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منظمة الطيران
المدني الدولي

国际民用
航空组织

Ref.: T 8/10.21 – AP040/22 (CNS)

24 February 2022

Subject: Seventh Meeting of the Surveillance
Implementation Coordination Group (SURICG/7)
(*Video Teleconference: 24 – 27 May 2022*)

Action required: To register and submit papers **before 10 May 2022**

Dear Sir/Madam,

I wish to invite your State/Administration to the *Seventh Meeting of the Surveillance Implementation Coordination Group (SURICG/7)* to be held via video teleconference from *24 to 27 May 2022*.

The SURICG/7 meeting will progress tasks resulted from its Sixth Meeting and review the outcomes of the Fifth Meeting of Mode S Downlinked Aircraft Parameters Working Group (Mode S DAPs WG/5) and the Second Meeting of the Surveillance Study Group (SURSG/2). It will review the preliminary outcome of the survey on APAC Surveillance and DCPC Coverage, the implementation and co-ordination activities and sub-regional implementation plans, report on surveillance ground system and avionics performance monitoring and improvement in compliance as well as the potential cooperation opportunities with ICAO Surveillance Panel and industry stakeholders. The meeting will also review the Regional Surveillance Strategy for the APAC Region which is provided in **Attachment A** for your easy reference.

States/Administrations are requested to nominate suitably qualified participant(s) with operational and technical background to participate in the meeting. The provisional agenda of SURICG/7 meeting is provided in **Attachment B** to this letter. I would appreciate if your nominated expert(s) would review the provisional agenda items and prepare presentations, Working Papers, and/or Information Papers containing inputs relevant to the proposed agenda for the Meeting in Word/PowerPoint format by sending them to this Office by email at APAC@icao.int with cc: yluo@icao.int and SHow@icao.int at your earliest convenience, preferably **by 10 May 2022**.

The Video Teleconference Bulletin containing information on the procedures for participating in the teleconference, administrative arrangements, and some instructions/guidelines for using the Microsoft Teams is in **Attachment C** to this letter. All registered participants will receive an email directly from the Secretariat with an invitation link to join the meeting.

2/...

I shall be grateful if you would take advantage of the aforementioned video teleconference and nominate participant(s) to join the meeting by completing the online registration using <https://www.icao.int/APAC/Meetings/Pages/2022-SURICG-7.aspx>. Alternatively, participant may complete the form provided at **Attachment D** to this letter and send to this Office by e-mail at APAC@icao.int with with copies to: YLuo@icao.int; SHow@icao.int at your earliest convenience, preferably **before 10 May 2022**.

Yours sincerely,

A handwritten signature in black ink, consisting of stylized Chinese characters, likely '马涛' (Ma Tao).

Tao Ma
Regional Director

Enclosures:

- Attachment A – Regional Surveillance Strategy for the APAC Region
- Attachment B – Provisional Agenda
- Attachment C – Video Teleconference Bulletin
- Attachment D – Registration Form

REVISED SURVEILLANCE STRATEGY FOR THE APAC REGION

Considering that:

1. States are implementing CNS/ATM systems to gain safety, efficiency and environmental benefits, and have endorsed the move toward satellite and data link technologies;
2. The future air traffic environment will require increased use of aircraft-derived surveillance information for the implementation of a seamless automated air traffic flow management system;
3. The 11th Air Navigation Conference endorsed the use of ADS-B as an enabler of the global air traffic management concept and encouraged States to support cost-effective early implementation of ADS-B applications;
4. The 12th Air Navigation Conference endorsed the ICAO Aviation System Block Upgrades (ASBU) Framework with Modules specifying effective use of ADS-B/MLAT and associated communication technologies in bridging surveillance gaps and its role in supporting future trajectory-based ATM operating concepts. Cooperation between States is the key to achieve harmonized ATM system operations;
5. The 13th Air Navigation Conference endorsed the multilayer structure for the GANP, the ASBU and initial version of basic building block (BBB) frameworks and its change management process, which are available in an interactive format as part of the web-based GANP Portal. This allows ICAO to incorporate a flexible framework for new/emerging surveillance-related concepts such as space based ADS-B into future editions of the GANP;
6. APANPIRG has decided to use the 1090MHz Extended Squitter data link for ADS-B air-ground and air-air applications in the Asia/Pacific Region;
7. Use of surveillance systems that do not require GNSS will continue to meet many critical surveillance needs for the foreseeable future;
8. SARPs, PANS and guidance material for the use of ADS-B have been developed;
9. Availability of new technologies, such as space based ADS-B which is now operationally used by some States;
10. Mode S and ADS-B avionics (including DAPs) and processing systems are available;
11. ADS-B IN applications and equipment are now available in commercial airliners and ICAO ASBUs include ADS-B IN applications;
12. There are continuing significant pressures on the radio spectrum for purposes outside aviation, particularly in the primary radar spectrum; and
13. ADS-B security issues are addressed by the regional guidance material and may need to be further considered in the future.

THE SURVEILLANCE STRATEGY FOR THE ASIA/PACIFIC REGION IS TO:

1. Minimize the reliance upon pilot position reporting, particularly voice position reporting, for surveillance of aircraft;
2. Maximize the use of ADS-B on major air routes and in terminal areas, giving consideration to the mandatory carriage of ADS-B Out as specified in Note 1 and use of ADS-B for ATC separation service;
3. Reduce the dependence on Primary Radar for area surveillance, consider the ongoing need for primary radars in terminal areas with a view to reducing primary surveillance coverage or use of phased array radar or other technologies with coverage focusing on areas of concern, and the potential use of alternate technologies or procedures (e.g. transponder veil regulations);
4. Encourage deployment of Mode S systems instead of Mode A/C only radars when replacement is required;
5. Provide maximum contiguous ATS surveillance coverage of air routes using 1090MHz Extended Squitter (1090ES) ADS-B, Wide Area Multilateration and Mode S SSR to meet operational requirements;
6. Make full use of aircraft Mode S capabilities, where suitable surveillance systems and ATM automation systems are available, to reduce reliance on 4-digit octal codes. Mode S capabilities such as DAPs should also be used to support ATM services where appropriate;
7. Make use of alternative technologies where technical constraint or comparative cost benefit analysis does not support the use of ADS-B, SSR or Multilateration;
8. Make use of Multilateration and/or ADS-B for surface, terminal and area surveillance where appropriate, feasible and cost effective;
9. Monitor ADS-B OUT developments such as Version 3 (DO-260C) MOPS development, and Version 2 (DO260B) equipage in the APAC region. At an appropriate time (circa 2020) APAC States should review progress and consider development of transition plans where cost/benefit studies indicate positive advantages for the region;
10. Monitor ADS-B IN development and cost benefits to ensure that APAC States are able to take advantage of ADS-B IN benefits when appropriate, through procedures, rules and ATC automation capabilities;
11. To the extent possible, implement ADS-B in the non-radar environment as a priority. In the radar or other surveillance environment, use ADS-B to supplement or replace existing surveillance coverage, subject to local factors and risk assessment;
12. Make use of surveillance capability to support the GADSS as appropriate;
13. Implementation of surveillance capability should also include consideration of contingency surveillance requirements; ~~and~~
14. Monitor development of surveillance systems to support integration of UAS including new technology capable to detect non cooperative targets such as UAS.

15. Encourage sharing of surveillance data to improve safety and efficiency in air traffic management; and
16. Monitor potential congestion on 1090 MHz and availability of 24-bit aircraft address due to operation of UAS, or other emerging aircraft types.

Note 1:

- a) *Version 0 ES as specified in Annex 10, Volume IV, Chapter 3, Paragraph 3.1.2.8.6 (up to and including Amendment 82 to Annex 10) and Chapter 2 of Technical Provisions for Mode S Services and Extended Squitter (ICAO Doc 9871) (Equivalent to DO260) to be used till at least 2020.*
- b) *Version 1 ES as specified in Chapter 3 of Technical Provisions for Mode S Services and Extended Squitter (ICAO Doc 9871) (Equivalent to DO260A);*
- c) *Version 2 ES as specified in Chapter 4 of Technical Provisions for Mode S Services and Extended Squitter (ICAO Doc 9871) (Equivalent to DO260B).*
- d) *States/Administrations in APAC region are strongly encouraged to mandate aircraft with a maximum take-off mass exceeding 5 700 kg or having a maximum cruising true airspeed capability greater than 250 knots, to be equipped with ADS-B OUT avionics compliant with Version 2 ES (DO-260B) or later version with date of manufacture on or after 1 January 2020.*



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**Seventh Meeting of the Surveillance Implementation
Coordination Group (SURICG/7)**

Video Teleconference, 24 - 27 May 2022

PROVISIONAL AGENDA

- Agenda Item 1: Adoption of Agenda
- Agenda Item 2: Review of outcomes of relevant meetings on Surveillance
- Agenda Item 3: Review Report of DAPs WG/5 Meeting
- Agenda Item 4: Review Report of SURSG/2 Meeting
- Agenda Item 5: Review of regional requirements for Surveillance in the e-ANP, Seamless ANS Plan and the reported implementation status
- a) Preliminary outcome for survey on APAC Surveillance and DCPC Coverage
- Agenda Item 6: Review implementation and co-ordination activities and sub-regional implementation plans
- a) Progress on ADS-B planning and implementation – Bay of Bengal
 - b) Progress on ADS-B planning and implementation – South East Asia
 - c) Updates by other States
 - d) Discuss progress on data sharing projects among States
- Agenda Item 7: Report on surveillance ground system and avionics performance monitoring and improvement in compliance
- Agenda Item 8: Update on surveillance activities and explore potential cooperation opportunity
- a) States/Administrations
 - b) Updates from ICAO Surveillance Panel, Standards Making Organization
 - c) Aircraft Manufacturers and Avionics Suppliers
- Agenda Item 9: Review of the Terms of Reference (ToR), Regional Surveillance Strategy and the Action Items from SURICG/6 Meeting
- Agenda Item 10: Review ADS-B Implementation and Operations Guidance Document (AIGD)
- Agenda Item 11: Next meeting & any other business
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International Civil Aviation Organization



ICAO

**Seventh Meeting of the Surveillance Implementation
Coordination Group (SURICG/7)**

Video Teleconference, 24 – 27 May 2022

VIDEO TELCONFERENCE BULLETIN

1. Schedule of the Meeting

1.1. The meeting (video teleconference) will commence at **0900 hrs. ICT (UTC +7) on Tuesday, 24 May 2022.**

1.2. The discussion sessions (on the agenda items) are **tentatively proposed from 0900 to 1300 hrs. ICT (UTC +7) on Tuesday to Friday, 24 – 27 May 2022.**

1.3. The tentative programme is subject to change, and the daily programme of the meeting, including coffee break or lunch break, will be proposed and monitored by the chairperson, as appropriate. It will be available on the meeting webpage for updating information.

2. Officers and Secretariat concerned with the Meeting

2.1. Secretaries of the meeting:

Mr. Luo Yi, Regional Officer CNS

Tel: +66 (2) 537 8189 Ext. 158

Fax: +66 (2) 537 8199

E-mail: ylo@icao.int

Mr. Sze Lung How, Regional Officer CNS

Tel: +66 (2) 537 8189

Fax: +66 (2) 537 8199

E-mail: show@icao.int

3. Registration of participants

3.1 Registration for the SURICG/7 can be done online. The nominated participant (s) from State/Administration are requested to access <https://www.icao.int/APAC/Meetings/Pages/2022-SURICG-7.aspx> and register for the event by using guideline for online registration as provided in the **Annex 1** to this attachment. Kindly noted that the last day of registration is **Tuesday, 10 May 2022 and only the registered participant (s) are entitled to receive meeting invitation link to join the meeting.**

4. Meeting materials

4.1. The Secretariat will make the Meeting materials (i.e., documentation, papers, templates, instructions, etc.) available in electronic format prior to the Meeting (video teleconference)

on the ICAO APAC Office website at: <https://www.icao.int/APAC/Meetings/Pages/2022-SURICG-7.aspx>.

4.2. Each participant should review all working papers and supporting information papers prior to the commencement of the Meeting (video teleconference) discussion sessions.

4.3. Participants wishing to submit papers for consideration by the Meeting must do so, via e-mail to the ICAO APAC Office at: apac@icao.int, as early as possible and in any case **no later than Tuesday, 10 May 2022**.

5. Joining the Meeting (video teleconference)

5.1. When joining the Meeting (video teleconference) sessions, please ensure your **microphone is muted** and **video is turned off**.

5.2. Each participant should ensure that their video teleconference display name reflects their respective State or Organization first, followed by their participant name, e.g., “**ICAO – Yi LUO**”, “**Australia – name**”, **Bangladesh – name** etc.

5.3 Each registered participant will receive by e-mail from the Secretariat with the “*Join meeting*” link and appropriate instructions about one week before the Meeting (video teleconference) sessions.

5.4 Participants should join the Meeting (video teleconference) sessions approx. 10- to 15-minutes prior to the scheduled start of each session.

6 Participants’ working environment

6.1 Each participant should ensure they join the meeting (video teleconference) from a location with minimal, or preferably no, background noise.

6.2 To minimize the potential for audio-feedback to hinder the discussions, each participant should join the meeting (video teleconference) using a separate computer/device in a separate room/office. If sharing a single computer/device to join the video teleconference with fellow participant/s, please ensure that only one computer/device per room/office has its microphone unmuted and audio speaker on at any one time.

7 During the video teleconference

7.1 Participants who wish to address a question, answer or comment to the Meeting should please inform the Chair, Secretary or moderator of the discussion by using the video teleconference interface to **Raise your hand** or send a “CHAT” message, e.g. “*Thailand wishes to speak*”, or “*Thailand question*”, etc.

7.2 Participants who wish to address a message only to a specific member of the Meeting, e.g., to the Chair or Secretary (or another participant), should use the video teleconference interface to send a private CHAT message if supported by the application. **CAUTION:** When sending a private CHAT message, please exercise care and **avoid inadvertently sending a private CHAT message to “EVERYONE”**.

7.3 Additional information and instructions concerning the video teleconference tools and applications, will be provided separately at the meeting website.

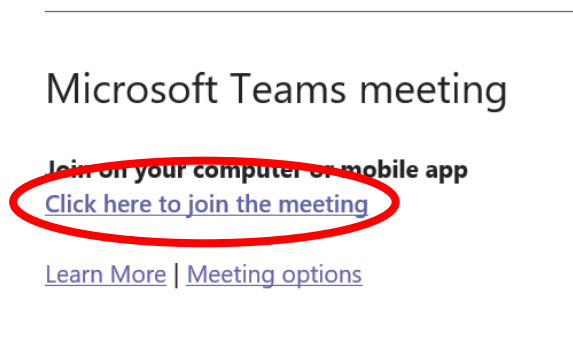
7.4 Participants should only unmute their microphone and turn on their video when invited to speak by the Chair, Secretary or moderator of the discussion. Please always remember to mute your microphone when finish speaking.

7.5 The Chair and/or Secretary will manage the presentation of meeting material during the video teleconference, unless specifically arranged. Speakers should clearly identify to the meeting the relevant paper, presentation or other meeting material they are speaking to, as well as the specific paragraphs, pages and slides, as appropriate.

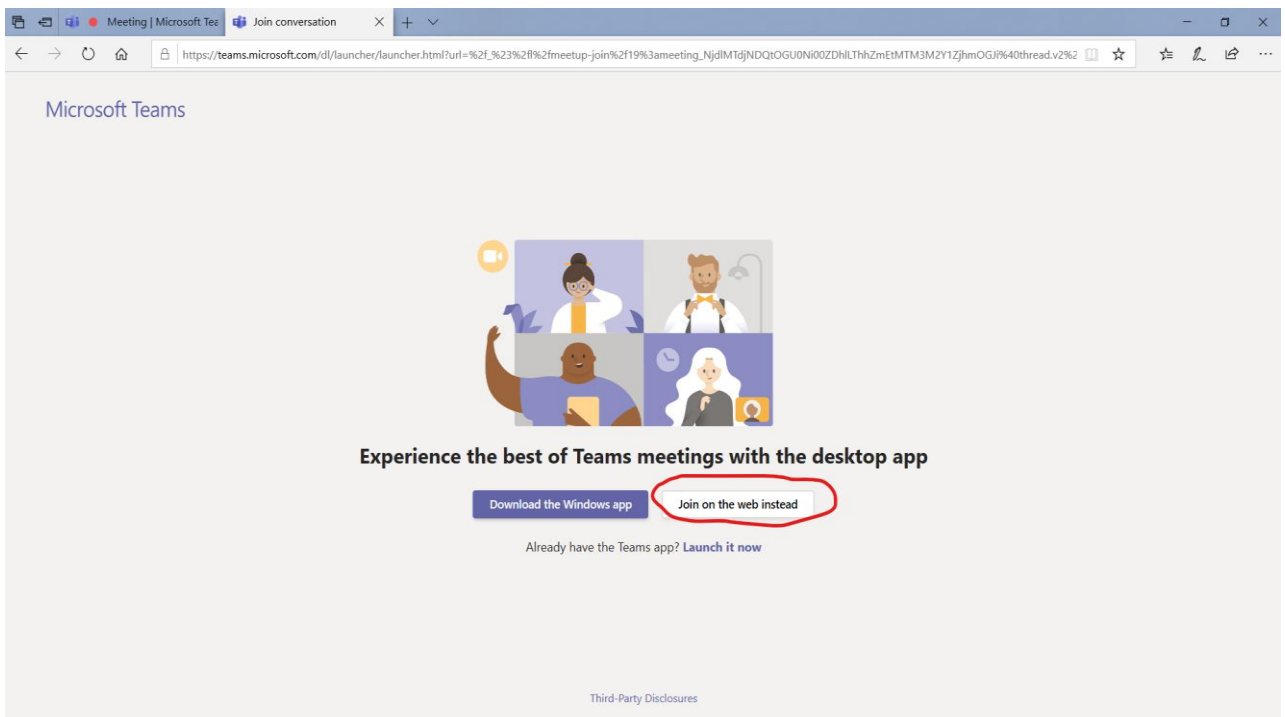
8. External User Access Guide for using Microsoft Teams

To access the meeting as an external user, follow the steps below.

8.1 Find the email inviting you to the online meeting, or you can check on your Outlook calendar. Click the "Join Microsoft Teams Meeting" button.

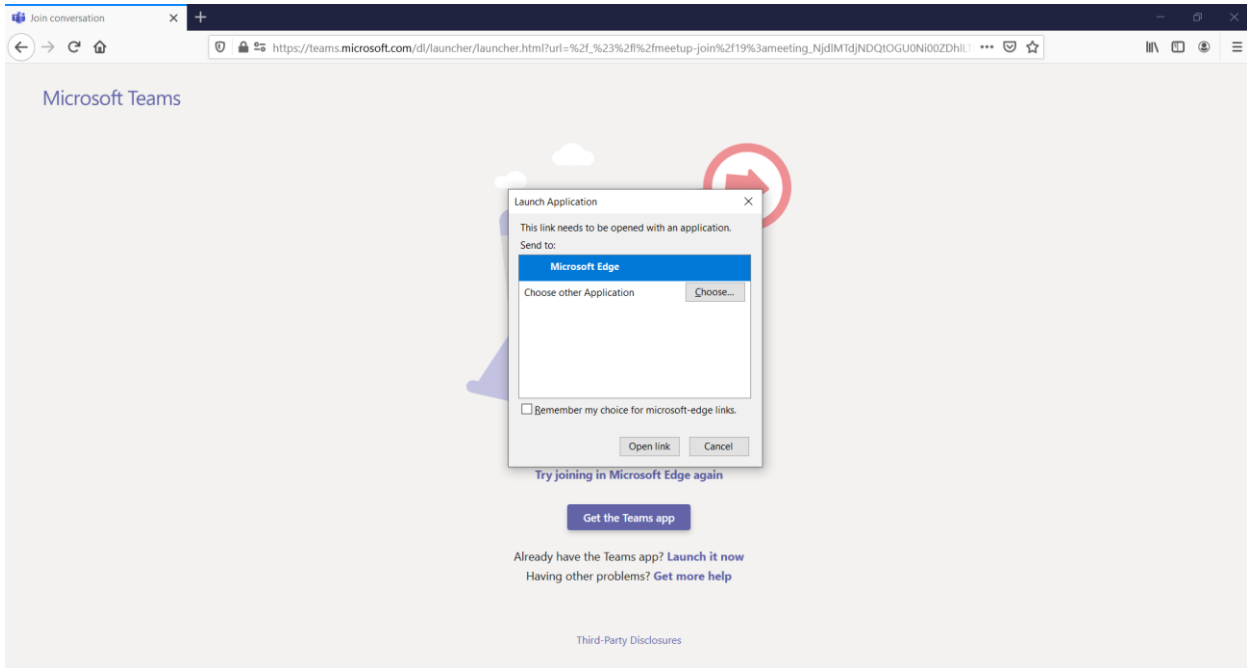


8.2 The link in the email will open the default browser on your computer. If you have the Teams application installed, you may use the "Launch it now" button. Otherwise, click the "**Join on the web instead**", and enter your STATE or IO name first, followed by your full name (as used on the registration form) in the Enter name box. Example: ICAO Owora, Philip. Then, click join now.

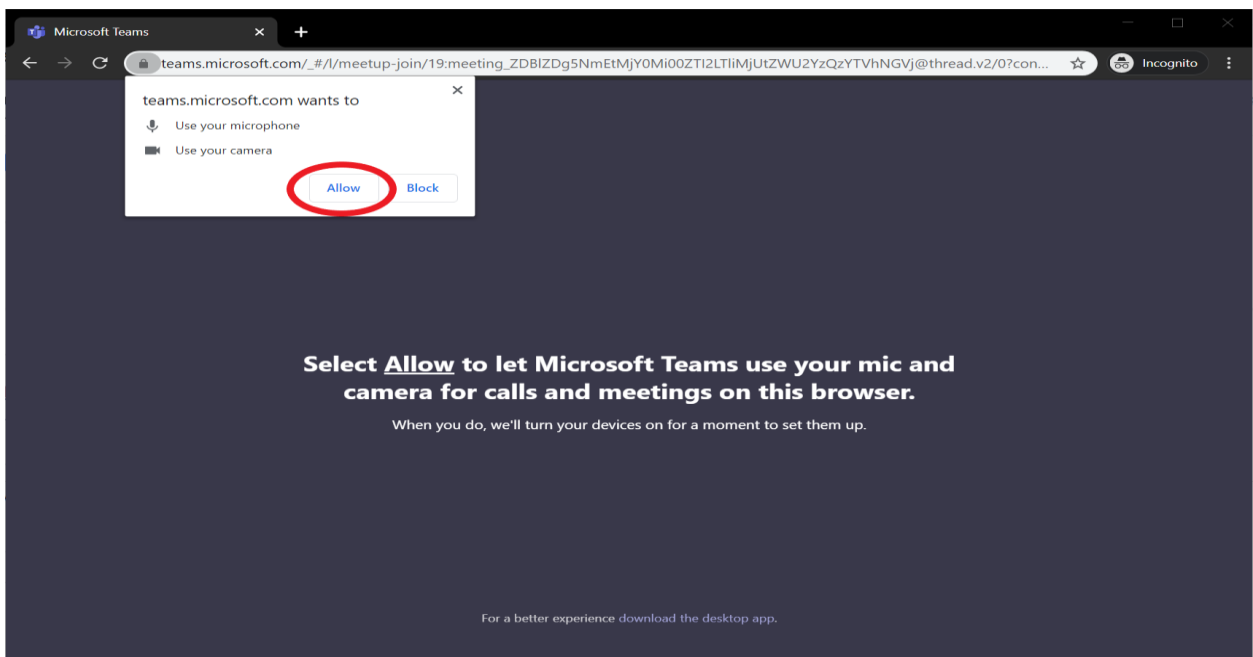


NOTE: Some browsers are not capable of joining a Teams meeting. Please use either Microsoft Edge or Google Chrome for the full experience. Additionally, users may "Download the MS Teams Windows Desktop app" or Mac app if they do not have Edge or Chrome.

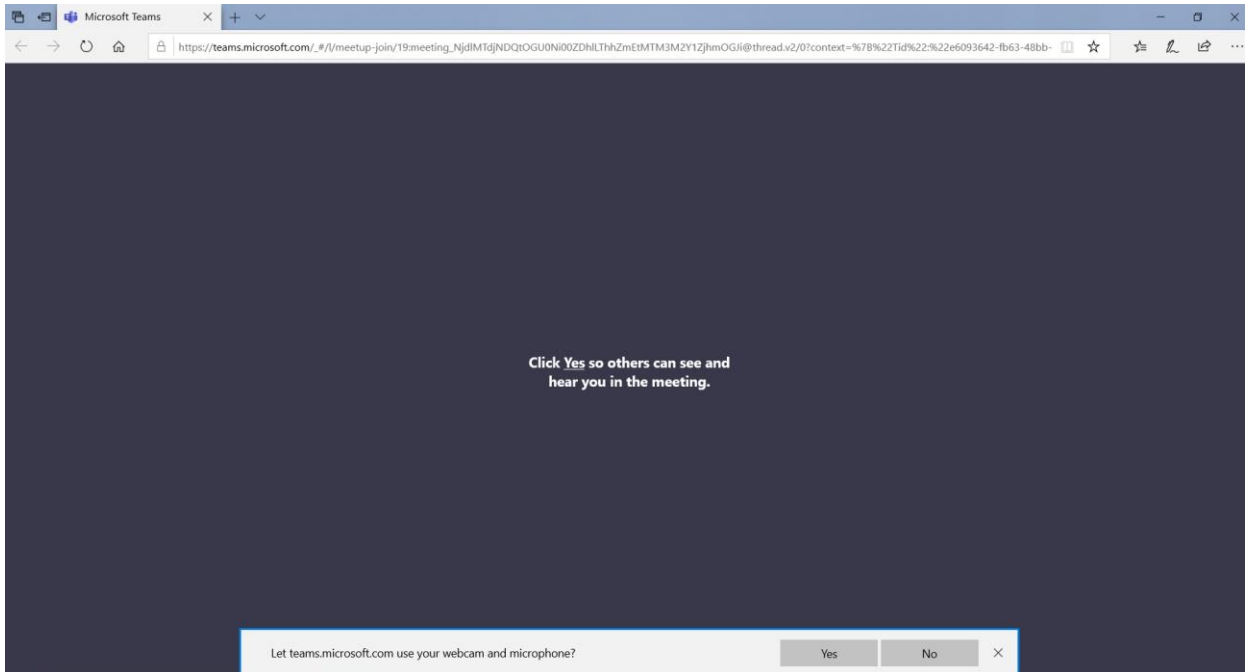
Select Open Link to open Microsoft Edge Browser



8.3. After clicking the Join on the web button, a new tab will appear with some basic connection instructions. Click the "Allow" button to let Teams access your microphone and camera.



ATTM. C - 5

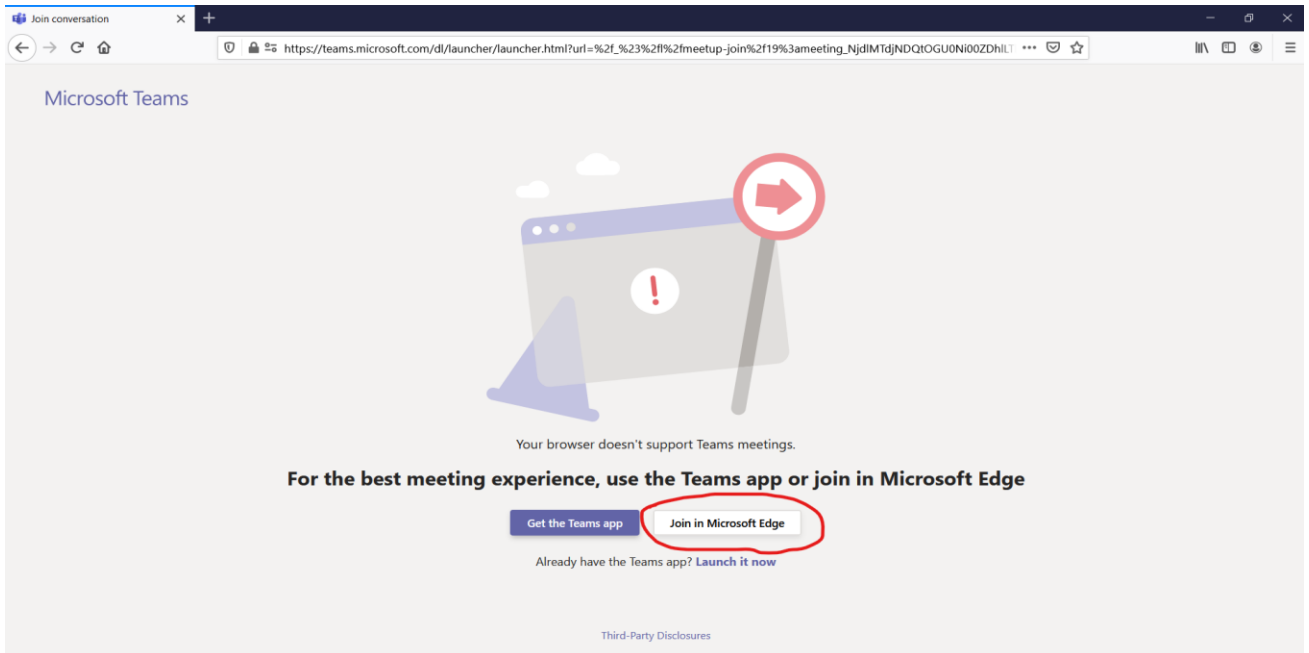


NOTE: If you are trying to join the meeting from an unsupported browser, you will see the following screen.

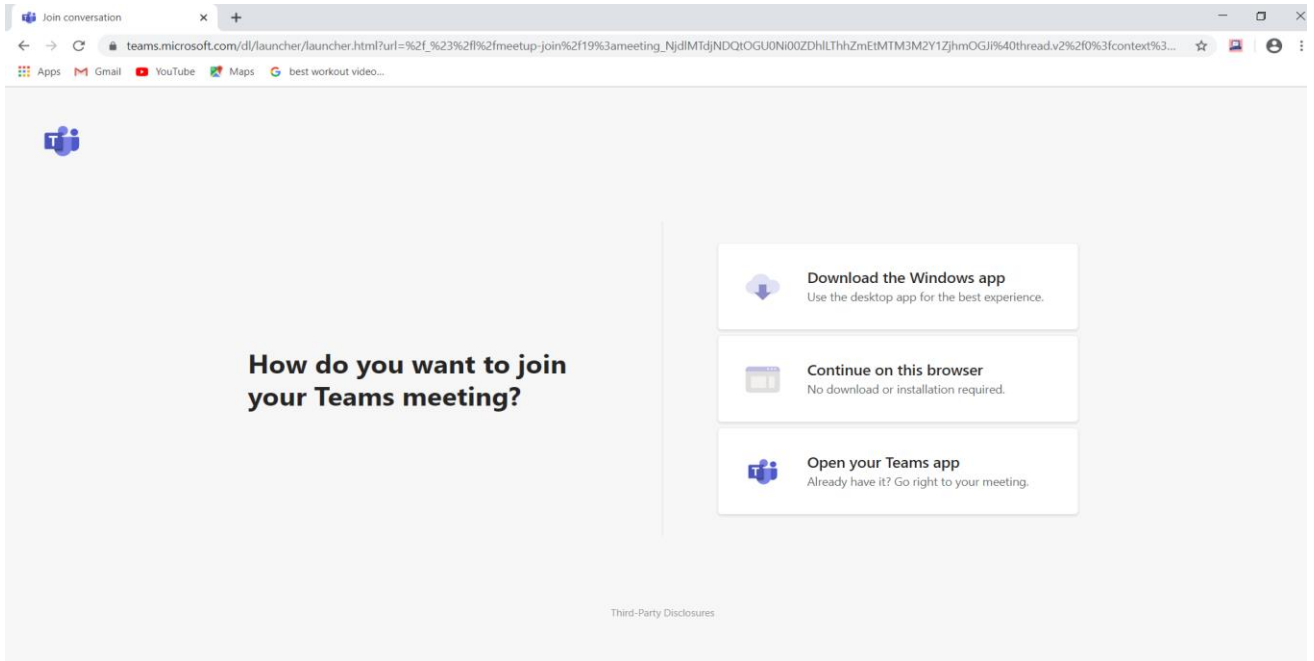
“Please use either Microsoft Edge or Google Chrome for the full experience”.

Additionally, users may "Download the Windows app" or Mac app if they do not have Edge or Chrome.

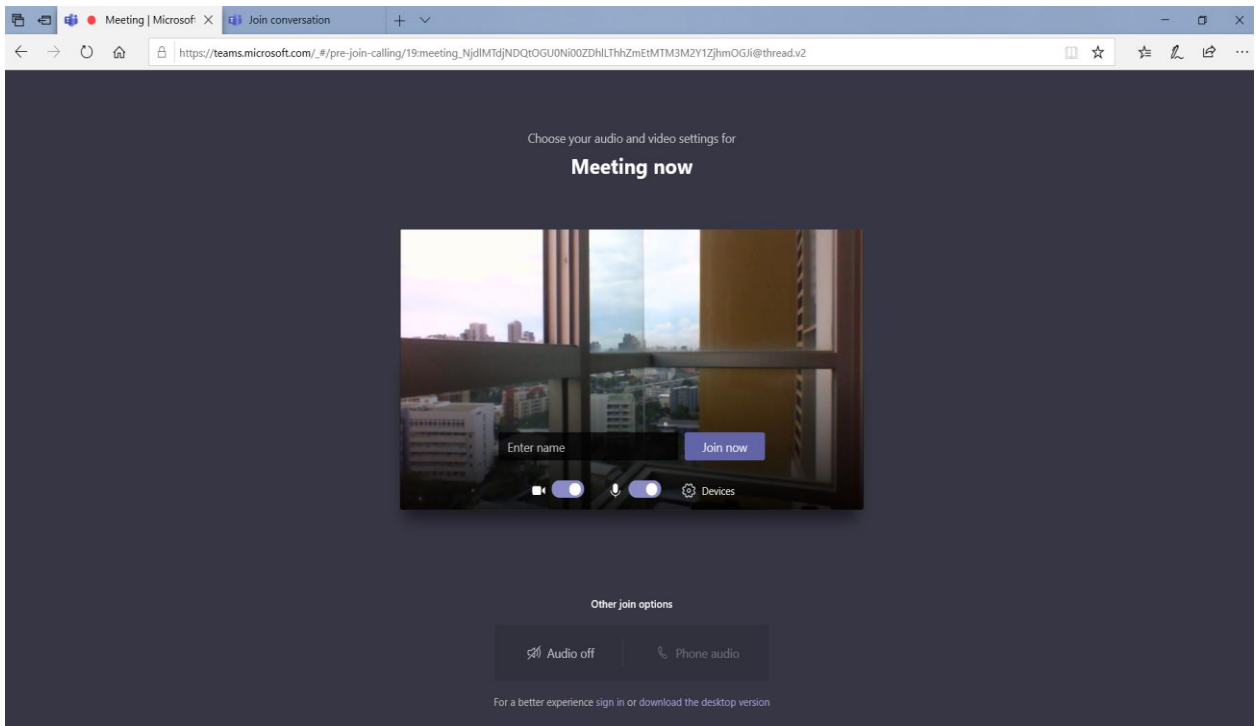
See display below when using Firefox browser



Below is displayed when using Chrome browser.

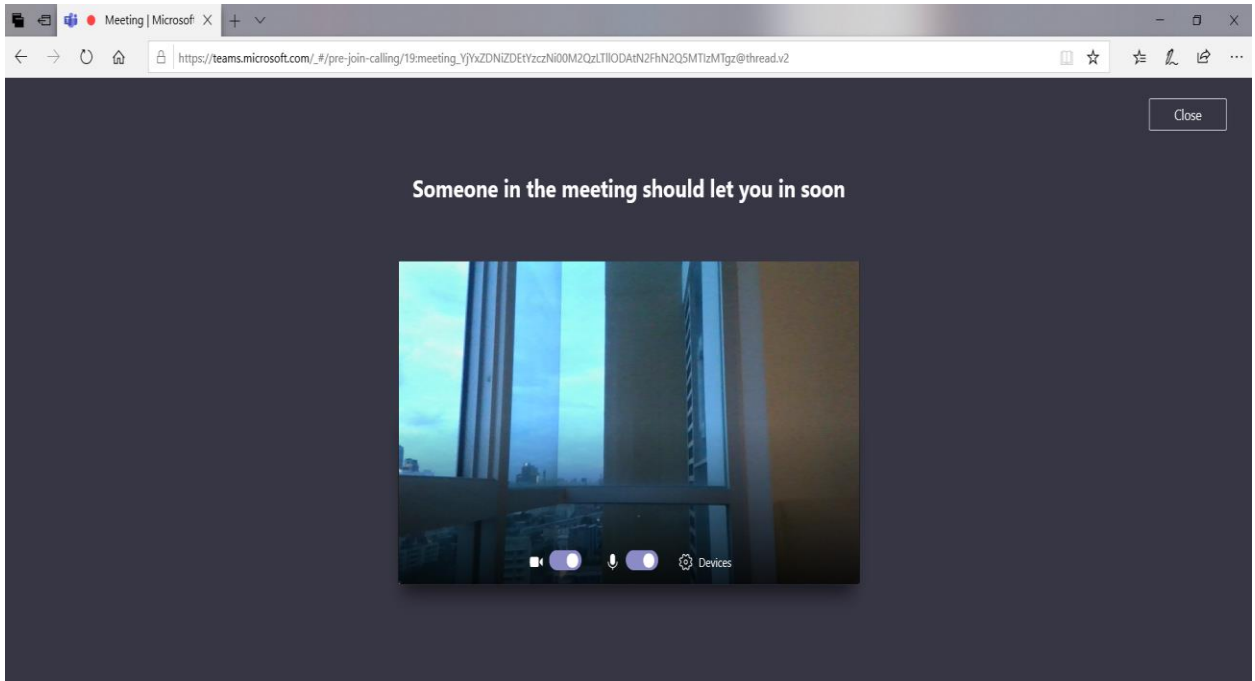


8.4 After allowing Teams access to your camera and microphone, you should now see a page with a name entry box and device options. Please enter your name and hit "**Join now**" If you do not see your camera, or it is the wrong camera, please select the "**Devices**" button to choose the correct microphone or camera.



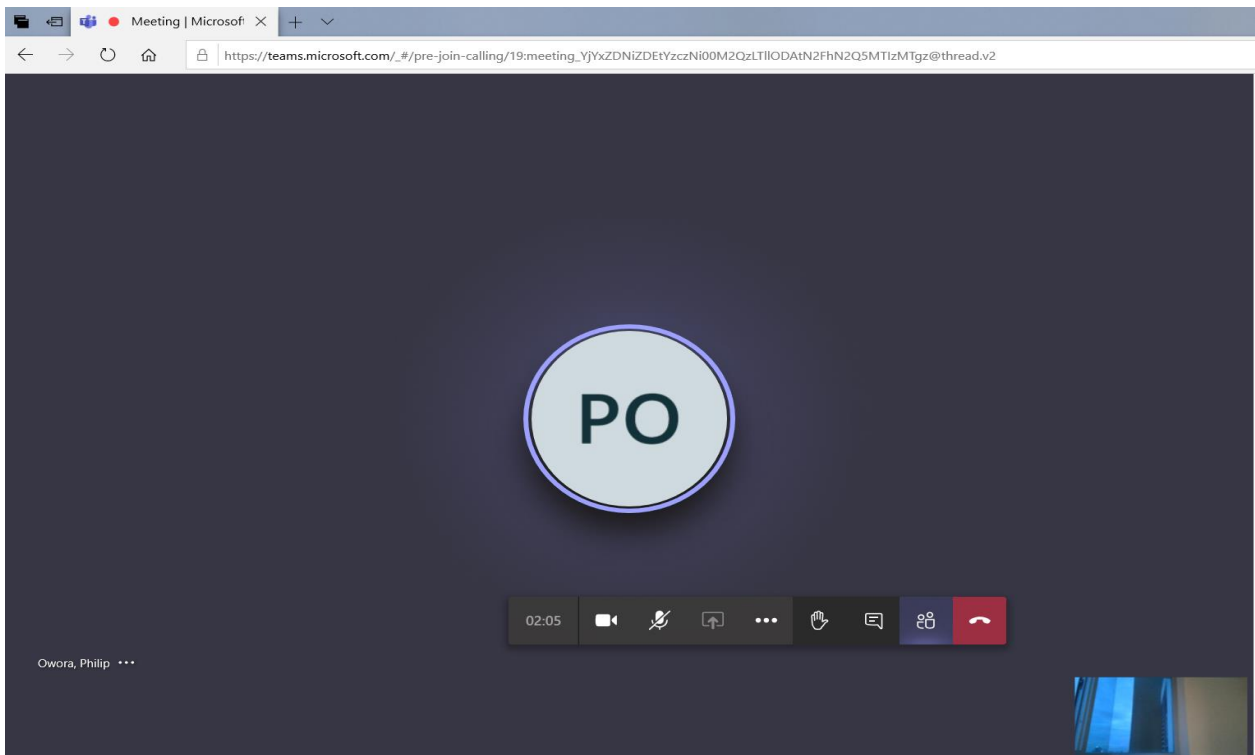
Selecting the Join now button will automatically send you into the meeting or the Lobby where the Meeting Presenter will admit you.

ATTM. C - 7



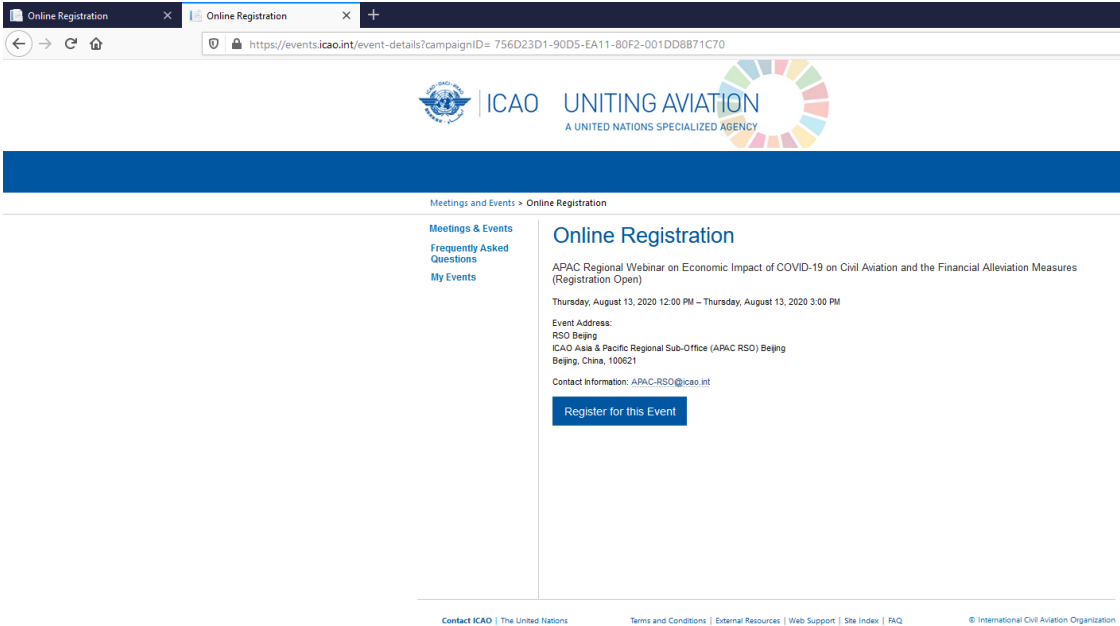
Once Admitted You will be able to attend the meeting, chat and see other participants in the meeting.

Please Sign in not less than 10 minutes before the VTC commencement time notified in the invitation email and ensure your microphone is muted and your video camera is turned off.

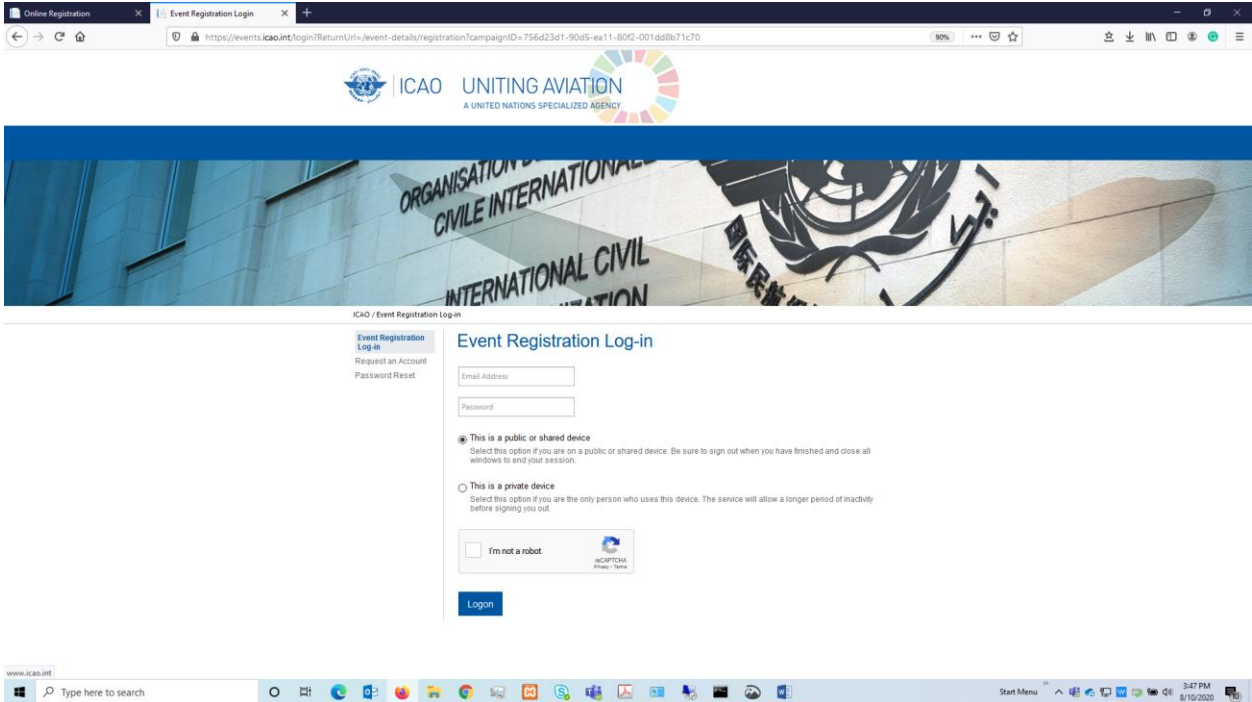


GUIDELINES FOR ONLINE REGISTRATION

Step 1: Open the link for the event you are registering for and select Register for this Event button



Step 2: Login to the Page if you have ever used this portal or skip to step 3 for New users



Annex 1 - 2

If you have ever Registered for any ICAO event using this portal, please enter you email address and password, Select the Captcha and finally click login to open the Next Page and complete the registration.

Step 2a: Once you login, the system will open a registration page with pre-populated information.

Step 2b: Complete the remaining required fields and click "Register Now".

Step 2c: Please check your email account for the event confirmation email.

Step 2d: If you forgot your password for the Events Registration portal, please click on "Password Reset" to reset your password.

Step 3: For a new user, click on "Request an Account?" link found on the left menu as seen below. (First time to use this event registration page, Please select Request an Account)

ICAO / Event Registration Log-in

[Event Registration Log-in](#)

[Request an Account](#)

[Password Reset](#)


Event Registration Log-in

Email Address

Password

This is a public or shared device
Select this option if you are on a public or shared device. Be sure to sign out when you have finished and close all windows to end your session.

This is a private device
Select this option if you are the only person who uses this device. The service will allow a longer period of inactivity before signing you out.

I'm not a robot  [Privacy - Terms](#)

[Logon](#)

Step 3a: Input your email address, to check if your details are in the system.

Meetings and Events > Online Registration > Online Registration

[Meetings & Events](#)

[Frequently Asked Questions](#)

[My Events](#)

Online Registration

Existing user? Please login [here](#).

We would like to verify if your email address already exists in the system.

[Verify email address](#)

Step 3b: Select Proceed to new Registration

The screenshot shows the 'Online Registration' page. On the left, there is a sidebar with 'Meetings & Events', 'Frequently Asked Questions', and 'My Events'. The main content area is titled 'Online Registration' and includes a link for existing users to login. Below this, it states 'Fields with an * are mandatory' and 'Personal Information'. A modal dialog box is open in the center, titled 'Information', with a close button (X). The dialog contains the text: 'We could not find your information with us. Please click on "Proceed to a new registration" to continue the registration process.' There are two buttons in the dialog: 'Cancel' and 'Proceed to a new registration'. The registration form in the background has fields for Salutation, Picture, First Name, Last Name, E-Mail (pre-filled with 'charles@caa.org'), Phone, Organization, Job Title, and Industry Type.

Step 3c: Complete the remaining required fields click Next and "Register Now".

This screenshot shows the 'Online Registration' page with the form fields filled out. The 'Personal Information' section includes: Salutation (dropdown), Picture (Browse... button, 'No file selected.'), First Name, Last Name, E-Mail (pre-filled with 'charles@caa.org'), Phone, Organization, Job Title, Industry Type (dropdown), and Area of activity (dropdown). A blue 'Next' button is located at the bottom right of the form area. The sidebar on the left remains the same as in the previous screenshot.

Step 3d: Please check your email account for the event confirmation email.

Step 4: You can reset your password by clicking on "Password Reset"

If you forgot your password, then select the Password reset link found on the Left menu of this page, input your email address then click Reset and a link will be sent with a new password which you can use to login

**INTERNATIONAL CIVIL AVIATION ORGANIZATION
ASIA AND PACIFIC OFFICE**

**SEVENTH MEETING OF THE SURVEILLANCE
IMPLEMENTATION COORDINATION GROUP (SURICG/7)**

(Video Teleconference, 24 – 27 May 2022)

REVISED REGISTRATION FORM

1. Name: _____
(Mr./ Ms./ Mrs.) **(as should appear in the official listing)**

2. Title or Official Position: _____

3. State/Administration/
Organization: _____

4. E-mail: _____

Note 1: Please download meeting materials from the ICAO APAC Office website (www.icao.int/apac > Meetings > Meeting List – 2022 > SURICG/7 prior to the meeting).

Note 2: Please return the completed registration form by e-mail to the ICAO APAC Office at: apac@icao.int no later than 10 May 2022

Note 3: Please print or type clearly. Web-conference joining instructions will only be delivered to the valid, official nominated e-mail address/es at 4, above.

Date _____ Signature _____

After completing, please send to: ICAO APAC Office, P.O. Box 11, Samyaek Ladprao, Bangkok 10901, Thailand, or Fax: +66 (2) 537 8199 **or e-mail:** apac@icao.int with cc: YLuo@icao.int; SHow@icao.int