



# Technology Taskforce

Dev Anand Teelucksingh, Judith Hellerstein | 15 March 2017

**ICANN**  
COMMUNITY FORUM

58

**COPENHAGEN**  
11-16 March 2017



# Technology Taskforce (TTF) Agenda

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# Introduction to the Technology Taskforce

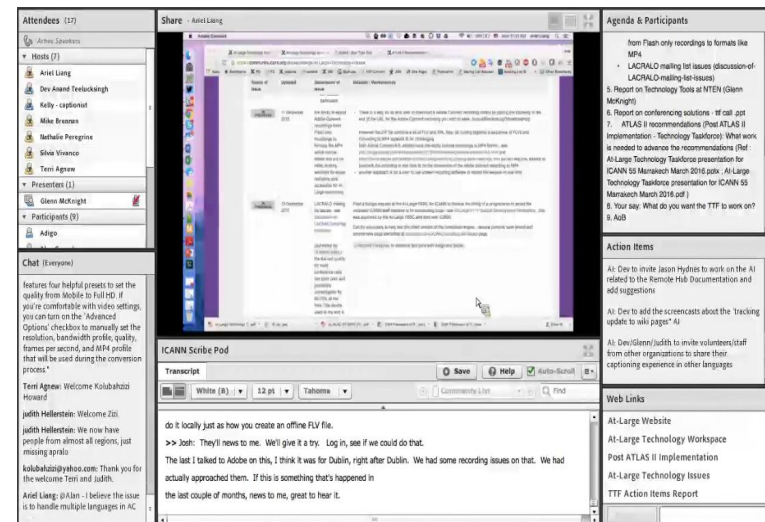
# About the Technology Taskforce (TTF)

- Technology provides the tools that enable people to connect, collaborate, and work towards making the world more accessible, enabling the benefits of the Internet to be available to all.
- The At-Large Technology Taskforce (TTF) evaluates and reviews different technologies and tools that can help the ICANN At-Large Community communicate, collaborate and accomplish their goals and objectives for ICANN activities.



- Examples of these technologies include:
  - chat tools
  - web conferencing tools
  - Captioning
  - Knowledge Management tools

to anything that will help Individual Internet users become active in the At-Large Community.

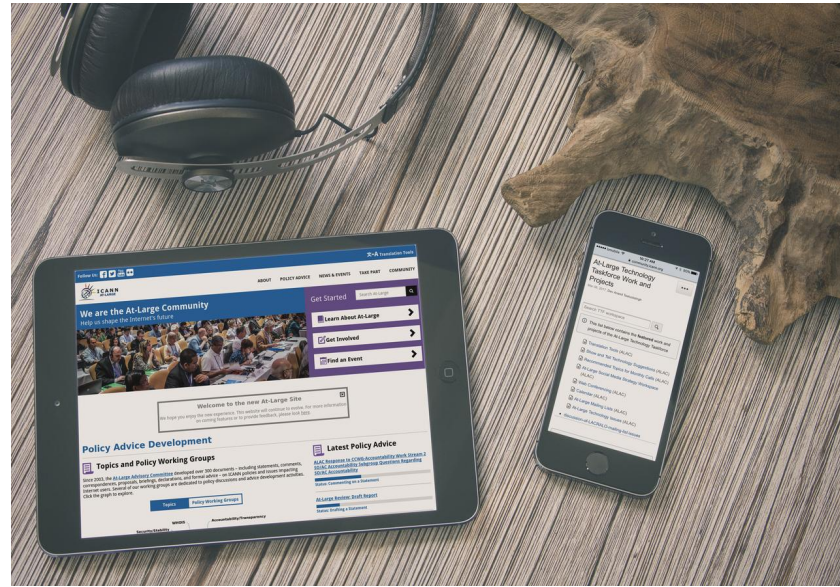


The screenshot shows a web conferencing interface with several panels:

- Attendees (17):** Lists participants including Ariel Liang, Dev Anand Teeluckdinh, Kelly-captionist, Mike Branan, Nathalie Peregrino, Silvia Vivanco, Terri Agnew, Glenn McKnight, and Adigo.
- Share:** Displays a document titled "LACRALD meeting 1st issues" with a list of items and a search bar.
- Agenda & Participants:** Lists agenda items such as "Flash only recordings to formats like MP4", "LACRALD meeting 1st issues", "Report on Technology Tools at NTEN", "Report on conferencing solutions", "ATLAS II recommendations", "ATLAS II implementation - Technology Taskforce", "ATLAS II implementation - Technology Taskforce presentation for ICANN 55", "ATLAS II implementation - Technology Taskforce presentation for ICANN 55 March 2016.pdf", and "Your say: What do you want the TTF to work on?".
- Action Items:** Lists tasks like "Dev to invite Jason Hyndis to work on the AI related to the Remote Hub Documentation and eSIS suggestions" and "Dev to add the screenshots about the 'tracking update to wiki page'".
- Web Links:** Lists links for "AT-Large Website", "AT-Large Technology Workspace", "Post ATLAS II implementation", "AT-Large Technology Issues", and "TTF Action Items Report".
- Chat:** Shows a chat window with messages from Terri Agnew, Judith Hellerstein, and kushalidag@yahoo.com.
- ICANN Scribe Pod:** Shows a transcript of a meeting with text like "do it locally just as how you create an offline FLV file." and "The list I talked to Adobe on this, I think it was for Dublin, right after Dublin. I had some recording issues on that. We had actually approached them. If this is something that's happened in the last couple of months, news to me, great to hear it."

# About the Technology Taskforce (TTF)

- The TTF is open to anyone in the ICANN community interested in Information and Communication Technology and how they can be applied to solve the needs of ICANN At-Large and other ICANN communities.
- The TTF has 1 to 2 conference calls a month.
- TTF work and Projects can be found at <http://bitly.com/TTF-work>
- The TTF wiki page <http://bitly.com/Technology-Taskforce>
- To join the TTF, email At-Large Staff at [staff@atlarge.icann.org](mailto:staff@atlarge.icann.org)



# Selected Technology Issues

The TTF maintains a [Technology Issues Page](#) and an Adobe Connect page to track possible technology related issues noted by the At-Large Technology Taskforce Working Group and the At-Large Community for raising with ICANN Staff to develop solutions and/or workarounds.

Pages /... / At-Large Technology Taskforce Work & Projects Edit Eye Share More Print

## At-Large Technology Issues

Created by Dev Anand Teelucksingh, last modified about 3 hours ago [Translate](#)

- [Current Technology Issues](#)
- [Adobe Connect Issues](#)
- [Resolved Techology Issues](#)

This page seeks to track possible technology related issues noted by the [At-Large Technology Taskforce Working Group](#) and the At-Large Community for raising with ICANN Staff.

### Current Technology Issues

Status of Issue	Updated	Description of Issue	Solution / Workarounds
<b>IN PROGRESS</b>	02 Mar 2017	LACRALO mailing list issues - see <a href="#">discussion-of-LACRALO-mailing-list-issues</a>	<p>Filed a budget request to the At-Large FBSC for ICANN to finance the hiring of a programmer to assist the volunteer ICANN staff member to fix outstanding bugs - see <a href="#">At-Large FY17 Budget Development Workspace</a> , this was approved by the At-Large FBSC and filed with ICANN Finance.</p> <p>On the <a href="#">2016-08-08 At-Large Technology Taskforce Call</a>, ICANN Staff member <a href="#">@Corinna Ace</a> confirmed that a programmer/developer has been hired to sort out the remaining bugs.</p> <p>Call for volunteers to help test the latest version of the translation engine - several persons have joined and several new bugs identified at <a href="#">discussion-of-LACRALO-</a></p>

Some of the key technology issues noted:

- ★ New LACRALO mailing list translation tool
- ★ Making the Adobe Connect recordings more accessible to mobile users
- ★ Adobe Connect connectivity Issues



# LACRALO mailing list translation

Here's what happens when an email is posted to the LACRALO en list



and what happens when an email is posted to the LACRALO es list



- The TTF has long noted [the severe translation problems with the LACRALO mailing lists](#) and submitted to ICANN a [budget request for ICANN to get resources to fix the LACRALO email translation issues](#). ICANN staff is developing an improved translation tool which is being evaluated by the TTF.

Some of the fixes implemented in the new translation tool currently deployed at [new-transbot-en](#) and [new-transbot-es](#) lists.

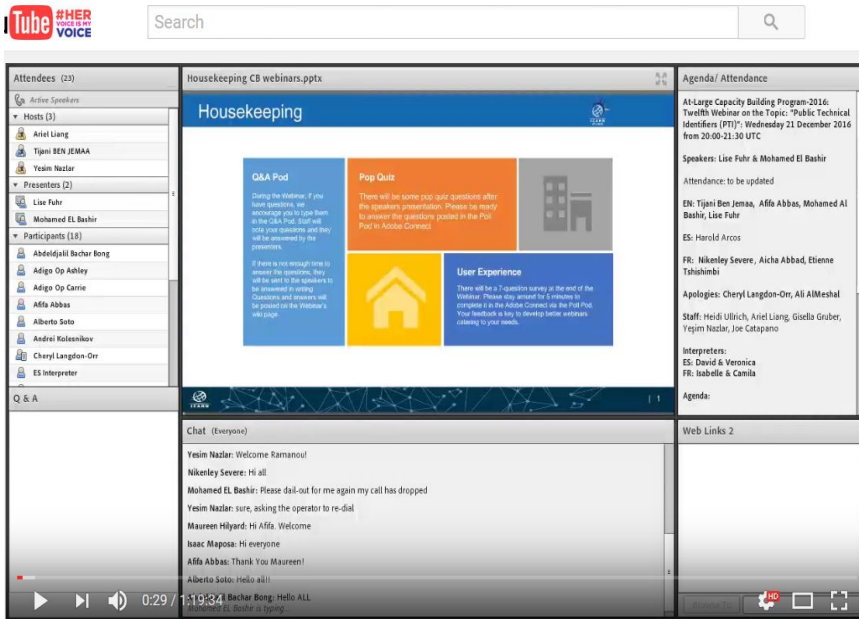
- Subject line of emails is not translated to preserve email threads
- The translation tool will notify the sender if the email couldn't be translated.
- Better handling of cedillas , - previous versions of the tool would result in the email not being translated
- translated emails will also include attachments (TXT, PDF, DOC, JPEG, PPT, PNG, GIF) from the original email.
- If there is text that you do not want to be translated (e.g names), you can enclose text with a <DNT> </DNT>

Comments / Observations to date noted on the <http://bitly.com/LACRALOmail> page :

- Attachments works.
- Subject line not being translated also works
- While the translation tool will notify the sender if the email couldn't be translated, this notification doesn't identify which email gives the transbot problems and what in the email gives the transbot problems.

However,

- We need more testers!



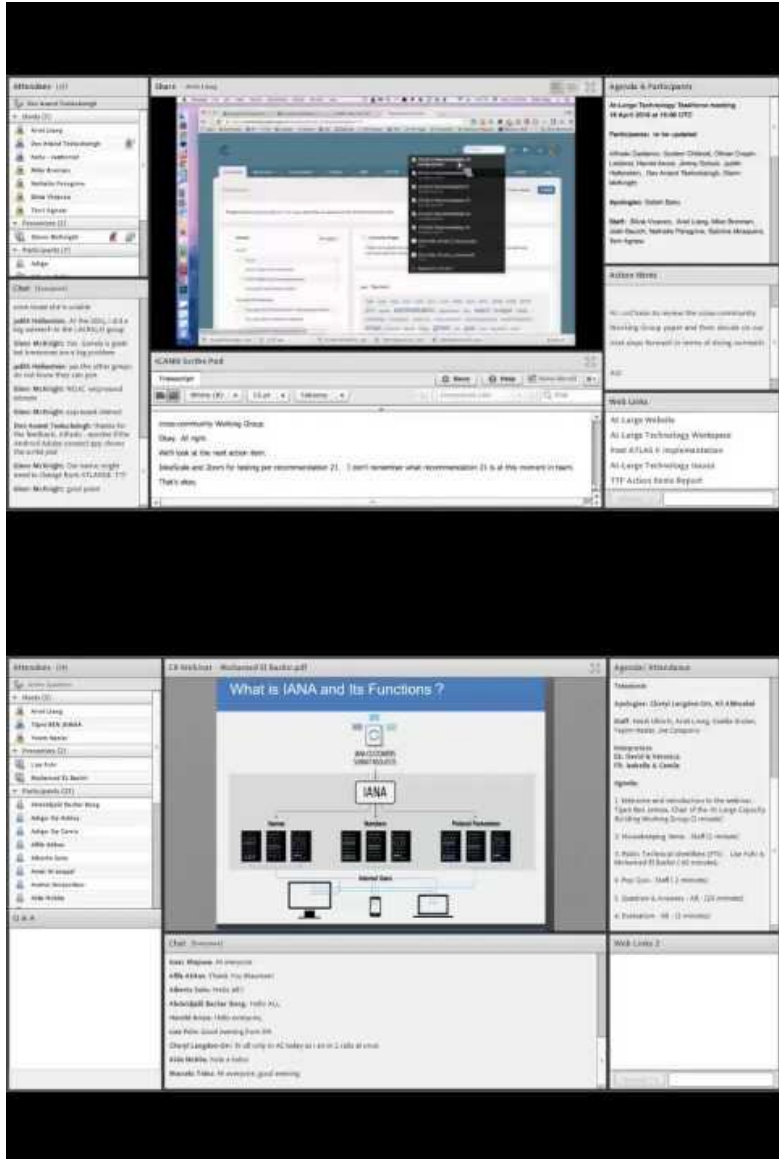
At-Large Capacity Building Webinar: Public Technical Identifiers (PTI)



19 views

- All of the ICANN At-Large conference calls and webinars are done using Adobe Connect. However, the recordings from this conferencing solution are encoded in Adobe Flash.
- Such recordings are therefore unplayable on mobile and tablet devices and playback of recordings on a PC with Flash installed is cumbersome compared with video sharing websites.
- Formats like MP4 can be edited and put on video sharing websites for easier re-sharing on websites and social media and accessible to the At-Large community using computers or mobile devices.

# Making Adobe Connect recordings accessible on mobile devices

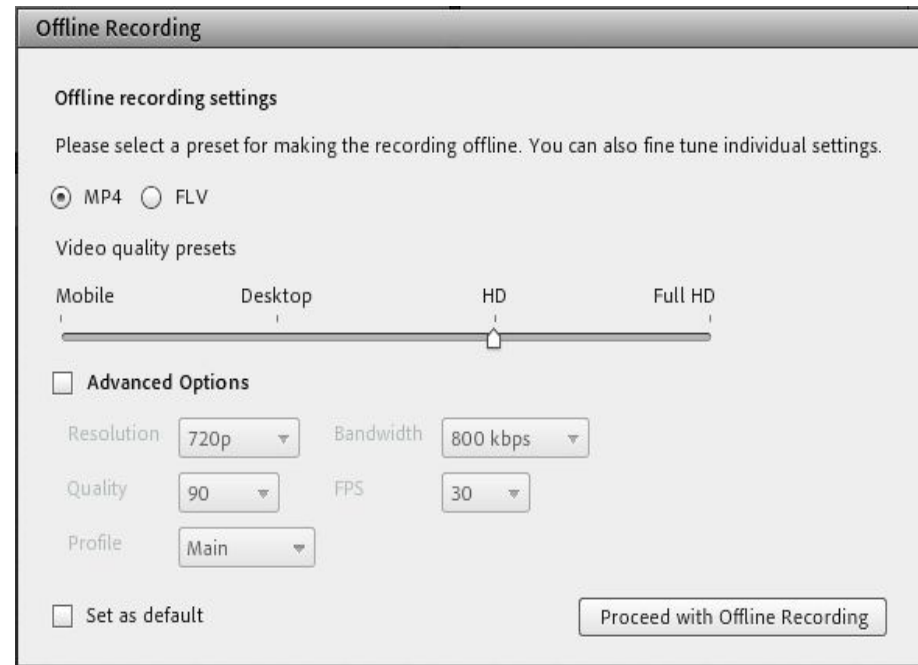


- The TTF is working with ICANN on how to export Adobe Connect recordings from Flash only recordings to formats like MP4.
- With [Adobe Connect 9.5](#), ICANN has the ability to save recordings in MP4 format using the Adobe Connect add-in on Staff's computers.
- At-Large Staff has created two recordings and uploaded to YouTube
  - [Technology Taskforce 08-04-2016](#)
  - [Capacity Building on PTI](#)



## Challenges noted:

- Staff have to download/playback the recording in real time to do the conversion of the adobe connect recording to MP4.
- On Macs, only one instance of Adobe Connect add-in can be launched at a time so staff cannot attend a meeting while creating an offline recording.
- High bandwidth need to stay connected to the Adobe Connect room to convert to MP4 and to upload the video to YouTube - Staff may not have enough bandwidth where they work and be able to do both regular duties and do the conversion.



(Credit : [Adobe](#))

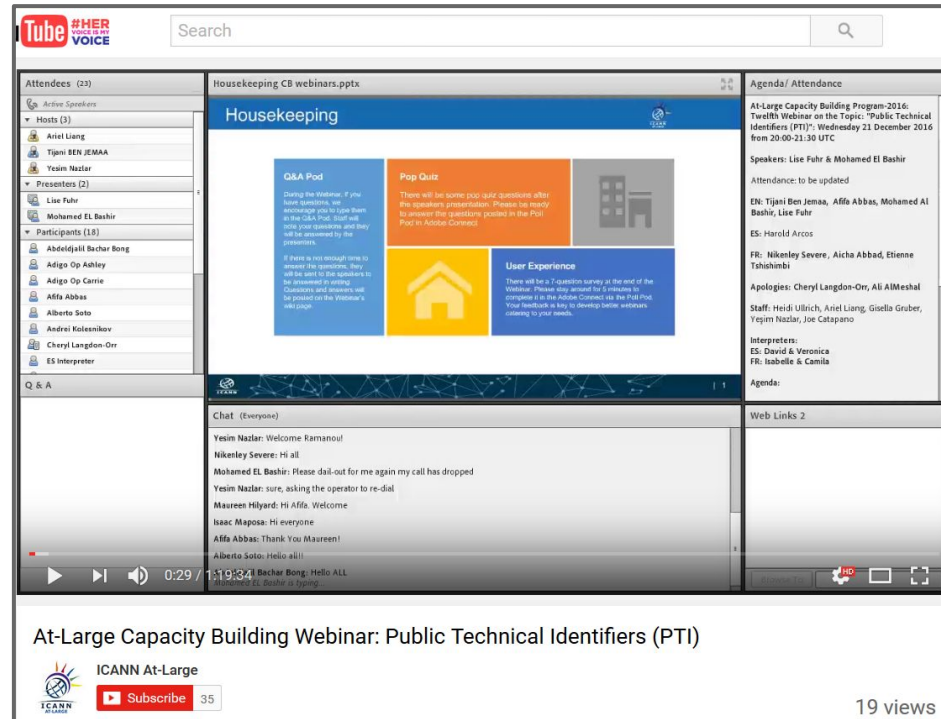
# Making Adobe Connect recordings accessible on mobile devices

We **need** to have the At-Large's Community meetings available on sites like YouTube.

## How to make this happen?

Suggested workaround:

- have At-Large staff remote control a Windows machine at a location such as an ICANN office (which should have sufficient bandwidth) to do the download/export to MP4 and uploading to YouTube, alleviating the need for staff's computers to be tied up doing the download/export.



The screenshot shows a YouTube video player interface. At the top, there's a search bar and a video player area. The video content is a recording of an Adobe Connect webinar. The main slide displayed is titled 'Housekeeping' and contains information about a Q&A Pod, a Pop Quiz, and a User Experience survey. To the left of the video, there's a list of attendees and presenters. Below the video, there's a chat window with messages from participants. At the bottom of the player, the video title 'At-Large Capacity Building Webinar: Public Technical Identifiers (PTI)' is visible, along with the ICANN At-Large logo, a 'Subscribe' button, and a view count of 19 views.

## Questions, Comments?

# Adobe Connect Connectivity challenges

- Since ICANN switched to the new vendor many users have complained about connectivity issues ranging from an inability to connect to poor audio quality, constant dropping or crashing of Adobe Connect.
- When screen sharing, the users screen tends to crash more frequently and also the tool bar, which includes the chat, queue, audio column, attendees' list, disappears when doing screen share.
- Mobile users cannot see when someone has shared their screen in Adobe Connect.
- Adobe can only display one audio channel, would be better if can have a separate audio feed.



# Discussion of Policy Tracking Proposal submitted by the Technology Taskforce

# Policy Tracking Proposal

The At-Large website has a [policy summary page](#) listing all of the correspondence issued by the ALAC (advice to the Board, and responses to public comments) since 2003 and allows for searches by Topic Keywords assigned to the correspondence.

English العربية Español Français Português Русский 中文

## Search Policy Advice

### Title Contains

Keywords



Reset

### Publish Date Range

Start Date

End Date

### Topic

Accountability/Transparency	50	<input type="checkbox"/>
Contracted Party Agreements	84	<input type="checkbox"/>
DNS	31	<input type="checkbox"/>
Engagement	75	<input type="checkbox"/>
IANA	15	<input type="checkbox"/>
ICANN Board/Bylaws	51	<input type="checkbox"/>
IDN	41	<input type="checkbox"/>

## Policy Advice

1 2 3 4 5 ... Next › Last »

Publish Date Title

In Progress [At-Large Review: Draft Report](#)

Topic(s): [Reviews/Improvements](#)

In Progress [ALAC Response to CCWG-Accountability Work Stream 2 SO/AC Accountability Subgroup Questions Regarding SO/AC Accountability](#)

Topic(s): [Accountability/Transparency](#)

In Progress [Input requested: SO/AC/SG/C Outreach - New gTLD Subsequent Procedures](#)

Topic(s): [New gTLDs](#)

In Progress [Creating a Consumer Agenda at ICANN](#)

Topic(s): [Public Interest](#)

20 Jan 2017 [Identifier Technology Health Indicators: Definition](#)

Topic(s): [Security/Stability](#)

Here's what can be found when details about an ALAC comment is sought

## ALAC Statement

### Follow-up on the Public Interest Commitment

Topic(s):  
[New gTLDs](#)  
[Public Interest](#)

Penholder(s):  
[Evan Leibovitch](#)

Publish Date:  
19 Nov 2014

### Status

1. Develop First Draft

Ended: 13 Nov 2014

2. Open for Comment

Ended: 13 Nov 2014

3. Finalize Final Draft

Ended: 13 Nov 2014

4. ALAC Vote

Ended: 18 Nov 2014

5. Submission

Submitted: 19 Nov 2014

**Submitted a Statement**

Submission due: 19 Nov 2014 23:59 UTC

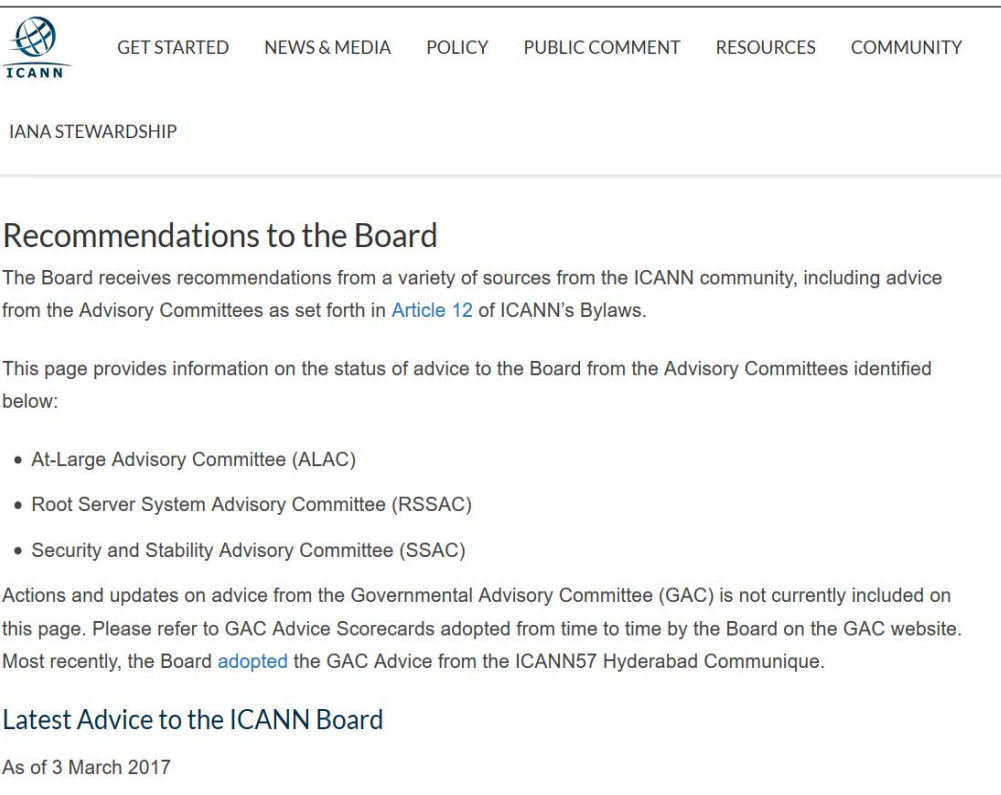
**Background**

## ALAC Statement



English 230 KB

**Download**



The screenshot shows the ICANN website navigation menu with links for GET STARTED, NEWS & MEDIA, POLICY, PUBLIC COMMENT, RESOURCES, and COMMUNITY. Below the menu is the IANA STEWARDSHIP section. The main content area is titled 'Recommendations to the Board' and contains the following text:

The Board receives recommendations from a variety of sources from the ICANN community, including advice from the Advisory Committees as set forth in [Article 12](#) of ICANN's Bylaws.

This page provides information on the status of advice to the Board from the Advisory Committees identified below:

- At-Large Advisory Committee (ALAC)
- Root Server System Advisory Committee (RSSAC)
- Security and Stability Advisory Committee (SSAC)

Actions and updates on advice from the Governmental Advisory Committee (GAC) is not currently included on this page. Please refer to GAC Advice Scorecards adopted from time to time by the Board on the GAC website. Most recently, the Board [adopted](#) the GAC Advice from the ICANN57 Hyderabad Communique.

**Latest Advice to the ICANN Board**  
As of 3 March 2017

## The limitations with the search function

- The ICANN Board responses to the advice submitted by the ALAC cannot be found as they are not linked to the database, but they exist here at <https://features.icann.org/board-advice>
- Staff responses to ALAC's inputs to ICANN public comments cannot be found as they are not linked to the database.
- The texts of the PDFs are not indexed, limiting the ability to search for persons who acted as penholders for the advice statements and looking for specific wording in the policy statements.

This proposal seeks to have ICANN allocate resources to design and build a system that will remove or significantly reduce these limitations by initially:

- Adding the ICANN Board responses and Staff Responses to the ALAC statements database on the At-Large website. This would be of benefit to At-Large and the public to show the impact of our work both within and outside of At-Large.
- Having the text inside the PDFs of our ALAC documents fully searchable. Additional data fields for each ALAC statement such as penholders can be added.

This would pave the way for a wider ranging phase 2 - a Policy Management Process System, by aligning databases to a common standard based on Open Data standards, interoperability and interactivity.

- At present, all coordination of databases (from the Board’s response to ALAC advice to RALO involvement and At-Large Structure input to policy) is done manually, resulting in a high workload on At-Large Staff and in inaccurate and sporadic updating of policy according to overall workload and key personnel.
- The ALAC has been repeatedly falsely accused of purposely not making information easy to find. Some commenters have seen a deeper, somehow more sombre goal of At-Large leadership to keep information hard to find (information hoarding) so as to remain in their elected seats, which is unfounded.

Whilst this proposed is a short term measure (phase 1 of a wider “Policy Management Process System”), ICANN needs to treat this in a holistic fashion.

The full proposal can be downloaded at <https://go.icann.org/2lJkKjf>

# Update on Captioning Program

# Update on Captioning Pilot Program



- [TTF also tested captioning](#) under the captioning pilot

**Attendees (17)**

Active Speakers

Hosts (7)

- Ariel Liang
- Dev Anand Teelucksingh
- Kelly - captionist
- Mike Brennan
- Nathalie Peregrine
- Silvia Vivanco
- Terri Agnew

Presenters (1)

- Glenn McKnight

Participants (0)

**Chat (Everyone)**

Alan Greenberg: Not on audio, but wanted to take a look at captioning.  
---- (04/18/2016 20:50) ----

Glenn McKnight: muted  
---- (04/18/2016 20:52) ----

Glenn McKnight: ICANN has a ticketing system  
---- (04/18/2016 20:54) ----

Glenn McKnight: PLEASE add it as an action item  
---- (04/18/2016 20:57) ----

Alan Greenberg: I came in part way through the discussion on multiple languages. Is the AI on handling OTHER languages (which I thought was possible) or handling multiple languages?

Terri Agnew is typing...

**Share - Ariel Liang**

Adobe Connect

Status of Issue	Updated	Description of Issue	Solution / Workarounds
In Progress	11 December 2015	the ability to export Adobe Connect recordings from Flash only recordings to format the MP4 which can be edited and put on video sharing websites for easier reviewing and accessible for At-Large community	<ul style="list-style-type: none"><li>There is a way for an end user to download a Adobe Connect recording locally by adding the following to the end of the URL for the Adobe Connect recording you wish to save: /asplutiffname.zip?download=zip</li><li>However the ZIP file contains a lot of FLV and XML files. So putting together a sequence of FLVs and converting to MP4 appears to be challenging</li><li>With Adobe Connect 5.5, admins have the ability to save recordings in MP4 format - see <a href="http://helpx.adobe.com/flashconnect/2015/09/producing-adobe-connect-4-5-5.html">http://helpx.adobe.com/flashconnect/2015/09/producing-adobe-connect-4-5-5.html</a> and <a href="http://helpx.adobe.com/flashconnect/using/recording-playing-back-meetings.html">http://helpx.adobe.com/flashconnect/using/recording-playing-back-meetings.html</a> but still requires admin to playback the recording in real time to do the conversion of the adobe connect recording to MP4</li><li>another approach is for a user to use screen recording software to record the session in real time.</li></ul>
In Progress	13 December 2015	LACRALD mailing list issues - see discussion of LACRALD mailing list issues	<ul style="list-style-type: none"><li>Filed a budget request to the At-Large FBSC for ICANN to finance the hiring of a programmer to assist the volunteer ICANN staff member to fix outstanding bugs - see At-Large FY17 Budget Development Workspace, this was approved by the At-Large FBSC and filed with ICANN.</li><li>Call for volunteers to help test the latest version of the translation engine - several persons have joined and several new bugs identified at discussion of LACRALD mailing list issues page</li></ul>
		(submitted by @Satish Babu) - the doc-out quality for most conference calls are quite poor and practically unusable for 60-70% of the time. The device used at my end is	<ul style="list-style-type: none"><li>Nathalie Peregrine: to schedule test calls with Adigo and Satish</li></ul>

**ICANN Scribe Pod**

Transcript

Save Help Auto-Scroll

White (B) 12 pt Tahoma

Comments List

of prying to get Adobe over to a hosted blast form outside of Adobe meaning either a third party actually hosts the application for us which allows us then to have a lot more control. When we're at ICANN meetings sometimes we have outages cause Adobe corporate is making updates to servers which

**Agenda & Participants**

**At-Large Technology Taskforce meeting**  
18 April 2016 at 15:00 UTC

**Participants:**

Alfredo Calderon, Gordon Chillcott, Olivier Crepin-Leblond, Harold Arcos, Jimmy Schulz, Judith Hellerstein, Dev Anand Teelucksingh, Glenn McKnight, Alan Greenberg

**Apologies:** Satish Babu

**Staff:** Silvia Vivanco, Ariel Liang, Mike

**Action Items**

At-Large Technology Taskforce meeting  
18 April 2016 at 15:00 UTC

AI: Dev/Glenn/Judith to review the CCWG Principle of Framework Paper and decide on the next step in terms of

**Web Links**

- At-Large Website
- At-Large Technology Workspace
- Post ATLAS II Implementation
- At-Large Technology Issues

Browse To





# Update on Captioning Pilot Program

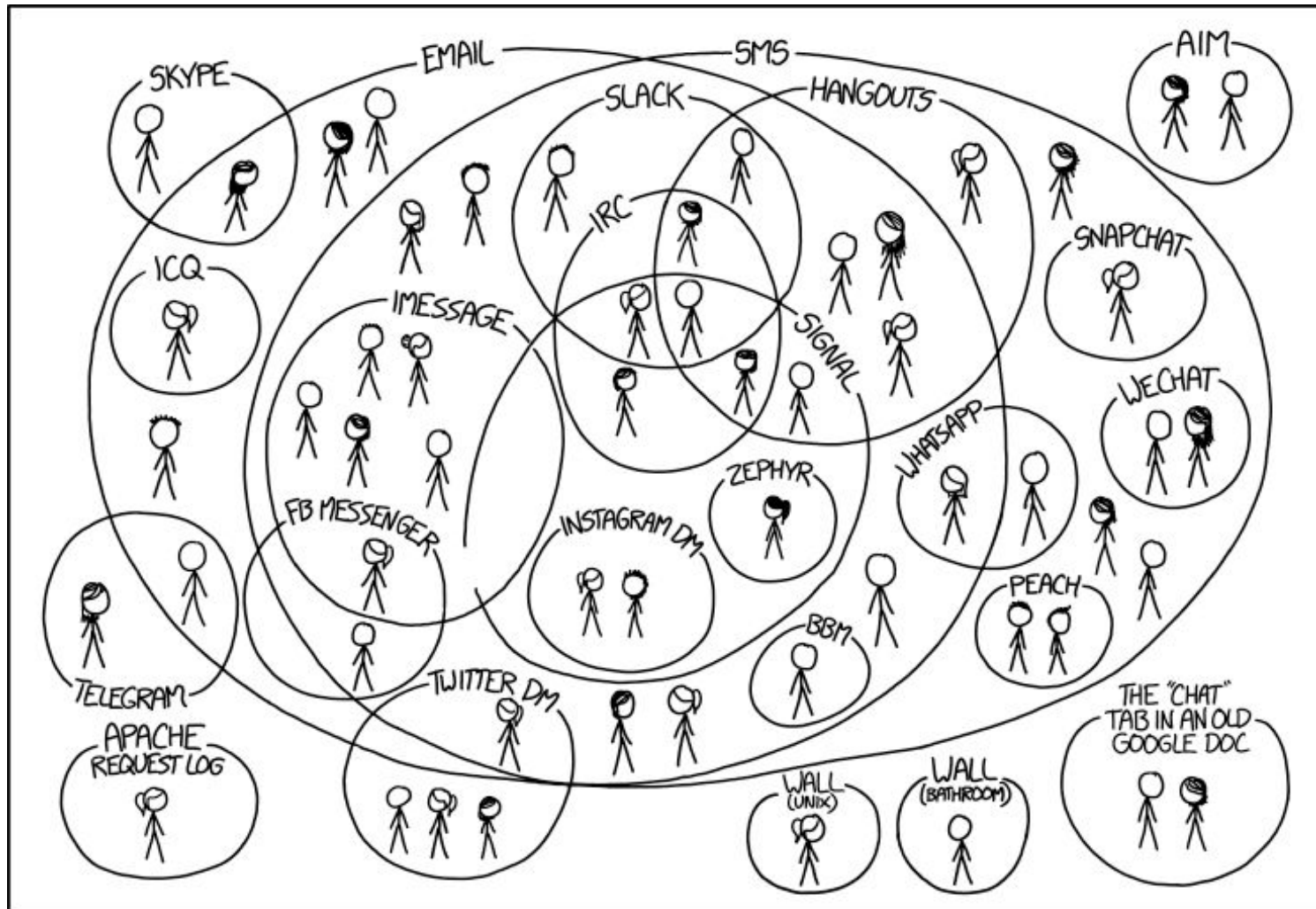
- TTF's Co-Chair has completed two full rounds of the captioning pilot for FY'16 and FY'17 and has tested English, French, and Spanish Captions in different working groups, capacity building webinars, RALO, ALAC calls as well as Work Stream 2 Diversity.
- The metrics obtained from the second phase of the captioning pilot clearly indicates strong support for captioning.
  - More than 91% described captioning as either extremely helpful or helpful.
  - More than 75% indicated the ability to understand the session more effectively
  - More than 54% had a greater understanding of the topics
  - Participants were enthusiastic and wanted captioning on working group and CCWG calls while 50% of WS Diversity participants wanted captioning on all calls.

# Update on Captioning Pilot Program

- A third pilot has been submitted for FY 18 for captioning of 30 calls over a 6 month period with at least one call each month in both French and Spanish.
- Goran Marby indicated Tuesday, March 14 that it is very likely that Captioning will be funded for all conference calls in the FY 18 budget. It is unclear yet what this means and what number of calls in all constituencies will be captioned.

# How At-Large Should Use Group Chat Applications (Slack, Hipchat, Mattermost, Rocket.chat)

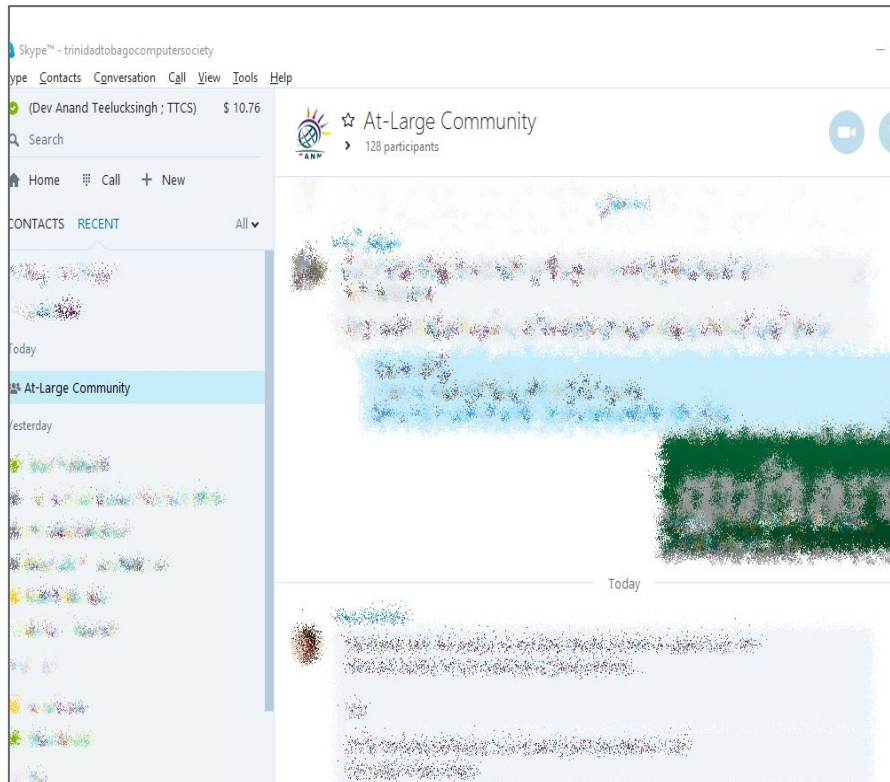
# How At-Large should use Group chat?



I HAVE A HARD TIME KEEPING TRACK OF WHICH CONTACTS USE WHICH CHAT SYSTEMS.

Credit : XKCD <https://xkcd.com/>

# How At-Large should use Group chat?

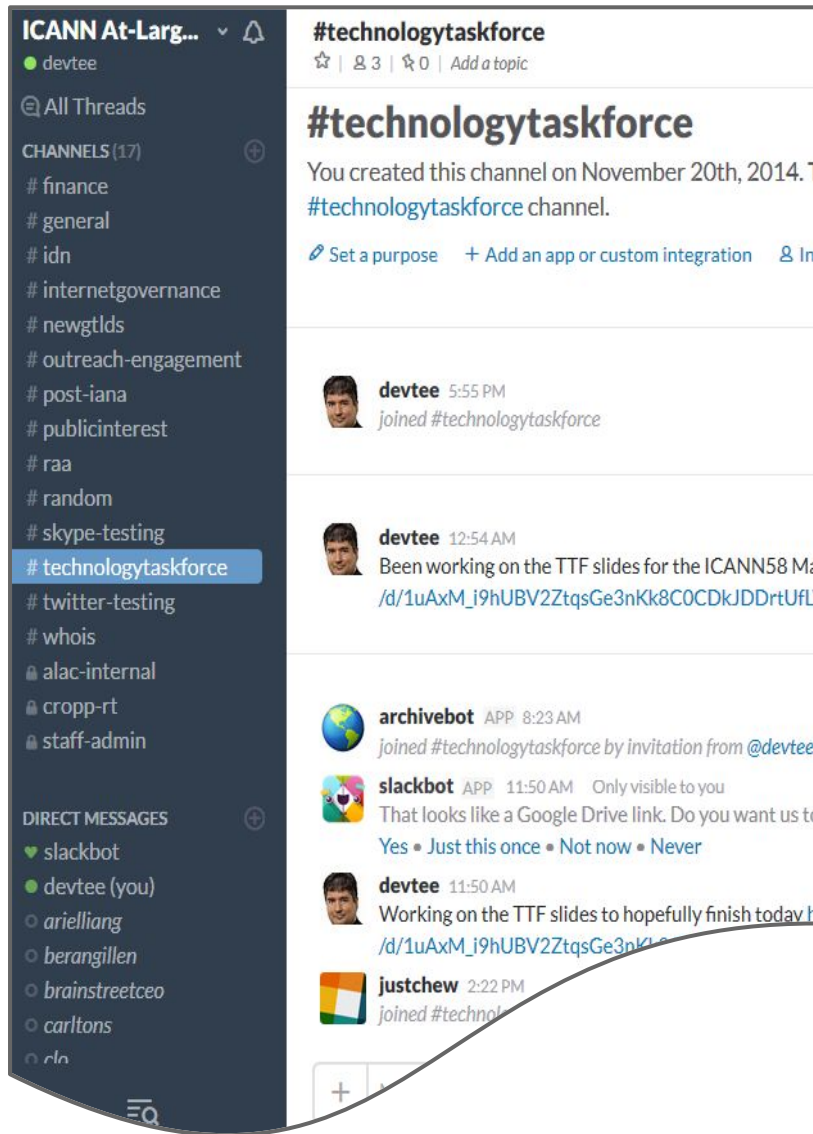


At-Large uses Skype for chat/instant messaging.

Some of the disadvantages with using Skype:

- chat history is not preserved. A number of At-Large discussions over the years have been lost as persons upgrade their machines.
- conversations on various topics happens in one group so as multiple persons chime in at different times, potential conversations on a particular topic/issue are lost in the one stream.
- no ability to search messages across all skype groups - one has to remember what skype group a message was in to find it.

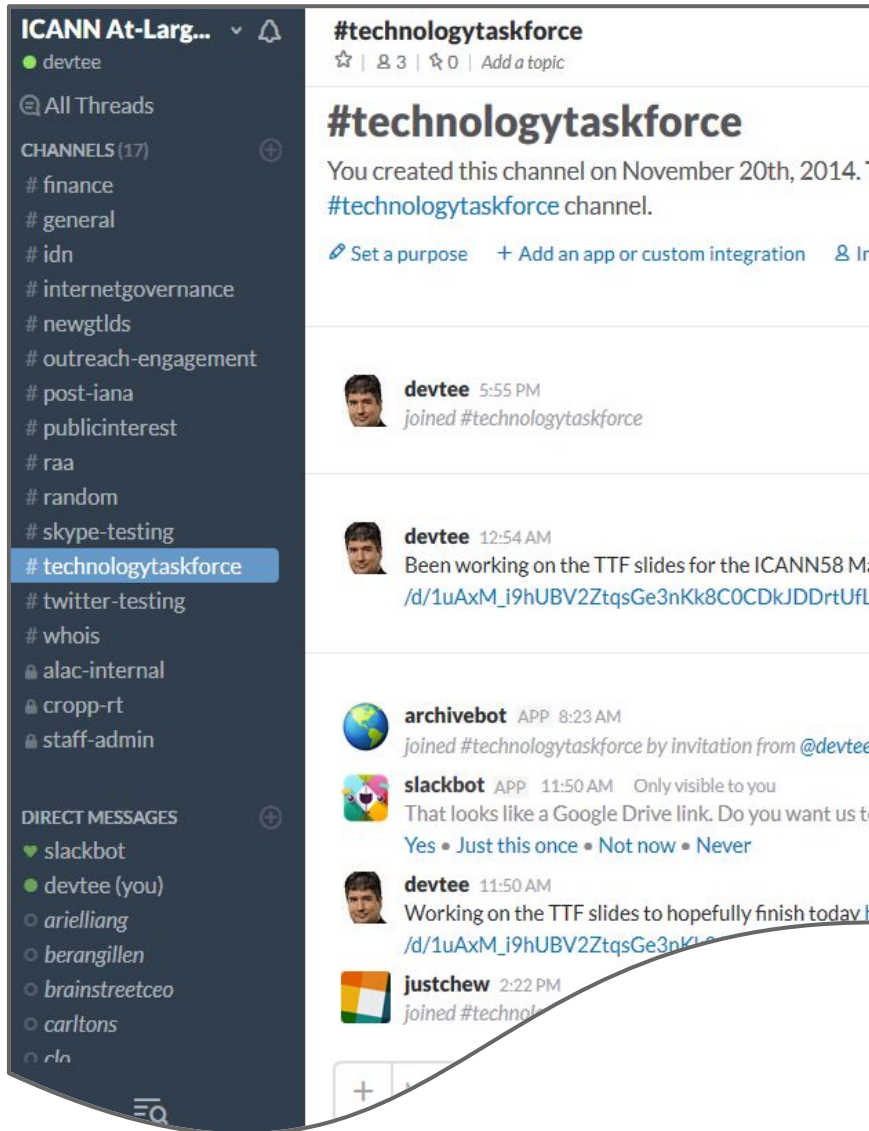
# Features of Group Chat



[Slack](#), [Mattermost](#), [Rocket.chat](#), [HipChat](#) all share common features:

- creating public rooms or channels for groups and/or topics
- creating private groups not visible to persons outside of such groups
- mobile apps to get push notifications and to respond to messages via mobile more effectively
- ability to search across your channels and rooms
- can be administered by staff to create, archive, delete rooms/channels
- staff/admins have more control to add, remove, and invite persons
- allows for extensions/integrations so that different services can be integrated (eg Twitter)

# Benefits of Group Chat



Group Chat ([Slack](#), [Mattermost](#), [Rocket.chat](#), [HipChat](#)) offers significant benefits over Skype

- At-large community members can be added by Staff and added to channels of their particular interest and/or group.
- potential for discussions on topics they are interested in, reducing email clutter and increasing participation.
- ability to find messages and conversations of interest to them.

- The TTF first tested and used Slack before the ICANN50 meeting in 2014 for the At-Large Summit II, to assist with the At-Large Social Media. Channels were created for each of the Thematic Groups, and Staff used to coordinate with Social Media volunteers to send pictures and information from the Thematic Groups sessions for resharing on At-Large's social media.
- We looked at [Hipchat](#) and [Hall](#) in 4Q 2014 (which was acquired by Hipchat in 2015).
- The TTF has had a demo of Rocket.chat by [James Gannon](#) from the NCUC at the ICANN56 Helsinki meeting and a followup demo on the [2016-09-19 At-Large Technology Taskforce Call](#)



# TTF activities re: Group Chat

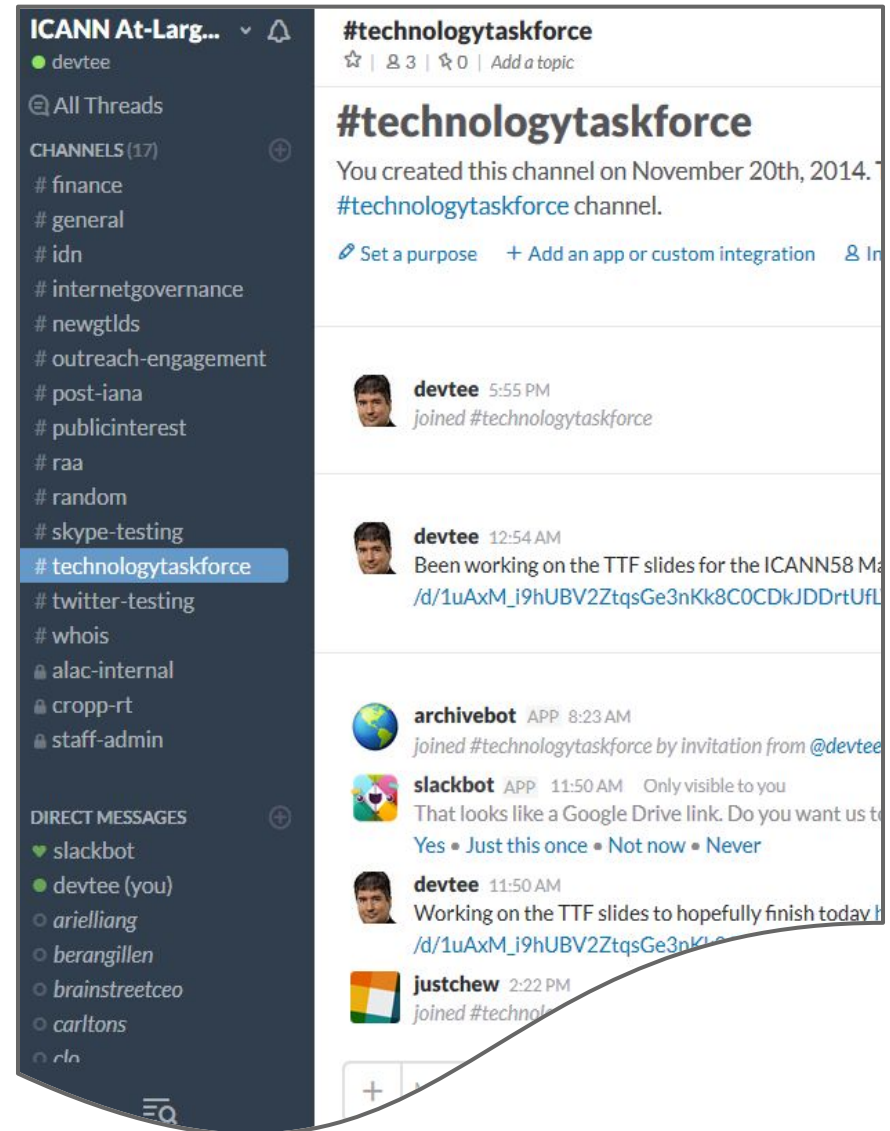
- The TTF tested [Samerroom.io](https://samerroom.io) which bridges different chat systems so that messages from one chat system can appear on another chat system (e.g Skype to Slack)
- The TTF tested [Mattermost](https://mattermost.com), in February 2017 thanks to Niran Beharry installing Mattermost and making it available to the TTF for using.

# What approach to use?

From these experiences, one approach the TTF has investigated is for the At-Large Community to use the free tier Slack version that we have at <https://icannatlarge.slack.com/>

The key reasons why:

- It is very unlikely that ICANN will offer support (server resources, tech support) in the short term to deploy a self hosted solution like Mattermost or Rocket.chat for ICANN At-Large Community.

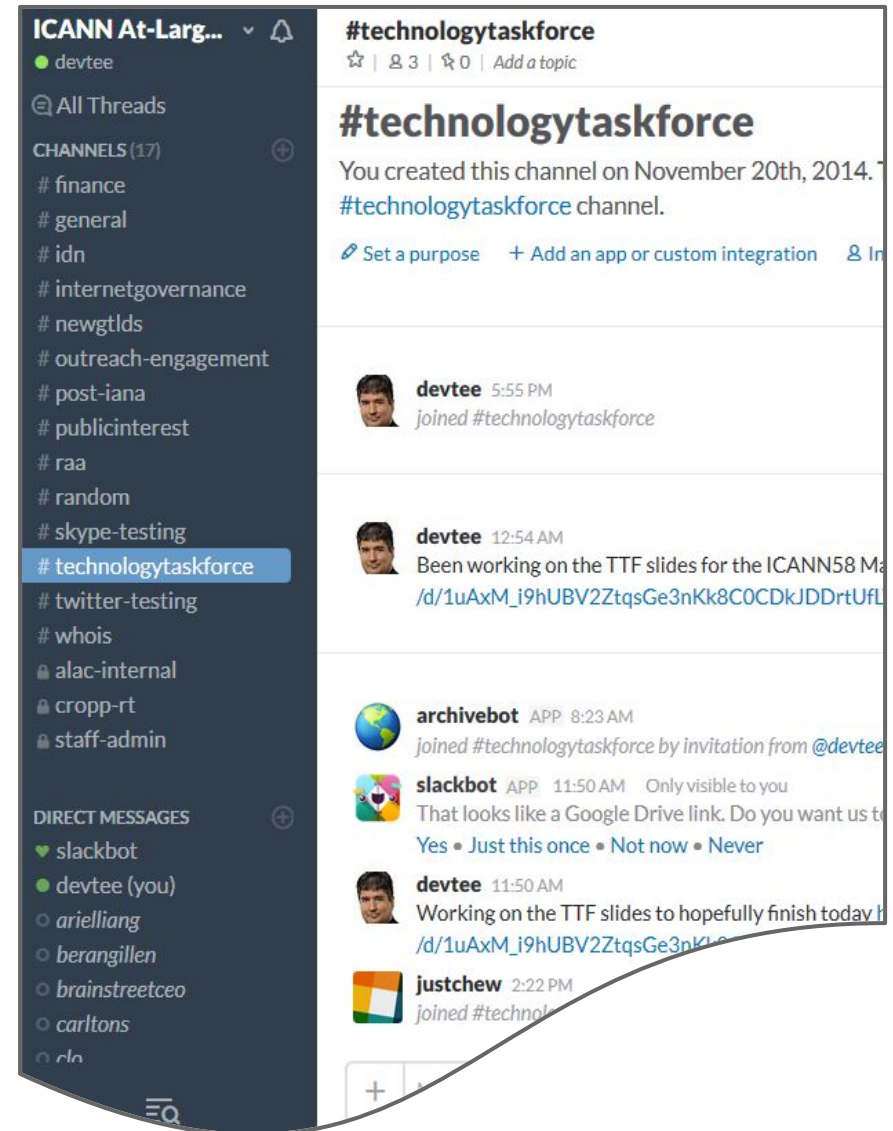


# Key reasons for using Slack free tier (continued)

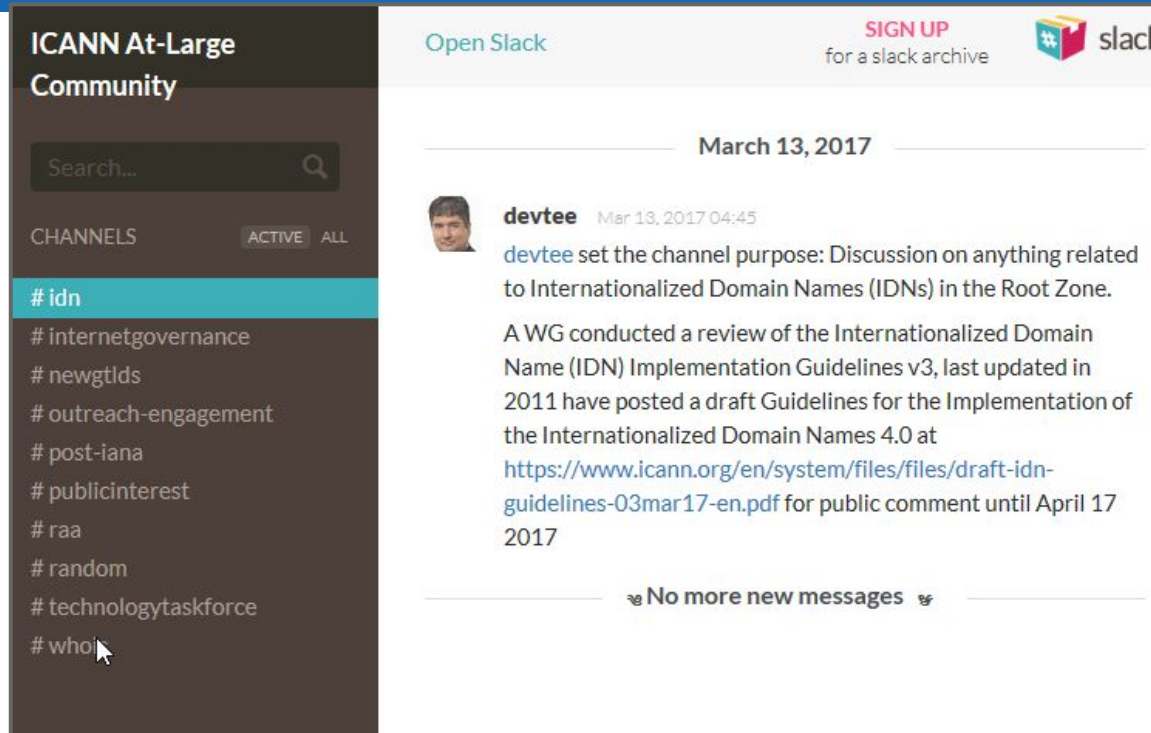
- The challenge of a volunteer to deploy an open source solution for a large number of users using their resources without payment and support it to configure or fix things is too much and runs the risk of a volunteer unable to fulfil such a task after valiantly starting and the self hosted version goes down.
- ICANN may be considering group chat solutions longer term but given Slack export capabilities, The At-Large Chat can be exported to a future chat solution.
- from an end user perspective, Slack works. It has the key features we want in group chat - threaded conversations, mobile apps, ability to create public channels, private rooms, and direct messages, search across channels.

# What approach to use?

- The free tier offers 10 integrations - the TTF has installed several integrations in Slack
  - Twitter notifications to Slack channel
  - Have Voice/Video chat with Skype
  - Google Calendar to send notifications from the At-Large Calendar
  - Translate tool for persons to translate text inside of Slack



# What approach to use?



- The TTF also installed a bot to create a public facing website of the Slack chats at <http://icannatlarge.slackarchive.io/> . So our chats can be linked from a wiki or At-Large website to specific channels like <http://icannatlarge.slackarchive.io/idn/>
- The chats can be exported from Slack by Staff on a regular basis as a backup.

## Questions, Comments?

# What's Your Technology Issue?

## What is a Technology Issue in your RALO?

## What is a Technology Issue in your At-Large Structure?

TTF work and Projects can be found at <http://bitly.com/TTF-work>

The TTF wiki page : <http://bitly.com/Technology-Taskforce>

To join the TTF, email At-Large Staff at [staff@atlarge.icann.org](mailto:staff@atlarge.icann.org)