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ESGF Node in China for MIPs (CMIP5, GeoMIP, and Mics Asia)

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Introduction

- * In the past year, the ESG-BNU node has added to publish **2 experiments, 90 GB** dataset for GeoMIP.
- * A new 200 TB storage system will be installed for ESG-BNU node.
- * A new ESGF node has been established at State Key Laboratory of Atmospheric Boundary Layer Physics and Atmospheric Chemistry(LAPC), IAP for the MICS Asia project, which is another model inter-comparison project for the regional atmospheric chemistry model in East Asia.
- * Domain name: <https://naqpms.iap.ac.cn>
- * It has published **2752 GB** dataset for Mics Asia Project, to ESG-BNU P2P Portal node.



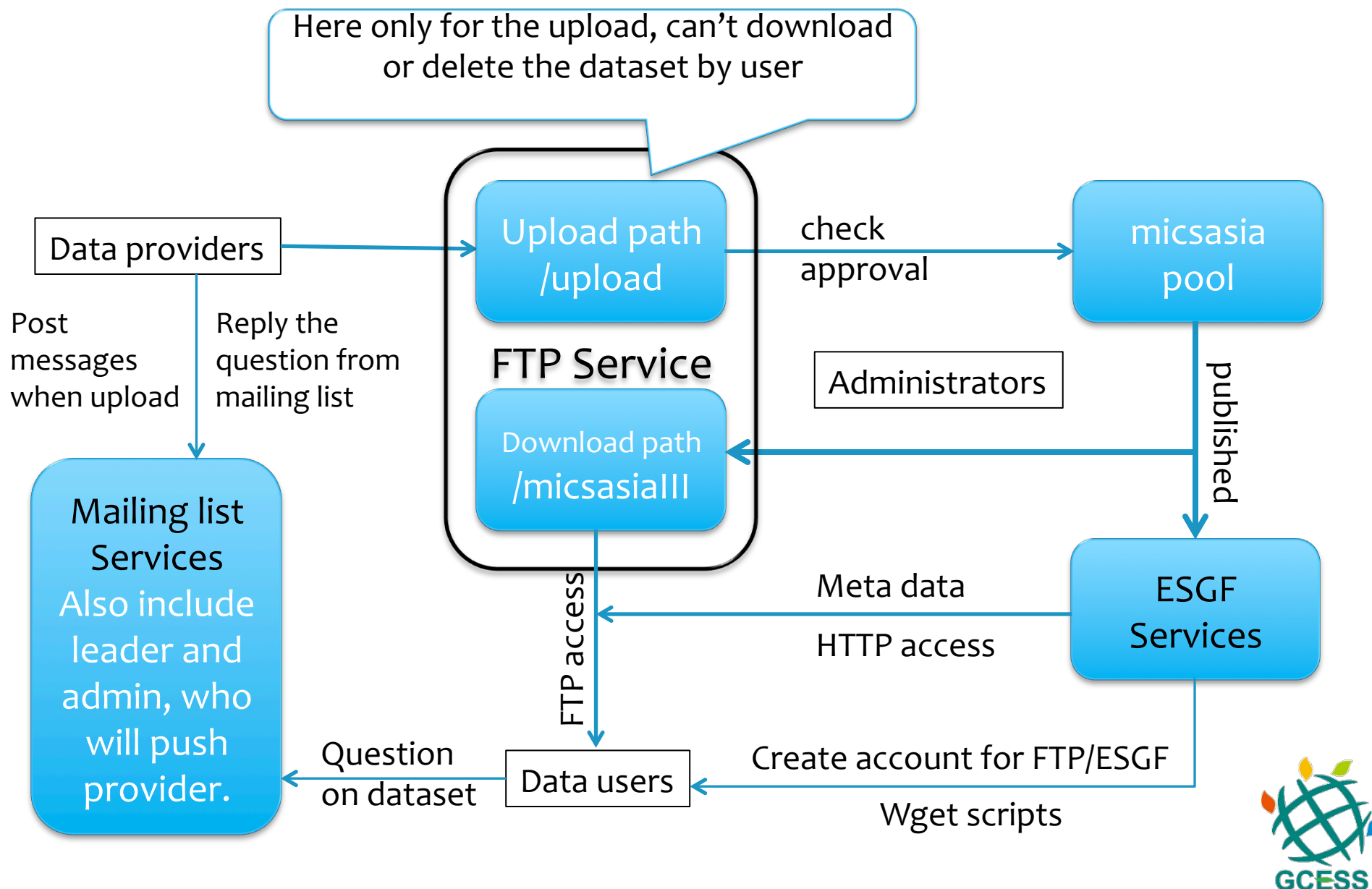
The ESG nodes in China

There are **5** ESGF data nodes in China, publish the model dataset for CMIP5, GeoMIP and Mics Asia Project.

| Project | node | Model | Exp. Num | Data size (GB) |
|-----------|----------|--------------|----------|----------------|
| CMIP5 | ESG-BCC | bcc-csm1-1 | 80 | 19,719.41 |
| | | bcc-csm1-1-m | 12 | 27,585.97 |
| | ESG-BNU | bnu-esm | 15 | 8,256.50 |
| | ESG-LASG | fgoals-g2 | 28 | 41,051.66 |
| | | fgoals-s2 | 23 | 3,070.94 |
| | ESG-FIO | fio-esm | 8 | 2,989.99 |
| GeoMIP | ESG-BNU | bnu-esm | 6 | 1264 |
| Mics Asia | ESG-LAPC | wrf, emis | 2 | 2752 |



Data Management Flow in Mics Asia Project



FTP & ESGF Services

- * We found some user prefer to FTP service for upload/download the datasets, something they are familiar with.
- * Thus, we try to setup vsftp and start FTP service at ESG-LAPC node, and share the account info in the PQSQL database with ESGF, the account registered at ESG-LAPC(Page: <https://naqpms.iap.ac.cn/esgf-web-fe/createAccount>), can be used to login ftp://naqpms.iap.ac.cn

Maillisting & ESGF services

- * At ESG-LAPC node, we use mailman+postfix+dovecot to setup the maillisting for the Mics Asia Project. **But the mailman can be integrated in httpd services, we don't know how to integrated it into tomcat services, is it possible? Or any comment?**
- * In the future, we will try collect the email information from account database and thredds log files, and inform the data users when the dataset has been re-published.

Certificate issue

- * In the past months, the certificate in the ESGF nodes in China has been expired one by one, including ESG-BNU, ESG-BCC and other nodes.
- * At ESG-BNU node, we try to setup one simpleCA and sign the certificate file temporarily. But this temporary certificate file can only work normally for the user who join in the “BNU” group when downloading the dataset.
- * Is it any other way for the administers can sign their certificate file more efficiency? Or extend the validity period of the certificate file.



Thank you



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