The Acano solution

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Imagine having all of the tools your team needs to work in one place and always accessible. That’s Acano.

1. **What Acano can do for your team**

   Acano joins video, audio, web and chat communication together for better workplace collaboration. Acano’s software solution provides audio and video conferencing, advanced interoperability, unique dual homed integration with Skype for Business and browser access on almost every device.

   **Team spaces**
   
   Acano’s platform is built around team spaces, unlimited virtual meeting rooms that allow people to chat, share and connect. By keeping all of their interactions in one place, team spaces help people work together by matching to the group’s workflow.

   **Everyone’s invited**
   
   Team spaces allow anyone to connect, even if they’re using a different video platform or calling in from an outside organization. Call participants can be invited just by sending them a link, opening up opportunities for B-to-B and B-to-C services.

   **Audio and video, anywhere**
   
   Acano supports all major standards-based video systems while taking advantage of existing infrastructure. Cost-effective audio conferencing supports tens of thousands of concurrent calls, Integrated Voice Response (IVR) and a broad range of codecs.

   **Any device**
   
   Access Acano on unlimited devices, including smartphone, tablet, laptop, video system or Skype for Business client. Multiple devices can be used simultaneously, like when viewing shared content up close on a tablet while still seeing meeting participants on a video endpoint.

   **Scalable**
   
   Multiple Acano servers can be deployed together, working as a single, scalable deployment. The total capacity of the solution scales with the number of deployed servers.

   **Secure**
   
   Acano uses “clean slate” technology and a secure development lifecycle. With FIPS, JITC and Common Criteria certifications, Acano adheres to the most stringent of security models.
2. The Acano solution

Acano software

Acano software has two components: Acano Core and Acano Edge.

**Acano Core**
- Handles management, conferencing, messaging, presence and media.
- Provides interoperability with external systems and infrastructure, including Avaya, Cisco, Microsoft and Polycom.

**Acano Edge**
- Handles web services and WebRTC access.
- Manages firewall traversal for call signaling and media. Provides ICE, TURN and STUN for secure NAT traversal.

Acano app

The Acano app provides direct access to the team spaces, with superior video, audio, content sharing and persistent chat capabilities. See all of the work that’s done in each team space that you are a member of. Easily create new team spaces to organize and plan the next steps of your project. Users enjoy the same exceptional experience on phone calls, video calls, messaging and content sharing, on any device.

Acano clients are available for:
- Windows XP, Vista, v7, v8, v10
- Apple iOS
- Mac OS X

WebRTC and browser access via for standards-compliant browsers and joining via Acano apps for all other web browsers.

Acano server

The Acano server is the best choice for scale and performance.

**Support for major video standards:**
Seamless and automatic mixing of transcoding and switched/layered video provides an optimal experience for each user while efficiently utilizing available resources.

**Scalable platform**
Acano provides the elasticity to expand quickly without being constrained by the infrastructure. Easily scale capacity by adding more servers to the deployment. Additional scaling and resilience is provided by native clustering.

**Content sharing**
For the entire desktop, documents and data, even when sharing from Skype for Business clients.

**Unprecedented capacity**
A call bridge on a single Acano server supports transcoding of more than:
- 250 HD calls
- 500 480p calls
- 600 Skype for Business video calls
- 1,500 web calls (audio and content)
- 10,000 audio calls

**Energy efficient**
Built on an Intel X86 platform and, at just 2U high, packs a lot of power. The server offers five times the performance-per-watt of other solutions.
3. How it’s deployed

Acano’s software can be deployed on the platform that meets the needs of your organization. The software-based solution can be deployed on an optimized Acano server, on a standard server in a virtualized environment, or as a cloud service through one of our service providers.

![Deployment Options](image)

**Acano in the cloud**

Acano software can also be deployed on a cloud compute service such as Amazon Elastic Cloud (EC2) for resizable capacity.

**Acano virtualized**

Acano Core and Edge software can also run in a virtualized environment on standard servers with VMware or Hyper-V hypervisors. The Acano virtualized solution provides flexibility and rapid deployment, with the same functionality as the Acano server.

**Deployment features**

**Capable**
The total capacity of the solutions scales with the number of deployed servers.

**Resilient**
If a server fails or is removed, only the calls on those servers are affected. In the worst case scenario, those calls dial back and are placed on one of the remaining servers.

**Distributed**
A single call or meeting can be split across multiple servers, with Acano instances automatically managing the network bandwidth. Participants are automatically placed on the nearest instance to their location, improving call quality.

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**Connecting Cisco and Microsoft**

Acano integrates with existing investments in Skype for Business (Lync), Cisco Telepresence, Cisco UCM and Cisco VCS. This enables native functionalities and user experience to work together, including voice, video, chat and presence. For users preferring the Outlook or Skype for Business experience, the unique dual homed technology preserves each participant’s chosen user experience for scheduling, joining and controlling the call.
4. Specifications

Video standards
- H.263 (+,++,+)
- H.264 AVC (Baseline and High Profile)
- H.264 SVC
- H.265
- TIP
- WebM, VP8/VP9
- Microsoft RTV
- Bandwidth up to 6000kbps
- Frame rates and resolution up to 1080p 60fps
- HTML5/WebRTC

Audio standards
- AAC-LD
- Speex
- Opus
- G.722, G.722.1, G.722.1c, G.728, G.729a, G.711a/u

Team spaces
- Virtual meeting rooms for audio, video and web
- Unlimited; one for each person, project and team
- Persistent chat
- List active participants
- Presence status
- IM to space message boards
- Ability to move the call from one device to the next
- Ability to split the audio, video and data between separate devices

Calls
- Point-to-point and multipoint calls
- Scheduled and ad hoc calls
- Scheduling with email invitation (WebRTC)
- Call escalation
- Participant lists
- Call summary
- Call quality information
- Audio, video and content sharing up to 1080p resolution
- Dynamic layouts
- Contacts, directory entries and favorites

Sharing
Share desktops, content and data. Includes ability to share from Skype for Business clients with support for RDP, BFCP and H.239.

Integration
- Management API
- Active Directory / LDAP integration for phone directory and user management
- LDAP
- Microsoft Exchange and Outlook integration
- NAT / Firewall traversal
- SIP trunking
- Interoperability with Skype for Business Edge servers

Third party integration
- Skype for Business (Lync) 2010, 2013 server and Office 365. Clients on PC and Mac
- Firewall traversal using Skype for Business Edge
- Content for Skype for Business clients:
  - To - Skype for Business via RDP
  - From - native Skype for Business with RDP
- Dual homed capability to preserve client/endpoint experience
- Standards-compliant SIP/H.323 endpoints includes Cisco, Polycom and Lifesize
- Cisco UCM and Cisco VCS
- Avaya SIP PBX
- Polycom DMA
- Acme Packet/Sonus SBC

Security
- IP media (video and audio) is AES encrypted (industry standard SRTP)
- All control data is authenticated/encrypted (industry standard TLS/SSL)
- Domain Name System Security Extensions (DNSSEC)
- IPv6 support
- A security code/pin option for team spaces
- On-screen visual indication of audio-only participants and encryption status
- Windows Acano Secure Development
- Lifecycle: secure by design, implementation and support in the field
- Field industry-standard strong cryptography protection of communications
- Encrypted storage with secure erase for total data ownership
- JITC Certified
- FIPS-140-2
Want to get the Acano solution for your team?
Email us at ask@acano.com and our sales team will be in touch.