

DATAFLOW SUMMARY

BULK

- Takes data from various sources and normalizes it to XML and JSON.
 - Listings, agents, offices, ...?
- Data stored temporarily in the mongoheap until BULK finishes processing all the data in the heap.
- Sends to DATA.

DATA

- Reads from BULK, processes the data further.
- Sends to QUAD and GEOCODE.
- Writes to SQL Server.

GEOCODE

- Attaches geographic location information to data. Not the final arbiter of location decision though.
- Sends data to HV.
- Reads/Writes from/to SQL Server.

HV

- Attaches home values to listing data. Reads home value info from mongodbclogic, which is populated with home value information from Corelogic (third party vendor).
- Uses DEDUPE logic to disambiguate listings with multiple possible address resolutions.
- Sends data to MAPPING and SOLR.
- Reads/Writes from/to SQL Server and mongodbclogic.

MAPPING

- Processes data and attaches a bunch of info to it.
- Sends data to HEADLINE.
- Reads data from PostGIS.
- Writes data to SQL Server.

HEADLINE

- Logic to build banner headlines for website.
- Reads data from SQL Server.
- Writes data to SQL Server and slprod.

DEDUPE

- Logic to check whether a listing is assigned multiple addresses. If it is, the logic attempts to disambiguate the addresses and select a single address. Use by HV to resolve addressing conflicts.
- Reads/Writes to SQL Server.
- Sends to IMAGE.

IMAGE

- Images are sent through the pipeline as URIs until they reach the IMAGE logic, which attempts to pull the actual image files and associate them with the data being passed to it. (home pics for listings, agent pics, etc.) Why does IMAGE loop back to itself?
- Reads/Writes from/to SQL Server.
- Sends to SOLR.

SOLR

- The final staging area for processed data before it is picked up by the UI team and displayed on the website.
- Reads from SQL Server, mongobatch.
- Writes to slprod.

HVBULK

- Processes home value data from Corelogic.
- Reads from mongodbclogic.
- Writes to mongodbclogic and slhv.
- Sends to AUTOSUGGEST.

AUTOSUGGEST

- Used to suggest homes based on various criteria.
- Reads from slprod, PostGIS, mongobatch, slhv, solrsearch.
- Writes to solrsearch.