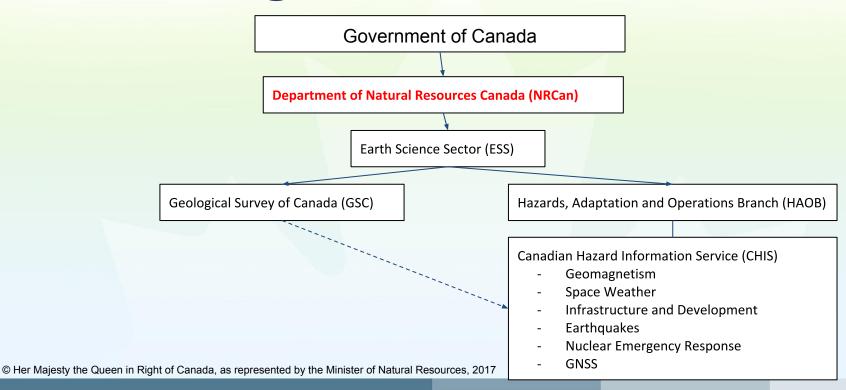
Infrastructure

INTERMAGNET





Organizational chart







Reason for recent changes

- Canadian Cyber Security Action Plan (CSAP)
 - Securing Government systems
 - Partnering to secure vital cyber systems outside the federal Government
 - Helping Canadians to be secure online
- Through CSAP initiatives, some of our servers need to be decommissioned/migragated/updated. CHIS is merging certain INTERMAGNET services with its infrastructure.
 - rsync
 - ftp
 - web (already is)
- No deadline yet set however the sooner these vulnerabilities are isolated, the better.





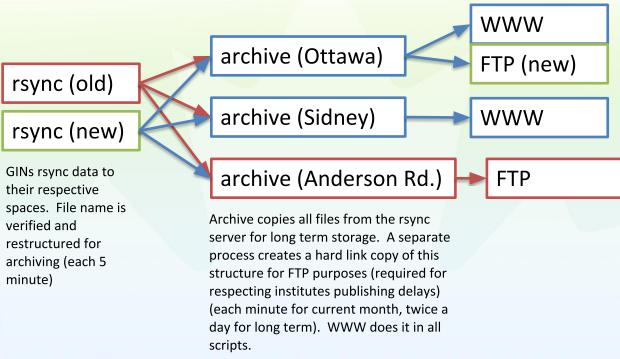
Vulnerabilities

- Due to the sensitive nature of potential vulnerabilities, these will not be highlighted in this document however recent infrastructure changes have been communicated to the community.
- At the moment, we are addressing OS/hardware only but software will have to be addressed eventually.





INTERMAGNET at NRCan







Improvements

- Many issues were noted over the years with the current infrastructure. Some very serious.
- Notable improvements:
 - Data delay publication to the FTP is now within 6 minutes (worst case).
 - Ottawa GIN can now accept CDF and can be adapted to accept new formats with very little effort. Supported formats: IAGA-2002, IAF, CDF





Current issues

- Many issues with the web
 - *IDL (programming language) dependant which will make it hard to move (and maintain).
 - Solution: NRCan is looking to deprecate all IDL licenses from production but lack of resources.
 - *Data download can not support new CDF format and will be hard to adapt to new formats (too many conditions).
 - Solution: Deprecate web application and only offer public FTP.
 - Alternative solution: redo a web application but with a total revamp
 - Definitive data not showing on the web. Data download web application uses metadata for displaying availability. Data updated beyond 3-4 years are not updated (requires manual intervention).
 - Solution: Same as data download



