DWP/Local Authority Data Hub

The problem
- Current architecture is point to point and hosted on old infrastructure that needs urgent replacement

What we would like to achieve
- Decouple and replace existing architecture to remove 382 one to one interfaces with LAs.
- Deliver data to the LAs and receive data from the LAs via DWP/LA Data hub taking into account below criteria
- Take a FTPS file, identify correct end point and place in on a relevant queue. Manage that queue and control access to it.

The DWP/LA data hub needs to consider the following:
1. IL3/PGA
2. Data must be hosted in the UK
3. Handle different routing types
4. Processing different data types e.g. XML batch files, PDF, CSV
    a. Are there any file types the solution cannot deliver?
5. Must be able to cater for existing and new frequency requirements including real time
6. Assumption thin client but thicker client at LA if validation required for reverse data share
7. Adhere to Govt Security standards
8. Component endpoints involved are GFTS and an LA Hosted web client e.g. FTPS
9. Events capability
10. Business Performance requirements
11. Rule and content based routing
12. Hardware requirements
    a. Hardware requirements for DWP
    b. LA operating system requirements, i.e. 2000, XP, W7, W8 etc.
    c. Would any additional software be required, i.e. Winzip?
13. Management administration capabilities and MI
14. Reporting function
15. Monitoring function
16. Volume considerations 10mb /day but high volumes
    a. Can the system also manage high/peak volumes
17. support open standards/ open source to remove license costs
18. Backup and recovery to existing requirements level
19. cost model
    a. per message
    b. other cost model?
    c. Security model

Acceptance Criteria
- DWP can publish dummy ATLAS daily file and two PDF files onto message hub daily
- LAs must be able to subscribe to dummy data and successfully upload this into LA environment
- HDD can provide anonomised test data used for previous project delivery from CIT. This will be files from previous project's JIT.
- The files are usually in a winzip, then in a .tar. The assumption is that the by dropping the dummy files in the ATLAS infrastructure that the files would be transformed into this formatting correctly.
- Agreement would be required on the overall file size required, which would in turn affect the number of LAID/LACI and the size of ATLAS.xml used for testing purposes, but HDD would be able to manage the numbers to pass over once agreement on the overall file size was agreed 10mb is mentioned at point 16.

- Operational management processes (error handling, timeouts, queue management etc.) as well as patching, fixes, and enhancement timescales.

Questions:
- LA requirements for accessing and receiving the data:
  - Auto process for LA IT suppliers pulling data into backend systems
  - Real time access via LA user, how does that work and what does it look like e.g. Blue Badge
  - Support arrangements e.g. resetting of passwords etc
- Authorisation and authentication. Once data is stored on the queue how do we restrict access to authorised people/machines, what's the authentication used and how is it managed?
- Hosting model:
  - IAAS IL3
  - DWP private cloud
  - SAAS

Assumption
- Sandboxed replicated environment
- Like for like with current requirements e.g. MI
- Risk level of the data - assumption data is IL3
- Transaction request response or publish/subscribe pattern (push/pull) queuing pattern

LA testers:
- LAST team
- Glen Skinner
- Actual LA
- Introduce regular message hub POC checkpoint meeting