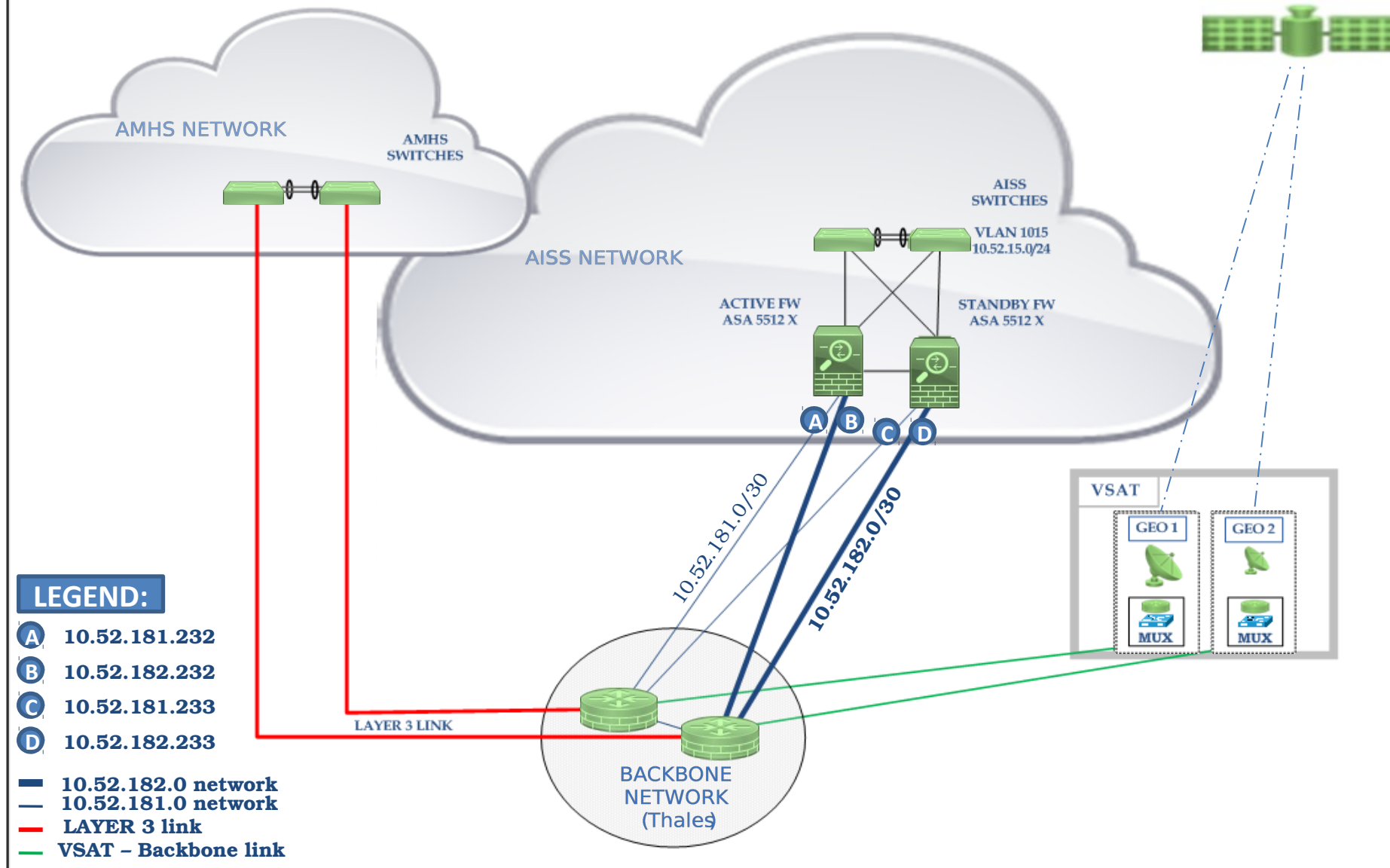
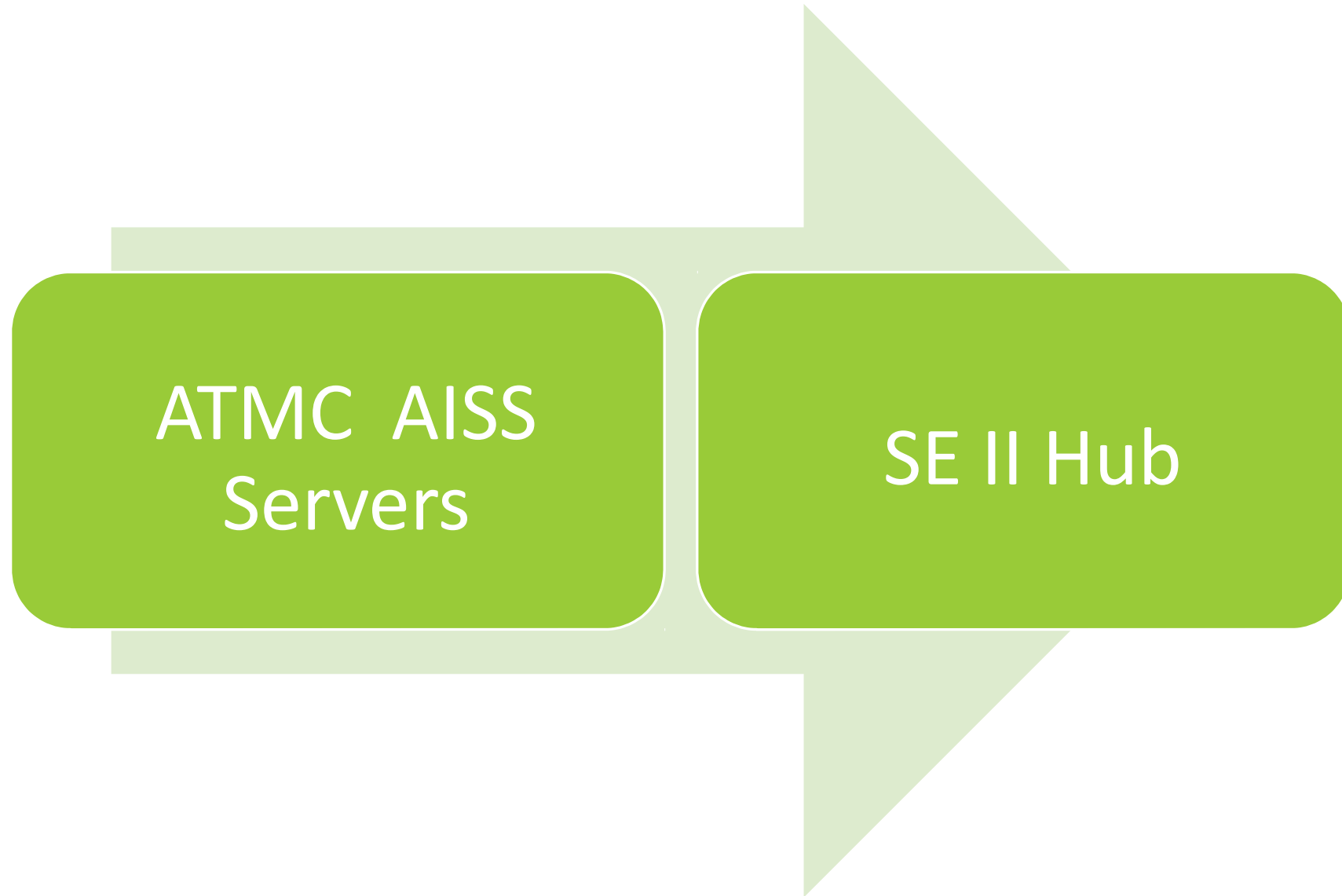


# Introduction to AISS

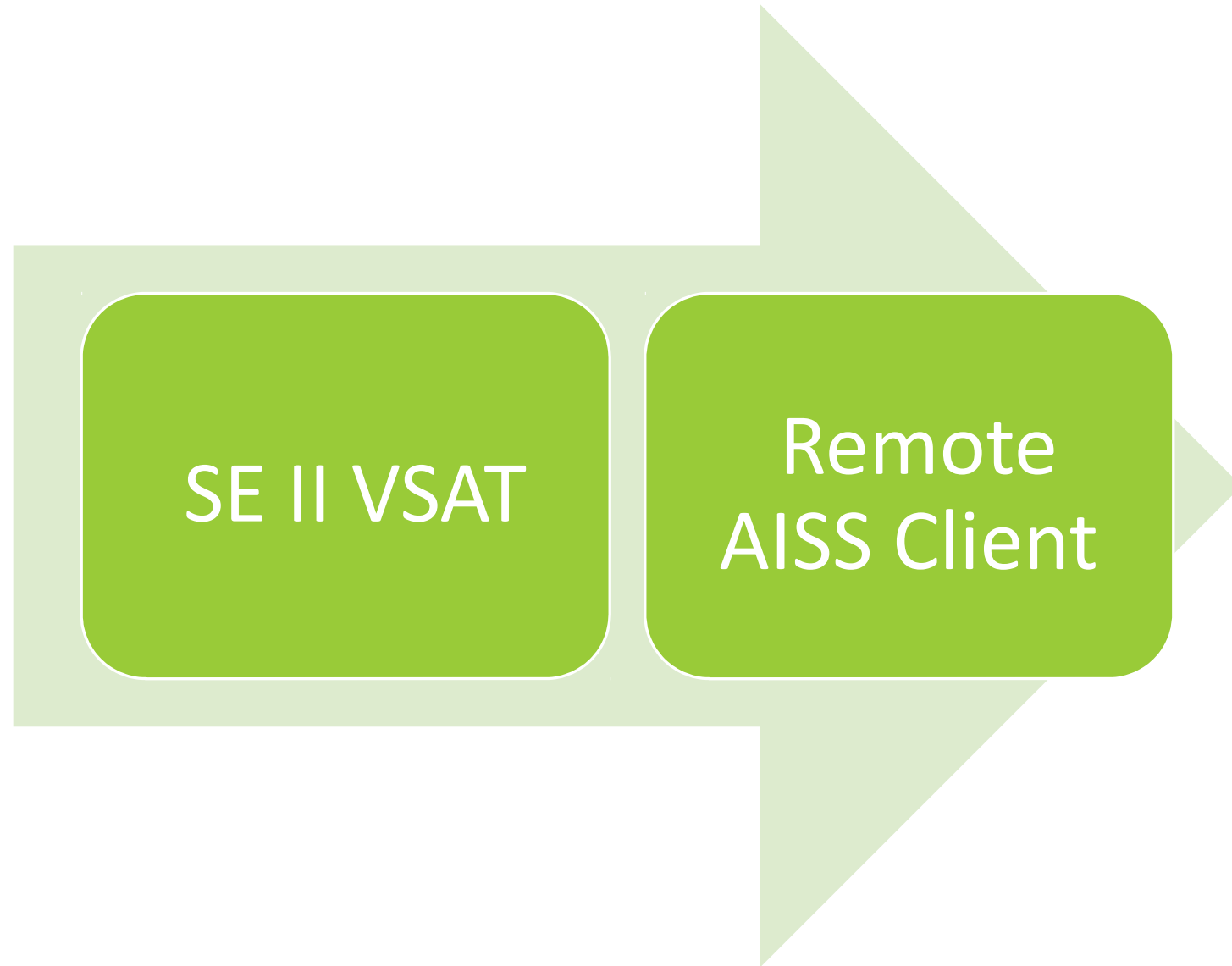
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# AISS/AMHS NETWORK

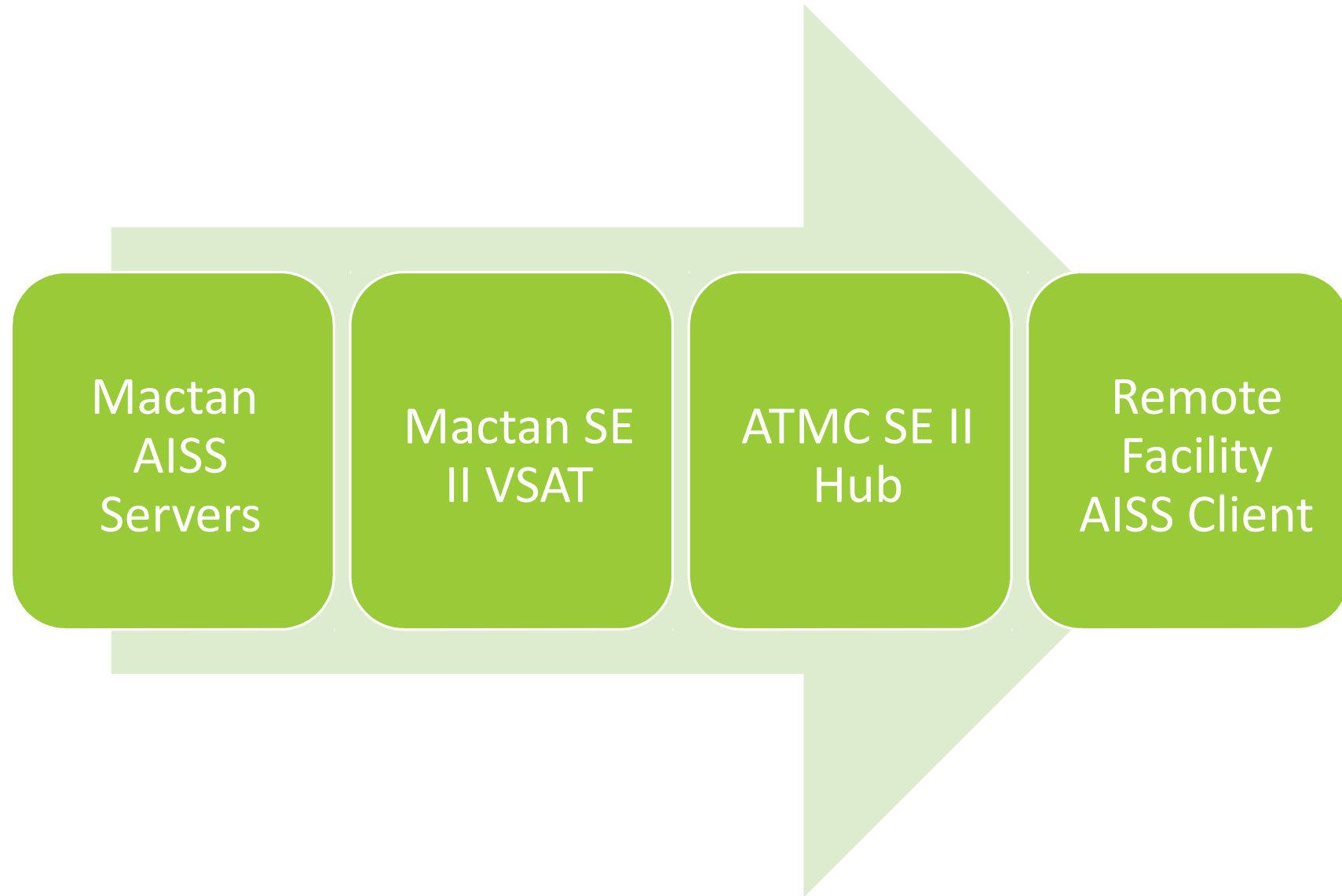




# Remote Facilities



# Disaster Recovery



# AISS Overview

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# AISS (Aeronautical Information Service System)

- Static Data Operations
- International NOTAM Management
- Flight Plan Management
- Message Handling System
- AIP / Charting Production

➤ AISS Operational System (Manila):

Operational environment for static and dynamic data management, provided by the applications

- smartINMO / INO (NOTAM, FPM)
- smartDM / SDO
- smartAIP/Charting

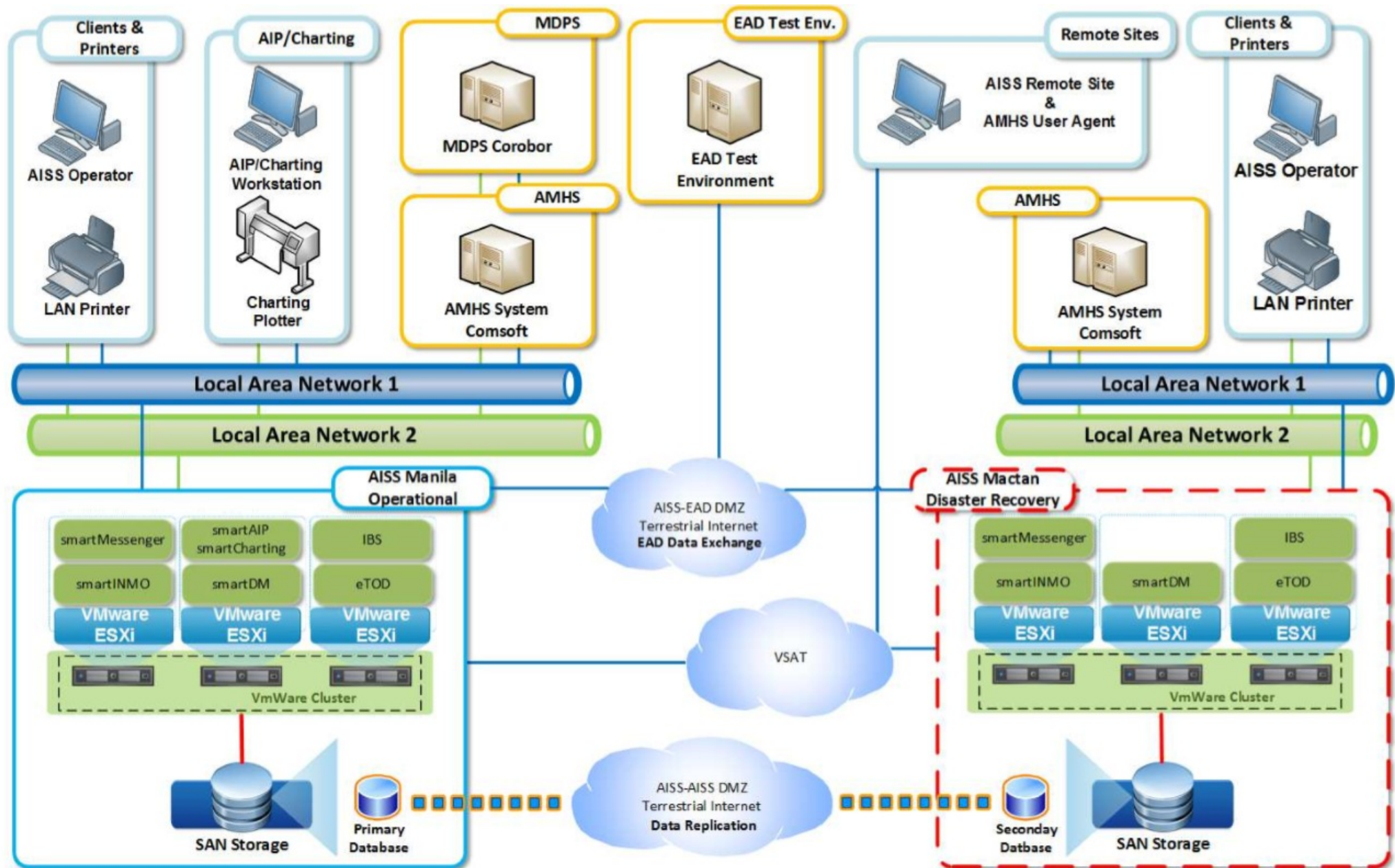
➤ AISS Disaster Recovery System (Mactan):

Identical to the Operational System and serving as a Disaster Recovery system. Data from the AISS Operational System is replicated onto the AISS Disaster Recovery system.

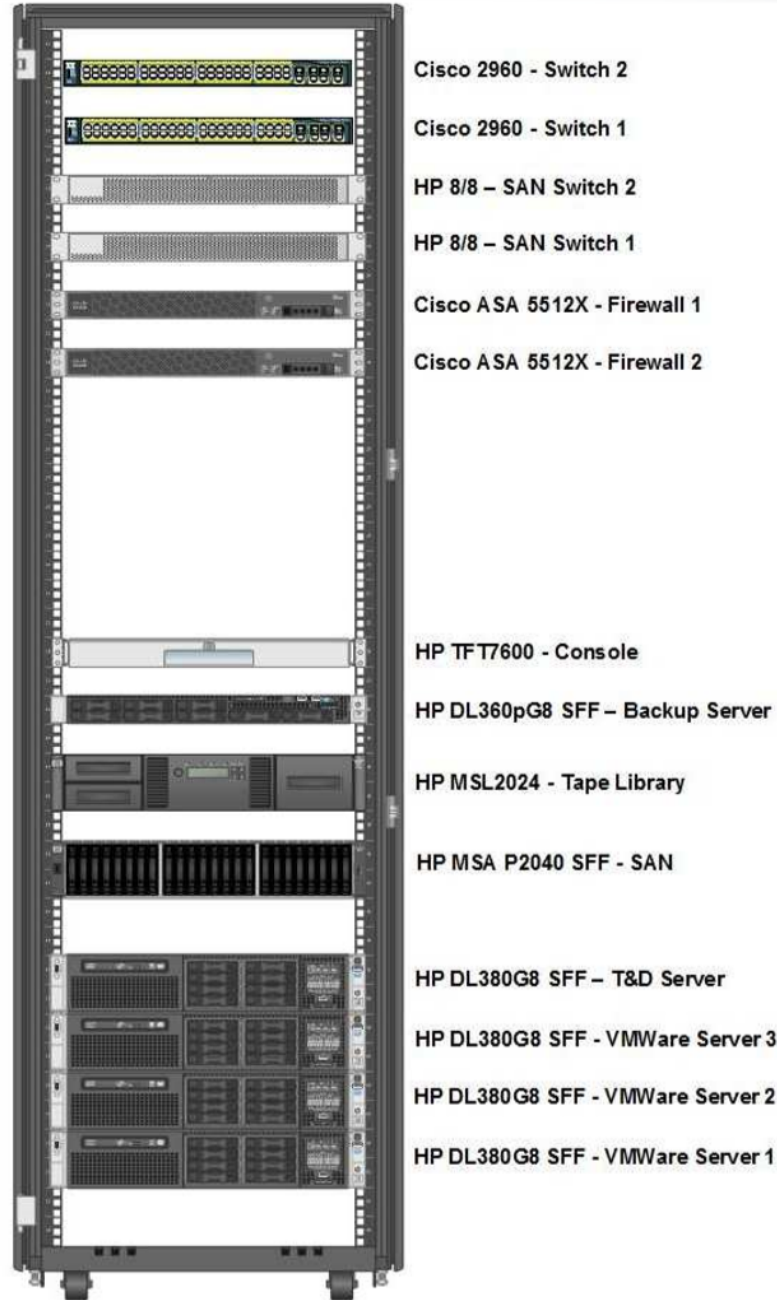
➤ Test & Development System:

A separate VmWare Server with similar functionalities of the AISS Operational System, serving as a training facility and as a test bed for testing, evaluation and management of system modifications and software updates prior to operational release for smartINMO and smartDM





# AISS Server Rack

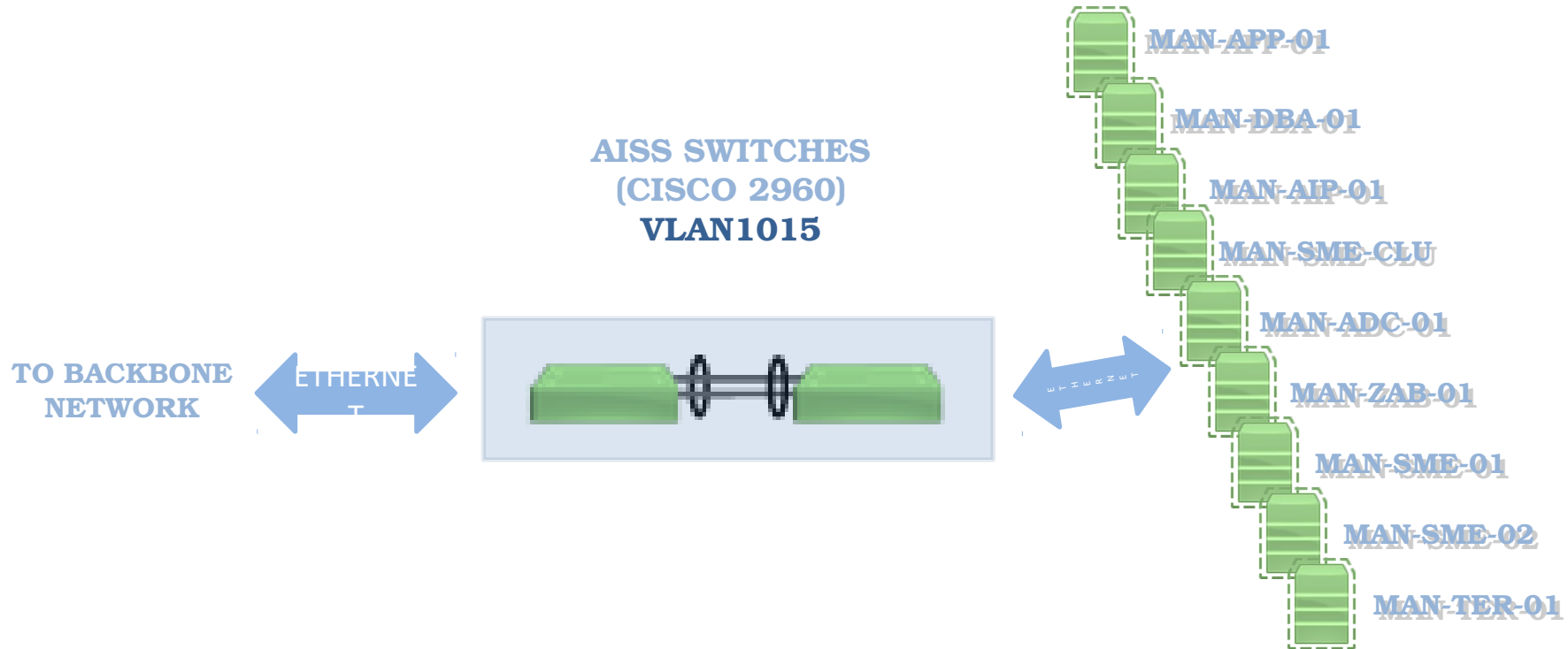




Server	OS
...-esx-0X	VMware 5.5

- VMware is mainly used within the smartAIM system to virtualize servers to save physical space and resources.
- smartAIM solution uses the following virtualization technologies:
  - ESXi as an operating system installed on the physical servers.
  - vCenter for managing the ESXi cluster.
  - vSphere Client for access and administration of the cluster.

# AISS NETWORK





# Microsoft DNS Server Overview

**Manila is operational:**

Alias	Target
prod.vead01.aiss.caap.gov.ph	man-dba-01.aiss.caap.gov.ph
prod.vead02.aiss.caap.gov.ph	man-app-01.aiss.caap.gov.ph
prod.vead03.aiss.caap.gov.ph	man-app-01.aiss.caap.gov.ph

**Mactan is operational:**

Alias	Target
prod.vead01.aiss.caap.gov.ph	mac-dba-01.aiss.caap.gov.ph
prod.vead02.aiss.caap.gov.ph	mac-app-01.aiss.caap.gov.ph
prod.vead03.aiss.caap.gov.ph	mac-app-01.aiss.caap.gov.ph

Application	Ports
smartAIM App.	8888, 7777
smartAIM DB	1521,2507
smartMessenger	102
smartAIP and Charting App.	80
smartAIP and Charting DB	7033

## smartAIM Package Overview

- The pocjp1 package contains the java applications (vead03:8888).
- The pfrmp1 package contains the forms and reports applications (vead02:7777).

### URL Examples:

- <http://prod.vead02.aiss.caap.gov.ph:7777>
- <http://prod.vead03.aiss.caap.gov.ph:8888>



VLAN	IP Address Range Manila	IP Address Range Mactan
VLAN 1015 – Public	10.52.15.0/24	10.46.15.0/24
VLAN 1016 – Client	10.52.16.0/24	10.46.16.0/24
VLAN 1017 – Cluster	10.52.17.0/24	10.46.17.0/24
VLAN 1018 – Management	10.52.18.0/24	10.46.18.0/24
VLAN 1019 – Backup	10.52.19.0/24	10.46.19.0/24
VLAN 1184 – Client	10.52.184.0/24	10.46.184.0/24

## MANILA ATMC AISS Servers

VLAN	Host Name	Component	Location	IP Address				Mask	Default Gateway			
1015	MAN-APP-01	VM	Comms Equipment Room (ATMC)	10	52	15	21	/24	10	52	15	254
1015	MAN-DBA-01	VM	Comms Equipment Room (ATMC)	10	52	15	22	/24	10	52	15	254
1015	MAN-AIP-01	VM	Comms Equipment Room (ATMC)	10	52	15	23	/24	10	52	15	254
1015	MAN-SME-CLU	VM	Comms Equipment Room (ATMC)	10	52	15	24	/24	10	52	15	254
1015	MAN-ADC-01	VM	Comms Equipment Room (ATMC)	10	52	15	25	/24	10	52	15	254
1015	MAN-ZAB-01	VM	Comms Equipment Room (ATMC)	10	52	15	26	/24	10	52	15	254
1015	MAN-SME-01	VM	Comms Equipment Room (ATMC)	10	52	15	27	/24	10	52	15	254
1015	MAN-SME-02	VM	Comms Equipment Room (ATMC)	10	52	15	28	/24	10	52	15	254
1015	MAN-TER-01	VM	Comms Equipment Room (ATMC)	10	52	15	29	/24	10	52	15	254
CLUSTER LAN												
VLAN	Host Name	Component	Location	IP Address				Mask	Default Gateway			
1017	MAN-ESX-01-CLU	ESXi Physical Server	Comms Equipment Room (ATMC)	10	52	17	61	/24	10	52	17	254
1017	MAN-ESX-02-CLU	ESXi Physical Server	Comms Equipment Room (ATMC)	10	52	17	62	/24	10	52	17	254
1017	MAN-ESX-03-CLU	ESXi Physical Server	Comms Equipment Room (ATMC)	10	52	17	63	/24	10	52	17	254
EXTERNAL IBS												
Public		External IBS	Internet	122	53	177	136					

External IBS: <http://122.53.177.136/fwf-caap>

## MACTAN AISS (Disaster Recovery) Servers

VLAN	Host Name	Component	Location	IP Address				Mask	Default Gateway			
1015	MAC-APP-01	VM	Mactan FSS Equipment Room	10	46	15	21	/24	10	46	15	254
1015	MAC-DBA-01	VM	Mactan FSS Equipment Room	10	46	15	22	/24	10	46	15	254
1015	MAC-AIP-01	VM	Mactan FSS Equipment Room	10	46	15	23	/24	10	46	15	254
1015	MAC-SME-CLU	VM	Mactan FSS Equipment Room	10	46	15	24	/24	10	46	15	254
1015	MAC-ADC-01	VM	Mactan FSS Equipment Room	10	46	15	25	/24	10	46	15	254
1015	MAC-ZAB-01	VM	Mactan FSS Equipment Room	10	46	15	26	/24	10	46	15	254
1015	MAC-SME-01	VM	Mactan FSS Equipment Room	10	46	15	27	/24	10	46	15	254
1015	MAC-SME-02	VM	Mactan FSS Equipment Room	10	46	15	28	/24	10	46	15	254
1015	MAC-TER-01	VM	Mactan FSS Equipment Room	10	46	15	29	/24	10	46	15	254

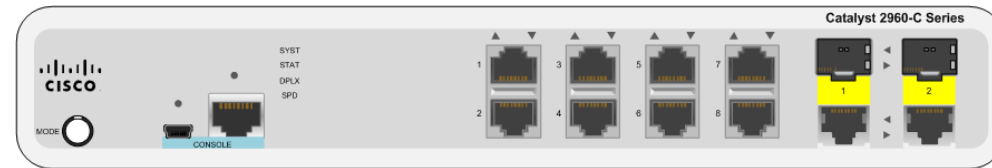
CLUSTER LAN												
VLAN	Host Name	Component	Location	IP Address				Mask	Default Gateway			
1017	MAC-ESX-01-CLU	ESXi Physical Server	Mactan FSS Equipment Room	10	46	17	61	/24	10	46	17	254
1017	MAC-ESX-02-CLU	ESXi Physical Server	Mactan FSS Equipment Room	10	46	17	62	/24	10	46	17	254
1017	MAC-ESX-03-CLU	ESXi Physical Server	Mactan FSS Equipment Room	10	46	17	63	/24	10	46	17	254

### **CISCO 2960 SWITCHES:**

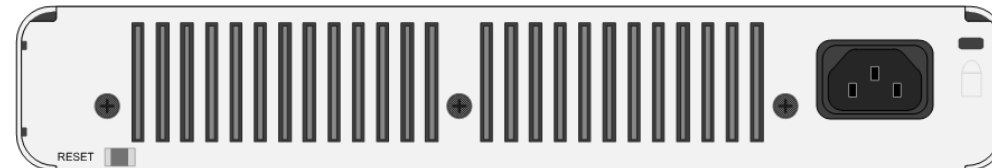
- ☐ **Two Cisco 2960 switches were installed in full redundancy.**
  - **MAN-SWI-01**
  - **MAN-SWI-02**
  
- ☐ **VLAN 1015 was configured for the ports connecting the AISS Virtual Machines**

## CISCO 2960 SWITCHES:

### FRONT VIEW



### REAR VIEW

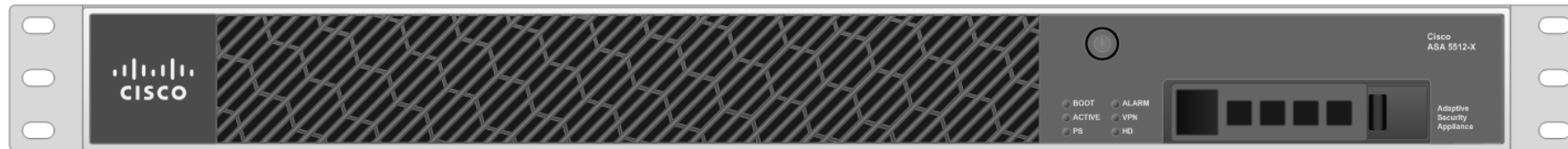


### **CISCO 5512-X FIREWALL:**

- ☐ **Two Firewalls are installed in between AISS switches and Backbone routers**
  - **MAN-FWL-01**
  - **MAN-FWL-02**
- ☐ **MAN-FWL-01 is active**
- ☐ **MAN-FWL-02 is standby**

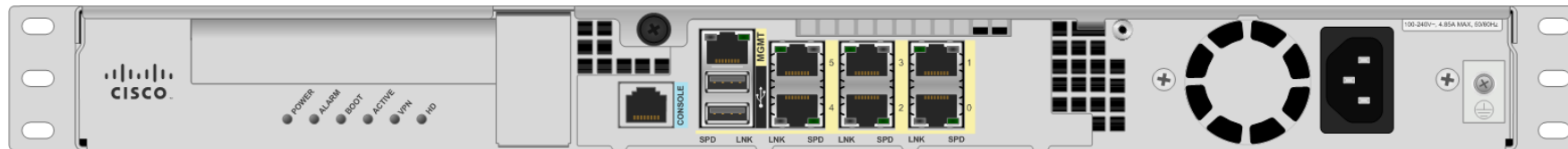
## CISCO 5512-X FIREWALL:

### FRONT VIEW



**MAN-FWL-01 – active**  
**MAN-FWL-02 – standby**

### REAR VIEW



## TACLOBAN AISS/AMHS Client

VLAN	Host Name	Component	Location	IP Address				Mask	Default Gateway				Notes
1016	TC-WKS-01	AISS Workstation w/ AMHS UA	Tacloban Tower	10	78	16	20	/24	10	78	16	254	Connected to Skyedge II VSAT IDU Port 3 (GEO1)
1016	TC-PRN-01	A3/A4 Color Printer	Tacloban Tower										Connected via USB

- ❑ To access the *smatAIM package applications*, type in the following URL or web address on the browser of your choice:
  - <https://prod.vead03.aiss.caap.gov.ph:8888>
  - <https://prod.vead02.aiss.caap.gov.ph:7777>
- ❑ Or click the readily available shortcut link icon on the Desktop or browser.




# IBS Login Window

Internet Briefing - Mozilla Firefox

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Internet Briefing x +

https://aiss.caap.gov.ph/fwf-caap/public/user/account/login.faces



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You are here ▶ Login here

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[Reset password](#)

[Change Password](#)

[Terms and Conditions](#)

**User Name (case sensitive) \***

**Password (case sensitive) \***

I have read and understood the [Terms and Conditions](#) and I wish to continue

Remember my login details ☐ \*\*

Login

\* All fields marked with an asterisk must be completed

\*\* Please note: Cookies must be enabled on your Web Browser so that you can use this feature. A cookie will be stored on your computer containing user name and password.

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# Summary

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