



Video Live Streaming Plugin Guide

V1.2

June 2024

System Requirements	3
Installation - Windows	3
Licensing	4
Setting up a live stream into a Tanooki collaboration session	4
Collaboration tips	8
Troubleshooting	9
Connection issues/Drop outs	9
Audio echo	9
Timecode issues with Media Composer	9
AV Sync or latency issues	9
Dropped Frames	10
Other links	11

System Requirements

Windows - 10 22H2 / 11 22H2 64bit Pro or Enterprise editions

Tanooki Avid openIO plugin has been tested with the following versions of Avid Media Composer:

2022.12.7

2023.12

In all cases the system sending the stream into Tanooki will need to access the following fqdn and ports:

janus.tanooki.io

Ports: 443 (TCP) and 20000-40000 (UDP)

This information is included here in case your system is behind a firewall. Domestic connections should be reachable by default.

The plug in software will configure your computer's firewall as part of the installation process.

For a full list of network connectivity requirements to use the Tanooki web platform if your system is behind a firewall without general internet connectivity please see [here](#).

Installation - Windows

You will require administrative rights on the system you will be installing the plugin software on.

The download link for the software will download the software in a .zip archive, which will need to be extracted on the system.

Once extracted, run the installer application named SetupTanooki_x64, choose the language to use during the installation process.

Choose the default installation directory of C:\Program Files\tanooki and then 'Next' again to create a Start Menu folder.

Choose 'Next' for the following step as it is not needed to create a desktop or quick launch shortcut.

Then press Install to install the software - this will take 1-2 minutes, and will include an installation of Microsoft Visual C++.

When the install is complete, follow the prompt to reboot your system to finish.

Licensing

Once installed on your system launch the 'Tanooki Config' app and select the tab at the top of the window that opens named 'licence'.

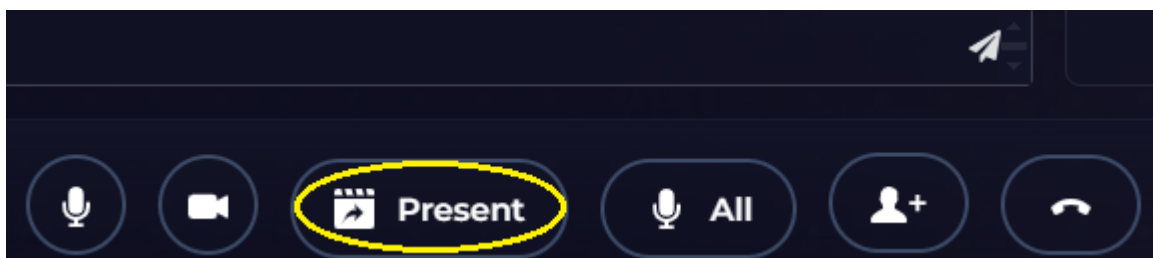
Fill in your name, email address then click the button to **generate a site code**, this code will need to be emailed to 'license@tanooki.io' and is specific to the system you generate it on.

Once processed we will send back a **registration key** which will unlock the software, once pasted in the box below and the **register button** clicked. ([See Fig2](#))

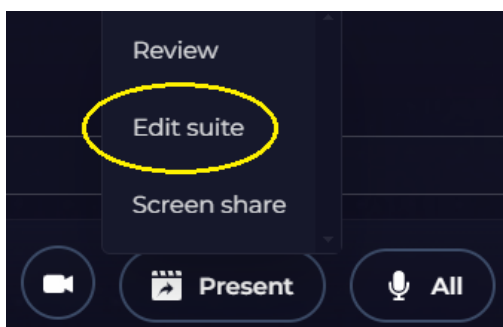
The Tanooki live streaming OpenIO plug in will be fully functioning in the meantime but will have a watermark until licensed for commercial use.

Setting up a live stream into a Tanooki collaboration session

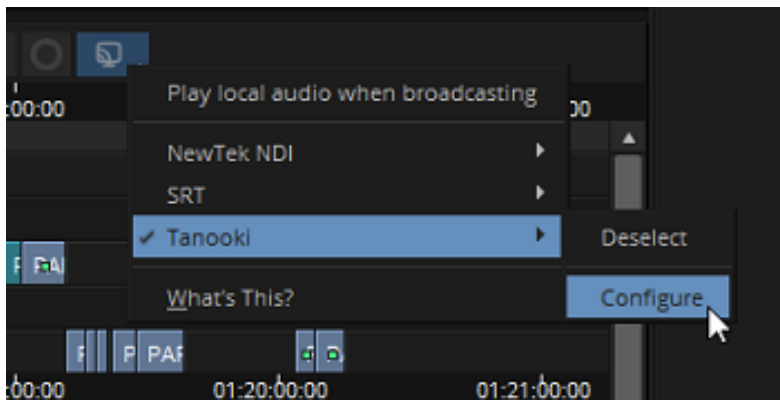
To present your session you must join the video conference (VC) session as a 'host'. If you created the session you will automatically be set as the host, but if someone else invited you into the VC, they will need to assign you as a host. For each collaboration session there is a unique ID code. This code can be found by looking at the [session details](#) in Tanooki or once joined in the VC, go to the 'Presentation options' button at the bottom (clapper board icon):



Then select Edit suite:



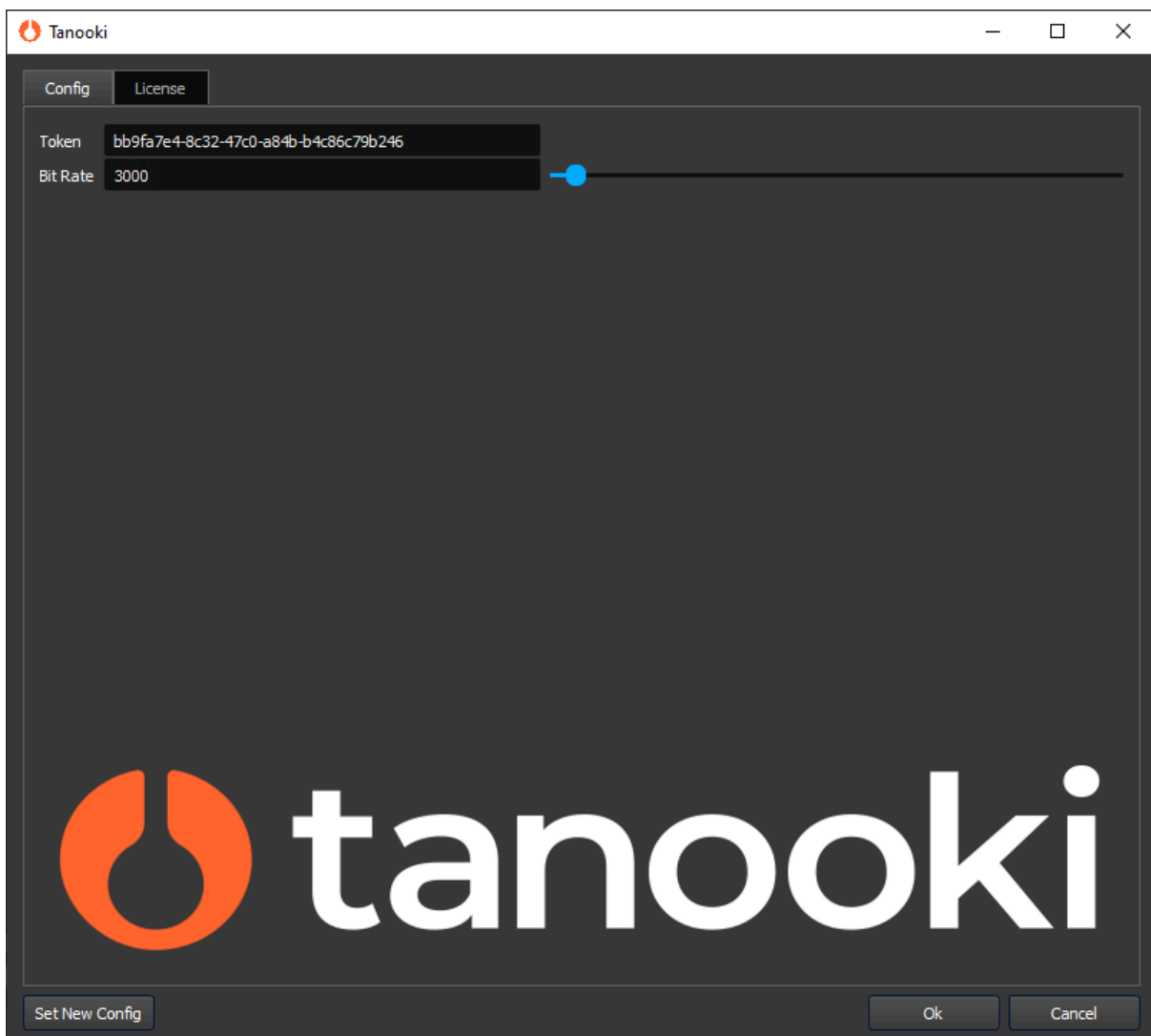
A new window will appear. Copy the unique **token** provided:



A configuration window will appear.

Paste the token into the 'Token' field.

You can also adjust the Bit Rate (quality) of the stream here, we recommend 3000 as a good value to balance stream quality with participant connection speeds.



Once the config is set by clicking Ok, left click the OpenIO button at the top of the timeline window to enable the stream, the button will flash red when streaming.

Back in the Tanooki VC presentation window you should now be seeing a preview of the stream, you can also preview audio by clicking the button 'Listen to incoming audio.'

When you are ready click the 'Present edit suite' button to share the stream with the other participants of the call, once this is done all participant mics will default to 'push to talk' (PTT)

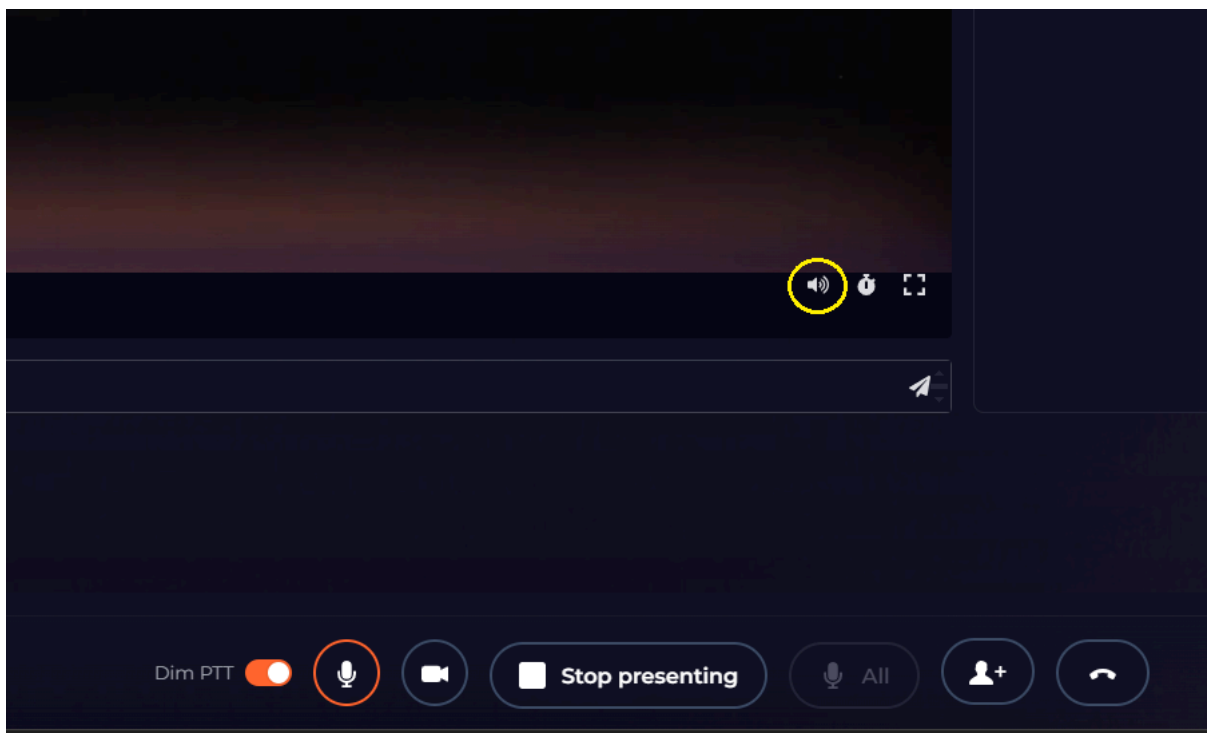
Collaboration tips

User case

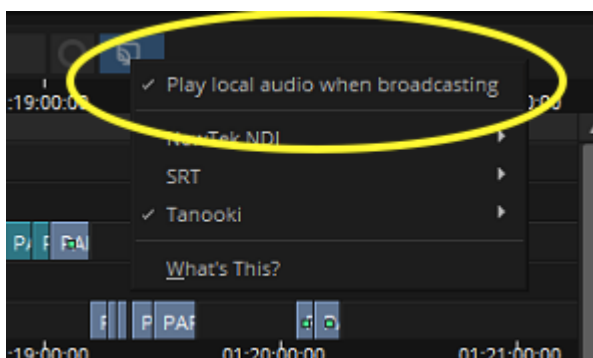
An editor using the same computer to join the video conference on and streaming from. All other participants are joining the video conference remotely. During the video conference the editor will be working on the creative software package, making changes and driving playback of the stream.

In this scenario the editor will set up the stream as described above. During the video conference **local audio** from the edit software should be monitored by the editor rather than the **stream audio** which will be in the video conference.

Press the mute button on the presentation during the video conference to mute stream audio (bottom right of video display)

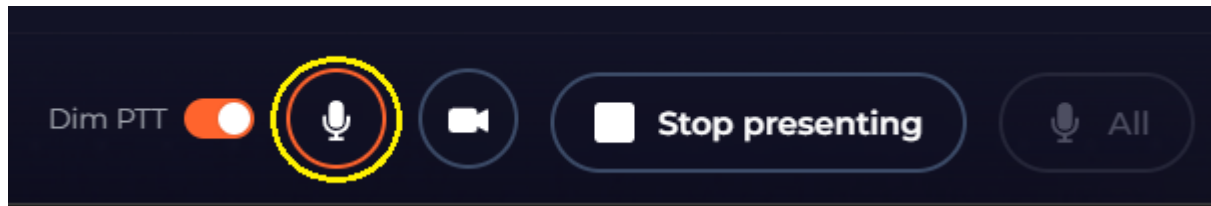


Ensure in Media Composer that Play local audio when broadcasting is enabled in the openIO dropdown:



At the presentation start, all participant mics will automatically be muted and 'push to talk' activated.

Viewing participants can 'latch open' the mic so it is always on by double clicking on the mic button if they want to always be heard.



For the editor this will be different - to stop the local audio from being captured on the mic, push to talk will need to be used, or headphones worn with it latched open..

Troubleshooting

Connection issues/Drop outs

The video conference obviously relies on internet connectivity for each participant. Interruptions or interference to the connection can result in the stream dropping out.

Wherever possible use the best internet connection available and a wired connection if available.

Lower the stream bitrate if required, a stream of 1500Kbps will still give reasonable results ok for editorial viewing.

If a participant loses the stream totally whilst others are receiving, then it's advised to leave/rejoin the call. This can be done by refreshing the browser page of the call.

Audio echo

Remember that if mics are open the sound from participants stream sessions can be transmitted back into the call, enable push to talk to mute this.

If you have both local audio and stream audio playing this will cause echo, disable stream audio in the browser as described.

Timecode issues with Media Composer

The timecode in the open IO stream should work in Avid Media Composer versions from 22.12.6 onwards, ensure you are running an up to date version and upgrade if needed.

AV Sync or latency issues

The tanooki plugin was designed with low latency as a priority, with good connectivity the delay to participants should be less than .5 of a second. Try reconnecting to a VC if latency or AV sync loss is experienced.

If all participants are experiencing AV sync loss or latent stream, please try re-presenting the stream, this will re-establish the connection between the presenter and streaming server, from where the other participants will pick up the stream.

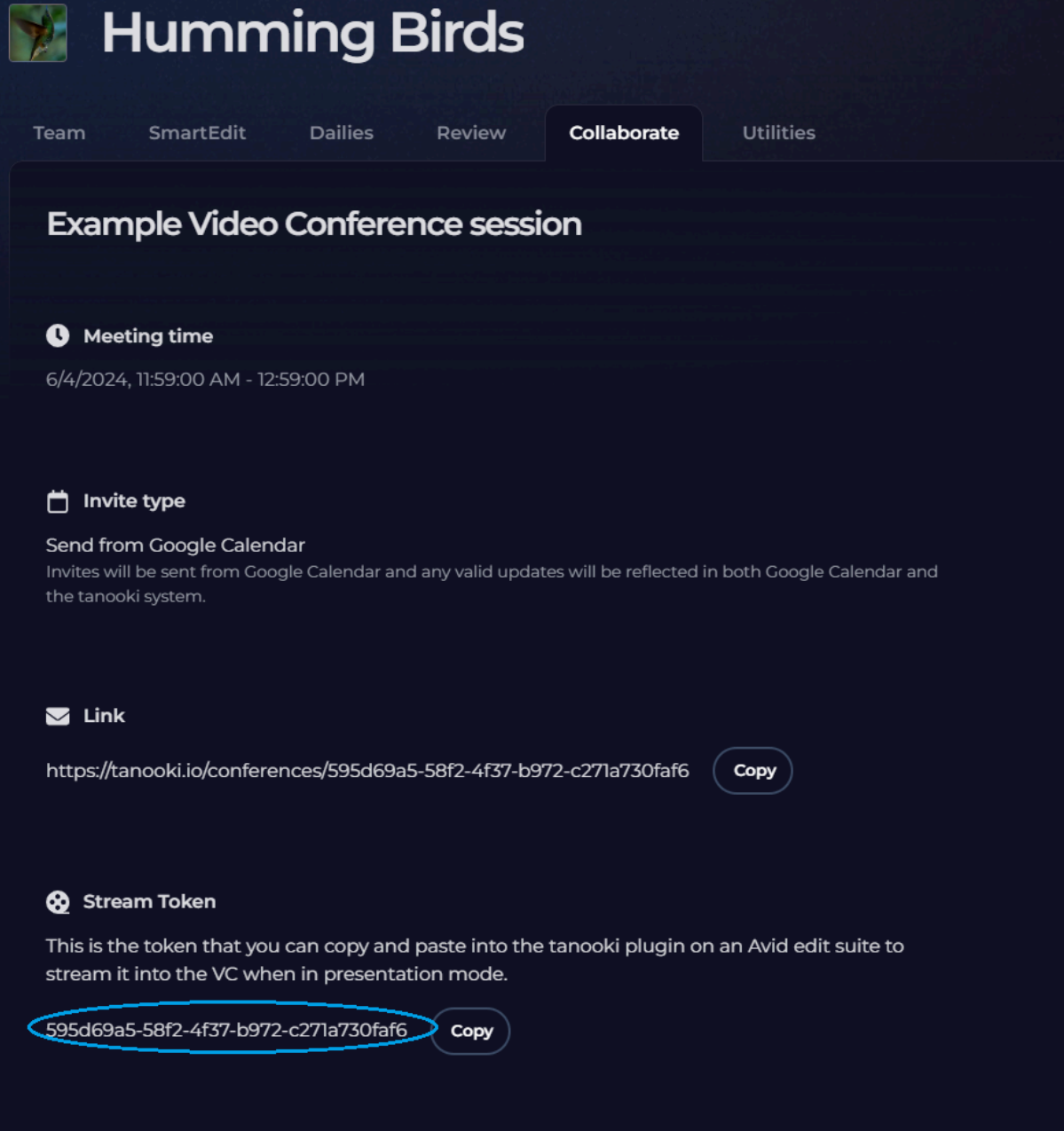
Dropped Frames

Issues have been recorded with dropped frames in Avid media composer due to anti-virus software. To confirm please uninstall your AV software and test.

Dropped frames can be identified in Media Composer by red render ranges in the timeline appearing during stream playback, or by issuing the 'Skipped Frames' command in the console.

Other links

Fig1. Tanooki VC example



The screenshot shows the Tanooki Video Conference interface. At the top, there's a header with a hummingbird icon and the title "Humming Birds". Below the header is a navigation bar with tabs: Team, SmartEdit, Dailies, Review, Collaborate (selected), and Utilities. The main content area is titled "Example Video Conference session". It contains four sections: "Meeting time" showing "6/4/2024, 11:59:00 AM - 12:59:00 PM", "Invite type" with the text "Send from Google Calendar" and "Invites will be sent from Google Calendar and any valid updates will be reflected in both Google Calendar and the tanooki system.", "Link" showing the URL "https://tanooki.io/conferences/595d69a5-58f2-4f37-b972-c271a730faf6" with a "Copy" button, and "Stream Token" with the text "This is the token that you can copy and paste into the tanooki plugin on an Avid edit suite to stream it into the VC when in presentation mode." and the token "595d69a5-58f2-4f37-b972-c271a730faf6" circled in blue with a "Copy" button.

Humming Birds

Team SmartEdit Dailies Review **Collaborate** Utilities

Example Video Conference session

Meeting time
6/4/2024, 11:59:00 AM - 12:59:00 PM

Invite type
Send from Google Calendar
Invites will be sent from Google Calendar and any valid updates will be reflected in both Google Calendar and the tanooki system.

Link
<https://tanooki.io/conferences/595d69a5-58f2-4f37-b972-c271a730faf6> **Copy**

Stream Token
This is the token that you can copy and paste into the tanooki plugin on an Avid edit suite to stream it into the VC when in presentation mode.
[595d69a5-58f2-4f37-b972-c271a730faf6](#) **Copy**

Fig2. - Licensing dialogue box.

Tanooki

Config License

User Info

User Name

Email Address

License Status

License: No license found

License - offline

Generate Site Code Copy

To license: Fill out the user name and email address. Click Generate Site Code, copy the code and email it to licensing@tanooki.io. We will send back a key, which you will paste below and click the register button to permanently license this machines.

Paste Key

Register

Set New Config Ok Cancel