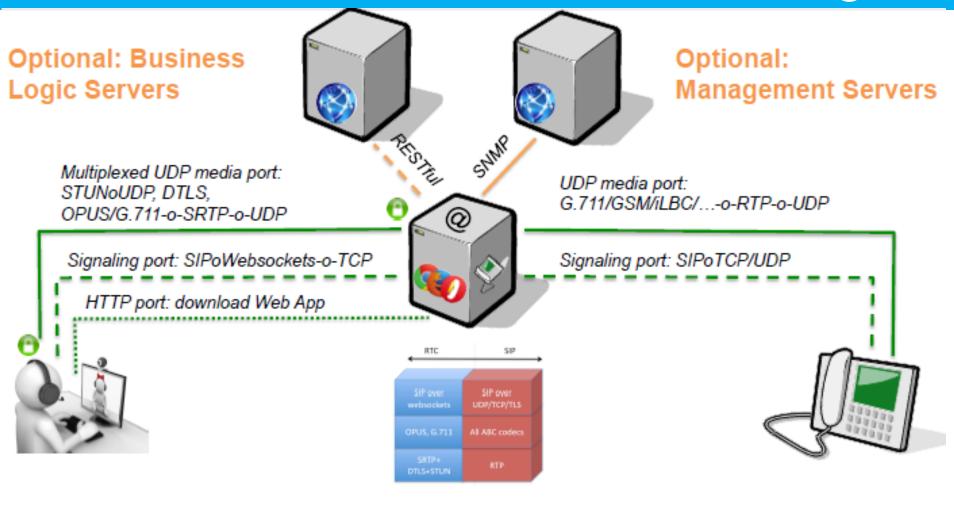
3

SIP / WebRTC Client

WebRTC Gateway



Protocol Reference Diagram



WebRTC Browers

ePacific WebRTC Gateway

SIP Equipment

JsSIP

JsSIP is a simple to use JavaScript library which leverages latest developments in SIP and WebRTC to provide a fully featured SIP endpoint in any website. With JsSIP any website can get Real Time Communications features using audio, video and more with just a few lines of code.

Audio/video calls, instant messaging and presence.

Lightweight!.

SIP over WebSocket transport.

100% pure JavaScript built from the ground up. Easy to use and powerful user API



Getting Started

JsSIP User Agent is the core element in JsSIP. It represents the SIP client associated to a SIP account. JsSIP User Agent is define JsSIP.UA class.

Multiple JsSIP User Agents can be created (this is useful for having different SIP accounts running in the same web application).

Creating a JsSIP User Agent

User Agent Configuration

JsSIP User Agent requires a configuration object for its initialization. There are some mandatory configuration parameters and moptional ones. Check the full configuration parameters list.

```
var configuration = {
  'ws_servers': 'ws://sip-ws.example.com',
  'uri': 'sip:alice@example.com',
  'password': 'superpassword'
};
```

User Agent instance

```
var coolPhone = new JsSIP.UA(configuration);
```

User Agent events definition

Full list of User Agent events.

WebSocket connection events

```
coolPhone.on('connected', function(e){ /* Your code here */ });
coolPhone.on('disconnected', function(e){ /* Your code here */ });
```

New incoming or outgoing call event

```
coolPhone.on('newRTCSession', function(e){ /* Your code here */ });
```

New incoming or outgoing IM message event

```
coolPhone.on('newMessage', function(e){ /* Your code here */ });
```

SIP registration events

```
coolPhone.on('registered', function(e){ /* Your code here */ });
coolPhone.on('unregistered', function(e){ /* Your code here */ });
```

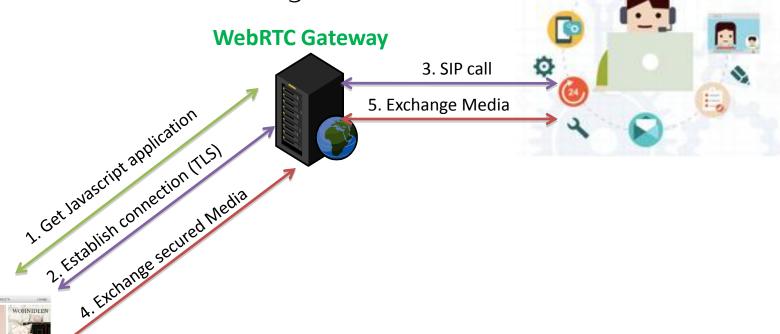


Use Cases

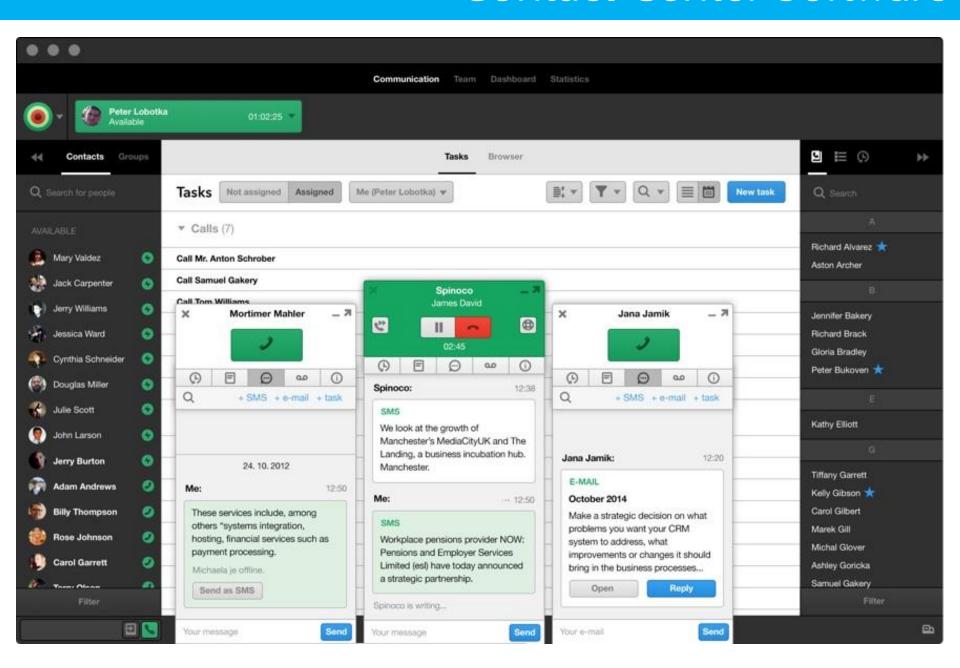
Online Customer Interaction

- 1. Users download the application as a Javascript
- 2. Caller establishes a call with the WebRTC gateway
- 3. WebRTC gateway established a VoIP call to Call center
- 4. Caller and Call center exchange data

zalando



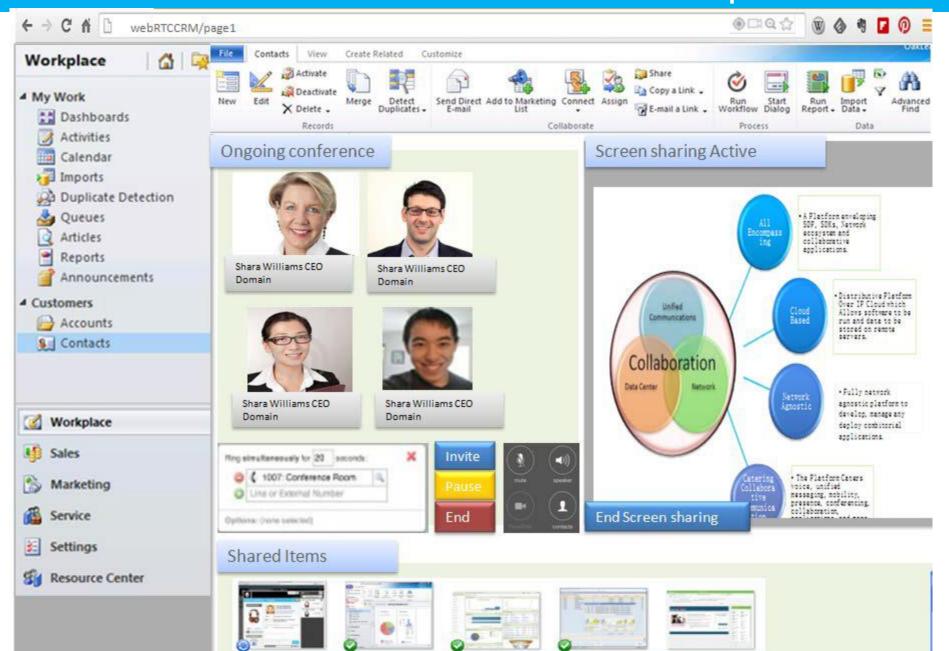
Contact Center Software



Team Communicator



Customer Relationship Software



Network Operation Center



Human Resource Management

JOBS online

Java sip webrtc

Find

ALTANAI BISHT

Objective

Maverick software engineer aspiring to utilize her technical and interpersonal skills while being innovative.

Personal Profile

Date of Birth 22/09/1989
Sex Female
Father's name D.S Bisht
Mother's name Maya Bisht

Languages known English, Hindi, Japanese

Skills

Language : C, C++, C#, VisualBasic ,JAVA (NIIT certified , SCJP certification),

J2EE(NIIT certified), JavaME, Microsoft.net, XML, HTML 5

Scripting Javascript , PHP, SQL ,unix shell , ASP , JSP, AJAX , CSS 3

Packages : MS-Office, Oracle 10 . Visual programming , Netbeans , Eclipse , IBM Rad

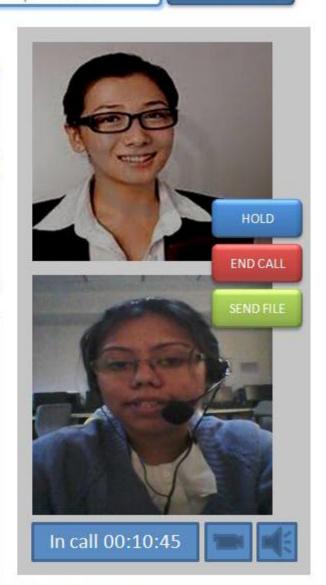
.Salesforce CRM

Platforms : Linux , Windows 95/98/2000/XP/Vista/7, Symbian , bada , android

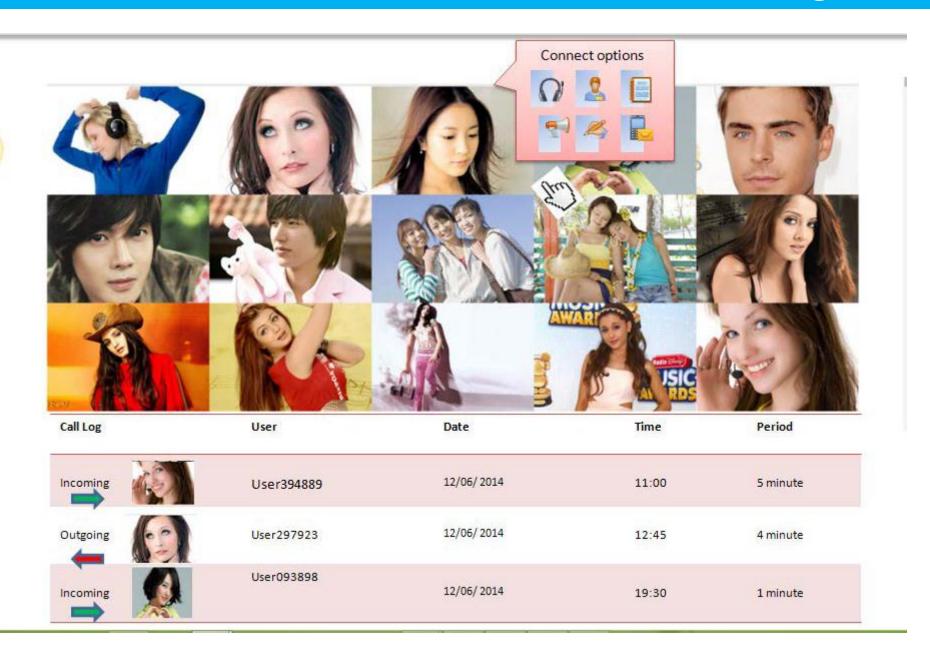
Networking :WAN technologies(T1/DS1,T3/DS3,ISDN), Intranet/Internet technologies

andprotocols (VOIP, DNS, SMTP, POP3, HTTP, TCP/IP, SSH, ATM

TCP/IP VPN)



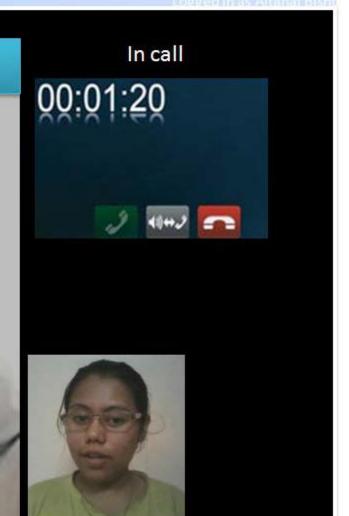
Dating Site



Online Medical Consultation

prescriptions





Get

ambulance





Dr Jane Richer Dental Surgery

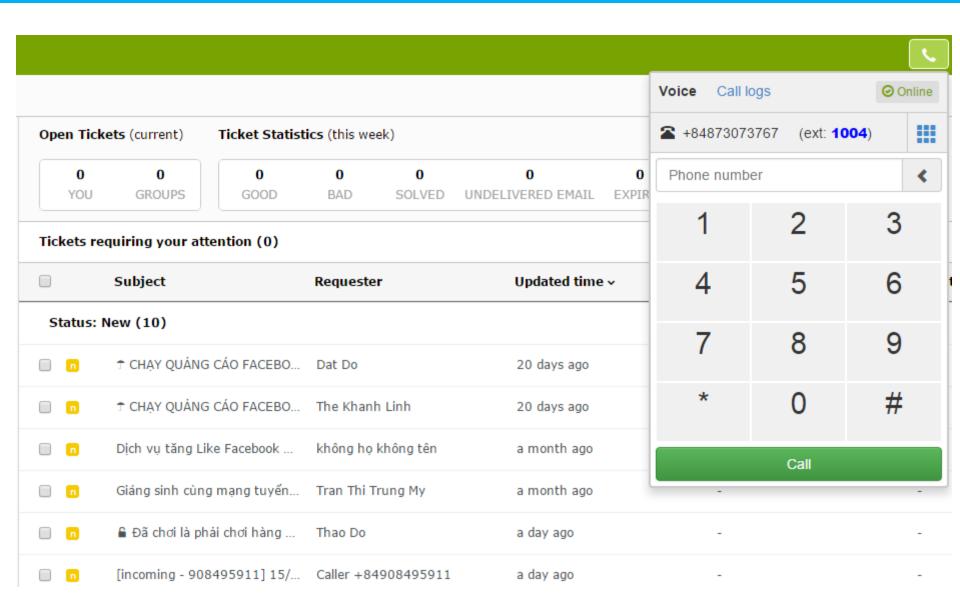


Dr Archur F Dentist

Reminders

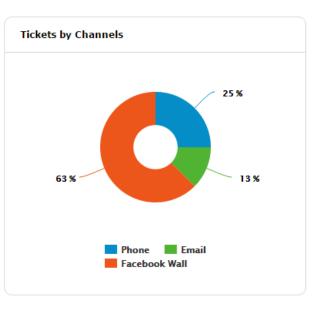
Consults the doctor from Chicago and Dr Kain

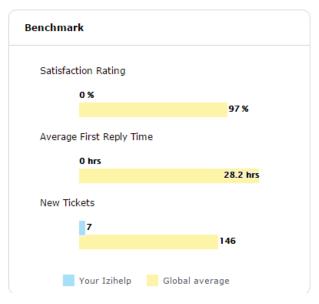
Izi Help



Izi Help









VeXeRe

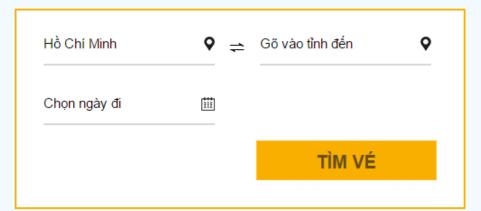


TRANG CHŮ

PHẨN MỀM QUẢN LÝ XE KHÁCH VBMS















Mon, 30/11/2015



Da giu cho. Ma giu cho: XBW17U0. Ghe B23. Xe Tan Thanh Thuy. Gia 90.000 VND. Vui long thanh toan truoc: 18:07 30-11-2015.

Hotline: 1900 6484



