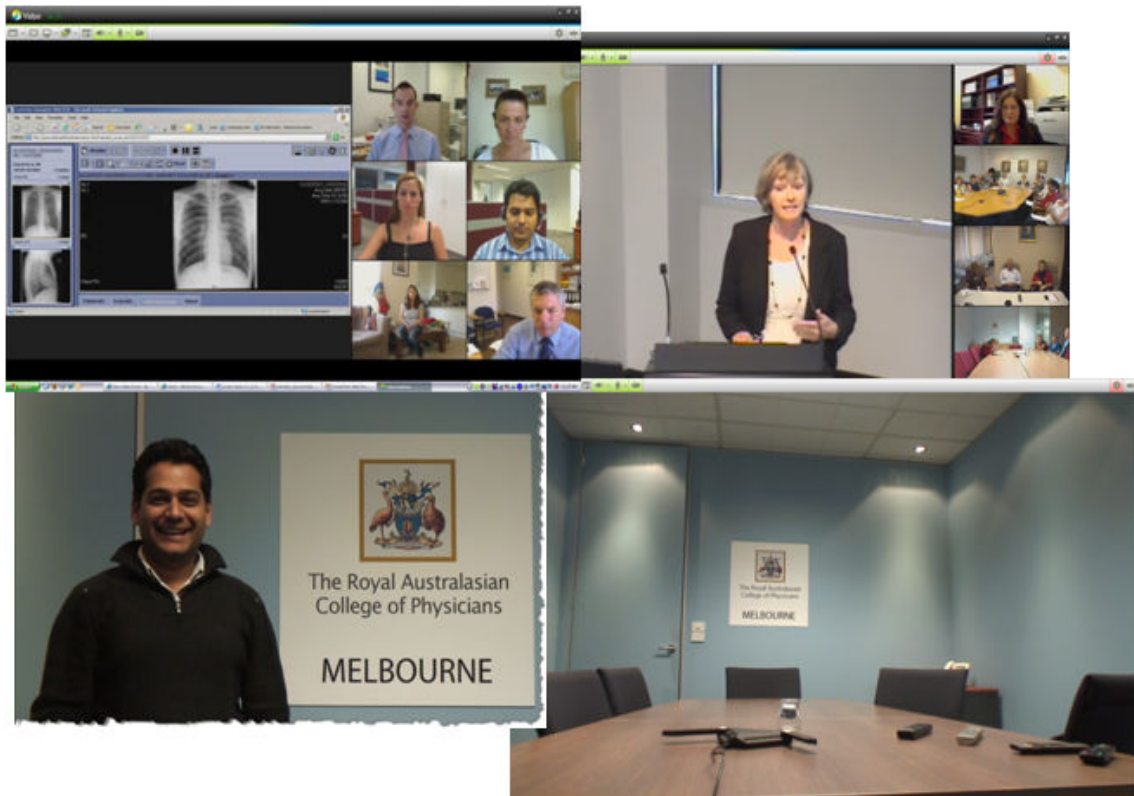


# VIDYOCONFERENCING™ READINESS ASSESSMENT

---



## Contents

1. Introduction .....	2
2. Minimum Requirements.....	3
2.1. Do you have the right Audio / Video peripherals? .....	3
2.1.1. Do you have a suitable web camera?.....	3
2.1.2. Do you have suitable microphone / speakers for the size of audience? .....	3
2.2. Is your computer suitable?.....	3
2.2.1. Computer requirements .....	3
2.3. Does your organisation allow desktop video conferencing?.....	3
2.4. Do you have basic computer literacy? .....	4
2.5. Can you download and install .exe files on your computer? .....	4
2.6. Do you have enough bandwidth? .....	4
2.7. Is your IT dept. prepared to modify firewall and Web Proxy Permissions? .....	4
3. Appendix 1 - Common CIO FAQ's about using Vidyo™ SVC video.....	5

## 1. INTRODUCTION

Vidyo Conferencing™ is a business grade video conference technology like Polycom or Tandberg but works especially well over 'best effort' network like fixed or mobile internet using a modern computer. It has all the convenience of web based systems like Skype without the limitations.

It can be set up in seconds, doesn't require expensive equipment and can securely connect up to 100 locations simultaneously, including standard video conference systems.

With high definition video and no delays people get a natural experience and easily forget about the technology. They can also share documents or anything open on their computer.

*There are some things you need to focus on however*, including getting the right peripherals and this is essential to achieve a good outcome.

Vidyo is managed via the web based Attend Anywhere management platform (see [www.attendanywhere.com](http://www.attendanywhere.com)). The platform makes it easy for companies to use and enable access to their services via video conference. At the back end the Attend Anywhere website provides all of the business process integration, scheduling and management required.

### **More about Vidyo:**

- Single click to connect
- No multipoint bookings or MCU required
- HD 720p 30fps quality with a \$150 webcam and a modern laptop
- Connects to existing standards based video conference systems (sip or h.323)
- Vidyo™ room devices deliver dual 1080p 60fps telepresence (< A\$40k)
- Get your own server or use a hosted service
- Software based so experiences improve with Mac and PC performance
- Used in peoples own environment (rooms, office, home, on the move etc.)

## **2. MINIMUM REQUIREMENTS**

### **2.1. Do you have the right Audio / Video peripherals?**

*The right choice of audio and camera peripherals makes a huge difference to quality.*

The most common cause of poor experiences for everyone in the meeting is someone using an older web cam or not using either earphones, a headset or an echo cancelling speakerphone.

The information below is for individuals or small groups. Large room audio visual integrations require a separate quotation.

#### **2.1.1. Do you have a suitable web camera?**

In-built cameras are getting better and the MAC ones work the best but the performance and optics of the new HD (720p) Logitech *Webcam* (not Quickcam) Pro 9000 web cams makes a huge difference.

The camera must have auto-focus, especially for groups of more than one.

The cameras let you videoconference in **high definition\*** and we strongly recommend using one of these.

#### **2.1.2. Do you have suitable microphone / speakers for the size of audience?**

For individuals a combination of earphones and the Logitech camera mic works fine unless it's a noisy environment in which case a USB headset and in-built mic is the best option.

For small groups (up to 8 people) the Clear One Chat 50 speakerphone we have found works the best.

For larger groups a single or daisy chained Phoenix Audio Quattro speakerphone is a good solution.

Large conference rooms and auditorium need specifying on a case by case basis.

### **2.2. Is your computer suitable?**

#### **2.2.1. Computer requirements**

Operating System: Microsoft Windows 7, XP, Vista or Mac OS 10.5 Processor (CPU): 2 Ghz dual core

Memory (RAM): 1 GB (2 GB if running Windows Vista)

Hard disk: 10 MB free (40MB recommended)

Web Browser: Internet Explorer 7/8 or Firefox 2.0 on Windows Safari, Firefox 2.0 or Camino on Mac OS X 10.5

Java version 1.5 +

### **2.3. Does your organisation allow desktop video conferencing?**

Historically security and other architecture fears around products like Skype and other concerns such as network capacity concerns meant some organisation do not allow desktop video conferencing.

Advances in technologies like Vidyo™ and demand for desktop and mobile access to high quality Video conferencing have changed the landscape (see appendix for CIO FAQ's) but these policies may remain current.

## **2.4. Do you have basic computer literacy?**

Basic familiarity with computers is necessary. This includes being able to select the correct the correct audio / camera options when asked and understanding basic troubleshooting – such as muting and un-muting microphones / volume.

## **2.5. Can you download and install .exe files on your computer?**

In order to successfully install or upgrade the video conferencing software you must have sufficient access rights on the computer you are using.

Downloading the Vidyo software takes about 10 seconds but it does require administrator rights on your computer.

This can either be granted or there are a few mechanism options for the IT departments to install the software.

## **2.6. Do you have enough bandwidth?**

Data speeds of 600kps + upload speed and up to 600kps - 2mb download is optimal although the Vidyo will perform at slower speeds.

Download speed requirements depend on the number of viewable participants on the screen. This can be restricted manually or it will be automatically throttled based on the bandwidth available.

No special quality settings or priority settings are required on the network.

You can test you speed here – [www.attendanywhere.com/setupvideo](http://www.attendanywhere.com/setupvideo).

## **2.7. Is your IT dept. prepared to modify firewall and Web Proxy Permissions?**

If your computer is on corporate or hospital data network firewall permissions may be required to allow access to the Vidyo router for the system to function correctly.

Depending on your organisation's network design this may mean a modification to local PC based Firewall rules and / or a change to your organisations' Internet firewall.

Generally organisations do not object to allowing access when presented with a solid business case and reassurances related to the points raised in the CIO FAQ document.

If you need to ask you IT department this Network Administrators guide will help answer their questions.

[www.attendanywhere.com/image/marketing/Network\\_Administrator\\_Guide.pdf](http://www.attendanywhere.com/image/marketing/Network_Administrator_Guide.pdf)

### 3. APPENDIX 1 - COMMON CIO FAQ'S ABOUT USING VIDYO™ SVC VIDEO

When assessing and planning for the implementation for new solutions that solve a strategic or tactical business need CIO's balance the benefits of the solution against the impact on the network as well as the level of support and manageability all of which are critical factors. They have a role to ensure that any new technology is not disruptive to existing infrastructures, both in terms of security and capacity.

Below is a table of considerations in relation to enabling use of Vidyos Conferencing™.

<p><i>Why Vidyos?</i></p>	<p>Recent breakthroughs in a visual communications standard called SVC have meant a significant leap forward in what the technology can do. Compared to traditional visual communications, SVC based visual communications:</p> <ul style="list-style-type: none"> <li>• Is really simple to use</li> <li>• Delivers exceptional quality video and audio</li> <li>• Displays high quality slides and images at the same time as the video</li> <li>• Works over any unmanaged networks such as the public Internet</li> <li>• Inherently supports multi-person, multi-site meetings without the involvement of third party bookings or personnel</li> <li>• Works on PC and Mac</li> <li>• There is no need for dedicated or special networks or prioritization of video traffic</li> <li>• Is adaptable to a range of networks, computers and audio / video devices</li> <li>• Connects reliably over regular internet services (ADSL2 and higher)</li> <li>• Works over 3.5G mobile data networks such as NextG</li> <li>• Requires only minimal capital outlay (USB camera and echo cancelling microphone)</li> <li>• Works on the desktop so people can use visual communications as an everyday tool</li> </ul>
<p><i>Can we use our existing investment in traditional visual communications infrastructure?</i></p>	<p>Yes the system connects to traditional video conference systems via H.323 or SIP.</p>

<p><i>Traditional visual communications works well over closed IP networks using standards called H.323 and H.264/AVC – why do I need to change?</i></p>	<p>This is true over fixed networks but to connect locations on different networks over the Internet using H.323 and H.264/AVC can be quite problematic. Running programs involving people from different networks is complicated from a technical and end user perspectives. The quality is very variable and the lowest quality end-point/link can degrade the standard of the whole conference.</p> <p>Recent developments in a standard called SVC (Scalable Video Codec), that Vidyo™ were the first company to use, have addressed these issues and produce exceptional results over unmanaged networks like the Internet.</p> <p>Investing in a dedicated network for VC is inefficient as allocated bandwidth is not being used when VC is not in use. Efficiencies are possible by investing in increased bandwidth in your enterprise WAN or local Internet links as this will accommodate general application performance as well as Vidyo. This is possible as SVC doesn't require the QoS that AVC requires.</p>
<p><i>How will bandwidth consumption impact my network?</i></p>	<p>Consumption is 600kps uplink and 1-2Mbs downlink per typical desktop (1.8 – 2.3GHz Dual Core). Bandwidth consumption using on the very latest computers (Quad Core) can scale to 1.2 Mbs up and 2-3mb down for high definition sessions.</p> <p>This is similar to any centrally located high definition visual communications system, but because there is minimal capital outlay and people can use the new technology in their offices, higher adoption and more frequent use is quite likely. This will drive up WAN and/or Internet utilization.</p> <p>Unlike AVC though, SVC doesn't require an absolute amount of bandwidth and is adaptive to the bandwidth available.</p>
<p><i>What options are there for managing bandwidth?</i></p>	<p>If broad adoption drives unacceptable bandwidth demands you can manage this in a number of ways.</p> <p>It is possible to set up Vidyo as a room system in a site facility and encourage/mandate staff to use this. This will limit simultaneous sessions by virtue of room availability but still provide most of the advantages detailed above.</p> <p>Bandwidth limits can be set up in the Vidyo desktop client.</p> <p>Network router based traffic policies can be set for the Vidyo protocols/ports to control the maximum practical sessions. Vidyo will still perform well provided the constraints are not set below the minimum for the number of sessions allowed.</p>

	<p>Vidyo can operate in a proxy mode which does not require firewall changes and utilizes your existing web proxy configuration. This mode does not allow the high quality experience and is therefore not the preferred option</p> <p>Other options include;</p> <ul style="list-style-type: none"> <li>• Hosting a dedicated Vidyo server internal to the network</li> <li>• Establishing a trusted data connection to a hosted Vidyo removing the need for firewall setting changes</li> <li>• Making the recommended firewall setting changes which are minimal and can be restricted to allowing access to specific Vidyo servers</li> </ul> <p>Each CIO that has reviewed the firewall traversal requirements has concluded that the risk level is acceptable. See the Network Administration Guide Document for full details.</p>
<p><i>Will other endpoints be able control my desktops or access local files?</i></p>	<p>No. There is no remote control or file sharing facility. The presentation facility is limited to remote viewing of an open window or document. This is always under the control of the local user.</p>
<p><i>How does the client visual communication software install on the desktop?</i></p>	<p>The Vidyo Desktop software is normally automatically downloaded and installed as part of the meeting setup process. The download is an EXE file and so may be blocked by some security profiles. Installation does require administrator rights on the desktop PCs. IT departments can be provided installation file kits to create push installations rather than needing to login to each desktop.</p> <p>All desktop visual communications solutions require some local software, even flash based systems require the flash software to be installed or upgraded.</p>
<p><i>Will our existing computers be adequate?</i></p>	<p>The Vidyo<sup>tm</sup> visual communications software does require a reasonably modern computer and in many cases this is not a problem.</p> <p>The cost of a new market leading PC is around \$1500 and of course this can be used as a general purpose desktop computer. This should be contrasted with the expenditure required to establish traditional visual communications systems that are 5- 20k + and are dedicated to VC use.</p>