

Option 1: AT&T Video Meetings with BlueJeans on BadgerNet

Service availability: Begins February 1, 2017

- In the existing BCN Managed Video environment, the video bridging sessions are a scheduled or reserved resource through the Scheduling Office. In the new environment, AT&T Video Meetings with BlueJeans on BadgerNet provides a named Host solution that includes up to one-hundred (100) participants within the one meeting room, which will be available 24/7 with unlimited recording. It is a meet-me service where participants dial in or click on a URL from their device so scheduling is not required. Video Meetings with BlueJeans on BadgerNet is a cloud-based, multi-point videoconferencing solution that offers a cost-effective, scalable, mobile approach to meeting and collaboration. AT&T Video Meetings with BlueJeans on BadgerNet is also accessible over the Internet from devices equipped with a camera, providing value because you can access the service without the need to purchase or maintain video hardware. The Host manages their own recordings and meeting room environments.

Features and Benefits

AT&T Video Meetings with BlueJeans on BadgerNet gives you these features:

- **Affordable and flexible pricing plan**—BlueJeans provides a named host solution that includes up to one-hundred (100) participants within the one meeting room, which will be available 24/7 with unlimited recording.
- **Command center**—a web-based, real-time dashboard is provided with this solution.
- **Cloud-based service**—helps you minimize video conferencing equipment maintenance contracts, capital expenditures, and IT resource burdens. You can use existing equipment that has Internet access and a camera (e.g., desktops, laptops, tablets, smartphones, or a room-based system). AT&T Video Meetings with BlueJeans on BadgerNet is flexible and convenient.
- **Interoperability**—means that AT&T Video Meetings with BlueJeans on BadgerNet works with Microsoft® Lync®, iOS®, Android™, most web browsers, Cisco Jabber®, and standards-based room and immersive video systems. By enabling unique integration between Microsoft® Lync® and most other video technologies, AT&T Video Meetings with BlueJeans on BadgerNet can extend the reach of Microsoft® Lync® users to include most room-based video equipment, laptops, and mobile devices. So, you can use your existing video hardware and software.
- **Multi-party meetings capability**—supports up to one-hundred (100) endpoints. So, you can use the service for global team meetings, online training, sales calls, HR interviews, and more.
- **Rich, high definition (HD) content support**—lets you share your latest marketing slides or budget-tracking sheet in HD, up to 1080p. Dual-stream support helps maintain the quality of both the video feed and shared content. Your meeting participants will enjoy a high quality experience.
- **Video sharing**—provides synchronized streaming so that all participants can see video content simultaneously from any supported platform, even room-based systems. You can

show a product demo to a customer or review the latest version of a trailer with a global team during AT&T Video Meetings with BlueJeans on BadgerNet events.

- **Meeting recording**—lets you record, watch, and share your AT&T Video Meetings with BlueJeans on BadgerNet events, including the video, audio, and shared content. This allows you to document important meetings and share them with those who were unable to attend; record training sessions for colleagues, customers, and partners; and access recordings from almost anywhere via the cloud. We have provided unlimited recording as part of this solution.
- **Security features**—include firewall and Network Address Translation (NAT) traversal and encryption. This means that even in a multi-vendor environment, you can expect your meetings to be private. This solution also provides for AES encryption.
- **Ease of use** - In addition to being flexible and compatible, AT&T Video Meetings with BlueJeans on BadgerNet is easy to use. Because it's a cloud-based service, you avoid having to buy, install, or manage any conferencing hardware and software. In addition, you can quickly increase service capacity by simply adding licenses or virtual ports. This will also allow users to continue to use their existing video end points as well as new.

Hosts can schedule a meeting via the scheduling portal or Microsoft® Outlook® or Google Calendar add-in, and participants can join via tablet, smartphone, or laptop (with the simple click of a link) or a phone call. They can also use systems such as Cisco® Jabber™ or Microsoft® Lync®.

High-level requirements

A BadgerNet connection is required (Category A-D) to gain access to AT&T Video Meetings with BlueJeans on BadgerNet. Once you are a customer of BadgerNet, you simply combine a service account with a video-enabled device. First, sign in to your AT&T Video Meetings with BlueJeans account online and enter your meeting. Whether you're initiating a scheduled or ad hoc meeting, you can start it via your browser or mobile device. Before entering, you choose the device (computer, room system, or mobile device) and video platform (browser, Microsoft® Lync®, mobile app, etc.) you want to use. Inviting participants is easy: Use your contacts and invite people inside or outside of your organization. All participants receive an audio number and URL (or dial-in string for other H.323 and SIP end points) that launches the meeting within their browser or mobile device. Once in your meeting, you automatically send and receive video. You use the same interface to control your meeting experience (e.g., record the meeting, share content, send group chats, change viewing layout, zoom, etc.).

Option 2: BCN Managed HD Video Service

Service availability: Today thru October 31, 2018

AT&T will extend the existing BCN Managed High Definition Video Service thru October 31, 2018 or when the site migrates. The existing infrastructure will remain in place allowing existing high definition (HD) classrooms to schedule video sessions, access the BCN bridges, and place a call for help-desk support. The HD video codecs remain the property of the local service provider

and can continue to access and use the Crestron classroom controllers. The legacy infrastructure, specifically the management system, bridges, and firewalls remain in place.

This service is provided only to existing BCN High Definition Managed Video users. Standard definition users have the option to upgrade to BCN High Definition service or to migrate to another BadgerNet service before December 31, 2017. Other BCN Video services, such as Remote Video Access (RVA), Virtual Meeting Room (VMR), HPLL and HPLL with Video Bridging Service will be available through December 31, 2017 or when the site migrates to another BadgerNet service.

BCN Managed HD Video Service Components

- Multipoint Control Units (MCU)—a multipoint control unit allows two or more video end-points to bridge together on a call. BCN's Video Network includes four (4) Multipoint Control Units with a significant amount of capacity to accommodate standard and high-definition end-points in a single call. The MCUs are physically and logically diverse for redundancy and have additional expansion capacity.
- Converged Management Application (CMA)—CMA is a management tool used by AT&T to provision, troubleshoot and control call flow with the BCN video network. All video devices, standard-definition codecs, high-definition codecs, MCUs, gateways, etc. are registered to CMA. Devices in the network can be tracked and call flow can be defined as a standard procedure with CMA. As a tool, CMA is not available for use to consortiums or individual sites.
- Video Border Proxies (VBP)—Video Border Proxies (VBPs) are a specific type of firewall and allow certain types of calls to enter or exit BCN. There are two types of VBPs in the BCN Video network; one specifically for BCN Remote Video Access video end-points to use, and another VBP for all other types of users and calls. Introduction of the VBPs now allows certain types of calls to leave the network without using the MCU as a gateway.
- Scheduling – Having resources for scheduling these managed HD video sessions is very important to ensure successful scheduled video sessions. Scheduling can be done as it is today through DOA's arrangement with Wisconsin Indianhead Technical College or AT&T will work with AVI to offer this service.

High level requirements

BCN Managed HD Video service provides a managed codec as part of the service. Classroom control system, monitors, and other necessary integrated room equipment may be required. Category A-WAN with QoS, BadgerNet network connectivity is also a requirement.

Implementation Approach

AT&T will maintain the existing Managed High Definition Video Service thru October 31, 2018. All existing HD Managed Video users will be able to retain their service. Existing Remote Video Access, Virtual Meeting Rooms, or Video Bridging users will have the option to migrate to an alternate video service known as AT&T Video Meetings with BlueJeans on BadgerNet.