

GISC Backup – Live demonstration

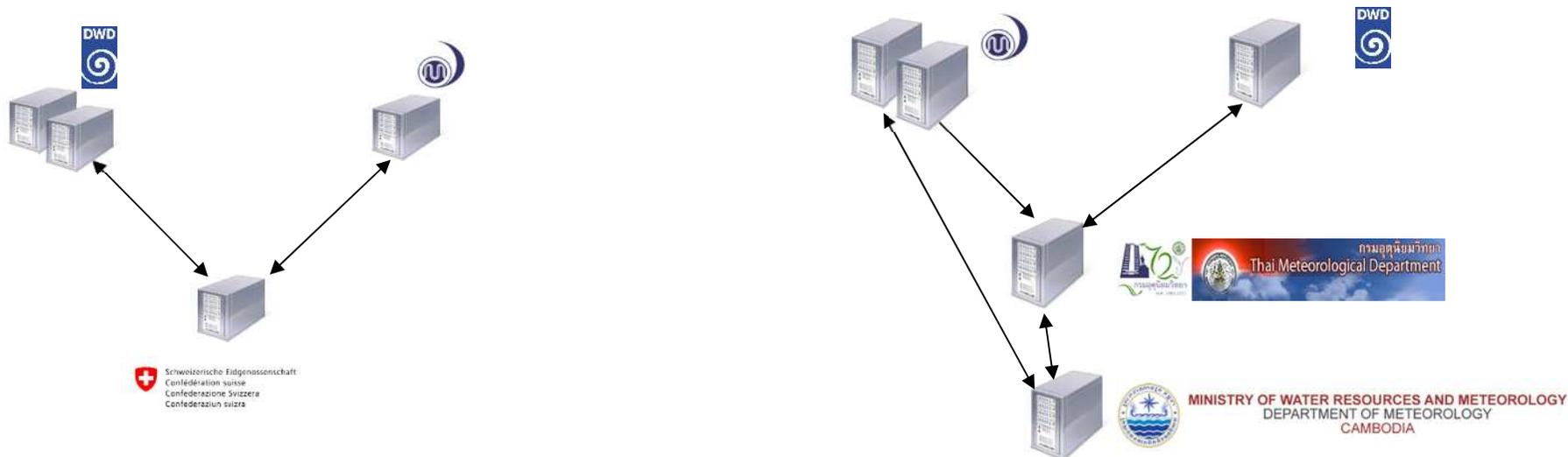
Markus Heene, DWD

Agenda

- Recap Backup Requirements
- Introduction to JMA and DWD backup concept
- Basic Self Monitoring Facilities
- Data Dissemination
 - FTP Server
 - Web Interface
- Summary
- Outlook

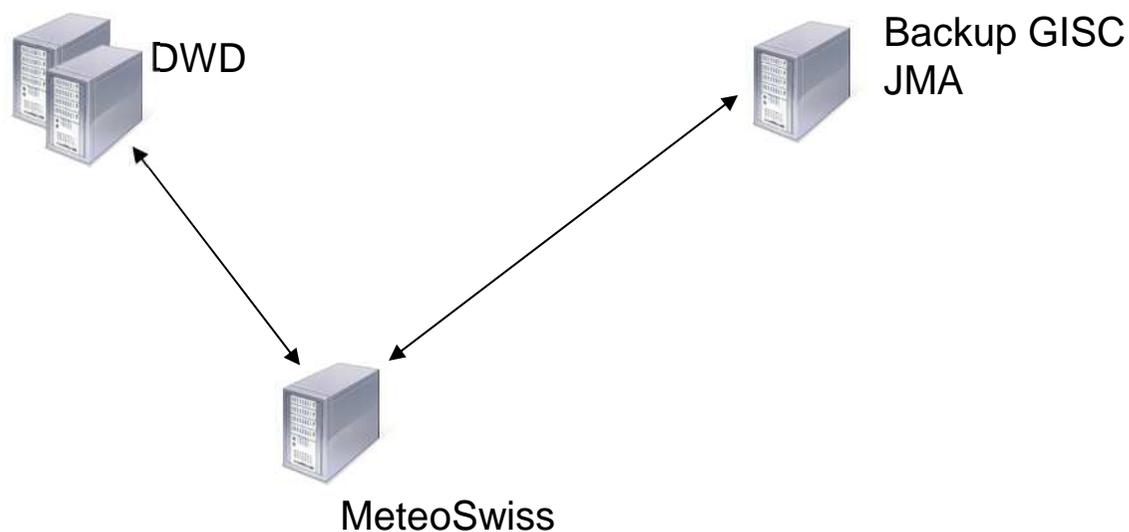
Recap Backup requirements

- Idea/Requirement: Continued services to the NCs and DCPCs in case of an outage
- In particular for the collection and distribution of data and products
- In a backup case not everything is possible:
 - 6.3. 3 Centres may be unable to change their GTS subscriptions during a period of back up operation, and any changes to subscriptions might not be maintained when normal operations resume.
 - 6.3.4 Changes to metadata will not be possible during a back-up period
 - 6.3.5 Any ad hoc changes made during a back-up period may need to be redone after return to normal operations.



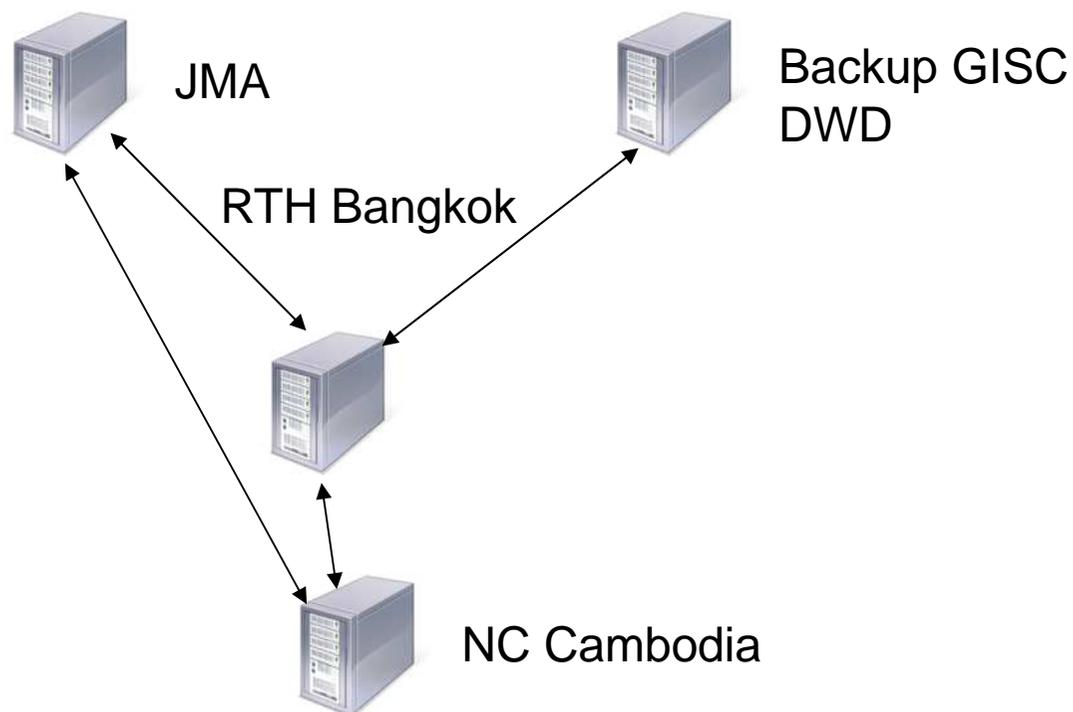
Scenario 1 – Direct connected Centre (data collection)

- Direct connected centres should upload direct to the backup GISC



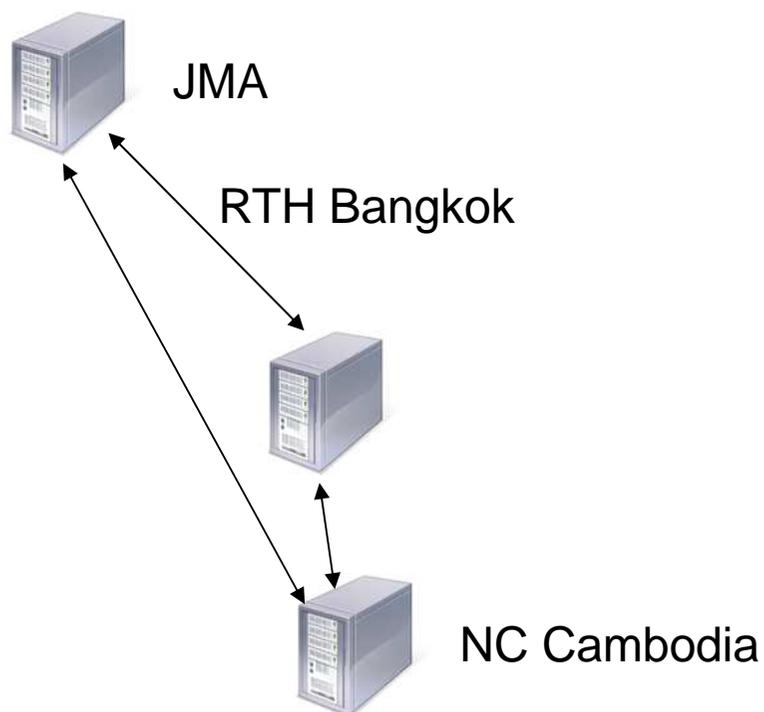
- Preferred upload: Continuous upload also in standard operation
- Examples: Switzerland, Jordan and Israel

Scenario 2 – Indirect connected Centre (data collection)



- RTH uploads for all connected centres to backup GIS
- Example: RTH Bangkok uploads for NC Cambodia, Laos, Myanmar, Viet Nam and Thailand

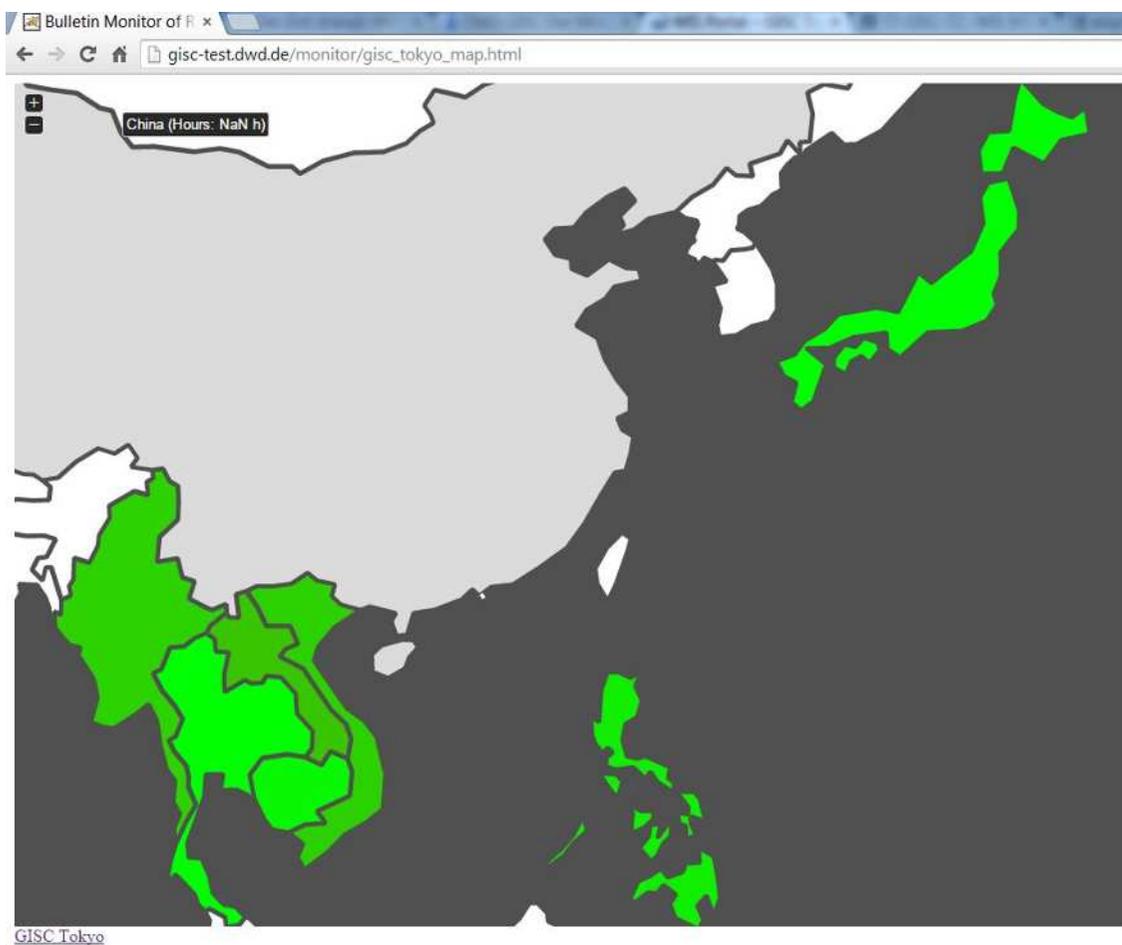
Scenario 2 – Indirect connected Centre (data collection)



- All centres connected to a RTH also upload to its principal GISC
- Example: NC Cambodia, Laos, Myanmar, Viet Nam upload to its principal GISC Tokyo

Self Monitoring Facilities

- http://gisc-test.dwd.de/monitor/gisc_tokyo_map.html



Data Dissemination – FTP Server

- Scenario:
 - GISC Tokyo is not available
 - RTH Bangkok wants data and products from Malaysia (WMKK)
- Steps
 - Connect to FTP Server ftp-gisc.dwd.de
 - Change directory to tree1/WMKK
 - Download data and products
 - Optional: Setup job which automatically downloads data and products

```
tree1 +-+ CCCC +-+ alpha +-+ T1T2 -- YYGG
      |
      | +-+ binary +-+ grib -- A2 -- ii -- YYGG
      | |
      | | +-+ grid -- A1 -- A2 -- ii -- YYGG
      | | |
      | | | +-+ crex -- T1T2A1 -- YYGG
      | | | |
      | | | | +-+ bufr -- T1T2A1 -- YYGG
      | | | | |
      | | | | | +-+ pic -- A2 -- YYGG
```

Data Dissemination – FTP Server

- Scenario:
 - GISC Tokyo is not available
 - NC Cambodia wants data and products for a user from Sri Lanka (VCCC)
- Steps
 - Alternative 1: RTH Bangkok retrieves data and products from Backup GISC
 - Alternative 2: NC Cambodia connects to Backup GISC
 - Connect to FTP Server ftp-gisc.dwd.de
 - Change directory to tree1/VCCC
 - Download data and products

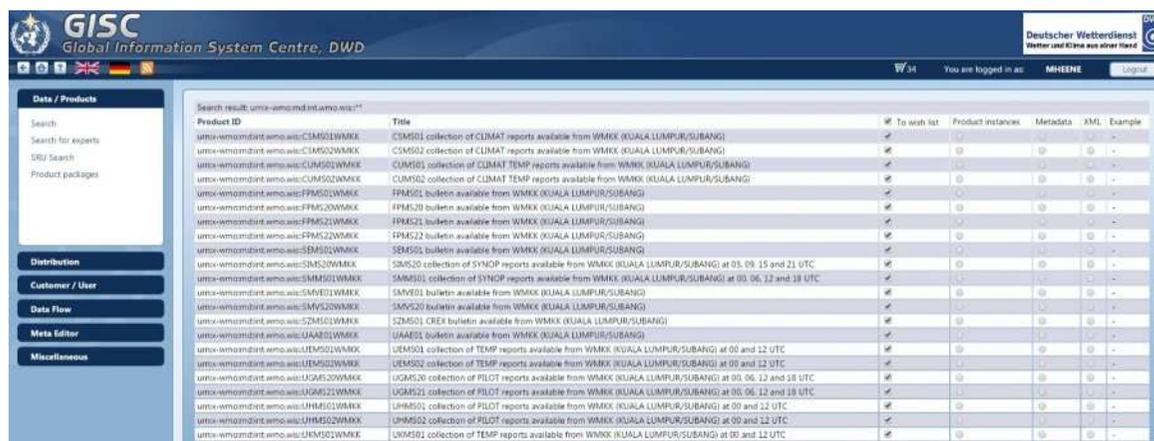
```
tree1 +- CCCC +- alpha +- T1T2 -- YYGG
      |
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      |         |
      |         | +- grid -- A1 -- A2 -- ii -- YYGG
      |         |
      |         | +- crex -- T1T2A1 -- YYGG
      |         |
      |         | +- bufr -- T1T2A1 -- YYGG
      |         |
      |         | +- pic -- A2 -- YYGG
```

Data Dissemination – Web Interface

- Scenario:
 - RTH Bangkok generates a backup subscription on the Backup GISC
- Steps
 - Access GISC Offenbach's Web Portal gisc.dwd.de
 - Login with provided username and password
 - Search required data and products
 - In case of GTS Bulletins use Expert Search: TT = ** and CCCC = WMKK (Malaysia)
 - Put all data and products on the wish list



The screenshot shows the GISC (Global Information System Centre, DWD) search interface. The header includes the GISC logo and navigation icons. A sidebar on the left contains menu items: Data / Products, Search, Search for experts, SRU Search, Product packages, Distribution, Customer / User, Data Flow, Meta Editor, and Miscellaneous. The main content area is titled 'Search for experts' and features a search form with the following fields: 'GTS Header (TTAAii, CCCC):', 'TT: **', 'AA: []', 'CC: []', 'CCCC: WMKK', 'Time period: after [] before []', and 'Sort by rank: []'. There are 'Continue' and 'Reset' buttons at the bottom of the search form.

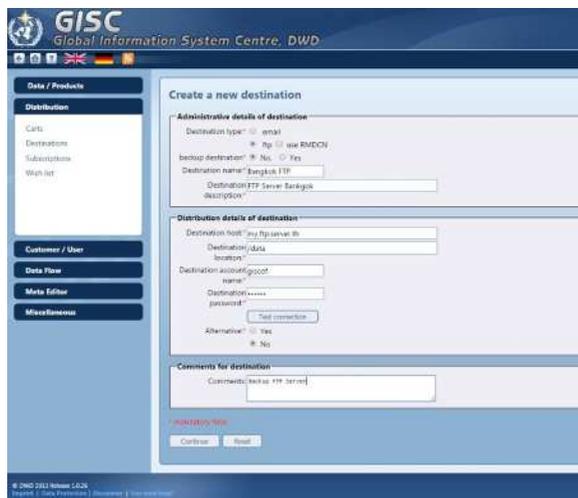


The screenshot shows the GISC search results page. The header includes the GISC logo and the text 'Deutscher Wetterdienst Wetter und Klima von oben herab'. The main content area displays a table of search results for the query 'uma-wmckdint.emo.wis**'. The table has columns for Product ID, Title, To wish list, Product instances, Metadata, XML, and Example. The results list various GTS products such as CIM501, CIM502, CUM501, CUM502, FPM501, FPM502, FPM521, FPM522, SEM501, SEM502, SYN501, SYN502, SMV501, SMV502, SZM501, UAA501, UEM501, UEM502, UOP501, UOP502, UHM501, UHM502, and UHM503.

Product ID	Title	To wish list	Product instances	Metadata	XML	Example
uma-wmckdint.emo.wis: CIM501WMKK	CIM501 collection of CLIMAT reports available from WMKK (KUALA LUMPUR/SUBANG)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: CIM502WMKK	CIM502 collection of CLIMAT reports available from WMKK (KUALA LUMPUR/SUBANG)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: CUM501WMKK	CUM501 collection of CLIMAT TEMP reports available from WMKK (KUALA LUMPUR/SUBANG)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: CUM502WMKK	CUM502 collection of CLIMAT TEMP reports available from WMKK (KUALA LUMPUR/SUBANG)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: FPM501WMKK	FPM501 bulletin available from WMKK (KUALA LUMPUR/SUBANG)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: FPM502WMKK	FPM502 bulletin available from WMKK (KUALA LUMPUR/SUBANG)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: FPM521WMKK	FPM521 bulletin available from WMKK (KUALA LUMPUR/SUBANG)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: FPM522WMKK	FPM522 bulletin available from WMKK (KUALA LUMPUR/SUBANG)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: SEM501WMKK	SEM501 bulletin available from WMKK (KUALA LUMPUR/SUBANG)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: SEM502WMKK	SEM502 collection of SYNOP reports available from WMKK (KUALA LUMPUR/SUBANG) at 03, 09, 15 and 21 UTC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: SMV501WMKK	SMV501 collection of SYNOP reports available from WMKK (KUALA LUMPUR/SUBANG) at 03, 06, 12 and 18 UTC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: SMV502WMKK	SMV502 bulletin available from WMKK (KUALA LUMPUR/SUBANG)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: SZM501WMKK	SZM501 CREX bulletin available from WMKK (KUALA LUMPUR/SUBANG)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: UAA501WMKK	UAA501 bulletin available from WMKK (KUALA LUMPUR/SUBANG)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: UEM501WMKK	UEM501 collection of TEMP reports available from WMKK (KUALA LUMPUR/SUBANG) at 00 and 12 UTC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: UEM502WMKK	UEM502 collection of TEMP reports available from WMKK (KUALA LUMPUR/SUBANG) at 06 and 18 UTC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: UOP501WMKK	UOP501 collection of PILOT reports available from WMKK (KUALA LUMPUR/SUBANG) at 03, 06, 12 and 18 UTC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: UOP502WMKK	UOP502 collection of PILOT reports available from WMKK (KUALA LUMPUR/SUBANG) at 06, 12 and 18 UTC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: UHM501WMKK	UHM501 collection of PILOT reports available from WMKK (KUALA LUMPUR/SUBANG) at 00 and 12 UTC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: UHM502WMKK	UHM502 collection of PILOT reports available from WMKK (KUALA LUMPUR/SUBANG) at 00 and 12 UTC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uma-wmckdint.emo.wis: UHM503WMKK	UHM503 collection of TEMP reports available from WMKK (KUALA LUMPUR/SUBANG) at 00 and 12 UTC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

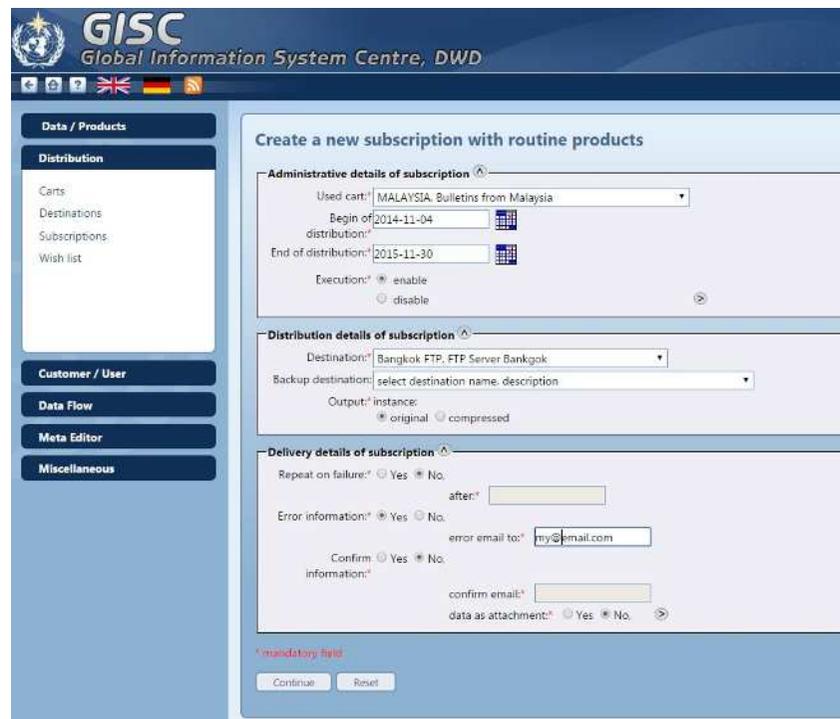
Data Dissemination – Web Interface

- Steps:
 - Click Distribution and then click Carts
 - Create a new Cart by clicking “New cart” Create and fill the form
 - Hints: Chose “Routine type” as Production type and use E-mail or FTP
 - Create a new Destination by clicking Destination and than “Create”
 - Hint: In Case of FTP test your connection please



Data Dissemination – Web Interface

- Steps
 - Click Subscriptions and create a new subscription by clicking “Create”
 - Select your Cart “MALAYSIA, Bulletins from Malaysia”
 - Select a begin date for the distribution
 - Select an end date for the distribution
 - Select your destination “Bangkok FTP”
 - Provide an email address for error messages
 - Press Continue
 - Hint: After verification that the data and products are disseminated to your FTP Server you can disable the “execution” of the subscription and “activated” it only in the backup case



The screenshot shows the GISC (Global Information System Centre, DWD) web interface. The main heading is "Create a new subscription with routine products". The interface is divided into three main sections for configuration:

- Administrative details of subscription:**
 - Used cart: MALAYSIA, Bulletins from Malaysia
 - Begin of distribution: 2014-11-04
 - End of distribution: 2015-11-30
 - Execution: enable, disable
- Distribution details of subscription:**
 - Destination: Bangkok FTP, FTP Server Bangkok
 - Backup destination: select destination name, description
 - Output instance: original, compressed
- Delivery details of subscription:**
 - Repeat on failure: Yes, No
 - Error information: Yes, No
 - error email to: my@email.com
 - confirm information: Yes, No
 - confirm email: [text input]
 - data as attachment: Yes, No

At the bottom, there are "Continue" and "Reset" buttons. A red asterisk indicates mandatory fields.

Summary

- The data collection part of the GISC Tokyo's AMDCN is already operational
- The data dissemination part for members of GISC Tokyo's AMDCN is already operational
- Member can chose between 2 different options:
 - FTP Server
 - Web Interface
- Centres which selected GISC Tokyo as secondary GISC are welcomed to join

Outlook

- GISC Offenbach will launch a new portal in 2015
- GISC Offenbach plans to provide similar “package structure” as offered by GISC Tokyo to serve GISC Tokyo’s user better
- Self Monitoring facilities will be extended for GISC Tokyo’s AMDCN

Q&A