

# Omniglobe Solutions



Presents  
**Omni-COLLABORATE**

**Need for voice, data, video collaboration growing at 28 percent per year**  
(Frost and Sullivan, Market Research Analysis)

[www.omniglobesolutions.ca](http://www.omniglobesolutions.ca)



# **What tools are out there**

*for social and business collaboration*

# Skype

- Peer to peer architecture with centralized naming server
- Focused on **social** market

## Features

- video or audio chat session
- limited messaging and recording

## Drawback

- naming server somewhere in Europe
- security is a major issue
- stand-alone and cannot be integrated with other social tools
- supports only web-cam for video
- feature sets very weak, even for paid version
- supports only one session
- no ancillary support

# Web-Ex

- **Cloud-based** : centralized in third party site (Cisco facility or carrier for Web-Ex)
- Focused on **business** market

## Features

- video conferencing with document collaboration
- centralized recording

## Drawback

- centralized architecture results in weaker performance
- stand-alone and cannot be integrated with other social tools
- based on centralized concept
- features limited
- data is outside agency control
- requires prior call scheduling
- supports only web-cam for video
- no ancillary support

# IP-PBX

- **Client-Server architecture.** Server connected to outside world. Server via Ethernet connects to clients. Client computers perform no processing. All processing takes place in server.

## Features

- video & audio conference

## Drawback


- consumes excess bandwidth
- performance degrades with multi conferences, more people accessing server, etc.
- weak video support
- supports only web-cam



# **What would be an ideal solution?**

*for social and business collaboration*





**A collaborative tool that is applicable for both social and business needs: based on peer to peer architecture to provide:**

- enhanced feature sets (voice, data, video) applicable for both social and business needs
- security and safe data storage
- recording capability
- options for being integrated with social media web sites and business portals



# **Is there an ideal solution?**

*for social and business collaboration*



**YES**



**Omni-COLLABORATE**

# What is Omni-COLLABORATE ?

Omni-COLLABORATE based on next generation peer to peer architecture provides

- **Large set of voice features**
  - Single or multiple sessions
  - Conferencing with sub-conferencing
  - Multiple ancillary support
  - Built in recording and playback
- **Rich video features**
  - Single or multiple sessions
  - Conferencing
  - Web-cam and video camera support
  - Real time annotations
- **Powerful data features**
  - Integrated instant messaging
  - Document transfer
  - Indexed data storage
- **Enhanced security features**
  - Integrated tunneling
  - Log-in based privileges
  - Localized data storage
  - Naming serving control
- **Open integration features**
  - Service based architecture to allow integration to social media tools/web and business portals

## How can Omni-COLLABORATE be used ?

- A. Stand-alone as "super Skype" for Social markets
- B. Stand-alone as "Super Web-Ex" for business markets
- C. Integrated with "Social media" tools such as Linkedin, Face book, and other social web sites
- D. via Smart-Phone vendors (RIM)

### **A. Stand-alone as "super Skype" for Social markets.**

Omni-COLLABORATE provides many more feature sets (compared to others) useful for social usage like

- large conferencing (audio and video)
- multiple sessions (a person can be part of two conferences simultaneously.)
- annotation on live video
- integrated instant messaging with document transfer (during video or audio conferencing)
- localized voice and data recording that can be played back later
- secure naming server

# How can Omni-COLLABORATE be used ?

## B. Stand-alone as "Super Web-Ex" for business markets

Omni-COLLABORATE provides many more enhanced feature sets such as:

- login based privilege settings
- multiple audio and video conferencing from web-cam or video camera
- secure instant messaging with document sharing
- multiple ancillary support (speakers, head sets, hand sets, etc)
- localized recording
- local data storage for safety and security
- APIs to integrate with business directory (for staffs) and business portals
- 24 hours 365 days availability (unlike Web-Ex)

## C. Integrated with "Social media" tools such as LinkedIn, Face book, and other social web sites....

Omni-COLLABORATE provide rich voice, data, video service (super Skype and super Web-Ex type) that will enable the social tool web site to attract more users to join.

### Some examples

**Example 1 :** LinkedIn by offering secure peer to peer voice and video mixing and conferencing will not only provide more features to the users but will also allow them to take on Web-Ex in business and commercial markets

**Example 2 :** Face book by adding Omni-COLLABORATE capability can move to Skype market with more features

**Example 3 :** Other social web-sites by using Omni-COLLABORATE can provide value added tool sets for voice, data and video. Also by restricting voice, video and data features only to members : can attract more users to join



# Thank you

For more information  
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**Back up slides**



# Capability Comparison

	IP-PBX	Web-EX	Skype	Omn-COLLABORATE
<b>ARCHITECTURE</b>	<ul style="list-style-type: none"> <li>•Client-Server based</li> <li>•Extra hardware required</li> </ul>	<ul style="list-style-type: none"> <li>•Pseudo cloud based with centralized processing</li> </ul>	<ul style="list-style-type: none"> <li>•Peer to peer processing with centralized naming server</li> </ul>	<ul style="list-style-type: none"> <li>•Peer to Peer with cloud based support</li> </ul>
<b>SECURITY</b>	<ul style="list-style-type: none"> <li>•Limited built in</li> <li>•For most via 3<sup>rd</sup> party tool sets</li> </ul>	<ul style="list-style-type: none"> <li>•Offers security features</li> </ul>	<ul style="list-style-type: none"> <li>•Many flaws identified (please refer backup slides)</li> </ul>	<ul style="list-style-type: none"> <li>•Offers multi level login settings</li> <li>•Offers role based privileges</li> </ul>
<b>DATA PRIVACY</b>	Controlled within the agency	Not controlled or maintained within agency	Naming server resides outside agency control.	Controlled and maintained within agency
<b>RECORDING</b>	<ul style="list-style-type: none"> <li>•Centralized recording via 3<sup>rd</sup> party recorder</li> </ul>	Offers Centralized recording	Not available	Provides built-in local and-or centralized recording
<b>FEATURES</b>	<ul style="list-style-type: none"> <li>•Limited to voice</li> <li>•Video collaboration is weak</li> <li>•Limited Instant messaging capability</li> <li>•Limited conferencing with sub conferencing feature</li> <li>•Very limited ancillary support</li> <li>•Operational 24 hours/365 days</li> </ul>	<ul style="list-style-type: none"> <li>•Good voice management</li> <li>•Video support only to Webcam</li> <li>•Limited Instant messaging capability</li> <li>•Limited conferencing with sub conferencing feature</li> <li>•Very limited ancillary support</li> <li>•Pay for usage</li> </ul>	<ul style="list-style-type: none"> <li>•Limited to voice</li> <li>•Video collaboration is weak</li> <li>•Limited Instant messaging capability</li> <li>•Very limited conferencing with sub conferencing feature</li> <li>•Very limited ancillary support</li> <li>•Operational 24 hours/365 days</li> </ul>	<ul style="list-style-type: none"> <li>•Good voice management</li> <li>•Good Video collaboration with Webcam and Video camera support</li> <li>•Good Instant messaging capability (by groups and individual)</li> <li>•Superior conferencing with sub-conferencing feature</li> <li>•Multi ancillaries (headsets, handsets, speakers) support</li> <li>•Operational 24 hours/365 days</li> <li>•Can be integrated with other social tools and business portals</li> </ul>

# Challenges with Skype for mission critical agencies

Centralized server that performs registration. Holds information of users in the data base. The server is out of reach and control for users.

Even-though not performed, Skype company has ability to intercept communication

Skype makes it hard to enforce a corporate security policy

Skype consumes network bandwidth, even when idle

Skype can consume other users' bandwidth. Although this is documented in the license agreement ([EULA](#)), there is no way to tell how much bandwidth is being used in this manner

Skype's file-transfer function does not integrate with any [antivirus](#) product

Skype creates a file called 1.com in the temp directory which is capable of reading all BIOS data from a PC

Security researchers Biondi and Desclaux have speculated that Skype may have a [back door](#), since Skype sends traffic even when it is turned off

The Skype client for Mac has been observed accessing protected information in the system Address Book even when integration with the Address Book (on by default) is disabled in the Skype preferences

# Drawbacks of Skype for mission critical agencies

Free Skype software does not provide conferences, etc.

Even with paid version of Skype

- Conferencing with sub-conferences is weak
- IM data not integrated with conference
- Individual recording of conversations not possible
- File transfer with IM is very complex
- Multi-tiling of videos with voice lacks simplicity
- Multi ancillaries support not feasible
- No integration with public address system
- Call management weak (e.g. one cannot park a conference in speaker and talk to an another participant)