rucio-analysis - added functionality

- Wrappers for:
  - getting/setting metadata
  - adding updating subscriptions
- SKAO tests of metadata based subscriptions
  - Simple metadata-based replication test
    - Upload data, set metadata
    - Create subscription to create replication rule
  - 'SDP-SRC interface' test
- https://github.com/ESCAPE-WP2/rucio-analysis

SDP-SRC Interface test

- Create empty dataset at ND RSE1
- Set metadata on dataset
- Create metadata-based subscription for dataset to replicate to RSE2
- Upload data to ND-RSE1 site via GFAL
- Register data to dataset
- (Manual step) Verify replication of data1 to RSE2 (may take a few minutes
- https://github.com/ESCAPE-WP2/rucio-analysis/blob/master/etc/tasks/skao/tests/sdp-src-simulation.yml

SDP-SRC test run

Outcomes

- Non-deterministic [issue](#) encountered with transmogrifier daemon

- Unable to delete subscriptions via Rucio API/CLI

- Transmogrifier only considers DIDColumn-based metadata

Next steps

- Upload to 'faraway' non-deterministic RSEs (AARNET and IDIA)

- QoS based subscription replication