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www.itexpo.com







How To Add Voice to Your Web Community

Checklist for VolP Technology

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Why SPIRIT



- 10+ years, 120 people
- Focus on voice processing solutions
- Powers 80M voice channels in 70 countries, 200+ customers

SPIRIT provides VoIP for collaboration – TeamSpiritTM Voice Engine







Hyundai









Voice in multi-point communities





TeamSpirit[™] enhances the voice quality of Paltalk voice and video conferencing community.

About Paltalk:

PalTalk is a world's leading provider of live communications over the Internet

- 25 million registered users
- -over 140 countries
- -carrying over 8 billion voice minutes per year
- -PalTalk is compatible with MSN, AOL, Yahoo! and ICQ Messengers.





Voice in enterprise collaboration





TeamSpirit™ is used as a voice layer inside Oracle Collaboration Suite and provides hands-free multipoint VoIP conferencing

About oracle Collaboration Suite:

Oracle Real-time collaboration is the only secure, presenceaware, integrated enterprise platform designed to meet all the real-time needs of an enterprise.

With data, voice and video capabilities Oracle RTC enables individuals and groups to detect presence, meet, communicate and collaborate with each other in seamless and unified manner



Voice in online trainings





TeamSpirit™ is implemented as a voice engine in MacroMedia® Flash application Breeze™ targeted for collaboration, communication and online trainings

Presentations without meetings

Macromedia Breeze TeamSpirit™

Training without delays

About Macromedia Breeze:

With Macromedia Breeze, organizations can communicate, collaborate, and train online with ease - Breeze includes everything needed to create, manage, deliver, and track rich communications.



Meetings

without

travel



Voice on mobile devices







TeamSpirit[™] product runs on mobile devices, and provides high-quality voice/video conferencing in wireless devices - one of the latest deployments is first Windows Mobile 5.0 - based 3G Videophone by HTC (largest Taiwan cellular OEM)



Voice in web communities



- Voice as a phone -> VoIP as a phone (PC softphone) (MSN, Google, Yahoo, AOL)
 - Free PC-2-PC calls
 - PC-2-PSTN paid calls (\$20/month, and goes down)
- Still searching for working business models
- Integration of Voice and Applications continues strongly
- Voice keeps on penetrating web communities
- Voice in communities is MORE THEN JUST A PHONE





E-Commerce (V-Commerce)



unparalleled ecommerce and communications engine for buyers and sellers around the world



LARGE-SCALE:

"ecommerce communications could be monetized on a pay-per-call basis through Skype"



- release on eBay acquisition of Skype

SMALL-MEDIUM BUSINESS:

Voice-centric collaboration and business tools (<u>www.voice-commerce.com</u>)

Voice is not essential of the service, but makes it much more efficient Many SMB use Skype, but wish it be more business-oriented





Training / E-learning / Consulting



Voice conversation is an essential part of the service

Learning English on-line 7M people, 39 euros/ month http://englishtown.com

Legal consulting – 2.6M calls/year http://www.prepaidlegal.com

Voice in working-from-home potential is also enormous.



Voice in web communities

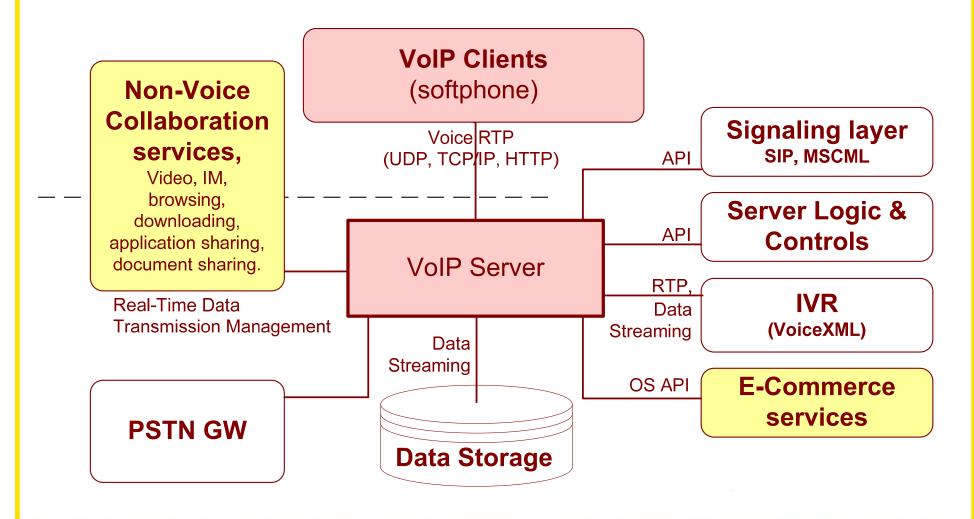


- From Voice to Collaboration (doc sharing, joint web browsing) for e-commerce, customer care, trainings, discussions.
- From p2p to multi-point (e-learning, auctions, peering)
- For c2c and b2c (support both live PC talks, PSTN, IVR)
- Wider access (from Web/PC, Fixed/Mobile)
- Must be smoothly scalable from small p2p to large-scale cost-effective systems



Voice is no longer standalone









Implementing Voice - Checklist



- Support common communication scenarios:
 Calling, ad-hoc Conferencing, multipoint conferencing, one-to-many broadcasting
- Integration with Applications/Data
- Costs Control for community provider
- Voice quality
- Both consumers and enterprise users participate (integration with existing infrastructure IP-phones, PBX)
- Cross-platform access (Desktop, Web, PDA)

Target: ease of use, quality, BUT integrated, secure, under Service Provider control





Daily Scenarios, Cost-effective



Basic Call

True multipoint conferencing (spontaneous, frequent collaboration by voice)

Conferencing (scheduled multi-point)

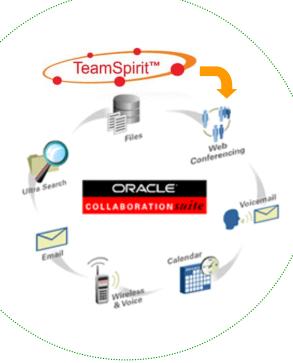
Recording

PSTN support (dial-in, dial-out) for conferences

VoiceMail, Call forwarding, etc.

Softphone client

Conferencing Server



Effective Conferencing Server Is essential, as client software

Target: 3000 VoIP users supported by one server (2x3GHz, <2,500\$ Windows machine)







Voice Quality



Set of NO's (delays, echoes/noises, losses, drops)

Despite numbers, usually judged subjectively.

Target: Wide band voice becoming a must.





Integration with Applications/Data



Voice is sensitive real-time data. Skype suffers when simultaneous applications/downloads execute.

Not an excuse when documents or applications are part of a service (games, auctions, etc.).

Voice must perform well

- standalone, or with video,
- with application running (CPU load),
- with document sharing (Network load).

d).

without

Macromedia Breeze

Target: <10% of Pentium-IV, voice should survive @100% CPU load





TeamSpirit™

without

Cross-platform access



Solutions available.

Target: voice to be efficient voice+video or voice+applications @ mass-market 300MHz devices



Desktop

Windows

Mac

Linux

<u>Web</u>

browser plug-ins

Java

PDA

Pocket PC

Symbian





Costs Control



Monitor, understand and predict costs

Balance cost and performance in runtime seamlessly as users continue talking.

Plan and implement upgrades easily (more concurrent users, new features, connect VoIP hardware).

Service provide able to:

Voice Engine (Client/Server) enables:

Voice quality served

Network load minimization

Server load minimization

Target: 3000 concurrent users per PC-server, compared to few hundred ports per Hardware box, lower port price





Voice enabled on-line auction case



Users may join freely (predefined conference, not instant call)

All have to talk simultaneously (multipoint conference)

Costs (per conference) have to be low (scale)

Voice quality required (negotiations are important)

Voice + browsing, app. sharing (bidding) or document sharing (descriptions, photos)

Should be accessible from different devices

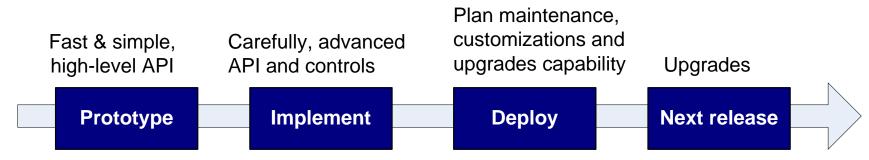
Enterprise sellers should be supported (PSTN, IP phones, etc)





Deployment path





Use advanced API and controls to enhance and add features

Target for deployments: scalability, ability to customize/add features, and vendor support for VoIP technology.

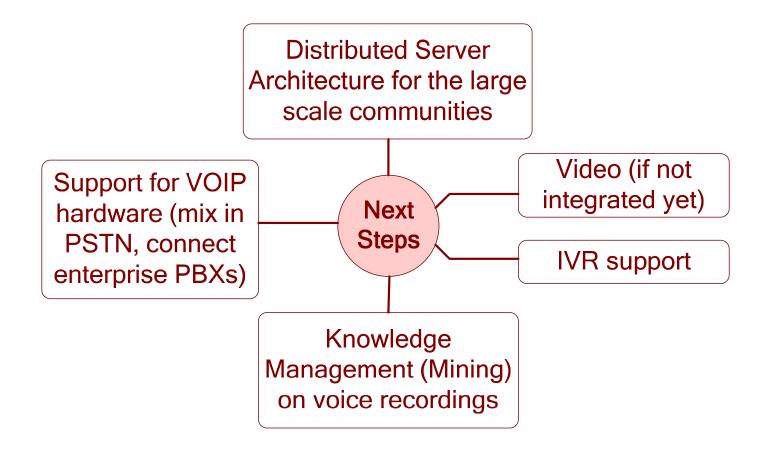
(should be fast-start, but no "black box VoIP")





Further development









Thank you.



















SPIRIT provides VoIP client-server engines for conferencing and collaboration

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