APCERT

Asia Pacific Computer Emergency Response Team

Activities, Challenges & Collaboration

TLP:WHITE

Prepared by
APCERT Secretariat

February 2018

About APCERT

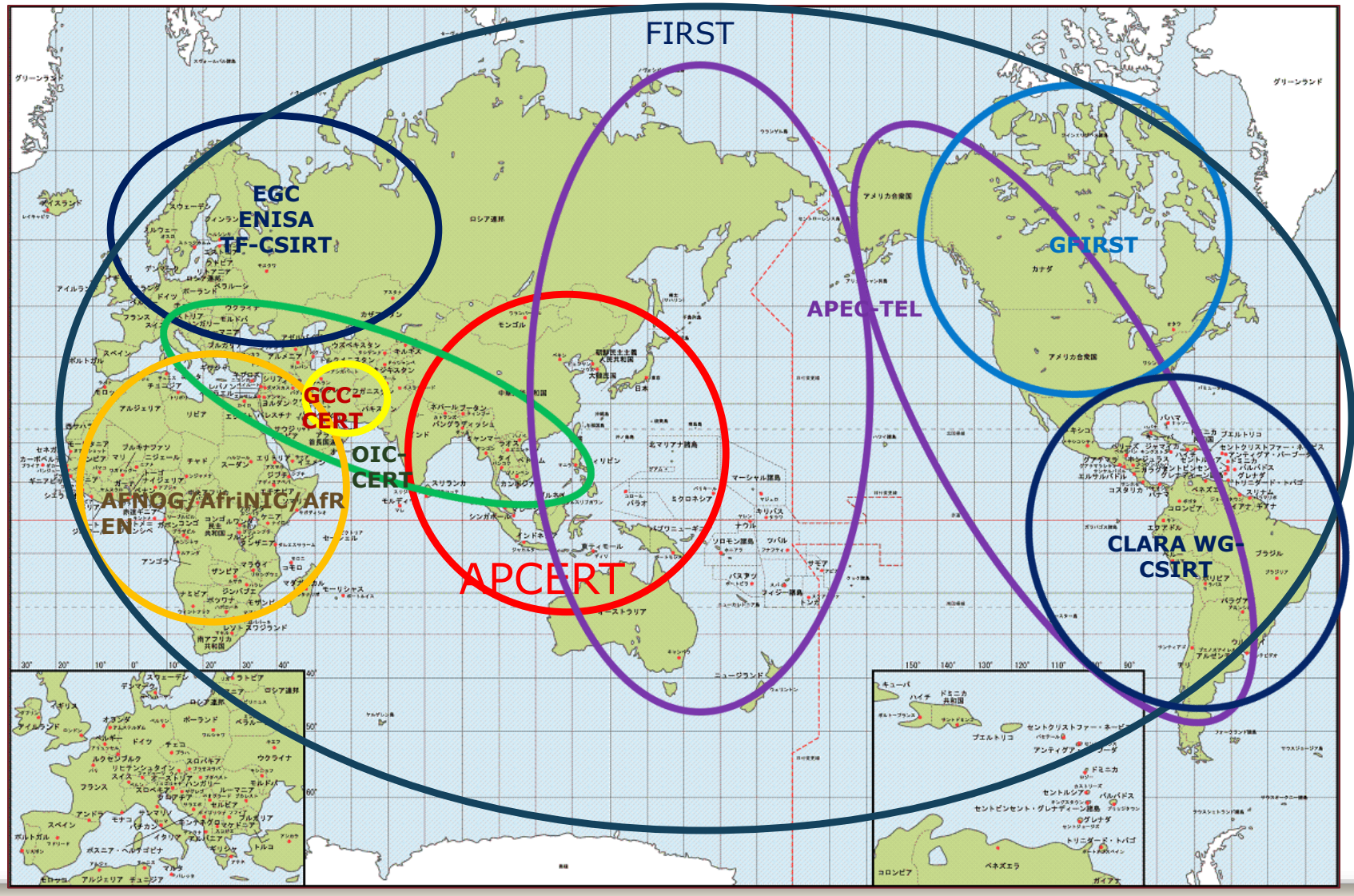
- **A**sia **P**acific **C**omputer **E**mergency **R**esponse **T**eam
  http://www.apcert.org
  - Forum of CSIRTs/CERTs in the Asia Pacific region
  - Established in February 2003
  - 30 Operational Members from 21 economies
    - New members: Bhutan (BtCIRT), CERT NZ
- APCERT also has MOU/cooperative relationships with
  - STOP.THINK.CONNECT
  - TF-CSIRT (CSIRT community in Europe)
  - OIC-CERT (Organisation of Islamic Cooperation CERT)
  - APNIC

APCERT Vision Statement

APCERT will work to help create a Safe, Clean and Reliable cyber space in the Asia Pacific Region through global collaboration

APCERT's Outreach - Cross regional collaboration

APCERT
Asia Pacific Computer Emergency Response Team



APCERT Operational Members (30 Teams from 21 Economies)

APCERT
Asia Pacific Computer Emergency Response Team

Mongolia
MNCERT/CC, MonCIRT

China
★CNCERT/CC, CCERT

Bhutan
BtCIRT

Bangladesh
bdCERT, BGD e-Gov CIRT

India
★CERT-In

Myanmar
mmCERT

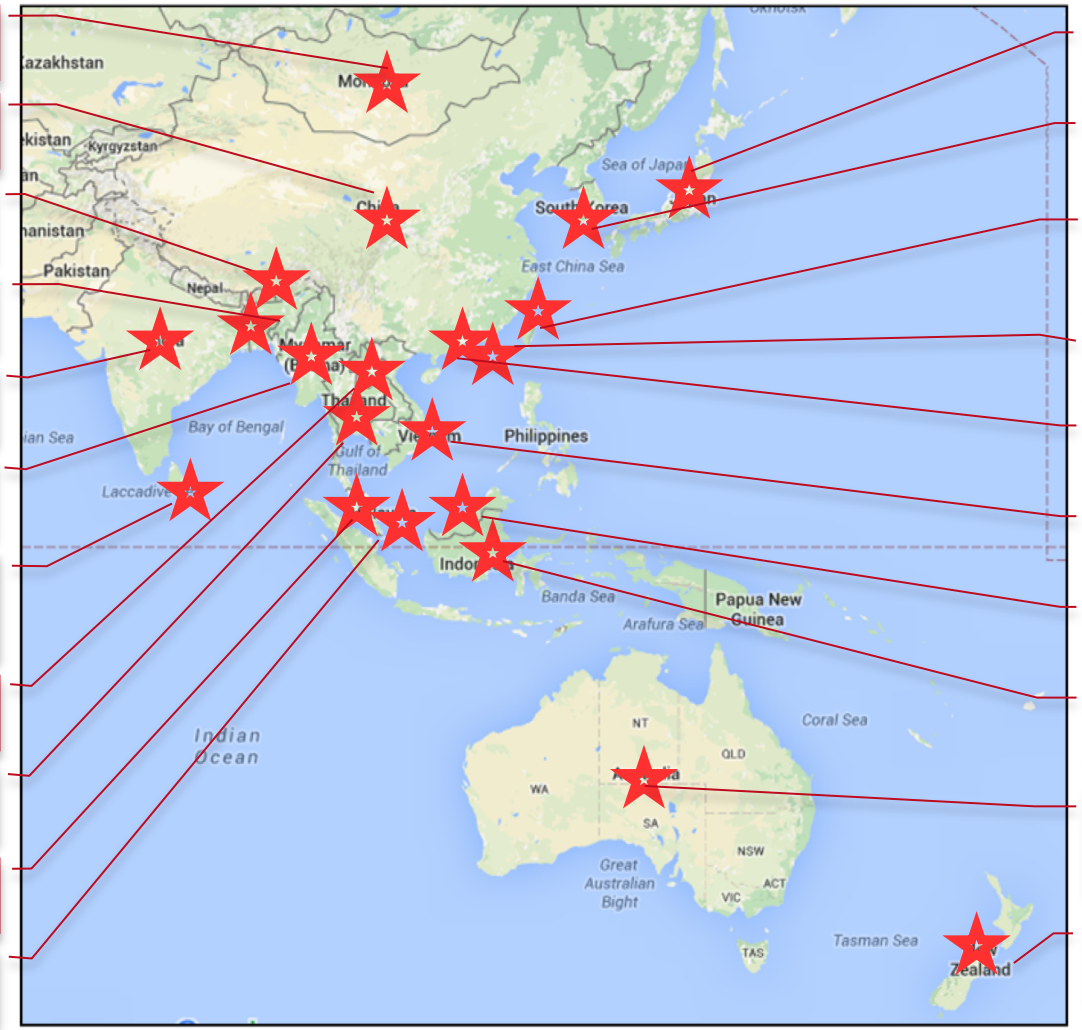
Sri Lanka
Sri Lanka CERT|CC,
TechCERT

Laos
LaoCERT

Thailand
ThaiCERT

Malaysia
★MyCERT

Singapore
SingCERT



Japan
★JPCERT/CC

South Korea
★KrCERT/CC

Taiwan
★TWNCERT,
TWCERT/CC, EC-CERT

Hong Kong
HKCERT, GovCERT.HK

Macau
MOCERT

Vietnam
VNCERT

Brunei
BruCERT

Indonesia
Id-SIRTII/CC, ID-CERT

Australia
★CERT
Australia(Chair),
AusCERT

New Zealand
CERT NZ

Corporate Partners (3)

- Bkav (Vietnam), Microsoft, Secureworks

★Steering Committee

APCERT OM Criteria

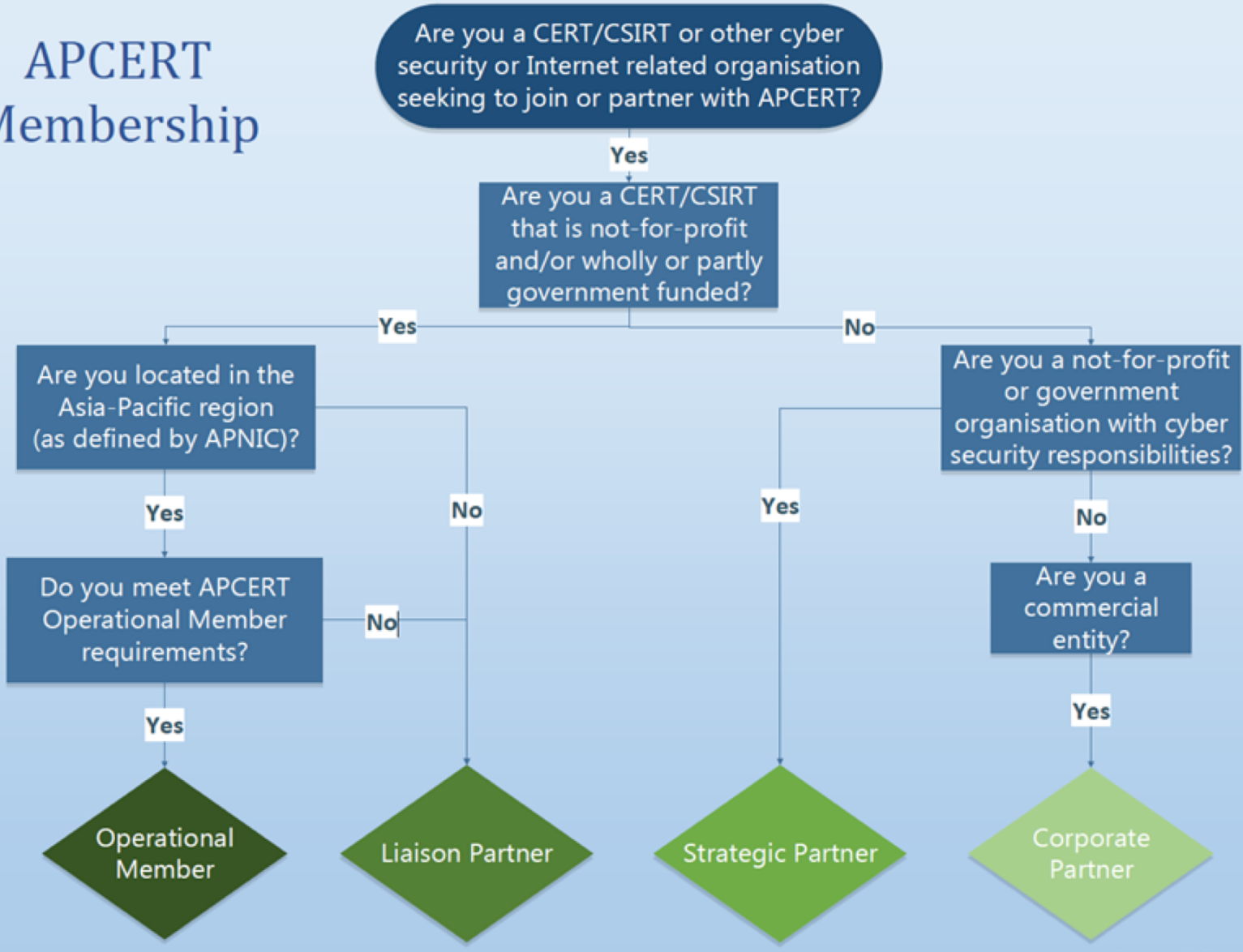
1. be a **CERT from an Asia Pacific economy**, which performs the function of a CSIRT or CERT on a full time basis
2. be a **leading or national CERT** within its own economy
3. be **not-for-profit** and/or wholly or partly government funded
4. have **established policies, practices and procedures** for operating a CERT within its economy and have **experience in CERT operations** including incident handling and cyber threat and vulnerability monitoring and advice
5. have a broad **responsibility and capability for disseminating information and coordinating incident response** across and/or among sectors within its economy
6. Obtain an OM sponsor, application and site visit

Asia-Pacific Region

Source: APNIC

APCERT
Asia Pacific Computer Emergency Response Team

APCERT Membership



Why do we need APCERT?

- **Cyber threat landscape continues to evolve**

- **Range of threats is ever increasing – seeing two distinct trends**
  1. Targeted: Increasingly sophisticated exploits are being developed and deployed against well-protected networks
  2. Broad-based: Criminals compromising networks using publicly known vulnerabilities that have known mitigations (eg WanaCry)

- **Current challenges**
  - Ransomware
  - Business Email Compromise / Social engineering
  - Targeting trusted third parties
  - DDoS

- **The challenges are not national – they are regional and global**
  - Theft of money, data (corporate & personal) and intellectual property
  - Extortion attacks such as denial of service and ransomware
  - Malware hosted on compromised websites
  - Spear phishing emails / Business email compromise – network access & fraud

APCERT Objective 1 – Security Cooperation

- Encourage and support regional and international cooperation on information security in the Asia Pacific region
- Jointly develop measures to deal with large-scale or regional network security incidents
- Facilitate information sharing and technology exchange, including info security, computer virus and malicious code, among its members
- Promote collaborative research and development on subjects of interest to its members

APCERT Objective 2 – Emergency Response

- Assist other CSIRTs in the region to conduct efficient and effective computer security emergency response capability

- Provide inputs and/or recommendations to help address legal issues related to information security and emergency response capabilities across regional boundaries

APCERT Objective 3 – Security Awareness

- Organize and conduct an annual AGM and APCERT Conference to raise awareness on computer security incident responses and trends, exchange information on cyber security trends, discuss threats and challenges, and assist government & critical entities

How does APCERT work?

CSIRT (Computer Security Incident Response Team)

- Independent from politics, industry, market…
- Do not focus on WHO and WHY, focus on WHAT and HOW from a technical coordination perspective

CSIRT Common Policy

- MY security depends on YOUR security
- Web of trust

Systematic Handling

- Timely manner
- Each team has appropriate domestic contacts to handle and respond to incidents (ISPs, critical infrastructure, government…)
- Mailing lists, Traffic Light Protocol, encrypted e-mail
- Reaching to disconnected areas using CSIRT network

POC arrangement between members

- One Point of Contact per economy
- Deal with serious and time critical computer security incidents
- Reachable 24 hours / 7 days via call

APCERT Working Groups

- **Malware Mitigation WG** (Convener: MyCERT)
  - ✓ To discuss security metrics in order to identify ways to improve on currently available security metrics, best practices on clean-up and data sharing methods
- **Information Sharing WG** (Convener: CNCERT/CC)
  - ✓ To identify information regarded as useful for APCERT members and/or available to share with other APCERT members
- **Membership WG** (Convener: KrCERT/CC)
  - ✓ To review the current membership criteria/classes
- **Policy, Procedures and Governance WG** (Convener: CERT Australia)
  - ✓ To promote the Vision and Mission of APCERT, To review the Operational Framework and other documents
- **Training WG** (Convener: TWNCERT)
  - ✓ To establish an overall education and training program to assist members to develop, operate, and improve their incident management capabilities.
- **TSUBAME WG** (Convener: JPCERT/CC)
  - ✓ To exchange analytical information of TSUBAME, the packet traffic monitoring system to observe suspicious scanning activities in the Asia Pacific and other regions.
- **Drill WG** (Convener: ThaiCERT)
  - ✓ To improve the efficiency and stability of the organization of the annual drill by maintaining a fixed organization that can learn from experiences each year.

Capacity Building

APCERT Online Training (bimonthly)

Date	Theme	Presenter
8 Feb 2017	Digital Forensics	Sri Lanka CERT|CC
19 Apr	Mobile Vulnerability Check and Case Study	KrCERT/CC
1 Aug	Cyber Detection, Eradication and Forensic (Cyber D.E.F)	MyCERT
3 Oct	Cyber threat information sharing	CERT Australia
5 Dec	Introduction of DDoS Offensive and Defensive Exercise in Taiwan	TWNCERT
6 Feb 2018	Malware Information Sharing Platform (MISP) in a CERT	AusCERT

Recent and upcoming Activities

Updated APCERT Operational Framework

- New structure to include Partners

APCERT Information Classification Policy Update

- Updating APCERT Information Classification Policy in line with the 'FIRST Standards Definitions and Usage Guidance — Version 1.0'

Capacity Building Survey

- Surveyed members in 2017 conducted to determine APCERT member strengths and gaps
- Capacity Development WG to be established: will use the skills and expertise of APCERT Members/Partners to share experiences and strengthen the APCERT community

Events presented as APCERT Representative:

- The OIC-CERT Annual General Meeting and Annual Conference
- APRICOT / FIRST TC / AP*
- APEC-TEL

Recent and upcoming Activities - APCERT Drill

Practice – APCERT Incident Handling Drill

- Conducted annually
- Participation from most of APCERT teams and some external organisations
- A simulation exercise of cyber attacks, includes communication checks based on given scenario.

Last Drill: 22 March, 2017

- Theme: "Emergence of a New DDoS Threat "
- Participating Teams:
  - 23 CSIRTs from 18 economies
  - 4 CSIRTs from OIC-CERT
- Objective/Scenario:
  - Mitigate DDoS incidents triggered by a type of malware which has been widely observed in the Asia Pacific region

Next Drill: 7 March 2018

Recent and upcoming Activities - APCERT AGM & Conference

- 2017 APCERT AGM and Conference
  - Date: 12-15 November, 2017
  - Hosted by: CERT-In (India), Delhi
  - Theme: "Building Trust in the Digital Economy"

- 2018 APCERT AGM and Conference
  - Date: Q4 2018
  - Hosted by: CNCERT/CC (China), Shanghai
  - Theme: TBA

APCERT Annual Report

- Activity reports of APCERT member teams
  - Overview and activities of each team
    - Team reports and statistics on incidents and trends
    - Projects and Activities

- Annual Report 2016 is available online
  - https://www.apcert.org/documents/pdf/APCERT_Annual_Report_2016.pdf

- Annual Report 2017 will be available soon

Thank you!

APCERT General Contact:
apcert-sec@apcert.org

APCERT Website:
https://www.apcert.org