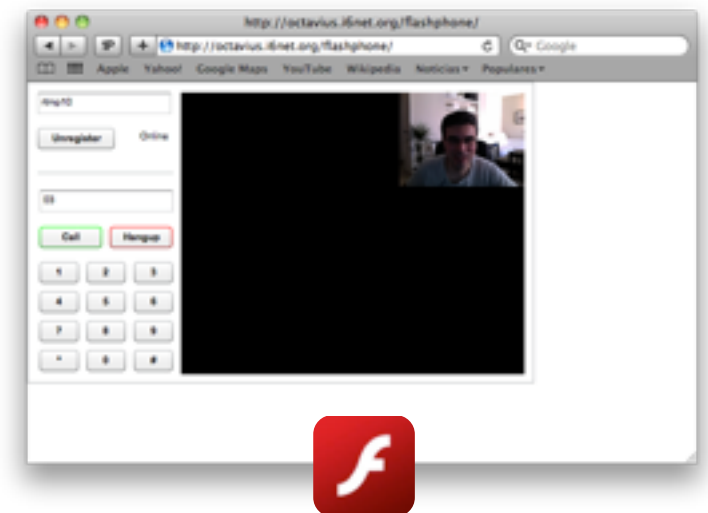# RTMP Channel Server

2013

About...

- Do you need to make **voice or video calls over the web**?

- Do you need to add **web calling to your contact center**?

- Do you need to **extend your business**?

- Do you need to manage **new channels at lower costs**?

- Do you need to make videocalls over **Android**?
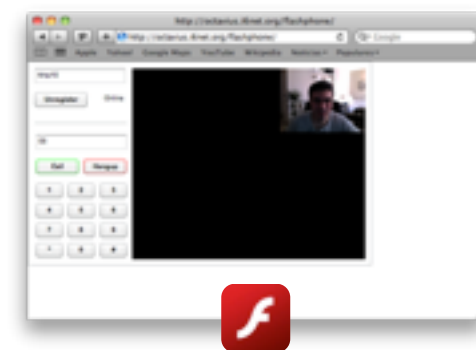
Android App.

RTMP

Channel Server

Flash Player

Definition: Flash/RTMP...

Xtras* Flash/RTMP Channel Server is a software module that delivers an advanced solution to make voice and video communications thru the web. This extension allows to connect easily any website, Mobile Apps and telephony systems to extend your Business.

Web Browser

IP / RTMP

IVR / IVVR

<VXML>

VXI* + Xtras*

VoiceXML Browser

Flash/RTMP Server Channel

Video IP/3G
Optional, only for Video

Tablet Smartphone

Why we use RTMP?

The Real Time Messaging Protocol (RTMP) is a public proprietary protocol developed by Adobe Systems for streaming audio, video and data over the Internet, between a Flash® player and a server. Adobe Flash® is the industry leading web application environment, present in web browsers on 99% of the world's computers. Flash can access the webcam and microphone on a PC and works through any firewall.

RTMP

System Requirements

TDM Boards | VOIP

Linux Server

+

VXI* **+** **Xtras***
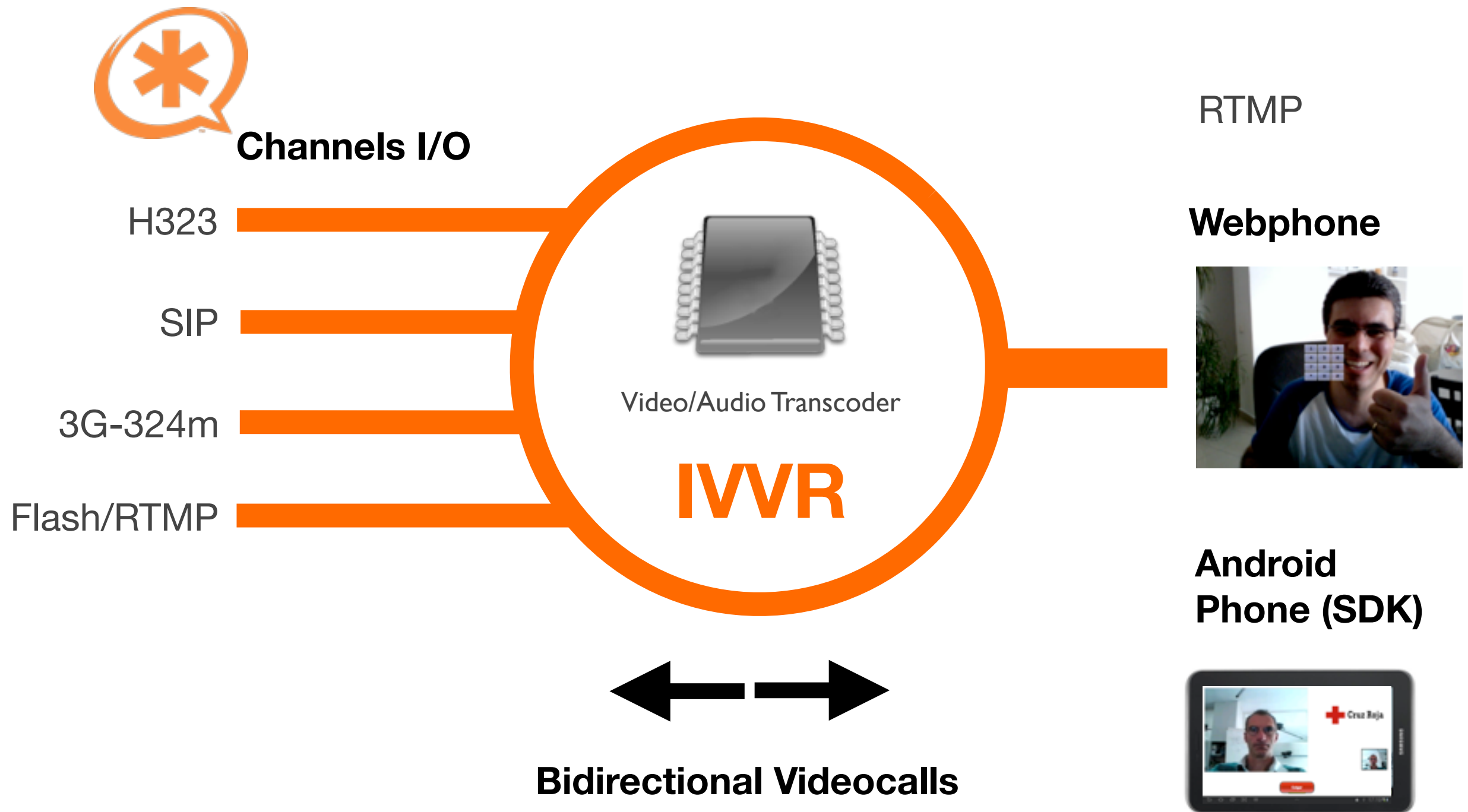
VoiceXML Browser

Flash/RTMP Channel Server

Video IP/3G
only for Video (optional)

Voice per CPU (Core)

1 - 300 ports RTMP (no transc.)

1 - 150 ports SIP

Connected to any channels

Channels I/O

H323

SIP

3G-324m

Flash/RTMP

Video/Audio Transcoder

IVVR

RTMP

Webphone

Android Phone (SDK)

Bidirectional Videocalls

IVVR - Cloud Servers
RTMP Relay

IVVR - Main Servers
RTMP Registar

RTMP Relay (Públic)

RTMP Relay (Private)

Users
Accounts

Web Server

INTERNET

RTMP Registar

Multiple Video Devices
Users Community

Router ADSL/WIFI

Router ADSL/WIFI

3G

Terminal
Android WIFI

Terminal
Android 3G

Tablet
Android 3G/WIFI

Web Browser
Laptop / Desktop PC

Tablet
Android 3G/WIFI

Web Browser
Laptop / Desktop PC

HTTP/RTMP-T

Router

Web Server
HTTP Apache

RTMP Forward

Device A

Router

ID A

RTMP Forward

RTMP-T

Device B

Router

ID B

Call A to B

Users/Accounts

IVVR - Main Servers
RTMP Registrar

IVVR - Cloud Servers
RTMP Relay

Private Cloud

Private / Public Cloud

Video Gateway Mode

VXI + **Xtras**

Web Browser

RTMP

SIP

IVVR GW Mode

SIP Devices

Tablet Smartphone
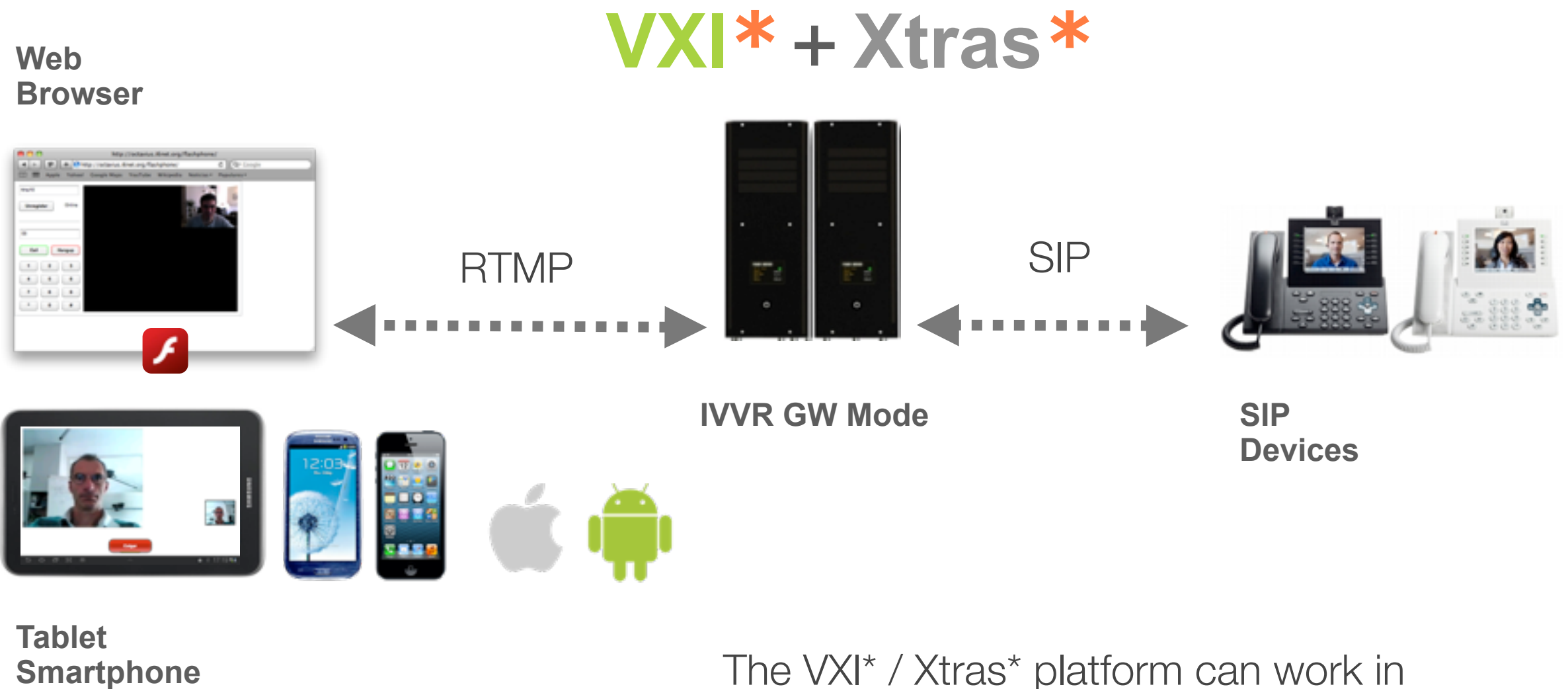
The VXI* / Xtras* platform can work in Video Gateway mode to bridge with any IP Phone, SIP devices or trunks

Flash/RTMP Features

- RTMP Video IN/OUT (h263, h264, h263 Sorenson)

- RTMP Audio IN/OUT (Speex)

- DTMF support

- TEXT messaging IN/OUT

- Open Flash Client (open source and many templates delivered)

- Runs on any Web Browser (Chrome, Safari, IE, Firefox, Opera,...)

- Runs on any OS (Windows, Mac, Linux, ...)

More...

- Flash Player compliant for Multimedia Web Internet Applications

- Low CPU/Memory usage for video encoding/decoding

- Autoregister and User_ID / Anonymous mode enabled

- Flexible Bandwidth Control Management

- Can work with few Bandwidth at 64kbps upto 2Mbps and more

- Internet routers NAT transversal

- Any video screen size (QCIF, CIF, VGA, HD,...) enabled

- Updatable RTMP open protocol

Web calling... ![Flash icon] Flash Player

Any Web Browser...

... and Operating Systems

Video calling... SDK for Android OS

Android NDK

Cruz Roja

100% Native Code

Runs without Adobe Flash Player and Adobe AIR

Video calling... SDK for Apple iOS

Apple Smartphones and Tablets

COMING SOON
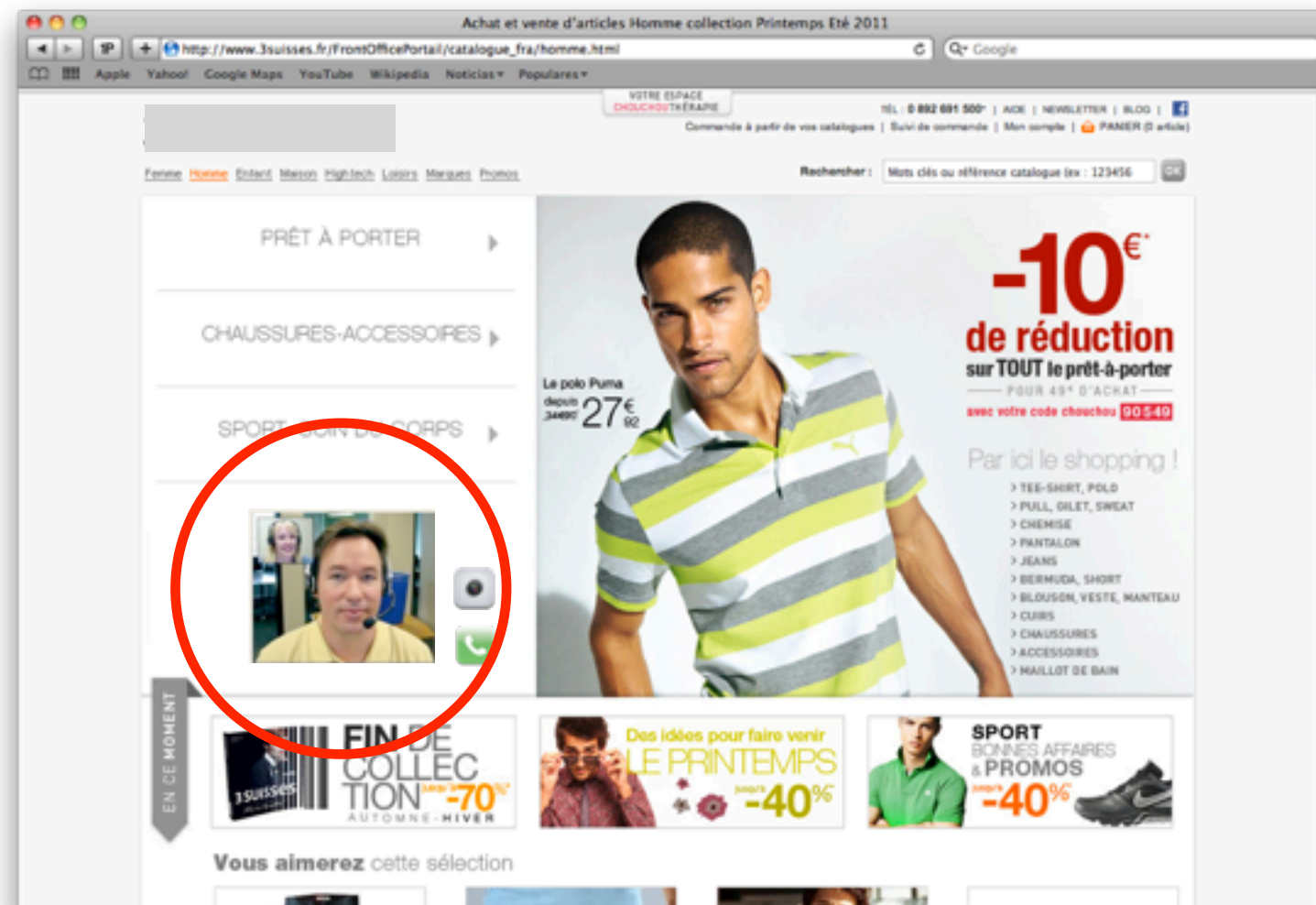
iOS

iPhone   iPad mini   iPad

100% Native Code
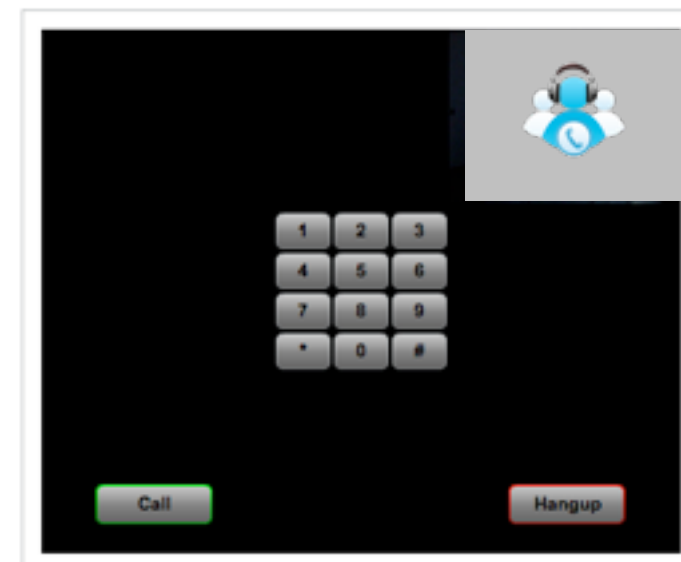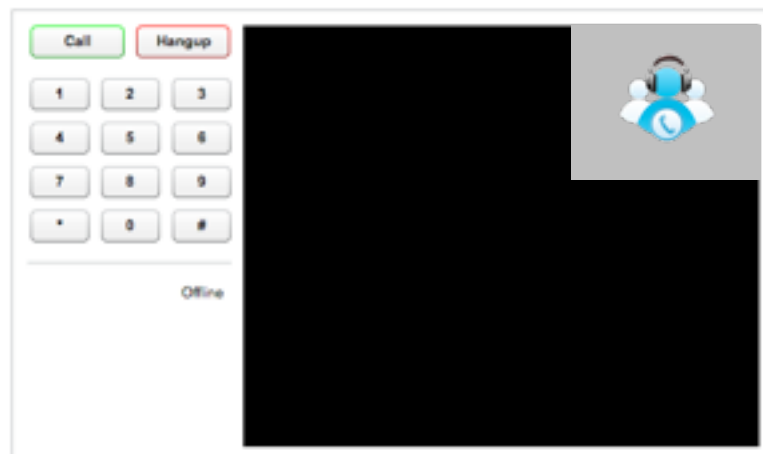
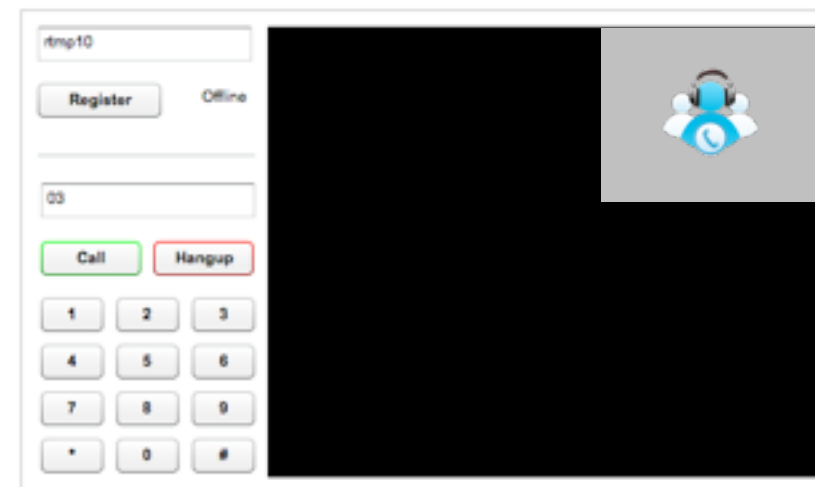Runs without Adobe Flash Player and Adobe AIR

Webphone for your business

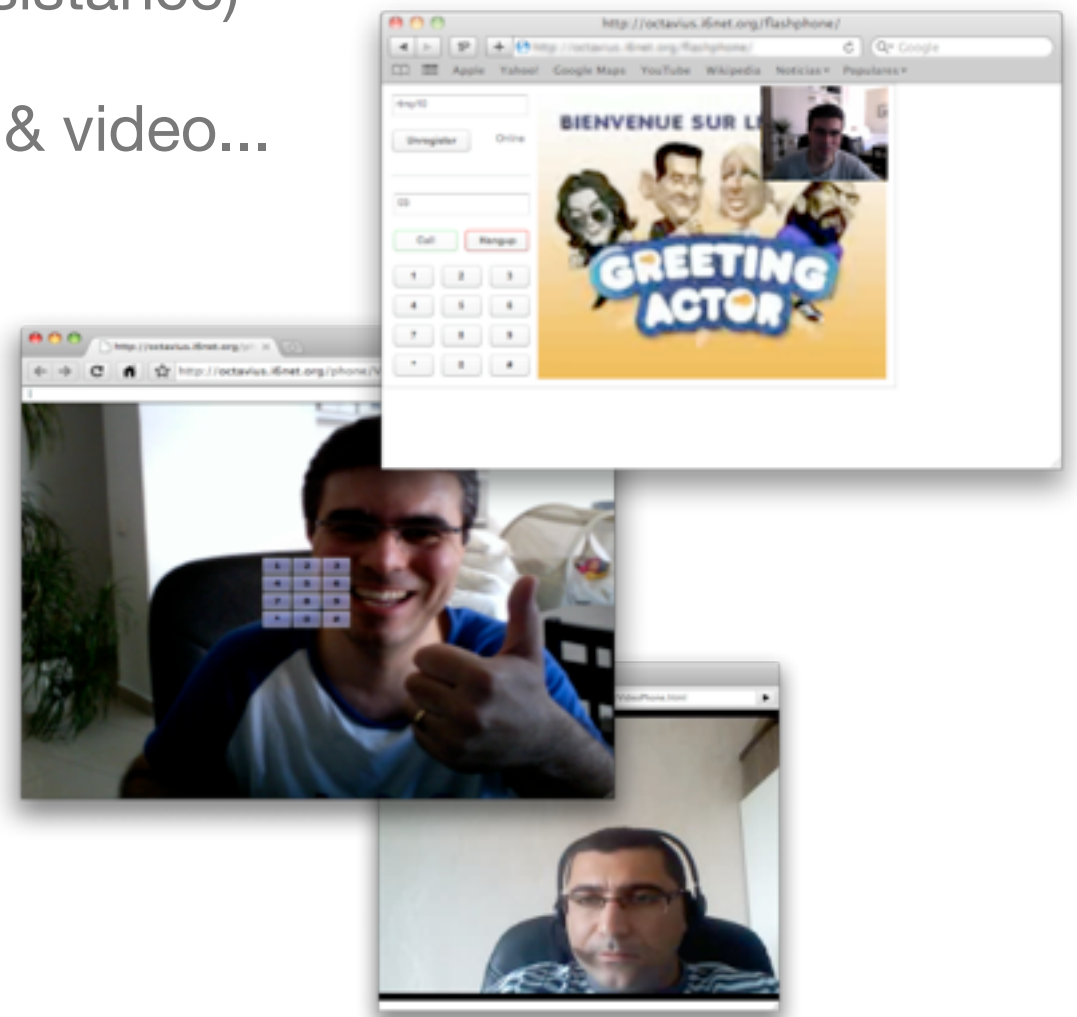**Videocall button and banner inserted into an eCommerce Website**

Open Flash Client

**Many Flash Client templates
to customize yourself**

Services (examples)

- Video Contact Center Services (Tele-assistance)

- Social web communications over voice & video...

- Web Softphone for Businesses...

- Online Technical Support

- Phone calls thru the web

- Social Apps (Tablet / Smartphones)

Powered by VoiceXML

- VoiceXML is the **Open Standard** for IVR / IVVR

- **W3C** WORLD WIDE WEB *consortium* certification

- Web enabled **XML lenguage**

- TTS / ASR easy programming

- PHP / JSP / ASP compliant

```xml
<?xml version="1.0"?>
<vxml version="2.0"
xmlns="http://www.w3.org/
2001/vxml">
  <form>
    <block>
      <prompt>
        Hello world!
      </prompt>
    </block>
  </form>
</vxml>
```

Running over Asterisk

- The leader **Open Source** PBX project

- Stable and most advanced software project

- Strong User Community

- **Millions** of Asterisk running servers

- **Thousands** of active developers

- To connect most telephony devices to Flash

- To connect Flash accross any other Asterisk's Channel

Thank you!

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