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Regional GADSS ADT/LADR Preparedness in APAC Region

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Survey on APAC States/Administrations Preparedness

- ICAO APAC Regional Office organised the Global Aeronautical Distress and Safety System (GADSS) Workshop, on 23 May 2022. A pre-workshop poll revealed that more than 50% of respondents had indicated their knowledge of the GADSS topic was either 'low' or 'none'.
- Based on the Workshop outcome, ICAO APAC Regional Office issued a State Letter to:
 - a) inform States of the OPS CTRL and Location of an Aircraft in Distress Repository (LADR) registration process and encourage them to register; and
 - b) include a survey on readiness for the 01 January 2023 (which the applicability date had been deferred until 01 January 2025) applicability of Autonomous Distress Tracking (ADT).

Survey on APAC States/Administrations Preparedness

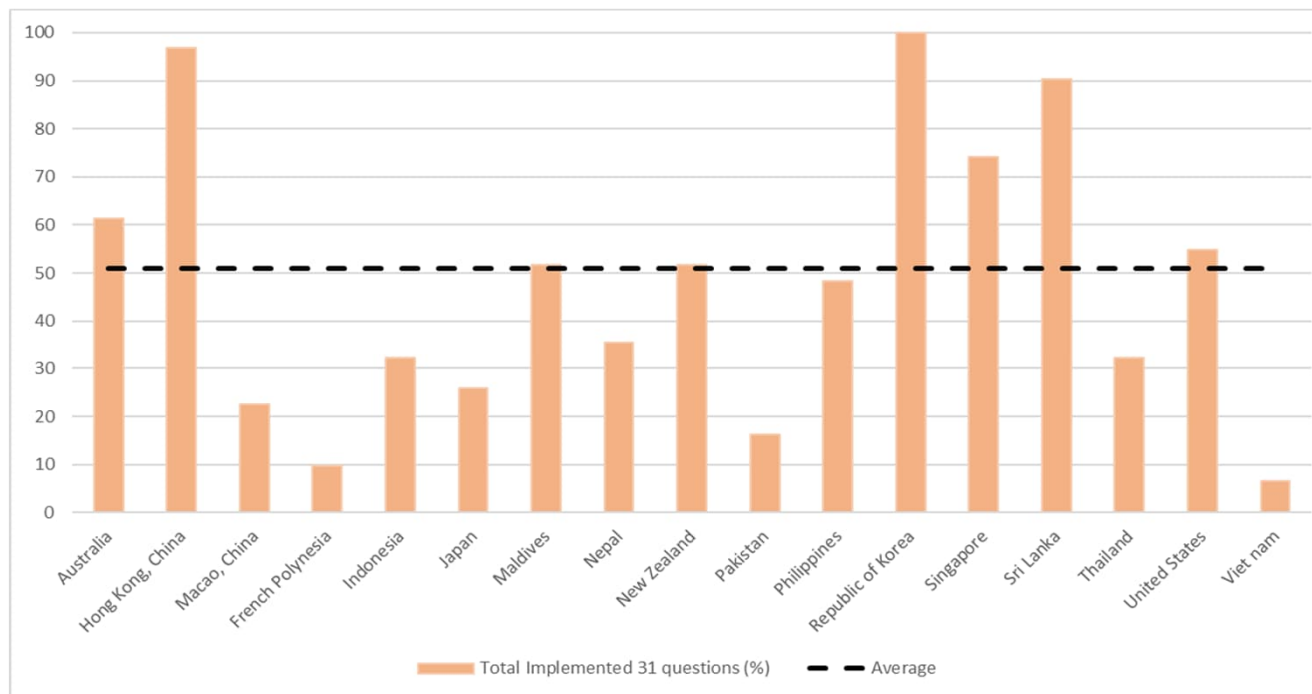
- At the Eighth Meeting of the ICAO Asia/Pacific Search and Rescue Working Group (APSAR/WG/8, Bangkok, Thailand, 22 to 25 May 2023), the meeting agreed that an updated (modified) survey should be recirculated.
- State Letter Ref. AP143/23 (ATM), dated 24 October 2023 was issued to:
 - a) re-evaluate State's readiness to receive and process ADT notifications, including Emergency Locator Transmitter (Distress Tracking) [ELT(DT)] alerts; and
 - b) remind States that they must act now to prepare for the receipt of ELT(DT) and other ADT alerts and notifications.

APAC States/Administrations Readiness Survey Response

- The survey consists of 31 questions, which were divided into four sections to reflect the main stakeholders:
 - a) State = 13 questions;
 - b) aircraft operators = 6 questions;
 - c) search and rescue (SAR) service providers = 6 questions; and
 - d) air navigation service providers (ANSPs) = 6 questions.
- A total of 17 States/Administrations responded to the revised .

APAC States/Administrations Readiness Survey Response

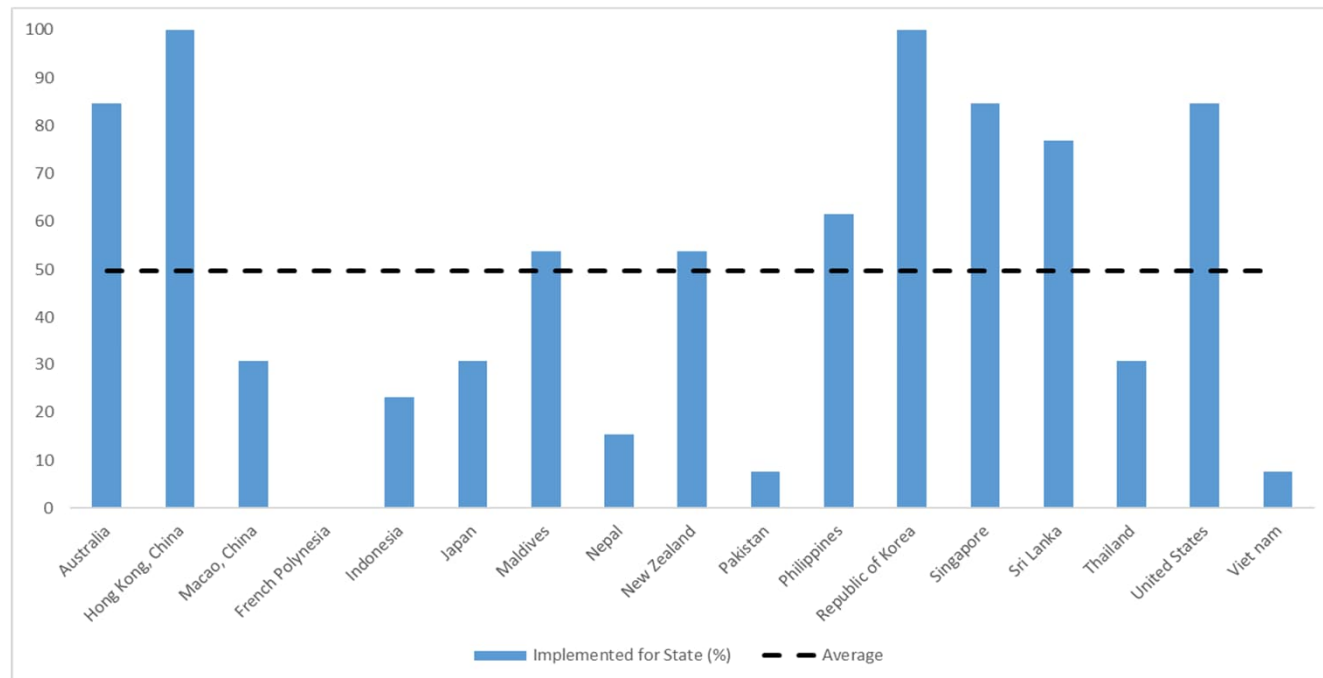
- Overall response results of the survey showed that majority of APAC States/Administrations are not ready for ADT. The average number of items marked “Yes” is 51%.



APAC States/Administrations Readiness Survey Response

States Readiness

- Based on the survey result, half the respondents have commenced preparation to incorporate procedures for ADT notification and verification and procedures for RCC actions.



APAC States/Administrations Readiness Survey Response

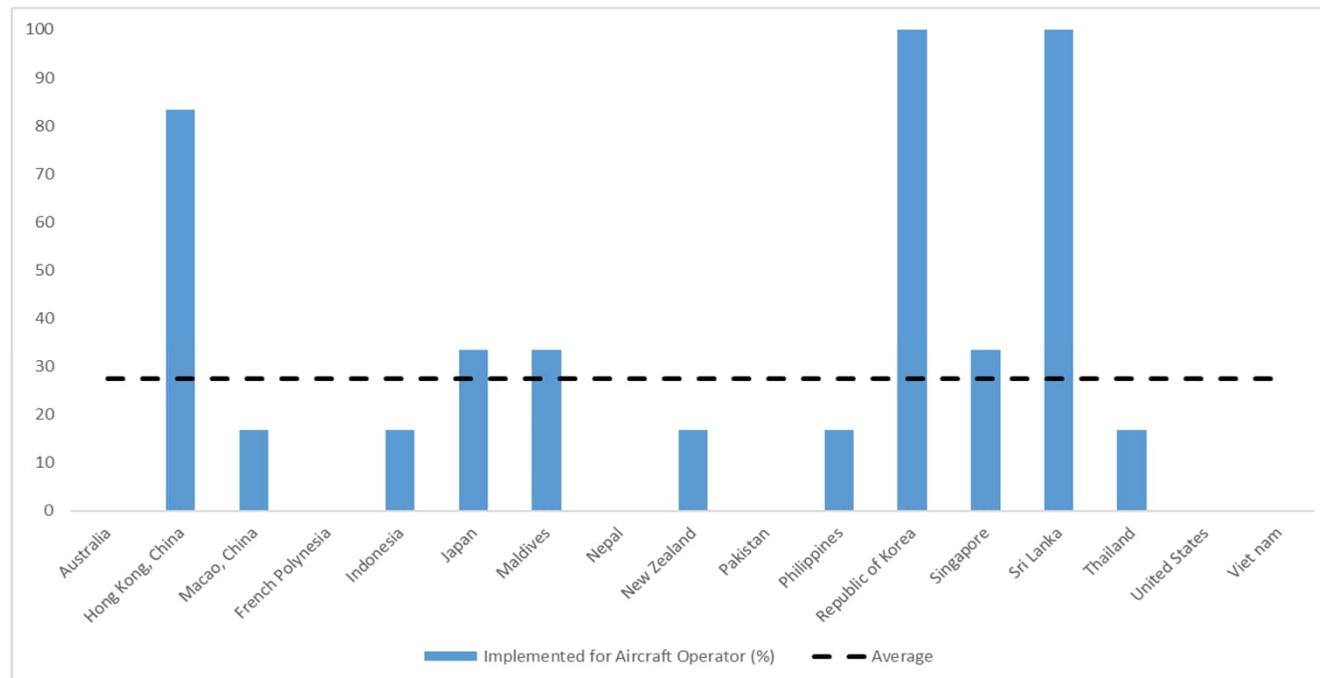
States Readiness

- Question with highest score (65%):
 - Taken action to ensure and facilitate the registration of all relevant State organisations in the OPS CTRL Directory including ANSP and aircraft operators.
- Question with lowest score (29%):
 - Incorporated ADT considerations in procedures and manuals for safety oversight of aircraft operators, ANSPs and SAR service organisations; and
 - Published and promulgated educational material on ADT for aircraft operator, ATS Unit and RCC personnel and other necessary stakeholders.

APAC States/Administrations Readiness Survey Response

Aircraft Operators Readiness

- The average rate of response was 27%. Five out of six questions in this category had less than 30% of response rate.



APAC States/Administrations Readiness Survey Response

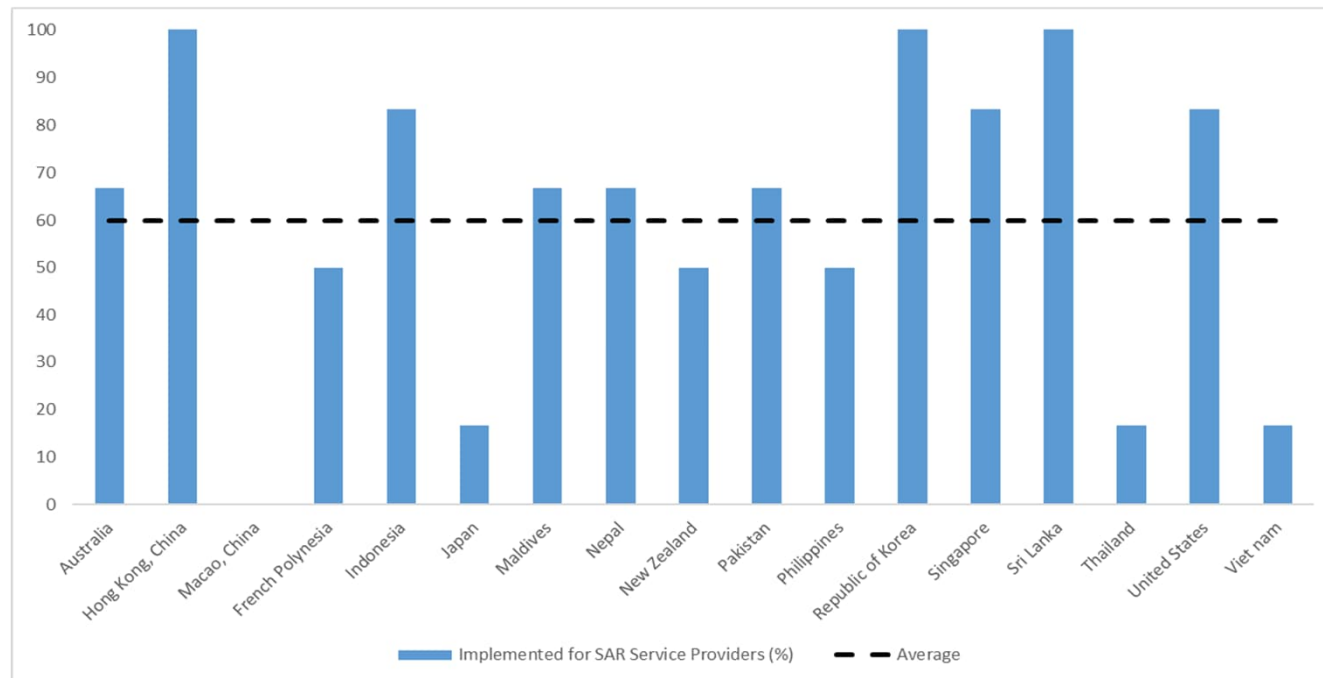
Aircraft Operators Readiness

- Question with highest score (53%):
 - Registered in the ICAO OPS CTRL Directory.
- Question with lowest score (18%):
 - Commenced preparation for development of procedures for the initial aircraft operator response to ADT notifications and for informing appropriate ATS units of the outcome of ADT validation checks; and
 - Trained flight dispatch and other relevant personnel to understand ADT notifications and ELT(DT) alerts (according to fleet equipage), and to execute ADT procedures accordingly.

APAC States/Administrations Readiness Survey Response

Search and Rescue Service Provider (RCC/RSC) Readiness

- In the category of SAR service provider, the average rate of response was highest amongst the four categories recorded as 60%.



APAC States/Administrations Readiness Survey Response

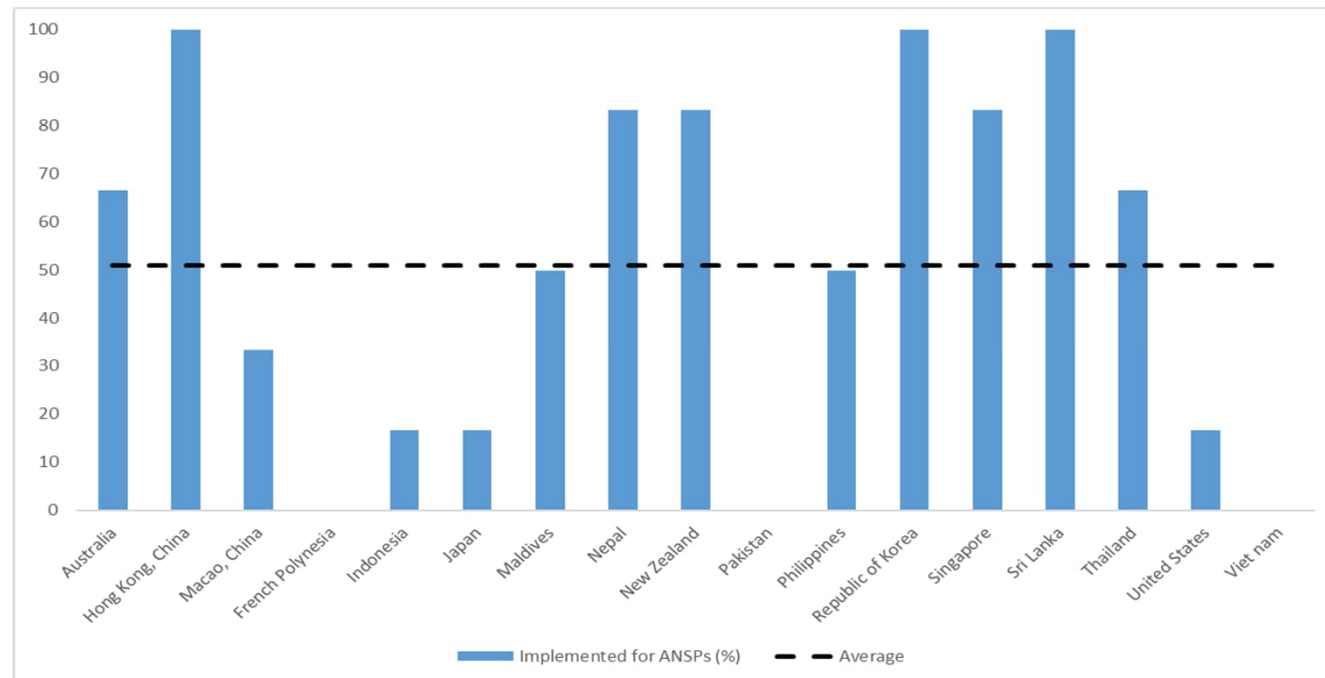
Search and Rescue Service Provider (RCC/RSC) Readiness

- Question with highest score (71%):
 - Ensured State RCCs will have the capability to receive LADR notifications and access the LADR to obtain further ADT notification information and data.
- Question with lowest score (47%):
 - Developed procedures for the response to ADT notifications and coordination with ATS units.

APAC States/Administrations Readiness Survey Response

Air Navigation Service Providers (ANSPs) Readiness

- The average rate of response was 51%.



APAC States/Administrations Readiness Survey Response

Air Navigation Service Providers (ANSPs) Readiness

- Question with highest score (59%):
 - Registered in the ICAO OPS CTRL Directory when this is commissioned for RCCs;
 - Commenced preparation for subscription to LADR notifications when the service is commissioned; and
 - Developed procedures for the response to ELT(DT) coordination received from SAR authorities.
- Question with lowest score (41%):
 - Developed procedures for the response to ADT notifications received from aircraft operators; and
 - Trained relevant ATS personnel to understand ADT notifications and ELT(DT) alerts, and to coordinate in accordance with procedure

Summary

- The majority of APAC Administrations have yet to develop procedures for the response to ADT notification or ELT(DT) alerts;
- Training of relevant SAR personnel, ATS personnel and flight despatchers to understand ADT notifications and ELT(DT) alerts has not been conducted.
- Registration to the ICAO OPS CTRL Directory has not been conducted.

Recommendations

- States to:
 - increased efforts to improve knowledge of the Global Aeronautical Distress and Safety System (GADSS) among regulatory authorities, aircraft operators, SAR services, and ANSPs; and
 - implement educational programs and develop procedures to handle ADT notifications effectively.



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(SAM) Office
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Southern African
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Nairobi



Thank You!



Survey

STATE		
Check the box if State has:		
1.	<input type="checkbox"/>	Registered a State Focal Point in the ICAO OPS CTRL Directory (email: aircrafttracking@icao.int website: https://www4.icao.int/opsctrl/)
2.	<input type="checkbox"/>	Taken action to ensure and facilitate the registration of all relevant State organizations in the OPS CTRL Directory including ANSP and aircraft operators.
3.	<input type="checkbox"/>	Taken action to ensure the required operational contact details are recorded in the OPS CTRL Directory for ANSP and aircraft operators.
4.	<input type="checkbox"/>	Taken action to ensure and facilitate the registration of State RCCs in the OPS CTRL Directory when this is commissioned for SAR services.
5.	<input type="checkbox"/>	Take action to ensure the required operational RCC contact details are recorded in the OPS CTRL Directory when commissioned for SAR services.
6.	<input type="checkbox"/>	Developed and implemented regulations requiring aircraft operator compliance with Annex 6 Section 6.18
7.	<input type="checkbox"/>	Identified relevant State LADR entities and ensured they are prepared to subscribe to LADR notifications when the service is commissioned
8.	<input type="checkbox"/>	Ensured relevant State LADR entities will implement the capability to receive LADR notifications and access the LADR, when commissioned, to obtain further ADT notification information and data.
9.	<input type="checkbox"/>	Commenced preparation for the incorporation of procedures for ADT notifications, and verification by aircraft operators, in existing for ATS alerting services.
10.	<input type="checkbox"/>	Commenced preparation for the incorporation of procedures for RCC actions in response to ADT notifications.
11.	<input type="checkbox"/>	Ensured the development of procedures for RCC actions in response procedures to ELT(DT) alerts via the Cospas-Sarsat system.
12.	<input type="checkbox"/>	Incorporated ADT considerations in procedures and manuals for safety oversight of aircraft operators, ANSPs and SAR service organizations
13.	<input type="checkbox"/>	Published and promulgated educational material on ADT for aircraft operator, ATS Unit and RCC personnel and other necessary stakeholders

AIRCRAFT OPERATORS		
Check the box if relevant State-based Aircraft Operators have:		
1.	<input type="checkbox"/>	Registered in the ICAO OPS CTRL Directory (email: aircrafttracking@icao.int website: https://www4.icao.int/opsctrl/)
2.	<input type="checkbox"/>	Commenced preparation for subscription to LADR notifications when the service is commissioned.
3.	<input type="checkbox"/>	Ensured relevant aircraft operators will implement the capability to receive LADR notifications and access the LADR, when commissioned, to obtain further ADT notification information and data on their aircraft.
4.	<input type="checkbox"/>	Commenced preparation for development of procedures for the initial aircraft operator response to ADT notifications and for informing appropriate ATS units of the outcome of ADT validation checks.
5.	<input type="checkbox"/>	Commenced preparation for the development of procedures for the initial aircraft operator response to ELT(DT) alert coordination received from SAR authorities or ATSUs
6.	<input type="checkbox"/>	Trained flight despatch and other relevant personnel to understand ADT notifications and ELT(DT) alerts (according to fleet equipage), and to execute ADT procedures accordingly

SAR SERVICE PROVIDER (RCC/RSC)		
Check the box if the SAR Service Provider has:		
1.	<input type="checkbox"/>	Registered in the ICAO OPS CTRL Directory when this is commissioned for RCCs (email: aircrafttracking@icao.int website: https://www4.icao.int/opsctrl/)
2.	<input type="checkbox"/>	Commenced preparation for subscription to LADR notifications when the service is commissioned.
3.	<input type="checkbox"/>	Ensured State RCCs will implement the capability to receive LADR notifications and access the LADR, when commissioned, to obtain further ADT notification information and data.
4.	<input type="checkbox"/>	Developed procedures for the response to ADT notifications and coordination with ATS units.
5.	<input type="checkbox"/>	Developed procedures for the response to ELT(DT) alerts and coordination with ATS units.
6.	<input type="checkbox"/>	Trained SAR personnel to understand ADT notifications and ELT(DT) alerts, and to execute ADT procedures accordingly.

AIR NAVIGATION SERVICE PROVIDER		
Check the box if all relevant Air Traffic Service (ATS) Units have:		
1.	<input type="checkbox"/>	Registered in the ICAO OPS CTRL Directory (email: aircrafttracking@icao.int website: https://www4.icao.int/opsctrl/)
2.	<input type="checkbox"/>	Commenced preparation for subscription to LADR notifications when the service is commissioned
3.	<input type="checkbox"/>	Ensured ATS Units will implement the capability to receive LADR notifications and access the LADR, when commissioned, to obtain further ADT notification information and data.
4.	<input type="checkbox"/>	Developed procedures for the response to ADT notifications and coordination with aircraft operators and RCCs.
5.	<input type="checkbox"/>	Developed procedures for the response to ELT(DT) alerts received from RCCs.
6.	<input type="checkbox"/>	Trained relevant ATS personnel to understand ADT notifications and ELT(DT) alerts, and to execute procedures accordingly.