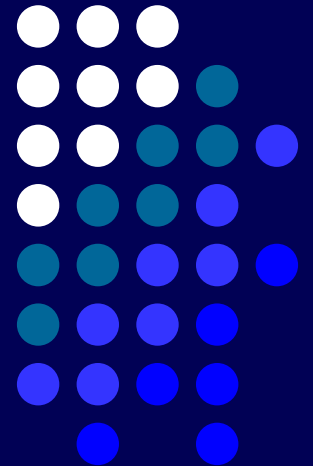


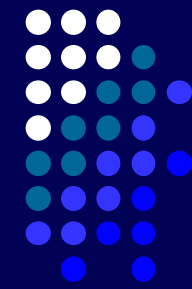
# APCERT Activity Updates

*Asia Pacific Computer Emergency Response Team*

**Yurie Ito**  
**JPCERT/CC**  
*Joint Workshop on Security 2008, Tokyo*  
*26 March 2008*



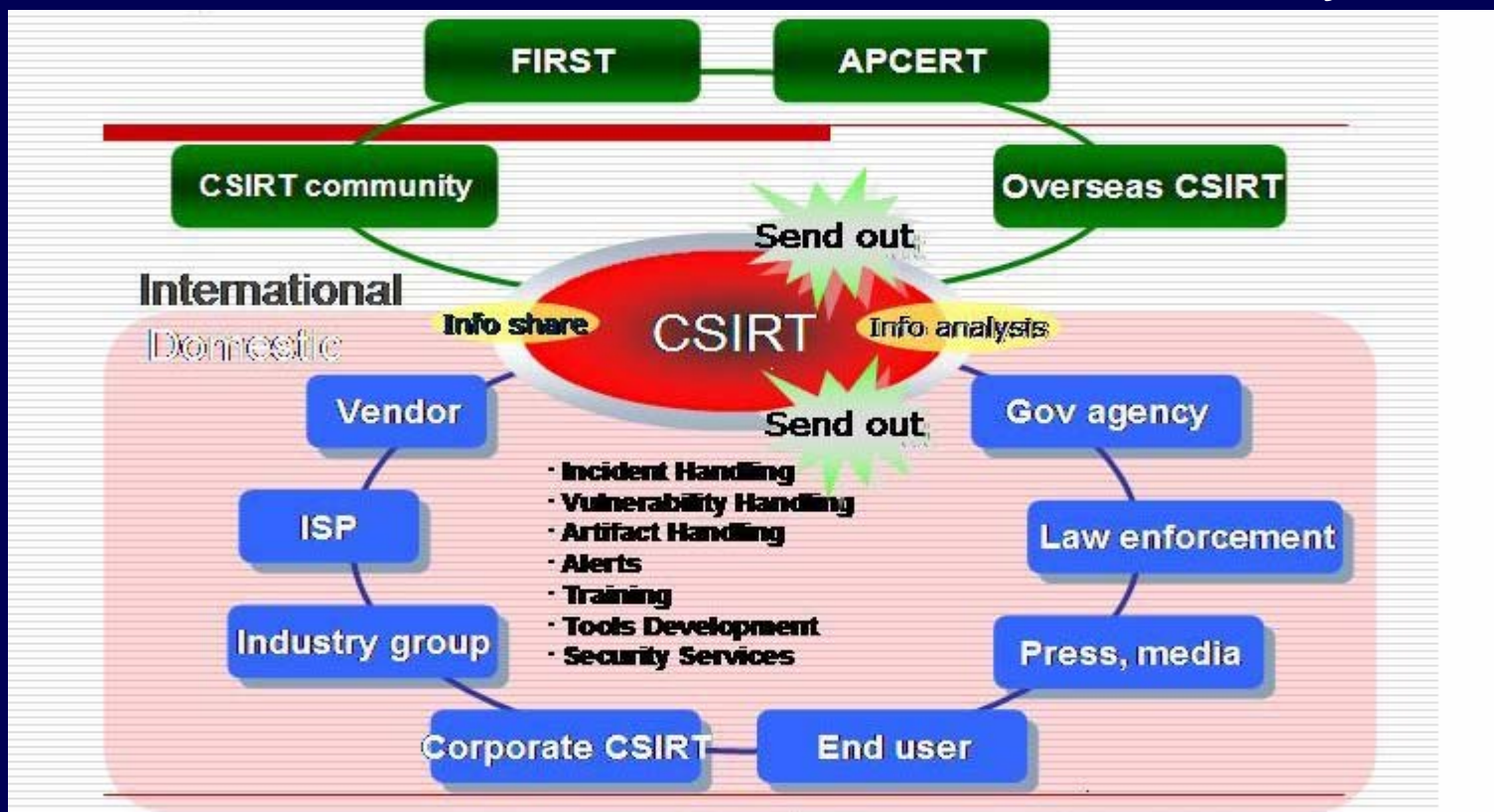
# About APCERT & CSIRT

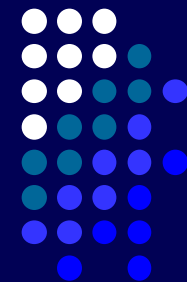


- **APCERT** (Asia Pacific Computer Emergency Response Team) is a coalition of the forum of **CSIRTs**\*.

*CSIRT: Computer Security Incident Response Team*

## International Collaboration Model for Information Security





# APCERT Member Teams

21 Teams / 15 Economies, as of March 2008

## Full Members (14)

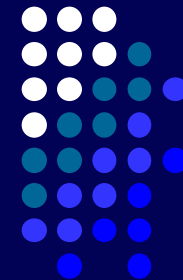
- **AusCERT** – *Australia*
- **BKIS** – *Vietnam*
- **CCERT** – *People's Republic of China*
- **CNCERT/CC** – *People's Republic of China*
- **HKCERT/CC** – *Hong Kong, China*
- **IDCERT** – *Indonesia*
- **JPCERT/CC** – *Japan*
- **KrCERT/CC** – *Korea*
- **MyCERT** – *Malaysia*
- **PH-CERT** – *Philippine*
- **SingCERT** – *Singapore*
- **ThaiCERT** – *Thailand*
- **TWCERT/CC** – *Chinese Taipei*
- **TWNCERT** – *Chinese Taipei*

## General Members (7)

- **BP DSIRT** – *Singapore*
- **BruCERT** – *Negara Brunei Darussalam*
- **CERT-In** – *India*
- **GCSIRT** – *Philippine*
- **NUSCERT** – *Singapore*
- **SLCERT** – *Sri Lanka*
- **VNCERT** – *Vietnam*



# Objectives

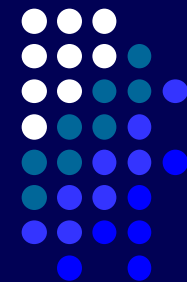


- Encourage and support regional and international cooperation on information security in the Asia Pacific region;
- Jointly develop measures to deal with large-scale or regional network security incidents;
- Facilitate info sharing and technology exchange, including info security, computer virus and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

- Assist other CSIRTs in the region to conduct efficient and effective computer emergency response capability;
- Provide inputs and/or recommendations to help address legal issues related to info security and emergency response across issues regional boundaries;

- Organize annual conference to raise awareness on computer security incident responses and trends.



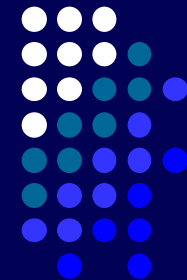



**Beijing 2008**

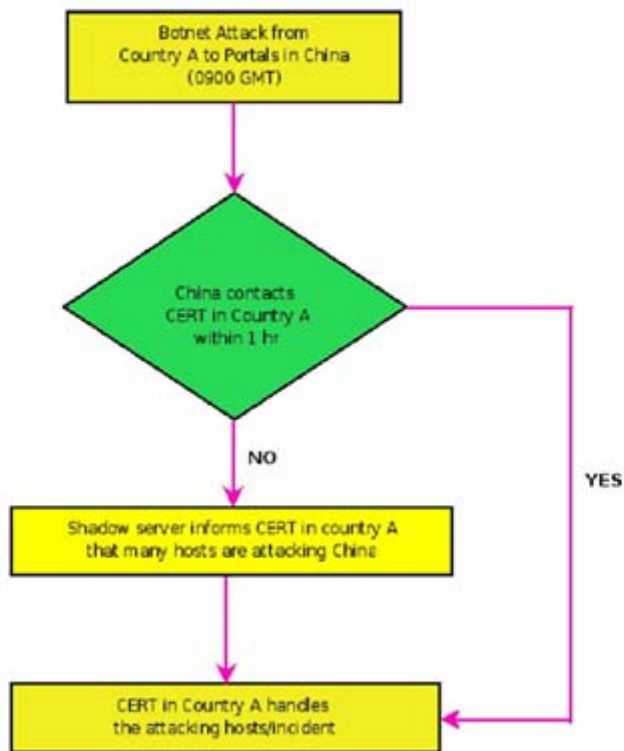
- **Date:** 22<sup>nd</sup> December 2007
- **Participation teams:**
  - Malaysia – MyCERT
  - Australia – AusCERT
  - Brunei – BruCERT
  - China – CNCERT
  - Singapore – SingCERT
  - Thailand – ThaiCERT
  - Hong Kong – HKCERT
  - India – CERT-In
  - Japan – JPCERT
  - Korea – KR CERT
  - Chinese Taipei – TWNCERT
  - Vietnam – BKIS

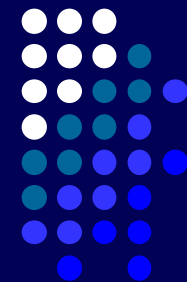
## Timeline

- **0700** Lord of Armageddon (LoA) declare cyber war on Beijing Olympics
- **0900** Co-ordinated botnet attacks from AP region causing media sites and government portals inaccessible
- **1100** Spam containing malware that turns PC into zombies were filling up mailboxes in AP economies
- **1300** Border and Core routers crashing and rebooting frequently. 0-day exploit for Cisco IOS rumoured to be available. Cisco promise to release fix in a few hours
- **1430** – Cisco released patch and advisory on critical IOS vulnerability
- **1600** – Security analysts announced that bots automatically removed themselves, no more attacks



# Scenario Handling



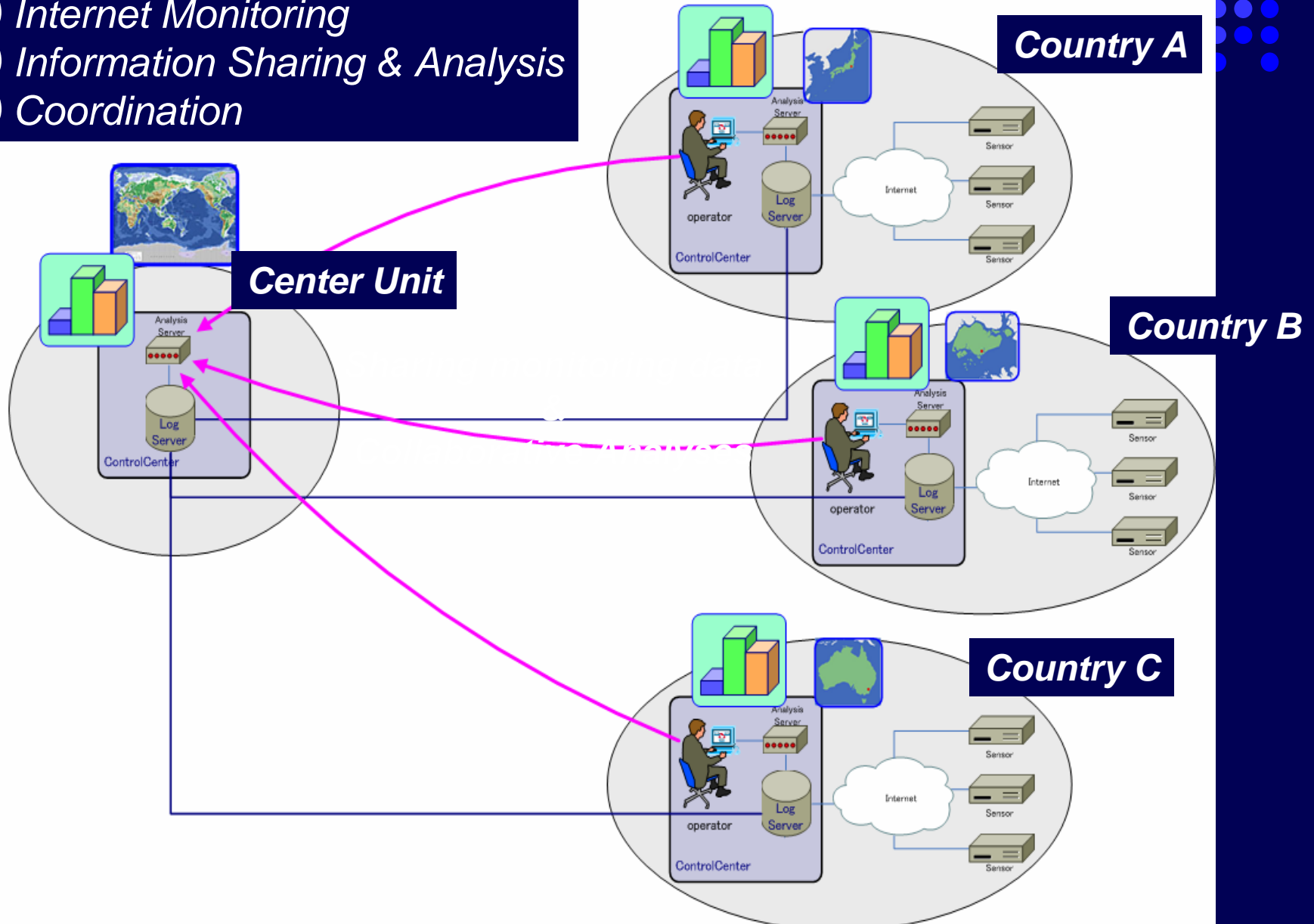


# Objectives

- Establish a common platform for Internet threat monitoring, information sharing & analyses in Asia-Pacific region.
- Promote collaboration among CSIRT in Asia-Pacific region by using the common platform.
- Enhance capability of global threat analyses by incorporating 3D Visualization features to the common platform



- (1) Internet Monitoring
- (2) Information Sharing & Analysis
- (3) Coordination



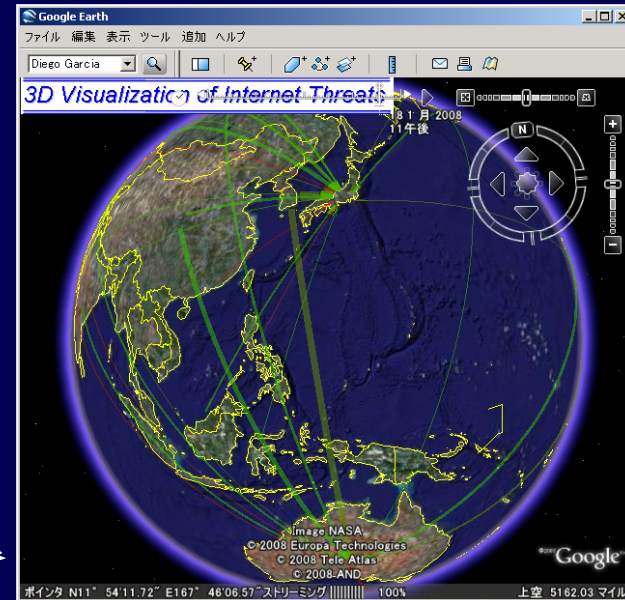
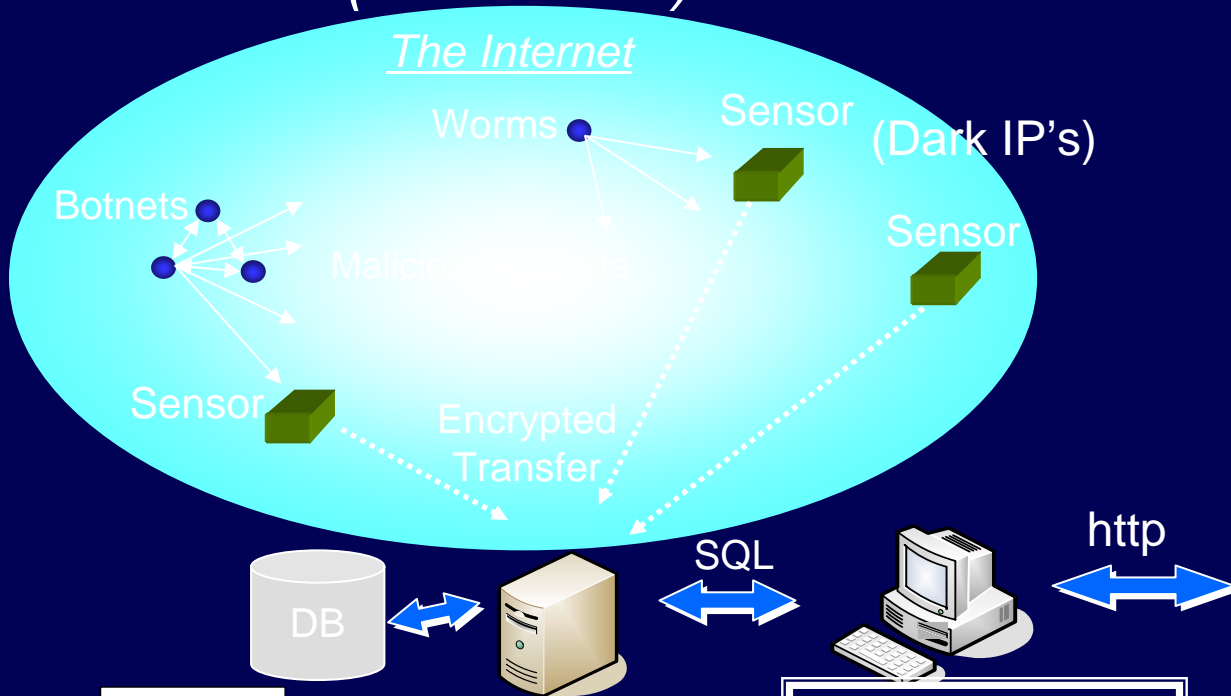


# System Overview



Cyber Space  
(IP address)

Geographical Space  
(Country-based)



```

mn128,may,13,05:40:11,111/tep
mn128,may,13,10:12:55,111/tep
mn128,may,13,10:13:04,111/tep
mn128,may,13,12:35:05,111/tep
mn128,may,13,20:25:27,111/tep
mn128,may,13,20:25:30,111/tep
    
```

Event Log  
Records

Event Log  
Database

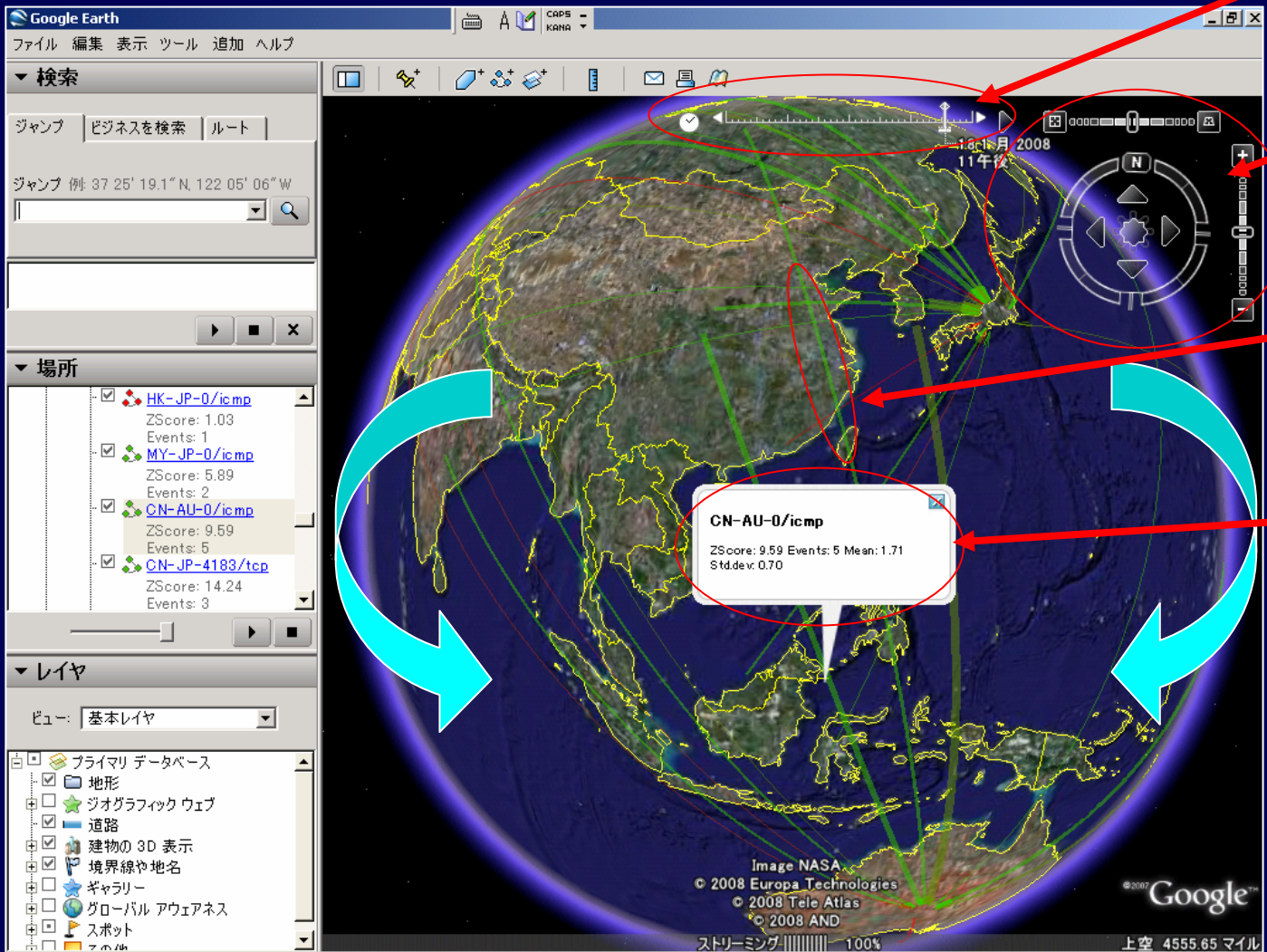
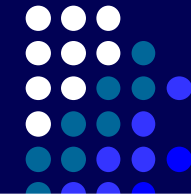
- (1) Secure
- (2) 24 × 7 Operation
- (3) Robust

Analysis &  
3D Visualization  
Server

- (1) Trend Analysis
- (2) Statistical Analysis
- (3) Threat Screening

3D Visualization Client  
(on GoogleEarth)

- (1) Flexible View
- (2) Manipulation
- (3) 3D Animation

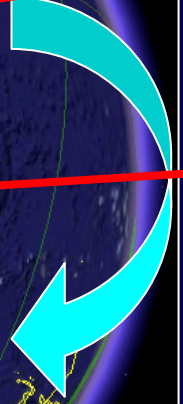
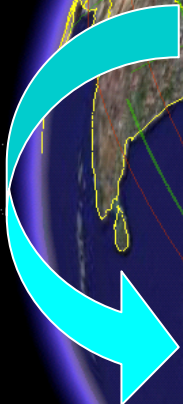


Animation Controller  
(Time-Slide Bar)

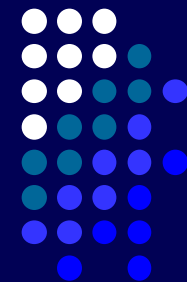
View Navigation  
Controller

Threat Status(Arrows)  
(1) Color: Threat Level  
(2) Width: Traffic

Threat data  
(1) Traffic  
(2) ZScore  
(3) Std.Dev

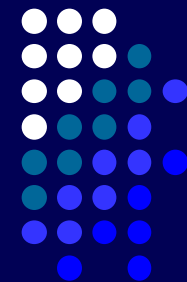


**CN-AU-0/icmp**  
ZScore: 9.59 Events: 5 Mean: 1.71  
Std.dev: 0.70



# ***APCERT Recent Activity Updates 1***

- **PacINET 2007, 14-22 August 2007, Solomon Islands**  
*<http://www.picisoc.org/tiki-index.php?page=Paclnet+2007>*
  - AusCERT interacted with Pacific Islanders', who are willing to start discussions about CERT capability developments.
- **ITU Regional Workshop, 28-31 August 2007, Hanoi, Vietnam**  
*<http://www.itu.int/ITU-D/cyb/events/2007/hanoi/>*
  - MyCERT, AusCERT, CNCERT/CC, JPCERT/CC attended the “Regional Workshop on Frameworks for Cybersecurity and Critical Information Infrastructure Protection”.
  - Indonesia and Mongolia are also willing to discuss CERT capability developments.



# *APCERT Recent Activity Updates 2*

- **APEC TEL 36, 21-26 October 2007, Santiago, Chile**

[http://www.apectel36.cl/prontus\\_apectel/site/edic/base/port/home.html](http://www.apectel36.cl/prontus_apectel/site/edic/base/port/home.html)

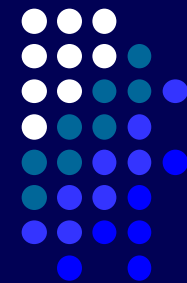
- CNCERT/CC, JPCERT/CC, KrCERT/CC, MyCERT attended the “Workshop on Cyber Security Exercises” and shared experience of the APCERT Incident Handling Drill.
- CNCERT/CC is forwarding a project on "Guide on Policy and Technical Approaches Against Botnets".

\* As a Security Expert Group, APCERT provides recommendation, situation awareness and trend to AP regional intergovernmental initiatives. APCERT is a General Guest of APEC TEL.

- **CICTE (Inter-American Committee Against Terrorism)**  
**5-9 November 2007, Miami, USA**

[http://www.cicte.oas.org/Rev/EN/Events/Cyber\\_Events/II\\_Workshop\\_MIAMI-2007.asp](http://www.cicte.oas.org/Rev/EN/Events/Cyber_Events/II_Workshop_MIAMI-2007.asp)

- MyCERT attended and had interactions with OAS (Organization of American States) and APWG (Anti-Phishing Working Group).



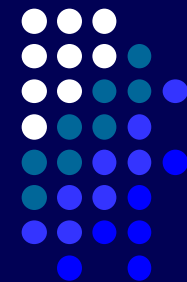
# ***APCERT Recent Activity Updates 3***

- **Visiting New CSIRTs in Asia Pacific**

- APCERT SC members visited several CSIRTs and relevant government departments, to support and cooperate in incident handling and information sharing.

- **Other International Relationships & Engagements**

- FIRST Director & SC Member: Yurie Ito, JPCERT/CC
- APEC TEL SPSG Deputy Convenor: Jinhyun Cho, KrCERT/CC



# ***APCERT Recent Activity Updates 4***

- **APCERT AGM & Conference 2008, 10-12 March 2008**

*<http://apcert2008.hkcert.org/>*

**InterContinental Grand Stanford Hong Kong**

**Hosted by HKCERT**

- *The 7<sup>th</sup> APCERT Annual Conference, providing a valuable opportunity for APCERT Teams, CSIRTs of the AP region, and other closely related organizations to come together and share different experiences, perspectives and best practices on information security.*
- *Most importantly, it provides an opportunity to help improve Internet security throughout the Asia Pacific and beyond, through cross border cooperation and information sharing.*

# Thank you

**APCERT General Contact:**  
**[apcert-sec@apcert.org](mailto:apcert-sec@apcert.org)**

**APCERT Website:**  
**<http://www.apcert.org>**

