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MYANMAR

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1. Status of system(Message Switching System)

- Dec 2019 -Upgraded of GTS/WIS
- 2023 -Yangon- Nay pyi Taw link immigration from old circuit to new circuit
- Nay Pyi Taw – New Delhi link upgrade to WMO – FTP
- Feb,2025 -connection test successful with New WIS system of GISC TOKYO

Fund : JICA support

Service level by system supplier : 24/7, day time only, etc.

Application on the MSS : Oriental Electronics.INC, JAPAN

1. Upgrade of WIS/GTS in Dec 2019

Legend:

- Forecasting PC with SATAID
- GTS Information Systems
- Satellite Reception Systems

Network Diagram Details:

- Yangon International Airport:** Includes a Forecasting PC-4, Color Printer, and other users/organizations.
- DMH Yangon:** Contains Data Entry PC-3, Forecasting PC-3, Sub MSS Processor, and Color Printer.
- DMH Nay Pyi Taw:** Features a 2.4m HimawariCast Reception Antenna, Himawari 8/9 Satellite Rx System, Domestic MSS Servers, SATAID PCs, Forecasting PC-1,2, and Data Entry PC-1,2.
- External/Internal Users:** Includes Seismic & Tsunami Data Center and other users/organizations.
- Central Infrastructure:** Commercial Internet, GTS MSS Servers, and GTS Message Switch System.
- Connections:**
 - VPN links connect DMH Yangon, DMH Nay Pyi Taw, and External/Internal Users to the Commercial Internet.
 - FTP links connect DMH Yangon, DMH Nay Pyi Taw, and External/Internal Users to the Commercial Internet.
 - WMO GTS Link over VPN connects DMH Yangon to GTS MSS Servers.
 - WIS Links over VPN connect DMH Yangon to GTS MSS Servers.
 - HimawariCast Data flows from the satellite to Domestic MSS Servers.
 - Observation Data flows from Domestic MSS Servers to Forecasting PC-1,2.
 - SATAID Products flow from Domestic MSS Servers to SATAID PCs.
 - GTS/WIS Data flows from GTS MSS Servers to Domestic MSS Servers.

1. Network connection to international

Country	Protocol	Data
Japan	WMO FTP Himawari cast	SYNOP, CLIMATE, FORECAST, TEMP.PLOT Himawari-8 & 9, NWP (JMA-GSM), Observation (SYNOP, TEMP, SHIP)
Thailand	WMO FTP	SYNOP, CLIMATE, FORECAST, TEMP, PLOT
India	WMO FTP	SYNOP, CLIMATE, FORECAST, TEMP, PLOT
China	CMA-cast	CMA-cast satellite data

2. Challenges of the current system/network

- life time six years(2019 - 2025)
- limited budget to implement WIS 2.0
- Human resource shortage
- sometime internet connection unstable

3. Participation to activities or events related to WIS2.0

-WIS 2.0 Introduction to Industry WMO -on line (22 June 2022)

-WIS 2.0 JMA workshop on line (17-19 ,January 2022)

-WIS 2.0 survey questionnaires' from JMA (Feb,2025)

-WIS 2.0 Training Workshop (15-19 Sep ,2025) Quanzhou, china

4.Challenges of the WIS 2.0 of system/network

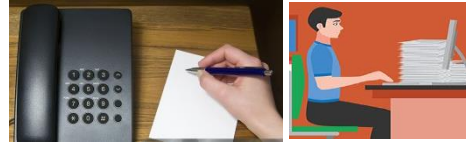
- WIS2.0 does not yet implement currently.

4.Challenges of Data Collection and Processing Systems

Data Collection & entry manually

Manual observation
24 stations

phone

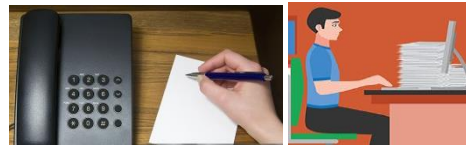


upper Myanmar office
Mandalay

internet

Manual observations
27 stations

phone



Lower Myanmar office
Yangon

internet

Data transmission system



Message switching
system.

51
stations

GTS

Head office(Nay Pyi Taw)



X
158 stations

AWS stations (JICA,)

Storage server(JICA)

AWS stations (Korea)

Storage server(Korea)

AWS stations (IRM)

Storage server(IRM)

webpage(JICA)

webpage(Korea)

webpage(IRM)

Data
integration

(Local use)

5.Expectation to JMA

- If WIS 2.0 will implement ,use the same current system

-We have a new pc available for WIS 2.0 implement

Dell optiPlex 3090 (window based)

Processor - Acceleration Use Only Intel® Core™ i5-10505

Memory - 4 GB, 1 x 4 GB, DDR4

Hard Drive -3.5 inch 1TB 7200 RPM Hard Disk Drive, 64 MB cache

-Request to technical support to connect the existing system for WIS 2.0 implement.

Thank you