Manage service access & configuration
Use our resources to ensure your event organizers and producers have successful virtual events.

- Validate network health
- Review policies for service access and configuration
- Provide a clear path for support

Utilize our core technical documentation on docs.microsoft.com or visit our Virtual Event Forum to ask your questions of our experts.
Who can use live events?

Who can create events?
Grantee from the admin
Enterprise E1, E3, E5, or Education A3, A5
Enabled Microsoft Stream license
Special requirements:
- Teams produced events require a Teams license
- Yammer event creators must be group admins

Who can watch events?
Viewers granted permissions to the event
Viewers with a valid license
Exceptions: Teams produced events can be set as externally anonymous access
Networking & bandwidth considerations

- **“In Teams”**
  - RTP traffic sensitive to network
    - Delay can affect interaction between presenters
    - Jitter and packet loss can affect quality of audio and video
  - Quality issues of presenter will affect all participants

- **Externally**
  - Quality issues of RTMP stream will affect all participants

- **Live event attendees**
  - Watching a video is not Real Time Communication and not as sensitive to networking issues
  - Networking issues might lead to delay and buffering or reduced video quality
  - Plan for sufficient bandwidth for multiple people to watch from the same location

Network planning: [https://aka.ms/teams-networking](https://aka.ms/teams-networking)
Live Events high level architecture
Media Flows

Presenter “in Teams” leverages a Teams meeting

Traffic from Teams meeting is Real Time Protocol (RTP)

Leveraging Real Time Messaging Protocol (RTMP)

Video is provided by hardware or software encoder

Attendees watch Stream via TCP; this is not “real time communication”

O365, Next-gen Skype Infra & Streams

Attendees

Player embedded in many clients (Desktop, Web, Mobile)
Live events policies

Why
Teams live events policies are used to manage event settings for groups of users

Considerations
You can use the default policy or create additional policies that can be assigned to users that hold live events within your organization

Does your organization have a requirement to host webinar style conferences?
Is the ability to record or transcribe a live event important to your organization?

How
Teams settings are configured via the Microsoft Teams Admin Center and PowerShell
Details: https://aka.ms/teams-live-events
Live event policy setup

- Control who can host Live Events and the features that are available in the events they create
- Use the default policy or create one or more custom Live Events policies
- After you create a custom policy, assign it to a user or groups of users
Live events settings

Allow scheduling
Allows users in your org to create and schedule Live Events in Teams.

Allow transcription for attendees
Enables attendees to see real-time captions and translation during the Event.
*Can only be applied to quick start Events.*

Who can join scheduled Live Events

*Everyone* – Users can create Events that employees internal and outside your org can attend.

*Everyone in the org* – Users can create Events that *only* people in your org can attend.

*Specific users or groups* – Users can create Events that *only specific users or groups* in your org can attend.

Recording

*Always Record* – Events created by users are always recorded and can be downloaded after the Event.

*Never Record* – Events created are never recorded.

*Organizer can record or not* – Users can decide whether to record the Live Event.

PowerShell:

```
[Get|set|new|grant]-CsTeamsMeetingBroadcastPolicy
```
# Teams Live Events tenant-wide configuration

- **Tenant wide configuration PowerShell only**
  - `[get|set]-CsTeamsMeetingBroadcastConfiguration

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support URL</td>
<td>Set up the support link that should be shown to Live Event attendees</td>
</tr>
<tr>
<td>Allow eCDN</td>
<td>Set up ‘Hive’ or ‘Kollective’ as the eCDN provider</td>
</tr>
<tr>
<td></td>
<td>Note: Ramp is also supported but configured out-of-band</td>
</tr>
</tbody>
</table>

```powershell
Set-CsTeamsMeetingBroadcastConfiguration -SupportURL "http://www.contoso.com/broadcasthelp"
Get-CsTeamsMeetingBroadcastConfiguration

Identity : Global
SupportURL : http://www.contoso.com/broadcasthelp
AllowSDNProviderForBroadcastMeeting : False
```
Other policies impacting Live Events

Users
Presenters need meeting policies that allow for screen sharing
Meeting policies should not limit the bandwidth for sharing
## Considerations on leveraging Teams within virtual events:

<table>
<thead>
<tr>
<th></th>
<th><strong>Teams Meeting</strong></th>
<th><strong>M365 Live Events</strong> (Produced via Teams)</th>
<th><strong>External Encoder</strong> (RTMP Stream)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Delivery platform</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>Audience</strong></td>
<td>Internal</td>
<td>Internal</td>
<td>Internal</td>
</tr>
<tr>
<td><strong>Production</strong></td>
<td></td>
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<tr>
<td><strong>Captions</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>Interactivity</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>Post-event</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Access</strong></td>
<td>Internal AAD</td>
<td>Internal AAD</td>
<td>Internal AAD</td>
</tr>
<tr>
<td><strong>Audience size</strong></td>
<td>250</td>
<td>10k</td>
<td>10k</td>
</tr>
<tr>
<td><strong>Run yourself (no production involvement)</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td><strong>Hardware requirements</strong></td>
<td>PC/Camera</td>
<td>PC/Camera</td>
<td>Production (cameras audio, live switching) + Encoder (hardware or software)</td>
</tr>
<tr>
<td><strong>Duration</strong></td>
<td>No limit</td>
<td>16 hours</td>
<td>4 hours</td>
</tr>
<tr>
<td><strong>Live mixing of sources/presenters in meeting</strong></td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td><strong>Distinct roles empower producers, presenters and attendees</strong></td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td><strong>Captions</strong></td>
<td>AI Captions only</td>
<td>AI Captions only (Captions not yet available in Yammer)</td>
<td>Human Captions only</td>
</tr>
<tr>
<td><strong>Caption translations</strong></td>
<td>No</td>
<td>Up to 6 languages</td>
<td>No</td>
</tr>
<tr>
<td><strong>Moderated Q&amp;A (Chat)</strong></td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Unmoderated Q&amp;A (Chat)</strong></td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Verbal Q&amp;A within platform</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td><strong>Automatic live to VOD transition</strong></td>
<td>Yes *only available to internal on Stream</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Reporting</strong></td>
<td>No</td>
<td>Unique Viewership GEO</td>
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</tr>
<tr>
<td><strong>Viewing Duration</strong></td>
<td>Geo</td>
<td>Viewing Duration</td>
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</tr>
<tr>
<td><strong>Unique Viewership</strong></td>
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Delivering content within the network

Client Requirements:
Live bitrate profile
- 720p: 3.5 Mbps
- 540p: 2.2 Mbps
- 396p: 1.4 Mbps
- 288p: 850 Kbps
- 216p: 550 Kbps
- 192p: 200 Kbps

eCDN solutions
Reduce network traffic crossing the company firewall
- P2P or cache proxy solutions
- Real-time monitoring and in-depth analytics

Video delivery and network overview documentation