X-Band management for DC0

A.Formica, H. Louvin, JP Le Fevre, E. Trigui

X-Band chain services

- X-Band manager (REST + messaging)

  ‣ Decoding of packets headers from input files

  ‣ Use a dedicated service (**decoder**) to decode the internal packet content (APID specific, not yet ready because of missing *cads*)

- X-Band decoder (REST) : *To be done*

  ‣ Decode the packets internal content using generated python code from Marie Claire XML database describing the data formats
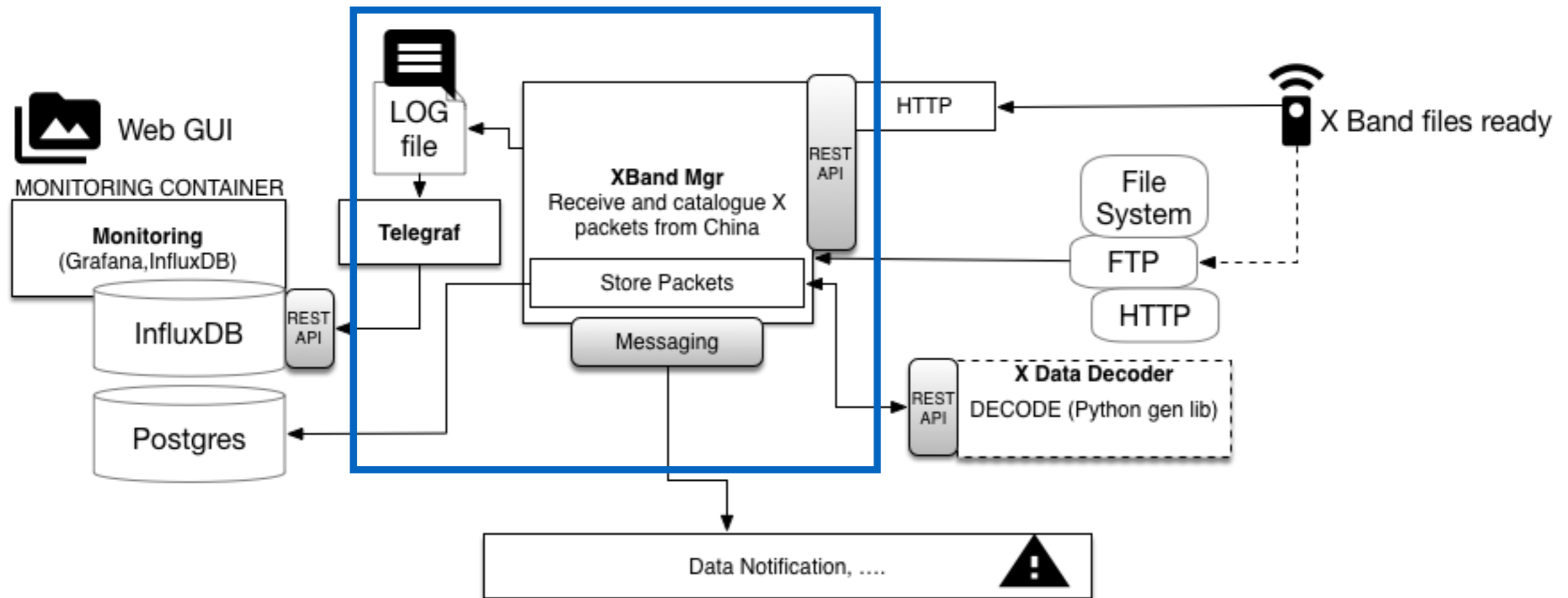
Storage and Monitoring

- ## Postgres

  ‣ Dedicated instance for:

    - X-Band data, shared with other applications like VHF manager

- ## Grafana, InfluxDB, telegraf

  ‣ Grafana: Web UI to check service activities

  ‣ InfluxDB: Storage of data extracted from log files

  ‣ Telegraf: parser of log files (writes relevant content as a time serie in InfluxDB)

DC0 X-Band mgr services architecture

DC0 status

- ## Deployment of services

  ‣ Follow instructions in Svom-deployment project

  ‣ Services should be "independent" (do not crash if a needed service is not yet up)

- ## Receive X-Band (or similar) file from external source

  ‣ REST method to post tar files, or to get them via FTP or HTTP (provide an accessible location)

- ## Provide methods to GET files

  ‣ REST methods to retrieve the posted files

DC0 monitoring

- ## Usage of grafana / influxdb

  ‣ X-Band dashboard…under development

  ‣ Similar to what will be exposed for VHF in the afternoon