

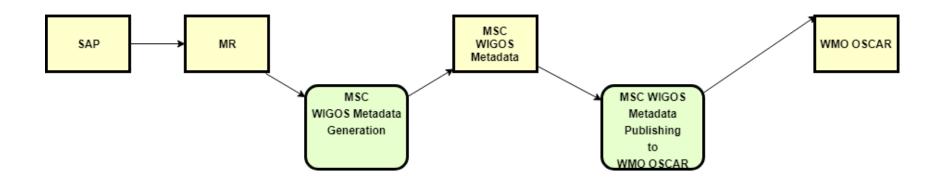
Python Tools and Workflow for WIGOS Metadata Generation and OSCAR Publishing

Tom Kralidis Geospatial and Open Data Systems Meteorological Service of Canada

https://woudc.org



Python Tools and Workflow for WIGOS Metadata Generation and OSCAR Publishing



- Push workflow (from MSC/WOUDC to OSCAR)
- Generate WIGOS XML from internal databases (pygeometa)
- Publish WIGOS XML to WMO OSCAR (pyoscar)



WIGOS XML Generation: pygeometa

- https://github.com/geopython/pygeometa
- Small, lightweight and flexible, free and open source tool to generate metadata
- Numerous formats supported
 - ISO 19139
 - WIS Core Metadata Profile
 - WIGOS
- Simple YAML configuration
 - https://github.com/geopython/pygeometa/blob/master/sample-wmowigos.yml
- Command line or direct API capability (composable)
- Used by MSC (as NMHS) and WOUDC





OSCAR Publishing: pyoscar

- https://github.com/wmo-cop/pyoscar
- Small, lightweight and flexible, free and open source tool to interact with OSCAR
- Simple query and upload capability
- Uploads to either OSCAR DEPL (testing) or production
- Command line or direct API capability (composable)
- Used by MSC (as NMHS) and WOUDC



MSC GeoMet

Thank you!

https://github.com/geopython/pygeometa

https://github.com/wmo-cop/pyoscar

tom.kralidis@canada.ca



