Collaboration/Conferencing Tool Requirements

EMORY UNIVERSITY | Office of Information Technology

Solution	Bandwidth	Multi-point	Screen Share	OS Platform/ System Requirements	Record Option	Video / Audio	Software Resolution ------------ Webcam/Camera Resolution	Protocol	Cost
Skype	1.5Mbps up/down for HD quality 500kbps up/down minimum for SD quality Group Calling 2Mbps down/ 512Mbps up minimum	10 participants max; must have 1 Skype Premium account For best quality, only up to 5 participants recommended	Yes One to one; Group screen sharing must have 1 Skype Premium account Desktop/ File sharing File/Photo sharing only via mobile	Mac OSX 10.5+, Win 7/Vista/XP, (32/64 bit), Linux, iPad, iPhone, Android Core 2 Duo 1.8Ghz+ 1GB RAM Win – DirectX v9.0+, Mac-QuickTime	Yes - via 3rd party programs	Yes Video one to one only via mobile devices Audio only in group calls	Up to 720p30 max ---------------------------- HD webcam required for HD quality	Non-standard/ VP8	Basic - Free Premium - Pay
FaceTime	1Mbps up/down for HD quality 384Kbps for SD quality Via Wi-Fi or Cellular data connection if supported by carrier	No	No	Mac OSX 10.6.6+ iOS 6.0.1+ iPhone 4+, iPad 2+, iPod Touch 4th Gen+ Intel processors only 1 GB RAM Requires Apple ID and FT client side certificate	No	Yes	Up to 720p max ---------------------------- FaceTime HD camera (720p) on newest iMacs/ Macbook Pros/ iPhone5 Both participants need FaceTime HD camera for HD quality 1280 X 1024 or 640 X 480 with iSight	Based on H.264, AAC, SIP, RTP, SRTP	Free on newer Apple products Available at App Store for $0.99

Product	Bandwidth	Participants	Sharing	Platform / Requirements	Recording	Audio	Video	Protocol	Cost
Microsoft Lync	1.2Mbps up / 1.5Mbps down for HD quality 500Kbps up/down for SD quality	Up to 250 participants in one conference Only one person viewable at a time in a conference	Yes Only one participant can share at a time No sharing via mobile devices Desktop/ Application/ Document/ Whiteboard/ Desktop control	Mac OSX 10.5.8+, Win 7/XP SP3+/Vista, iPhone, iPad, Android Office 2010 Mac Office 2011 Pentium 4 and Intel Only Dual Core 1.9 GHz for SD Quad Core 2.0 GHz for HD	Yes Saves as .wmv file	Yes No video via mobile devices Enterprise Voice not set-up for audio conferences	Up to 720p30 with Quad Core processor 640x480 for 3+ participants in a conference ---------------------------- HD webcam recommended for best video quality	RTV/SIP	No cost for Emory faculty/ staff/ students Non-Emory participants must have their own Lync client
Google Hangouts	1Mbps up/down for one to one 1Mbps up / 2Mbps down for group conferencing	10 participants max	Yes Desktop/ Google Docs Collaboration Photo sharing only via mobile devices	Mac OSX 10.5+, Win 7/XP/Vista (SP1+), Linux, iPad, iPhone, Android Any 2 GHz dual core processor or greater Google + video plugin required	Yes Via Hangouts On Air posted to individual's Google+ account and/or YouTube Channel	Yes	SD resolution varies according to webcam and bandwidth HD not available ---------------------------- HD webcam recommended for best video quality	H.264 AVC H.263+, SRTP	Free Must have Google + account
Bridgit by SMART	340kbps up/down minimum	Bandwidth dependent up to system capacity of 1GB Up to 4 video participants in a conference	Yes No sharing from mobile devices, only viewing Desktop/ Application/ Document/ Whiteboard/ Desktop control	Mac OSX 10.6/ 10.7, Win 7/XP SP3, iPad, iPhone, Android 2.0 GHz Intel Processor 2GB RAM Win-Direct Show driver Mac-QuickTime	No	Yes Video window 320 X240 Separate telephone conference line suggested for audio	1024x768 or higher for screen resolution Video resolution 176x144 5fps ---------------------------- HD webcam recommended for best video quality	TCP/UDP, HTTP	Bridgit client free from Smart Technologies SMART Mtg. Pro room license at additional cost to customer

Adobe Connect	512Kbps up/ down minimum for participants 768Kbps minimum for hosts, presenters, administrators	Emory site license up to 100 participants for entire campus	Yes Desktop/ Application/ Document/ Whiteboard/ File Sharing/ Chat/ Polling/ Q&A	Mac OSX 10.5+, Win 7/8/ Vista/ XP, Linux, Citrix XenApp6, iPad 2+, iPhone 4+, Android 2.2+, Android AIR Runtime 3.2+ 1.4Ghz Intel P4+ or 1.83GHz Intel Core™ Duo + Processor, 1GB RAM, Flash 10.3	Yes Recorded files stored on Adobe Server in .flv format Files are available for download	Yes Separate telephone conference line suggested for audio with larger audiences	1024x768 recommended for screen resolution 640X480 15fps SD video quality 640X480 20fps high video quality HD not available ------------------------- HD webcam recommended for best video quality	Real-Time Media Flow Protocol (RTMFP)	$126 / year for host license through Emory UTS Desktop Support
Vidyo	1.5Mbps up / 4-5Mbps down for HD quality 1Mbps up / 2Mbps down for SD quality	Up to 9 viewable participants in a conference System capacity 50 participants max	Yes Desktop/ Application/ Documents No sharing from mobile devices, only viewing	Mac OSX 10.5+, Win 7/Vista/XP (32/64 bit), Linux, iPad, iPhone, Android Mac - Intel CPUs i7 based system Core 2 Duo 2.8GHz+, DDR3 memory, Core 2 Quad, DDR2/3 memory	No Possible future feature	Yes	Up to 720p30 max ---------------------------- HD webcam required for HD quality	H.264 AVC H.263+ H.323 Gateway & SIP	Vidyo client license cost assumed by UTS User needs Emory credentials
Cisco/ Tandberg	Up to 6Mb max 1.5Mbps minimum for HD quality 768Kbps minimum for SD quality	Multiple participants via external MCU (video conference bridge) – 30 port capacity	Yes Computer/ Laptop/ Different camera sources	Cisco Proprietary	No Possible future feature	Yes	Up to 1080p30 max ---------------------------- HD codec option and HD cameras required HD resolutions: 720p30 720p60 1080p30 1080p60	H.323 H.320 (ISDN) via Gateway/ MCU	After hours support or MCU fee @ $75/hour

Feel free to consult with Emory's Center for Interactive Teaching on choosing the right solution - ecit@emory.edu 404.727.6886

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