

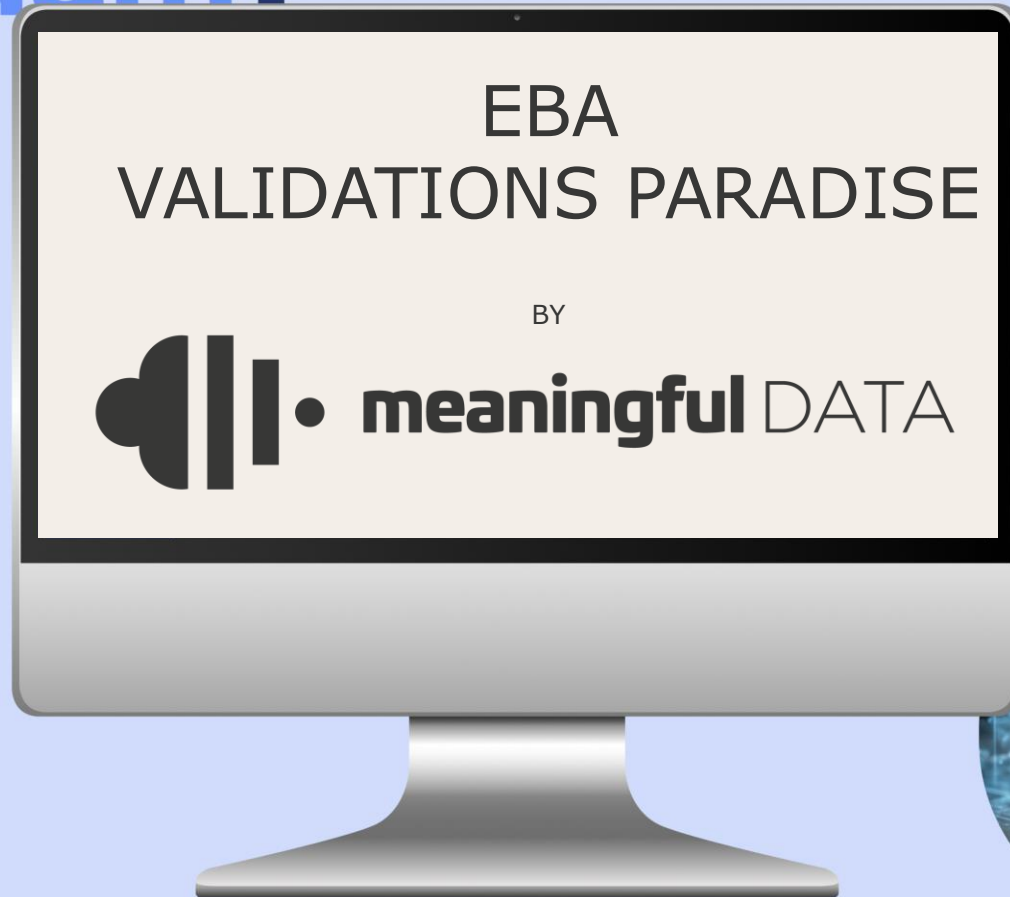
# EBA VALIDATIONS PARADISE

BY



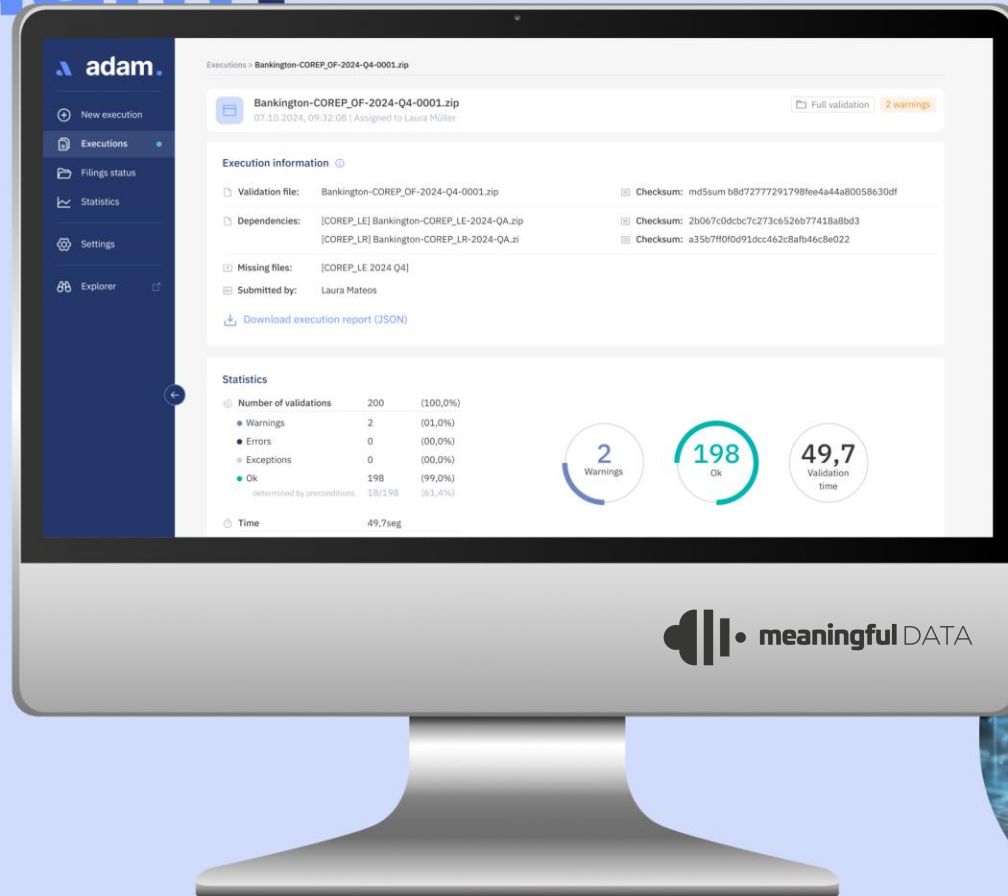


Validator



# adam.

## Validator





**a**dvanced  
**d**pm  
**a**nalysis  
**m**echanism



**a** dvanced

**d** pm

**a** nalysis

**m** echanism





# EXPLORER

adam.  
by Meaningful Data

Modules

Selection type ①

All matches

Search...

☐ AE 1 ▾

☐ COREP 7 ▾

☐ DORA 1 ▾

☐ ESG 1 ▾

☐ FC 1 ▾

☐ FINREP 1 ▾

☐ FINREPCOVID19 1 ▾

☐ FP 1 ▾

☐ GSII 1 ▾

☐ IF 4 ▾

☐ IMPRAC 1 ▾

☐ IPU 1 ▾

☐ IRBB 1 ▾

☐ MICA 3 ▾

☐ MREL 2 ▾

☐ PAY 2 ▾

☐ PILLAR3 8 ▾

☐ REM 6 ▾

☐ RES 1 ▾

☐ SBP 4 ▾

Validation

v0330\_m

with (default)

Start Release 4.0

Precondition {v\_C\_08.1}

Expression with (default) {v\_C\_08.1}

Other versions

Compare versions of v0330\_m:

From Version

Start Release: 3.4 | End Release: 4.0

To Version

Start Release: 4.0 | End Release: Open

Expression

with {v\_C\_08.1} (default: 0, interval: true):  
{v\_C\_08.1.b, r0010-r0170, c0120} <= {v\_C\_08.01.a, r0010, r0015, r0016, r0070, r0080, r0160, r0170}, c0110}

Precondition Expression  
{v\_C\_08.01}

Expression

with {v\_C\_08.1} (default: 0, interval: true):  
{v\_C\_08.01.b, r0010-r0170, c0120} <= {v\_C\_08.01.a, r0010, r0015, r0016, r0017, r0018, r0019, r0900, r0910, r0070, r0080, r0160, r0170}, c0110}

Precondition Expression  
{v\_C\_08.01}

Start Release 3.4

End Release 4.0

Endorsement -

Tables C\_08.01.b, C\_08.01.a

Validation type user\_defined

Start Release 4.0

End Release -

Endorsement -

Tables C\_08.01.a, C\_08.01.b

Validation type user\_defined

Added

Removed

COREP\_OF 3.1.0

COREP\_OF 4.0.0

Close







## EXPLORER

Compare versions of v0330\_m:

| From Version                                                                                                                                                     | To Version                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Start Release: 3.4   End Release: 4.0                                                                                                                            | Start Release: 4.0   End Release: Open                                                                                                                                                                     |
| Expression<br>with {s*, default: 0, interval: true}:<br>[C_08.01.h, r0010-r0170, c0120] <= [C_08.01.a, (r0010, r0015, r0016, r0070, r0080, r0160, r0170), c0110] | Expression<br>with {s*, default: 0, interval: true}:<br>[C_08.01.h, r0010-r0170, c0120] <= [C_08.01.a, (r0010, r0015, r0016, r0017, r0018, r0019, r0020, r0090, r0091, r0070, r0080, r0160, r0170), c0110] |
| Precondition Expression<br>{v_C_08.01}                                                                                                                           | Precondition Expression<br>{v_C_08.01}                                                                                                                                                                     |
| Start Release 3.4                                                                                                                                                | Start Release 4.0                                                                                                                                                                                          |
| End Release 4.0                                                                                                                                                  | End Release -                                                                                                                                                                                              |
| Endorsement -                                                                                                                                                    | Endorsement -                                                                                                                                                                                              |
| Tables C_08.01.h, C_08.01.a                                                                                                                                      | Tables C_08.01.a, C_08.01.b                                                                                                                                                                                |
| Validation type user_defined                                                                                                                                     | Validation type user_defined                                                                                                                                                                               |

Legend: Added (green), Removed (red)

Compare versions

## VALIDATOR

Executions > Bankington-COREP\_OF-2024-Q4-0001.zip

07.10.2024, 09:32:08 | Assigned to Laura Müller

Full validation 2 warnings

Execution information

- Validation file: Bankington-COREP\_OF-2024-Q4-0001.zip
- Checksum: md5sum b8d72777291798fee4a4a80058630df
- Dependencies: [COREP\_LE] Bankington-COREP\_LE-2024-QA.zip
- Checksum: 2b067c0dc67c273c6526b77418a8bd3
- [COREP\_LR] Bankington-COREP\_LR-2024-QA.zip
- Checksum: a35b7f0f0d91dcca462c8afb46c8e022
- Submitted by: Laura Mateos

Download execution report (JSON)

Statistics

| Number of validations       | 200     | (100.0%) |
|-----------------------------|---------|----------|
| Warnings                    | 2       | (01.0%)  |
| Errors                      | 0       | (00.0%)  |
| Exceptions                  | 0       | (00.0%)  |
| Ok                          | 198     | (99.0%)  |
| determined by preconditions | 18/198  | (91.4%)  |
| Time                        | 49,7seg |          |

2 Warnings

198 Ok

49,7 Validation time

Log out

EBA DPM COVERAGE = 100%

UX

OX

# UX



# OX

# UX



# OX

# UX



# OX

+ New execution

📄 Executions •

📁 Filings status

📈 Statistics

⚙️ Settings

🔍 Explorer



➔ Log out



Search by...



Sort by recent date



Status ↑↓

Execution ↓↑

Date ↑↓

Reviewer ↑↓

Validation Result ↑↓

## New execution



Select XBRL file

or drop it here

1

2

Start execution

🕒 Finished

Bankington-COREP\_LR-2024-Q3-0002.zip

12.09.2024, 16:43:09

👤 Emma Johansson

🕒 Finished

FiliBank-COREP\_LR-2024-Q3-0002.zip

08.09.2024, 19:12:08

👤 Laura Müller



Bankington-COREP\_OF-2024-Q4-0001.zip



1

2



+ New execution

📁 Executions •

📁 Filings status

📈 Statistics

⚙️ Settings

🔗 Explorer

➔ Log out

↺

Search by...

⊗

🔍

Sort by recent date

| Status ↑↓ | Execution ↑↓ | Date ↑↓ | Reviewer ↑↓ | Validation Result ↑↓ |
|-----------|--------------|---------|-------------|----------------------|
| 📁         |              |         |             | Pending...           |
| 📁         |              |         |             | Pending...           |
| 📁         |              |         |             | 3 warnings           |
| 📁         |              |         |             | Unkown               |
| 📁         |              |         |             | 3 warnings           |
| 📁         |              |         |             | 2 warnings           |
| 📁         |              |         |             | ok                   |
| 📁         |              |         |             | ok                   |
| 📁         |              |         |             | 1 error              |
| 📁         |              |         |             | 1 error              |
| 📁         |              |         |             | ok                   |
| 📁         |              |         |             | ok                   |
| 📁         |              |         |             | 2 warnings           |

## New execution

✕

📄 Bankington-COREP\_OF-2024-Q4-0001.zip

COREP\_OF 2024 Q4

Checksum: b8d72777291798fee4a44a80058630df

### Please, add dependency files

Dependency 1:  
COREP\_LR 2024 Q4

Dependency 2:  
COREP\_LE 2024 Q4

Select XBRL file  
or drop it here

Select XBRL file  
or drop it here

1

2

Start execution

🔄

Bankington-COREP\_OF-2024-Q4-0001.zip

⊗

1

2

➔

+ New execution

📄 Executions •

📁 Filings status

📈 Statistics

⚙️ Settings

🔗 Explorer

↶

Search by...

⊗

🔍

Sort by recent date

| Status     | Execution                            | Date                 | Reviewer         | Validation Result |
|------------|--------------------------------------|----------------------|------------------|-------------------|
|            |                                      |                      |                  | 📁 Pending...      |
|            |                                      |                      |                  | 📁 Pending...      |
|            |                                      |                      |                  | 📁 3 warnings      |
|            |                                      |                      |                  | 📁 Unkown          |
|            |                                      |                      |                  | 📁 3 warnings      |
|            |                                      |                      |                  | 📁 2 warnings      |
|            |                                      |                      |                  | 📁 ok              |
|            |                                      |                      |                  | 📁 ok              |
|            |                                      |                      |                  | 📁 1 error         |
|            |                                      |                      |                  | 📁 1 error         |
|            |                                      |                      |                  | 📁 ok              |
|            |                                      |                      |                  | 📁 ok              |
| 🟢 Finished | Bankington-COREP_LR-2024-Q3-0002.zip | 12.09.2024, 16:43:09 | 👤 Emma Johansson | 📁 ok              |
| 🟢 Finished | FiliBank-COREP_LR-2024-Q3-0002.zip   | 08.09.2024, 19:12:08 | 👤 Laura Müller   | 📁 2 warnings      |

## New execution

✕

📄 Bankington-COREP\_OF-2024-Q4-0001.zip

COREP\_OF 2024 Q4

Checksum: b8d72777291798fee4a44a80058630df

### Please, add dependency files

Dependency 1:  
COREP\_LR 2024 Q4

Dependency 2:  
COREP\_LE 2024 Q4

File attached:

Bankington-COREP\_LR-2024-QA.zip

2b067c0dbc7c273c6526b77418a8bd3

Select XBRL file

or drop it here

1

2

Start execution

🔄

Bankington-COREP\_OF-2024-Q4-0001.zip

⊗

1

2

➔



+ New execution

📄 Executions •

📁 Filings status

📈 Statistics

⚙️ Settings

🔗 Explorer

➔ Log out

🔍 Search by...



Sort by recent date



Status ↑↓

Execution ↑↓

Date ↑↓

Reviewer ↑↓

Validation Result ↑↓

**Are you sure do you want to continue?**

The following dependencies are missing. Without the full set of dependencies only a partial validation can be provided.

COREP\_LE 2024 Q4

No, add dependency files

Yes, start partial execution

🟢 Finished

Bankington-COREP\_LR-2024-Q3-0002.zip

12.09.2024, 16:43:09

👤 Emma Johansson

🟢 Finished

FiliBank-COREP\_LR-2024-Q3-0002.zip

08.09.2024, 19:12:08

👤 Laura Müller

📁 Pending...

📁 Pending...

📁 3 warnings

📁 Unkown

📁 3 warnings

📁 2 warnings

📁 ok

📁 ok

📁 1 error

📁 1 error

📁 ok

📁 ok

📁 2 warnings



Bankington-COREP\_OF-2024-Q4-0001.zip



1

2



+ New execution

📄 Executions •

📁 Filings status

📈 Statistics

⚙️ Settings

🔗 Explorer ↗

🔍 Search by...



Sort by recent date



| Status ↑↓     | Execution ↑↓                         | Date ↑↓              | Reviewer ↑↓    | Validation Result ↑↓ |
|---------------|--------------------------------------|----------------------|----------------|----------------------|
| ✉ Received    | Bankington-COREP_OF-2024-Q4-0001.zip | 07.10.2024, 09:32:08 | Laura Müller   | 📁 Pending...         |
| 🔄 Running 19% | Bankington-COREP_LR-2024-Q4-0002.zip | 02.10.2024, 19:26:19 | Laura Müller   | 📁 Pending...         |
| ✅ Finished    | FiliBank-COREP_LR-2024-Q4-0002.zip   | 27.09.2024, 21:12:42 | Pierre Dubois  | 📁 3 warnings         |
| ❌ Failed      | PostBank_AE-2024-Q4-0002.zip         | 25.09.2024, 19:32:03 | Olga Ivanova   | 📁 Unkown             |
| ✅ Finished    | PostBank_AE-2024-Q4-0001.zip         | 25.09.2024, 17:26:19 | Pierre Dubois  | 📁 3 warnings         |
| ✅ Finished    | Bankington-COREP_OF-2023-Q4-0001.zip | 25.09.2024, 11:12:46 | Pierre Dubois  | 📁 2 warnings         |
| ✅ Finished    | Bankington-COREP_LR-2023-Q4-0002.zip | 24.09.2024, 12:32:21 | Laura Müller   | 📁 ok                 |
| ✅ Finished    | FiliBank-COREP_LR-2023-Q4-0002.zip   | 24.09.2024, 07:26:35 | Laura Müller   | 📁 ok                 |
| ✅ Finished    | PostBank_AE-2023-Q4-0002.zip         | 21.09.2024, 15:12:13 | Emma Johansson | 📁 1 error            |
| ✅ Finished    | PostBank_AE-2024-Q3-0001.zip         | 18.09.2024, 21:45:38 | Olga Ivanova   | 📁 1 error            |
| ✅ Finished    | Bankington-COREP_OF-2024-Q3-0001.zip | 14.09.2024, 14:26:19 | Emma Johansson | 📁 ok                 |
| ✅ Finished    | Bankington-COREP_LR-2024-Q3-0002.zip | 12.09.2024, 16:43:09 | Emma Johansson | 📁 ok                 |
| ✅ Finished    | FiliBank-COREP_LR-2024-Q3-0002.zip   | 08.09.2024, 19:12:08 | Laura Müller   | 📁 2 warnings         |

➡ Log out



Validating Bankington-COREP\_LR-2024-Q4-0002.zip



1

2



[+ New execution](#)[📄 Executions](#) •[📁 Filings status](#)[📈 Statistics](#)[⚙️ Settings](#)[🔗 Explorer](#) 📄**Bankington-COREP\_OF-2024-Q4-0001.zip**

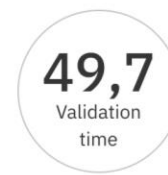
07.10.2024, 09:32:08 | Assigned to Laura Müller

[📁 Full validation](#)**2 warnings****Execution information** ⓘ

|                        |                                            |                    |                                  |
|------------------------|--------------------------------------------|--------------------|----------------------------------|
| 📄 <b>File:</b>         | Bankington-COREP_OF-2024-Q4-0001.zip       | 📄 <b>Checksum:</b> | b8d72777291798fee4a44a80058630df |
| 📄 <b>Dependencies:</b> | [COREP_LE] Bankington-COREP_LE-2024-QA.zip |                    |                                  |
|                        | [COREP_LR] Bankington-COREP_LR-2024-QA.zip |                    |                                  |
| 📄 <b>Submitted by:</b> | Laura Mateos                               |                    |                                  |

[📄 Download execution report \(JSON\)](#)**Statistics**

|                                |         |          |
|--------------------------------|---------|----------|
| 🔄 <b>Number of validations</b> | 200     | (100,0%) |
| ● <b>Warnings</b>              | 2       | (01,0%)  |
| ● <b>Errors</b>                | 0       | (00,0%)  |
| ● <b>Exceptions</b>            | 0       | (00,0%)  |
| ● <b>Ok</b>                    | 198     | (99,0%)  |
| determined by preconditions    | 18/198  | (61,4%)  |
| 🕒 <b>Time</b>                  | 49,7seg |          |



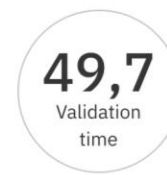
[+ New execution](#)[📄 Executions](#) •[📁 Filings status](#)[📈 Statistics](#)[⚙️ Settings](#)[🔗 Explorer](#) [➔ Log out](#)**Bankington-COREP\_OF-2024-Q4-0001.zip**

07.10.2024, 09:32:08 | Assigned to Laura Müller

Full validation

**2 warnings****Execution information** ⓘ **File:** Bankington-COREP\_OF-2024-Q4-0001.zip **Dependencies:** [COREP\_LE] Bankington-COREP\_LE-2024-QA.zip  
[COREP\_LR] Bankington-COREP\_LR-2024-QA.zip **Checksum:** b8d72777291798fee4a44a80058630df **Checksum:** 2b067c0dc7c273c6526b77418a8bd3 **Checksum:** a35b7ff0f0d91dcc462c8afb46c8e022 **Submitted by:** Laura Mateos [Download execution report \(JSON\)](#)**Statistics**

|                              |         |          |
|------------------------------|---------|----------|
| <b>Number of validations</b> | 200     | (100,0%) |
| ● <b>Warnings</b>            | 2       | (01,0%)  |
| ● <b>Errors</b>              | 0       | (00,0%)  |
| ● <b>Exceptions</b>          | 0       | (00,0%)  |
| ● <b>Ok</b>                  | 198     | (99,0%)  |
| determined by preconditions  | 18/198  | (61,4%)  |
| <b>Time</b>                  | 49,7seg |          |



[+ New execution](#)[📄 Executions](#) •[📁 Filings status](#)[📈 Statistics](#)[⚙️ Settings](#)[🔗 Explorer](#) [🚪 Log out](#)**Bankington-COREP\_OF-2024-Q4-0001.zip**

07.10.2024, 09:32:08 | Assigned to Laura Müller

Full validation

2 warnings

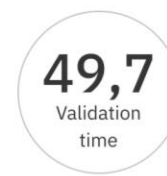
**Execution information** ⓘ

📄 **File:** Bankington-COREP\_OF-2024-Q4-0001.zip

📄 **Dependencies:** [COREP\_LE] Bankington-COREP\_LE-2024-QA.zip  
[COREP\_LR] Bankington-COREP\_LR-2024-QA.zip

**Checksum:** b8d72777291798fee4a44a80058630df **Checksum:** 2b067c0dc7c273c6526b77418a8bd3 **Checksum:** a35b7ff0f0d91dcc462c8afb46c8e022 **Submitted by:** Laura Mateos [Download execution report \(JSON\)](#)**Statistics**

|                                |         |          |
|--------------------------------|---------|----------|
| 🔄 <b>Number of validations</b> | 200     | (100,0%) |
| ● <b>Warnings</b>              | 2       | (01,0%)  |
| ● <b>Errors</b>                | 0       | (00,0%)  |
| ● <b>Exceptions</b>            | 0       | (00,0%)  |
| ● <b>Ok</b>                    | 198     | (99,0%)  |
| determined by preconditions    | 18/198  | (61,4%)  |
| 🕒 <b>Time</b>                  | 49,7seg |          |



[+ New execution](#)[📄 Executions](#) •[📁 Filings status](#)[📈 Statistics](#)[⚙️ Settings](#)[🔗 Explorer](#) [➔ Log out](#)**Bankington-COREP\_OF-2024-Q4-0001.zip**

07.10.2024, 09:32:08 | Assigned to Laura Müller

Full validation

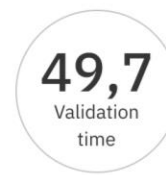
2 warnings

**Execution information** ⓘ

|                 |                                            |             |                                  |
|-----------------|--------------------------------------------|-------------|----------------------------------|
| 📄 File:         | Bankington-COREP_OF-2024-Q4-0001.zip       | 📄 Checksum: | b8d72777291798fee4a44a80058630df |
| 📄 Dependencies: | [COREP_LE] Bankington-COREP_LE-2024-QA.zip |             |                                  |
|                 | [COREP_LR] Bankington-COREP_LR-2024-QA.zip |             |                                  |
| 📄 Checksum:     | 2b067c0dcbc7c273c6526b77418a8bd3           |             |                                  |
| 📄 Checksum:     | a35b7ff0f0d91dcc462c8afb46c8e022           |             |                                  |
| 👤 Submitted by: | Laura Mateos                               |             |                                  |

[📄 Download execution report \(JSON\)](#)**Statistics**

|                             |         |          |
|-----------------------------|---------|----------|
| 🔄 Number of validations     | 200     | (100,0%) |
| ● Warnings                  | 2       | (01,0%)  |
| ● Errors                    | 0       | (00,0%)  |
| ● Exceptions                | 0       | (00,0%)  |
| ● Ok                        | 198     | (99,0%)  |
| determined by preconditions | 18/198  | (61,4%)  |
| 🕒 Time                      | 49,7seg |          |



[+ New execution](#)[📄 Executions](#) ●[📁 Filings status](#)[📈 Statistics](#)[⚙️ Settings](#)[🔗 Explorer](#) 📄[🚪 Log out](#)

Bankington-COREP\_OF-2024-Q4-0001.zip

07.10.2024, 09:32:08 | Assigned to Laura Müller

[📁 Full validation](#)[2 warnings](#)[▼](#) [1/2](#) | **WARNING #v8070\_m** (1 occurrence)[5 comments](#)**DPM\_XL: with {tC\_90.00, r\*}:**

```
{c0070} * {c0080} * {c0090} * {c0100} * {c0070} * {c0080} * {c0090} * {c0100} * {c0101} * {c0102} * {c0103} * {c0104}
=
{c00200} + {c0090} * {c0100} * {c0070} * {c0080}
```

**Interval:** 158,602,200.0 +- 0.5 = 169,602,200.0 +- 2.5**Occurrence 1 - #v8070\_m****with {tC\_90.00, r20}:**

```
{641} * {43,215} * {32} * {42} * {1} * {78} * {12} * {8,976} * {9} * {2} * {7} * {9}
= {c00200} + {c0090} * {c0100} * {c0070} * {c0080}
```

**Key variable:** "RCP" = "KY"**Headers:** r0020 ; c0030 ; s0040**Comments (5)****Laura Müller** · 6 days ago

We need to review this validation for the next quarter. Please @Pierre-Dubois, check the dependencies to find the two warnings and re-run the execution. I am sending you the necessary .zip files via email for review. Please check with the team if they have experienced similar issues. Thank you!

# UX



# OX



```
gustavo@ub2404-srv-test:~/adam-engine-dist-0.6.0-pre3$ python3 adam_client.py --input-path data-examples/RESOL-1.2.1.zip
```

```
Starting validation of data-examples/RESOL-1.2.1.zip
```

```
Validating RESOL
```

```
The overall validation result is: Error
```

```
Validation statistics:
```

- \* 253 validations executed
- \* 0 validations in state Runtime Error (0.0%)
- \* 8 validations in state Error (3.2%)
- \* 17 validations in state Warning (6.7%)
- \* 228 validations in state Ok (90.1%)
  - |-- of which 0 were determined by preconditions (0.0%)

```
Validations with runtime errors:
```

```
Validations with errors:
```

```
v6519_c
```

```
e6451_e
```

```
v6444_m
```

```
v6446_m
```

```
e6452_e
```

```
e6449_e
```

```
e6448_e
```

```
e6450_e
```

```
Validations with warnings:
```

```
e11280_e
```

```
e11293_e
```

```
e11285_e
```

```
e11287_e
```

```
e11301_e
```

```
e11277_e
```

```
e09354_e
```

```
e11295_e
```

```
e11297_e
```

```
e11327_e
```

```
e11282_e
```

```
e11278_e
```

```
e09344_e
```

```
e11275_e
```

```
v11220_s
```

```
e09342_e
```

```
e11291_e
```

```
The JSON validation results are available at /tmp/RESOL-1.2.1.zip_validation_results.json
```

```
The CSV validation results are available at /tmp/RESOL-1.2.1.zip_validation_results.csv
```

```
gustavo@ub2404-srv-test:~/adam-engine-dist-0.6.0-pre3$ █
```

```
gustavo@ub2404-srv-test:~/adam-engine-dist-0.6.0-pre3$ python3 adam_client.py --bulk --input-path data-examples/
```

```
processed 1/6 (16.7%): data-examples/COREP_LE.xbrl
```

```
processed 2/6 (33.3%): data-examples/AE-1.2.0.zip
```

```
processed 3/6 (50.0%): data-examples/RESOL-1.2.1.zip
```

```
processed 4/6 (66.7%): data-examples/COREP_OF-3.1.0.zip
```

```
processed 5/6 (83.3%): data-examples/FINREP9-3.1.0.zip
```

```
processed 6/6 (100.0%): data-examples/COREP_LE-3.1.0.zip
```

| File               | Module   | Summary | # Validations | # Error | # Warning | # Ok | # Runtime error | Conv time | Val time | Time |
|--------------------|----------|---------|---------------|---------|-----------|------|-----------------|-----------|----------|------|
| AE-1.2.0.zip       | AE       | Error   | 228           | 56      | 0         | 172  | 0               |           | 0.2      | 0.2  |
| COREP_LE-3.1.0.zip | COREP_LE | Error   | 21            | 18      | 0         | 3    | 0               |           | 1.3      | 1.3  |
| COREP_LE.xbrl      | COREP_LE | Ok      | 21            | 0       | 0         | 21   | 0               | 0.0       | 0.0      | 0.1  |
| COREP_OF-3.1.0.zip | COREP_OF | Error   | 1220          | 8       | 18        | 1194 | 0               |           | 10.6     | 10.6 |
| FINREP9-3.1.0.zip  | FINREP9  | Error   | 2311          | 8       | 4         | 2299 | 0               |           | 6.4      | 6.4  |
| RESOL-1.2.1.zip    | RESOL    | Error   | 253           | 8       | 18        | 227  | 0               |           | 0.6      | 0.6  |

#### Table legend:

- \* Conv time: time spent converting from XBRL-XML to XBRL-CSV, if applicable
- \* Val time: time spent validating XBRL-CSV
- \* Time: total time spent in conversion and validation

#### Notes:

- \* All times are expressed in seconds
- \* Per file validation JSON results are available at /tmp/FILENAME\_validation\_results.json
- \* Per file validation CSV results are available at /tmp/FILENAME\_validation\_results.csv
- \* Per file validation outputs are available at /tmp/FILENAME\_validation\_outputs.txt

The summary of the bulk validation process is available at:  
/tmp/bulk\_validation\_results.csv

The details of the bulk validation process are available at:  
/tmp/bulk\_validation\_results\_details.csv

```
gustavo@ub2404-srv-test:~/adam-engine-dist-0.6.0-pre3$
```

```
def validate(input_data: Path, module_name, script_filename, verbose, bulk=False, force=False):

    print(f"Validating {module_name}")

    script_file = Path(__file__).parent.parent / "validation-scripts" / script_filename

    check_input_file(script_file, True)
    print()

    try:
        engine = Engine()
        results_summary, results, results_stats, df_results_table = engine.validate(operations_path=script_file, xbrl_csv_path=input_data, is_verbose=verbose, is_force=force)
        result = json.loads(results)
    except Exception as e:
        print(e)
        print("There was an exception during the execution of the ADAM Engine")
        if bulk:
            raise
        else:
            exit(E_ERR)

    return results_summary, results_stats, results, df_results_table
```

# UX



Drag and drop  
Guided experience  
Self explanatory results

Python

CLI

REST

Queues

Provider independence



# OX

# UX



Drag and drop  
Guided experience  
Self explanatory results

## Performance?

Python

CLI

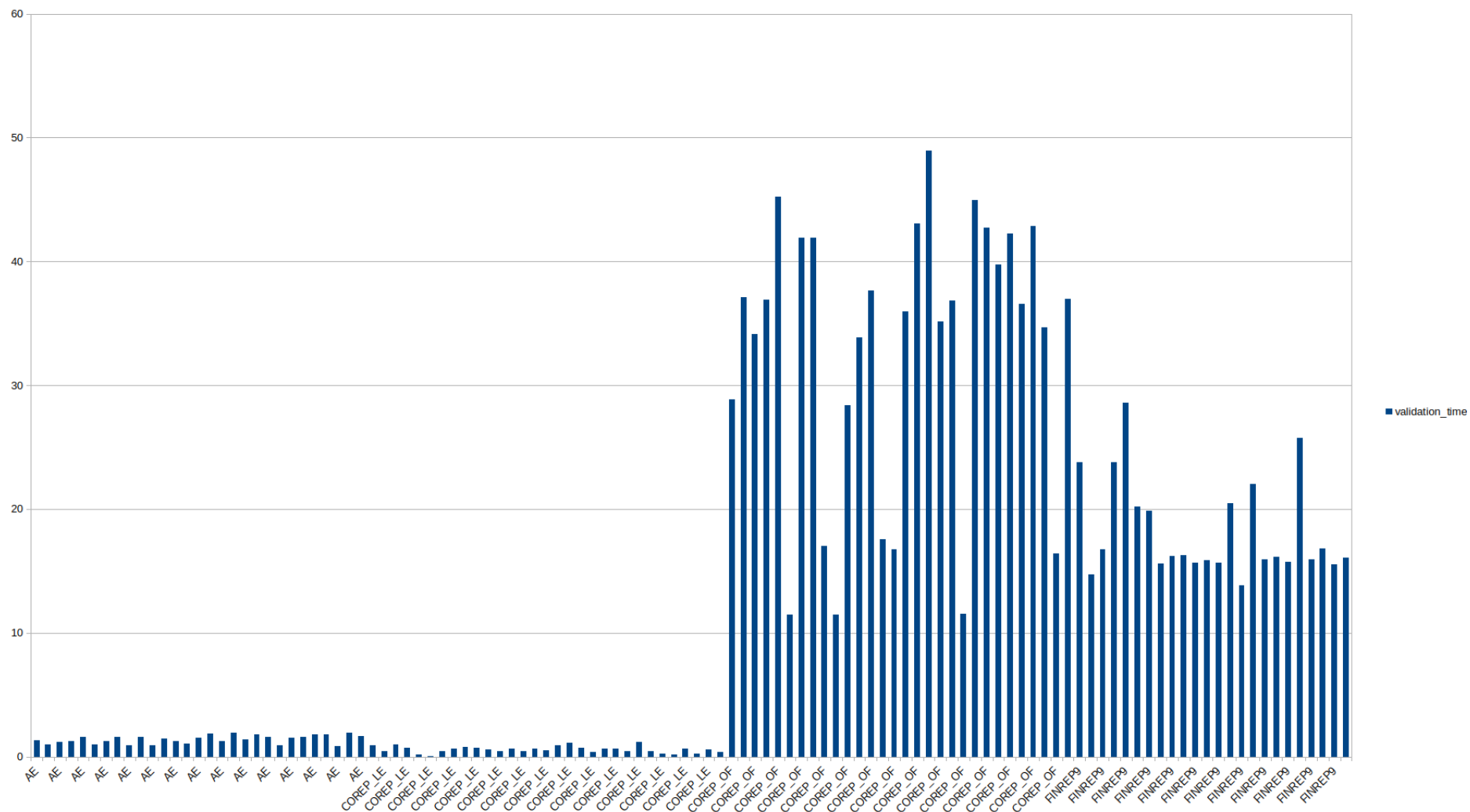
REST

Queues

Provider independence

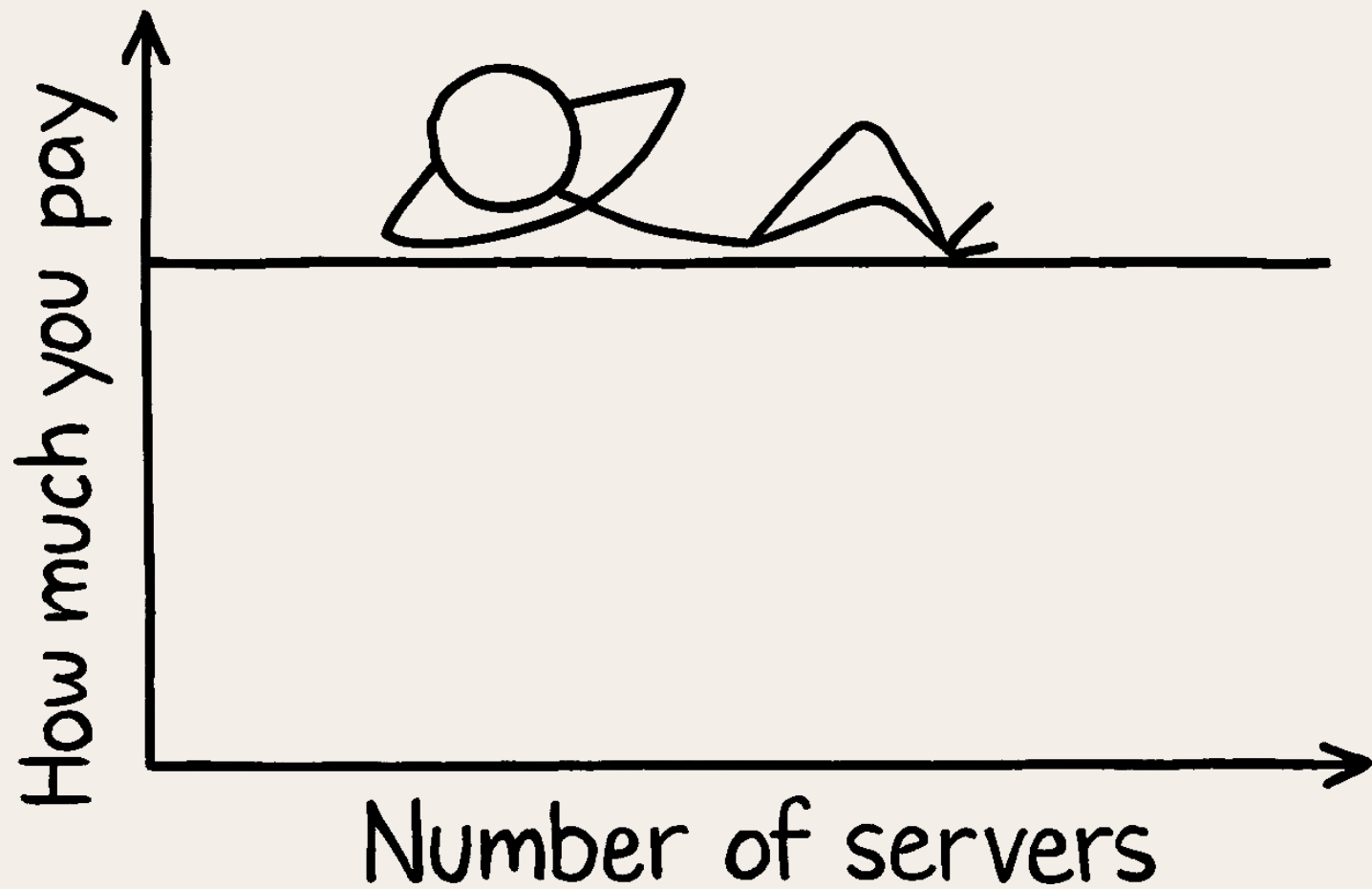


# OX



CONVINCED?

# Flat Rate Pricing







Validator

**THANK YOU**

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