

Oasis Data Converter

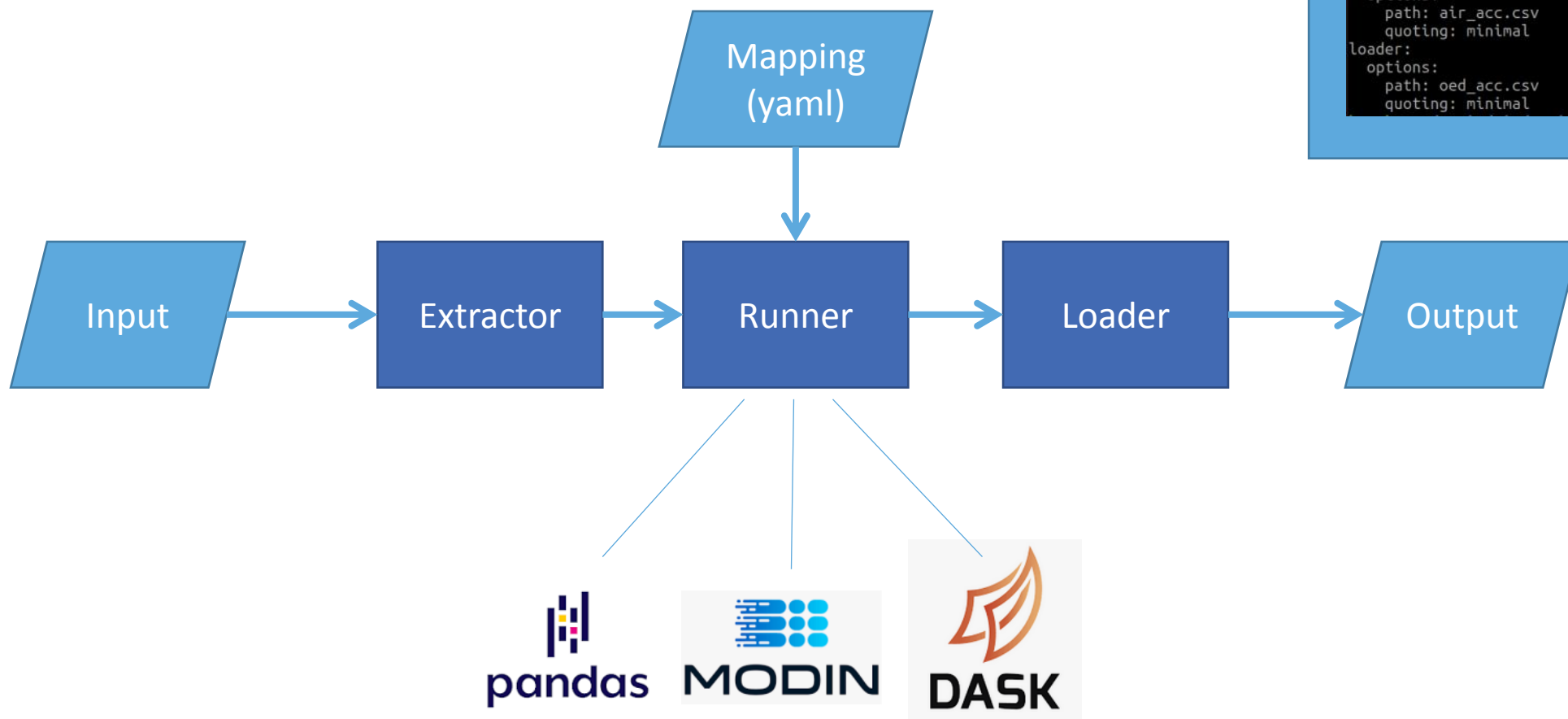
August 2020



Scope

- Expand on work done by Xceedance in 2019
- Make the transformation tool generic, configurable and extensible
 - Transforms
 - Technologies
- File to file (for now)
- Performs well
- Transparent

The Tool



Config File

```
mapping:
  options:
    input_format: AIR_ACC
    output_format: OED_ACC
runner:
  path: converter.runner.PandasRunner
extractor:
  options:
    path: air_acc.csv
    quoting: minimal
loader:
  options:
    path: oed_acc.csv
    quoting: minimal
```

Mapping

```
# Mapping to convert AIR CEDE account data to OED
```

```
input_format: AIR_ACC
```

```
output_format: OED_ACC
```

```
forward:
```

```
types:
```

```
  ExposureSetName:
```

```
    type: string
```

```
  ContractID:
```

```
    type: string
```

```
  InsuredName:
```

```
    type: string
```

```
transform:
```

```
  PortNumber:
```

```
    - transformation: ExposureSetName
```

```
  AccNumber:
```

```
    - transformation:
```

```
  AccName:
```

```
    - transformation:
```

```
  AccStatus:
```

```
    - transformation:
```

```
  LayerLimit:
```

```
    - transformation: OccTotalLimit
```

```
      when: OccLimitTypeCodeTL is in ['E', 'B']
```

```
    - transformation: 0
```

```
      when: OccLimitTypeCodeTL is 'N'
```

```
    - transformation:
```

```
  PolDed6All:
```

```
    - transformation:
```

```
      when: Deduc
```

```
    - transformation:
```

```
  PolPerilsCovered:
```

```
    - transformation: |
```

```
      replace(
```

```
        PerilSetCode
```

```
        'WS', 'ZZ1',
```

```
        'CF', 'WSS',
```

```
        'EO', 'OEO',
```

```
reverse:
```

```
types:
```

```
  PortNumber:
```

```
    type: string
```

```
  AccNumber:
```

```
    type: string
```

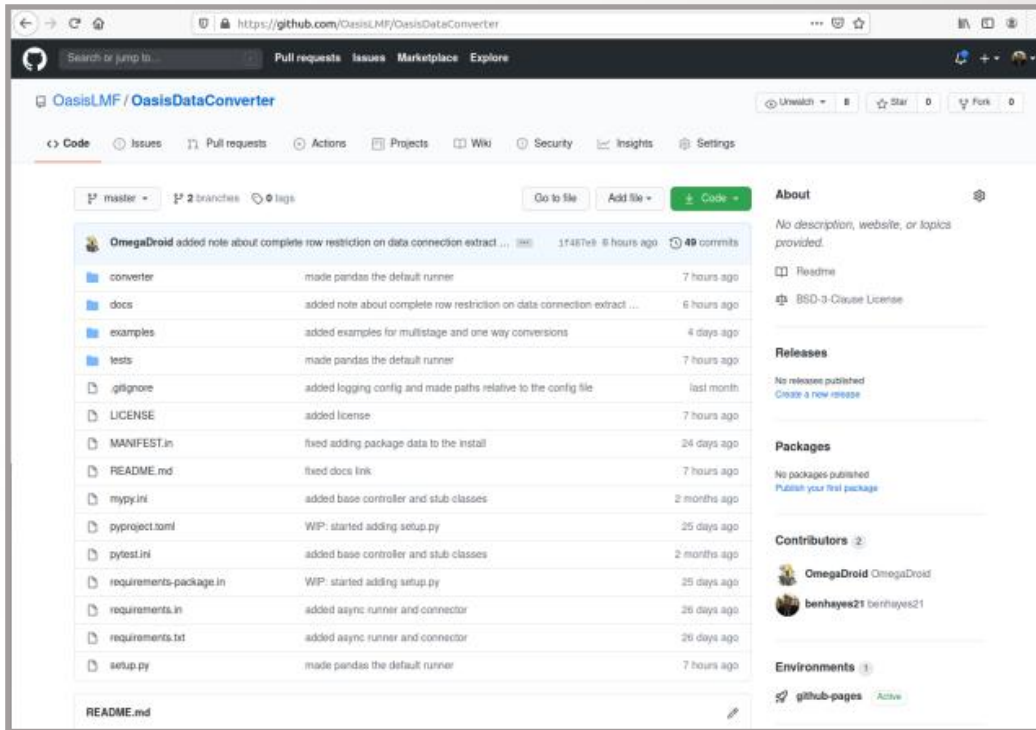
```
  AccName:
```

```
    type: string
```

```
  AccStatus:
```

Mapping
(yaml)

<https://github.com/OasisLMF/OasisDataConverter>



Demo



Results of Initial Testing

- Install and run the package
- Complete basic transforms included as examples
- Build and run a new mapping file
- Basic performance testing

Test	Columns	Rows	Time
Cede Acc	39	1,000	<2s
Cede Acc	39	100,000	46s
Cede Acc	39	500,000	3m32s
Cede Acc	39	1,000,000	7m13s
Simple AB	2	1,000	<1s
Simple AB	2	100,000	5s
Simple AB	2	500,000	19s
Simple AB	2	1,000,000	39s

**all tests completed using default pandas runner module*