Network Monitoring & Web Portal Site Project in AP region Arnold Yoon, KrCERT/CC (snyoon@certcc.or.kr) Yurie Ito, JPCERT/CC (yito@jpcert.or.jp)

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Agenda

- Security Incidents Trend
- Why Network Monitoring?
- Activities in Japan/Korea
- Data sharing (Using IODEF)
- WEB Portal Site & Early Warning System
- Conclusion
- Q&A

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Security Incidents Trend

- Before 2001, most attacks were system based attacks. (Eg. Sadmind)
- These days, most attacks are targeted to network utilization. (Eg. MS Slammer, DDoS)
- Also, most attacks are generated from the thousands of end-users' system.
- Major concern is the HARMNESS(or EFFECTS) ON THE NETWORK INFRASTRUCTURE.
- Before major attacks we observe some ABNORMAL SYMPTOMS ON THE NETWORK. (Eg. Sasser Worm)

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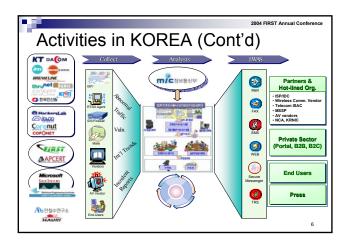
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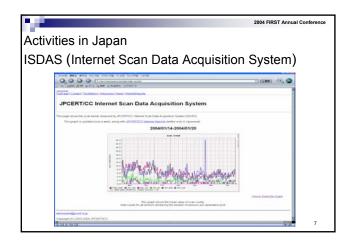
Why Network Monitoring?

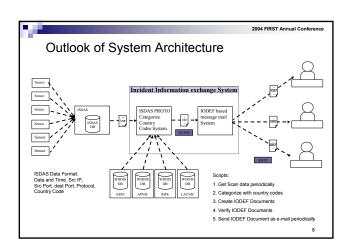
- To catch & predict the symptom of major attacks in a step advance by monitoring the statistics of network traffic.
- By prediction, <u>provide the Early Warning Service.</u>
- By Early Warning Service, Minimize the Damage.

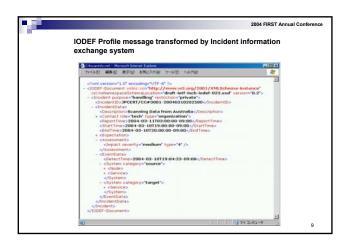
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Data sharing (using IODEF)

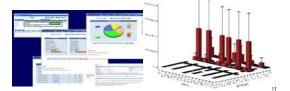
- For a larger view of network traffic, data collector in various location is essential.
- Type of sensor does NOT have to be defined.
 Format of data exchanging MUST be defined.
- Japan and Korea is exchanging data based on IODEF & IODEF additional fields

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WEB Portal Site & Early Warning System

 Based on exchanged data, the WEB portal site shows the graph of network traffics.
 (Eg. Top attack ports, Abnormal increase of traffic)



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Conclusion

- To provide Early Warning Service & minimize the effect of major incidents, network monitoring and data sharing is the major factor of PREDICTION, DETERMINATION & ANALYSIS.
- As many volunteers for this project will improve the effectiveness and value of the WEB portal site data.
- WEB portal site could have the value which indicates the activity & trends in each region.

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Q&A	
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