

Country (Bangladesh)
Status of the
information systems & operations
at Bangladesh Meteorological
Department(BMD)

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JMA WIS Workshop
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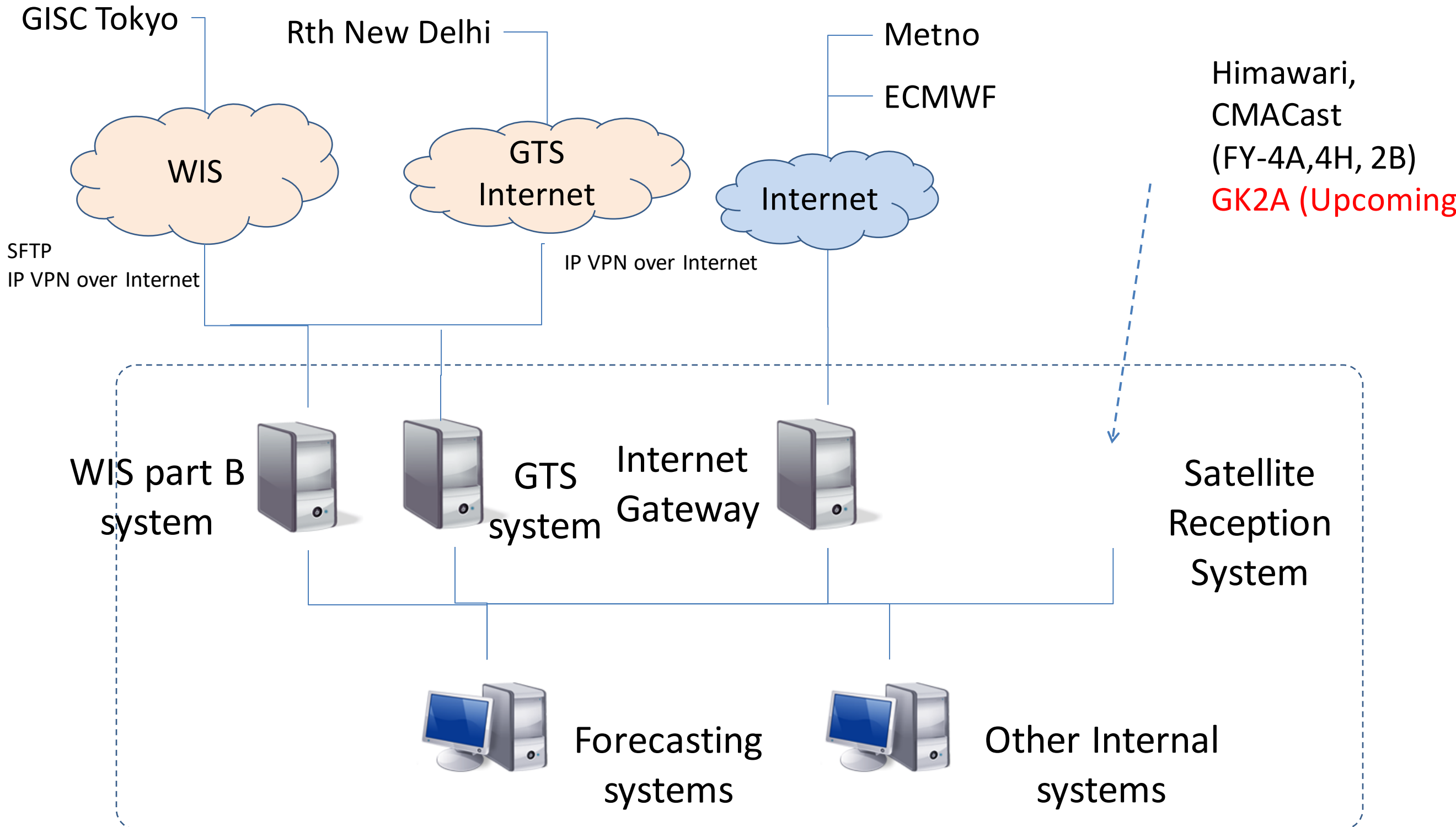
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 - c. Data provision to GTS/WIS



1. System/network configuration



2. Internet tools

- Tools for day-to-day operation
 - JMA SATAID
 - <https://www.wis-jma.go.jp/cms/sataid/>
 - ECMWF forecast charts and data
 - <https://www.ecmwf.int/en/forecasts>
 - JAXA GSMaP
 - <https://sharaku.eorc.jaxa.jp/GSMaP/>
 - Metno Graphical Forecast
 - <https://Wr.no/>
 - Earth Wind Map
 - <https://earth.nullschool.net/>

3. Utilize Internet Services

- Providing information to public
 - BMD web on Cloud
 - Disaster mitigation via BMD web
 - <https://www.bmd.gov.bd>

4. Plans, Issues etc.

- Changes/progress in last three years
 - GTS system was replaced in June 2019
 - Link was established via IP VPN over Internet with Rth New Delhi
 - Re established SFTP links via the Internet in Nov. 2020
 - Tokyo

ANNEX

- Following items (after this slide) will not be presented by participants, however you can discuss as a QA
 - Annex-a International connections
 - Annex-b Data Reception from GTS/WIS
 - Annex-c Data Provision to GTS/WIS

Annex-a International connections

Centre	Protocol	Line	Data
Tokyo	WMO Socket	GTS, MPLS	JMA Model (GRIB), SYNOP, SHIP, TEMP, METAR ...
New Delhi	WMO FTP	GTS, Internet	Tropical Cyclone advisory, SYNOP, TEMP and other observational data
Metno		Internet	Meteosat satellite image
ECMWF	HTTP	Internet	Global Model (GRIB)
JMA	-	Satellite Receiver	Satellite image
CMA	...	Satellite Receiver	Satellite image

Annex-b Data Reception from GTS/WIS

- SYNOP, SHIP, CLIMAT, TEMP, PILOT
- Aviation (METAR, TAF, SIGMET, AMDAR)
- Marine (BUOY)
- GEO satellites (AMV, CSR, ASR)
- Forecast, Analysis
- Warning
- Tropical cyclone advisories
- Volcanic ash advisories
- etc.

Annex-c Data Provision to GTS/WIS

- SYNOP (TAC and BUFR)
- SHIP (TAC and/or BUFR)
- CLIMAT (TAC and BUFR)
- TEMP, PILOT (TAC and BUFR)
- PILOT (TAC and BUFR)
- RADAR Message