
Introduction of the NICTER project

Cybersecurity Laboratory
Cybersecurity Research Institute (CRI)
National Institute of Information and Communications Technology (NICT)



Overview of the project NICTER



NICTER = Network Incident analysis Center
for Tactical Emergency Response

Objective

Comprehensive analysis of security threats on the Internet

- What happens on the Internet?
- What is the root cause?

Approach

Network monitoring
+
Malware analysis

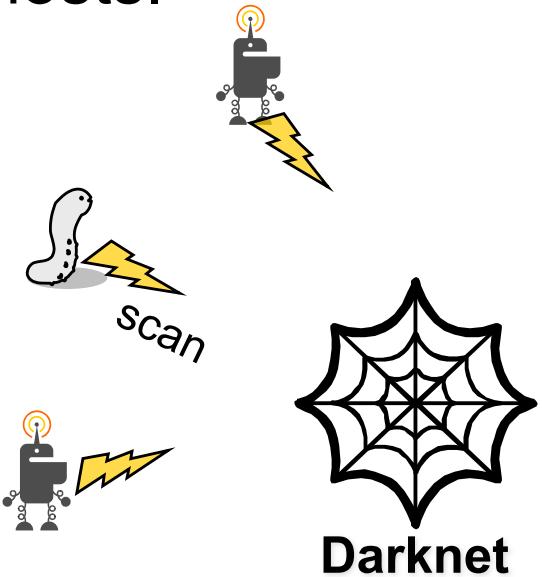


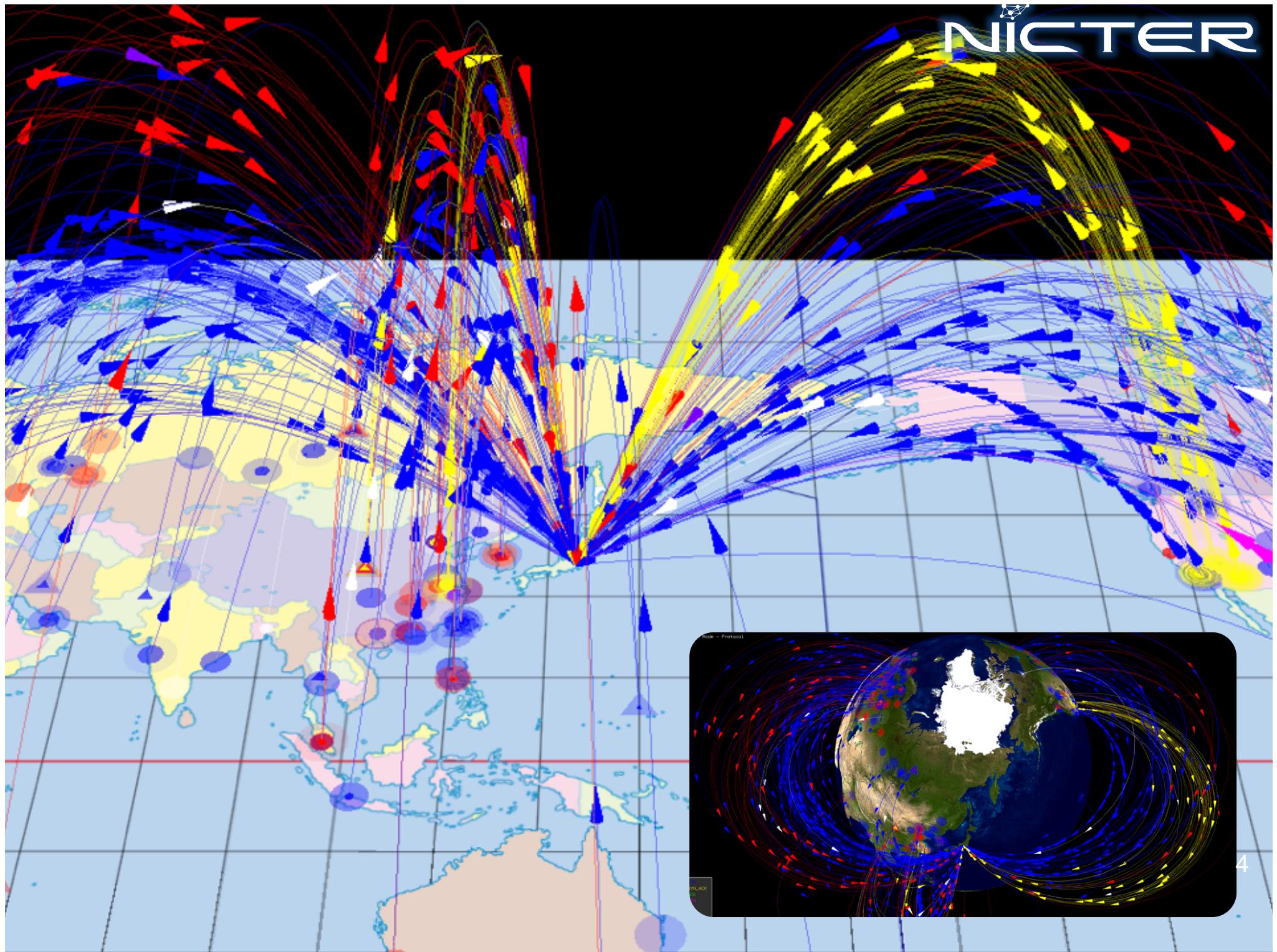
NICTER

Network Incident
Analysis Center
for Tactical
Emergency Response

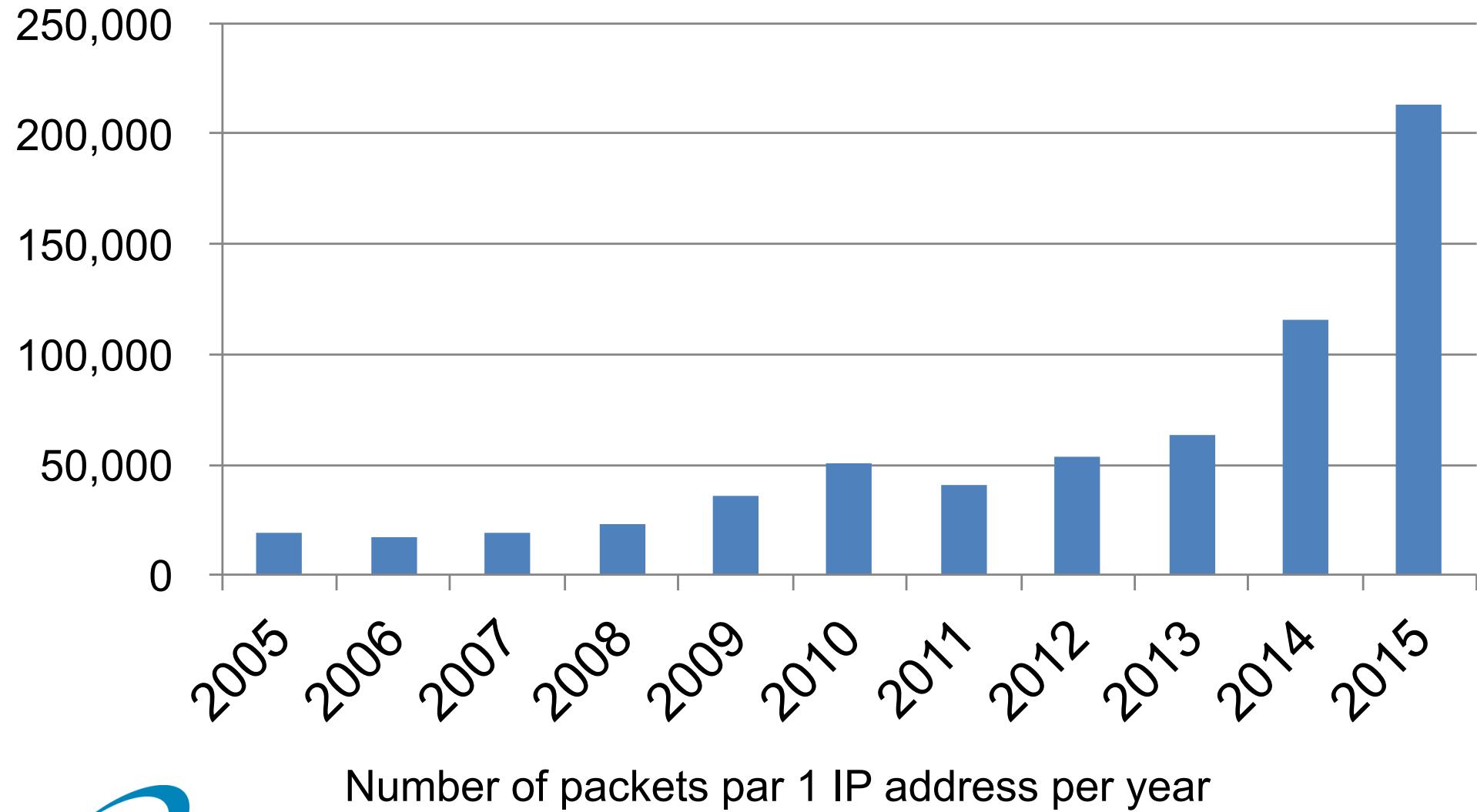
What is Darknet?

- **Darknet**: Unused IP addresses space
- In theory: any packets should NOT arrive at the darknet because they are not connected to any hosts.
- In fact: quite a few packets DO arrive!
- Packets arriving at the darknet are...
 - Scans by malwares
 - Backscatter (reflection of DDoS attack)
 - Mis configurations etc.
- Darknet traffic reflects global trend in malicious activities on the Internet.





Yearly Stats of Darknet Traffic



Username:

Password:

HUAWEI HG8245 [English] [中文]

Account:

Password:

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嵌入式電話錄音主機WEB管理系統
→ V1.0

設備IP地址

用戶名稱 密碼

主端口 FTP端口

pandora
BUSINESS SUITE

Java Application



Web Application



※横浜国大による調査

pandora
BUSINESS SUITE

Pandora Business Suite is powered by Asterisk and Oracle.
Copyright © 2012-2014 PMS Solutions Inc.

Составные части	Описание
Домашний	Пакет беспроводной сети
SSD	Карта
Канал	Безопасность
Соединение	Система WAN
Онлайн	Онлайн
Мониторинг	Мониторинг

Примечание

RouterOS v5.22

You have connected to a router. Administrative access only. If this device is not in your network.

WebFig Login:

Login:
Password:



Login

Login

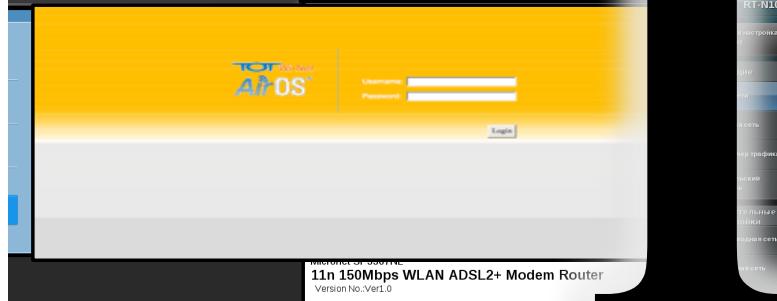
Password

Save login and password



Record System Copyright2008

IP: 107.190.198.86
 Username:
 Password:



11n 150Mbps WLAN ADSL2+ Modem Router
Version No.:Ver1.0

Status
Network
Wireless

Connect Status :
VP/VCI Settings
Country:
ISP:
VPI:
VCI:
PPPOE User Name:
PPPOE Password:
Key:



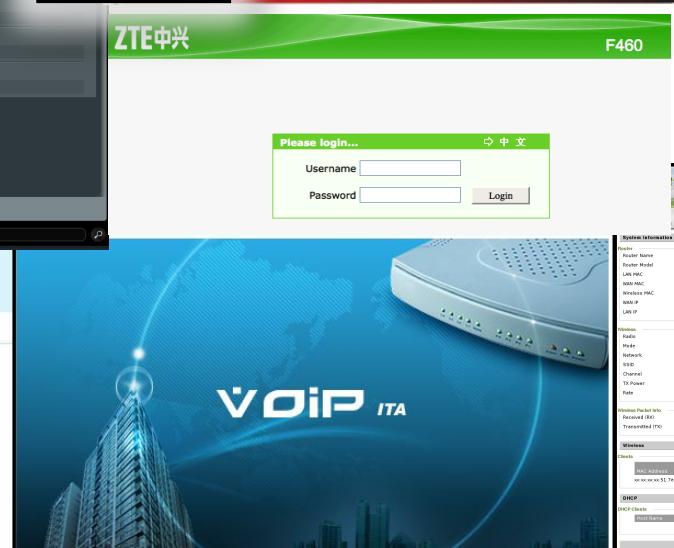
User Name : Admin
Password :



Welcome To Streamyx Conn
Setup

Login :
Password :

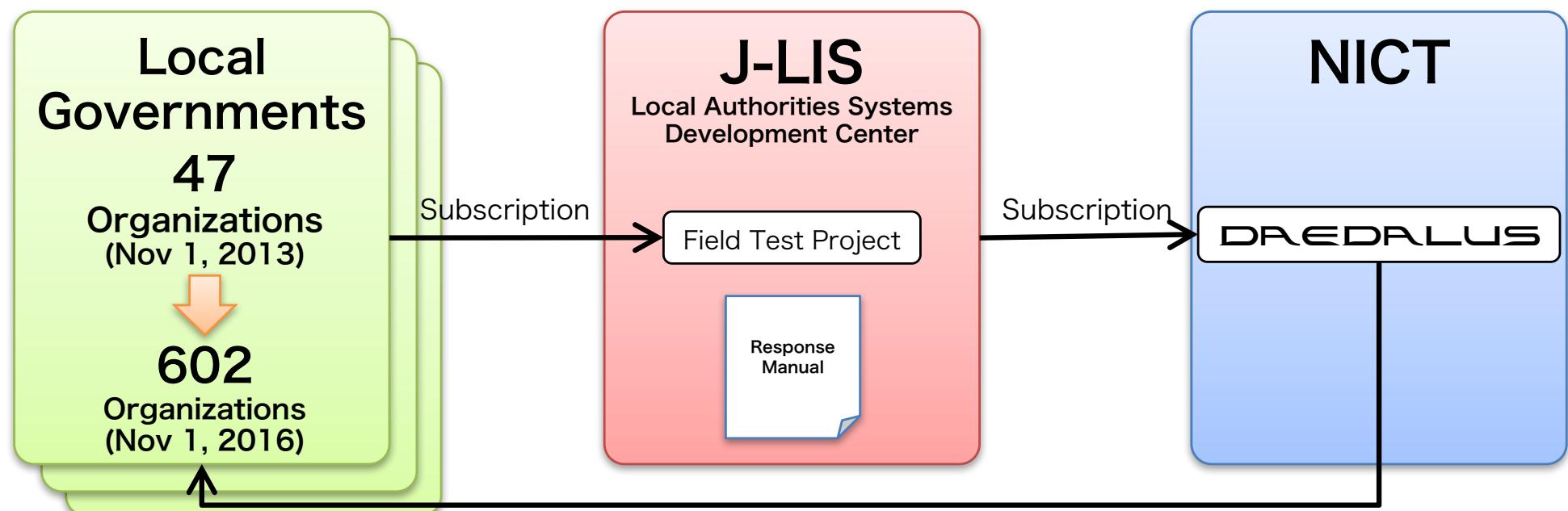
Modem model: ADSL-RIGER-DB120WL
Should you require further assistance please contact our Support Center at '100' or email to help@tm.com.my



DREDALUS for Local Gov.

DREDALUS has started to provide alerts to local governments in Japan (free of charge).

- ✓ From Nov. 1, 2013.
- ✓ Started with 47 local governments.



DREADALUS for ASEAN

JASPER: security partnership between Japan and ASEAN initiated by the Ministry of Internal Affairs and Communications (MIC) since 2013.

