Hyperion Focus 2015

Experiences with Report Authority in Saxo Bank and future development perspectives

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Amosca/Saxo Bank

Joint agenda

- The Saxo Bank regulatory reporting solution - SCN
- Oracle Hyperion and Report Authority – experiences - SCN
- Next step – SCN
- Feedback driven improvements – MG
- Changes to EBA filing rules and its impact on Report Authority
- Changes to how Report Authority is being used as seen from the Vendor perspective - MG
- Development directions – roadmap – what to expect - MG
- Questions

Saxo Bank – Some key figures

- Employees: >1400
- Nationalities: 59
- Spoken languages in the bank: 40
- Offices: 25 countries
- No. of FX trades per day: 170,000
- Daily average turnover: 100 billion DKK
- No. of countries with retail clients: 190
- Saxo Bank has three specialised and integrated trading platforms.
- SaxoTrader languages: 25
- Gross profit: <0,15 DKK per 1,000 DKK traded
- Financial instruments: more than 25,000
- Received prices per day: 5-6 billion.

Saxo Bank Business Model

PROVIDER OF PRICES AND PRODUCTS

12
large international banks

45
exchanges
NASDAQ, NYSE, OMX, LSE, GLOBEX, EUREX etc.

35
other trading facilities
Chi-X, Turquoise etc.

SAXO BANK

Saxo Bank's online trading platform

SAXO BANK CLIENTS

Private

White Label Clients
Banks, brokerages, etc. using Saxo Bank's trading platform

Institutional

SaxoTrader

SaxoWebTrader

SaxoMobileTrader

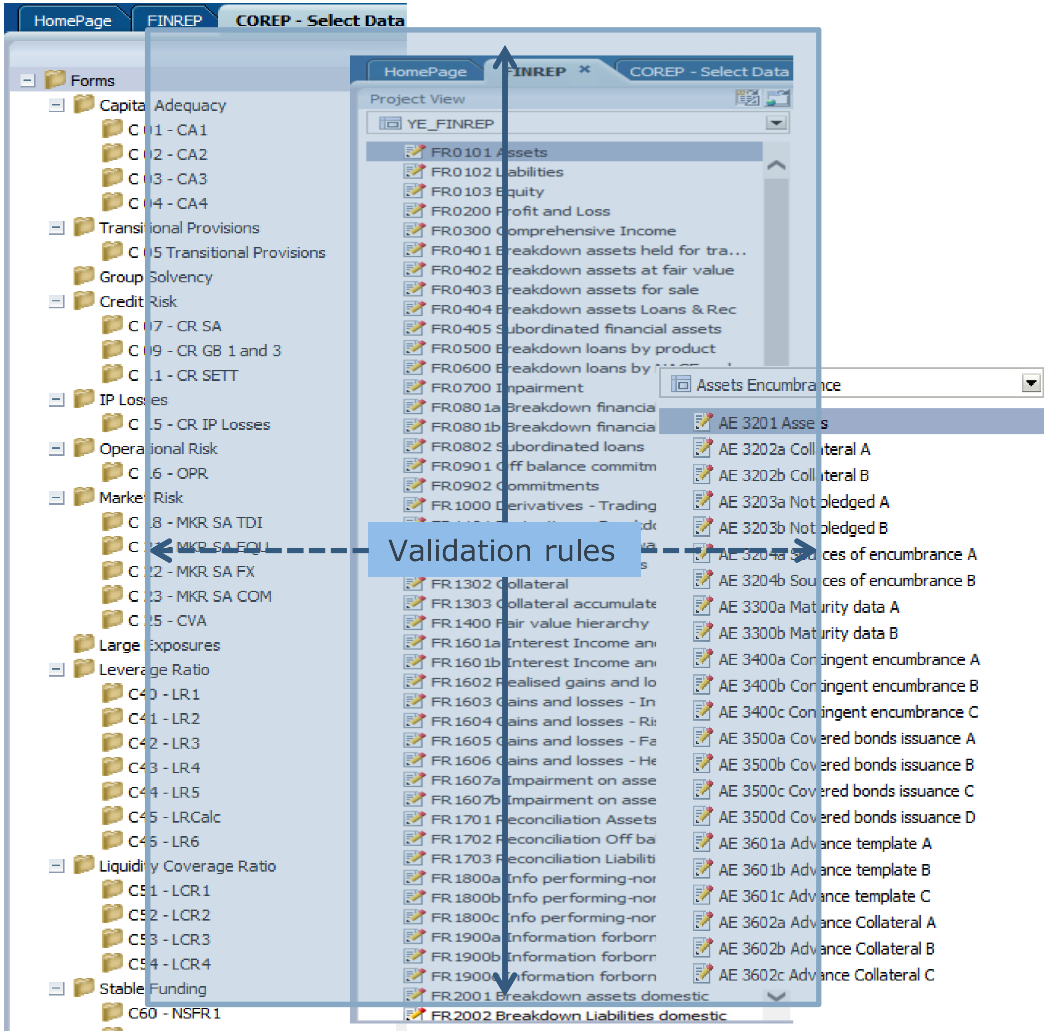
Regulatory reporting challenges – CRD4

- 37 COREP schedules
- 72 FINREP schedules
- 23 Asset Encumbrance schedules
- Many schedules to be specified on:
  - Geography (155)
  - Currencies (40)
  - Exposure classes (15)

➔Several hundred of thousands of data points

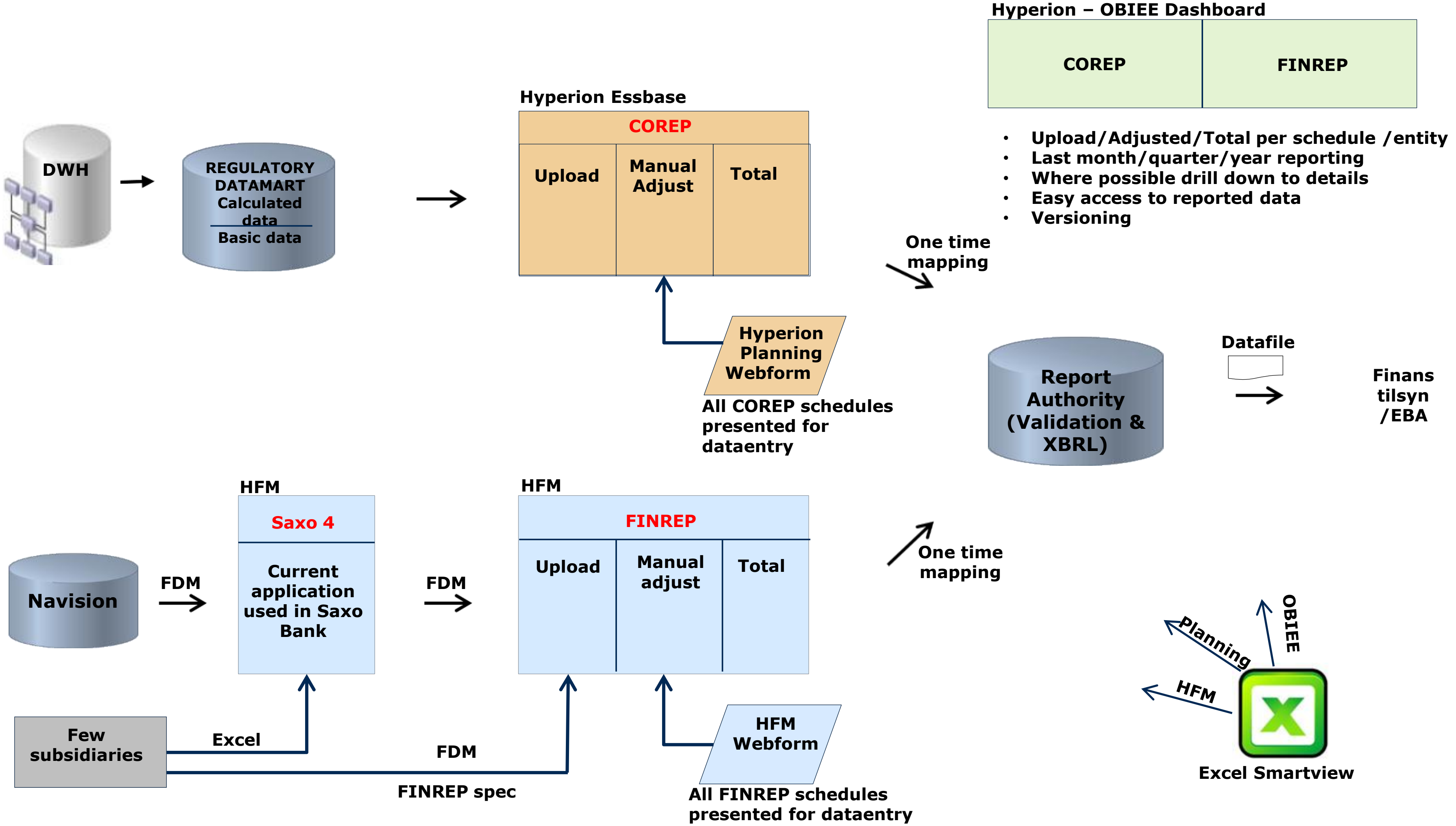
➔ To be reported by Parent and Group entities

➔ To be reported quarterly to financial authorities respecting the *EBA Validation Rules* and in XBRL Format



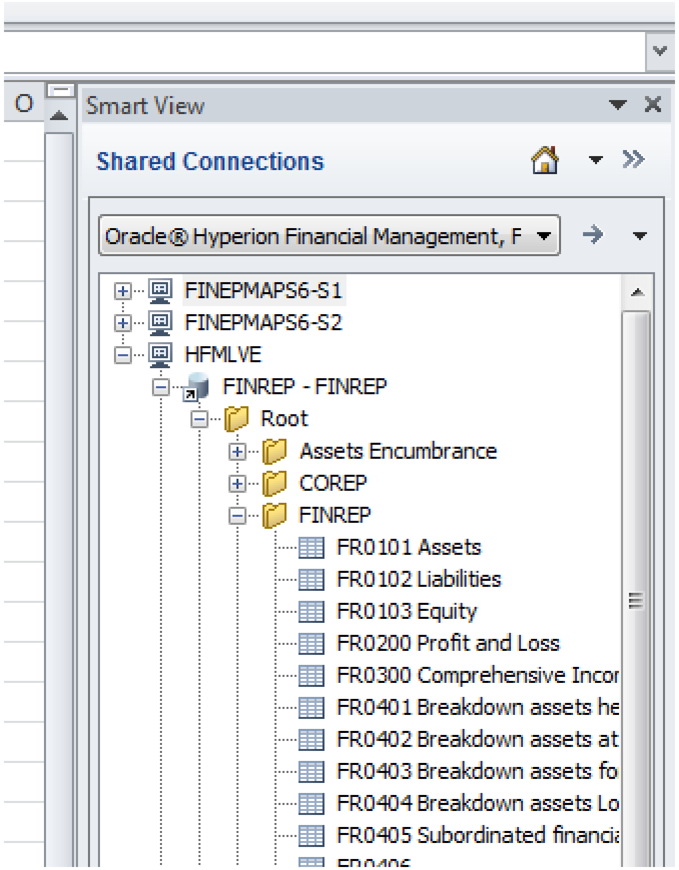
SAXO BANK

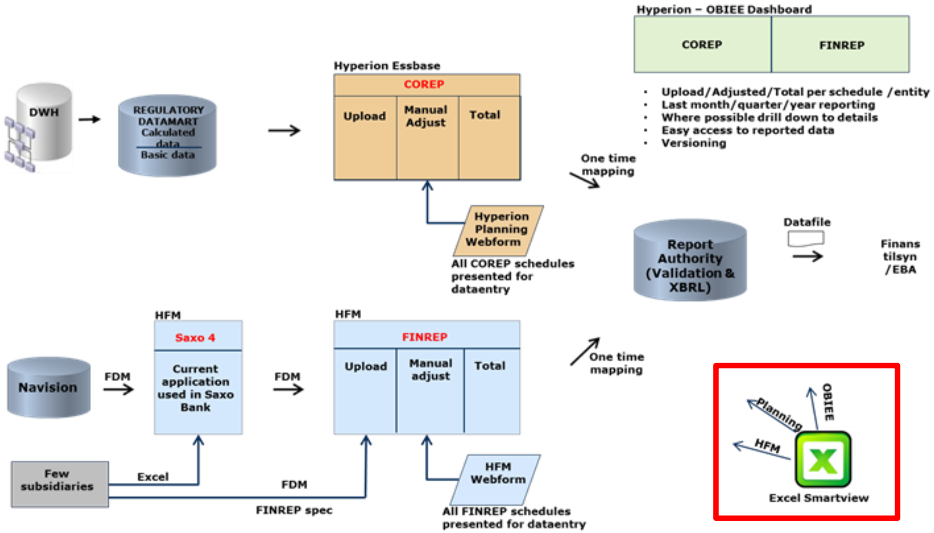
Saxo Bank current Regulatory reporting landscape



Saxo Bank CRD 4 reporting – Tools used for regulatory reporting

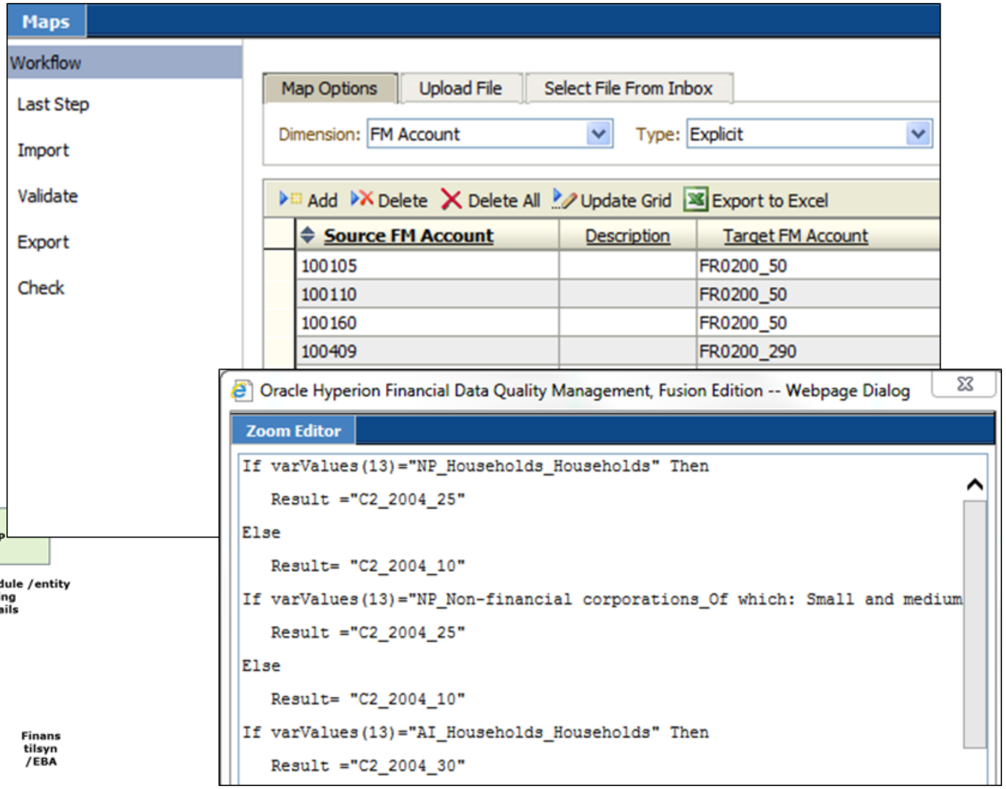
- Excel Smartview
  - Access to HFM, Planning, OBIEE
  - Used to upload data, manual entering of data
  - Analysis

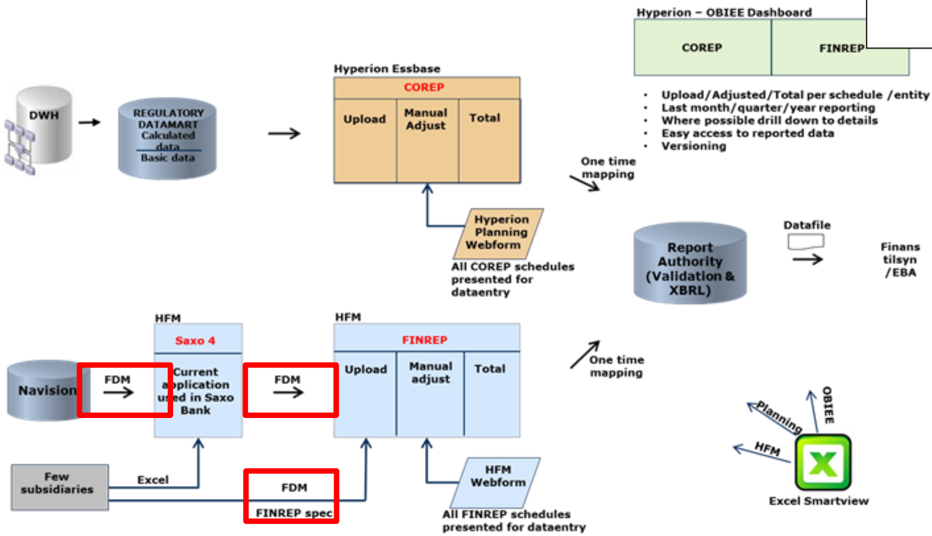




Saxo Bank CRD 4 reporting – Tools used for regulatory reporting

- FDM
  - Upload to HFM
  - Filebased
    - Txt-files
    - Excel
  - Directly to regulatory schedule and relevant entity





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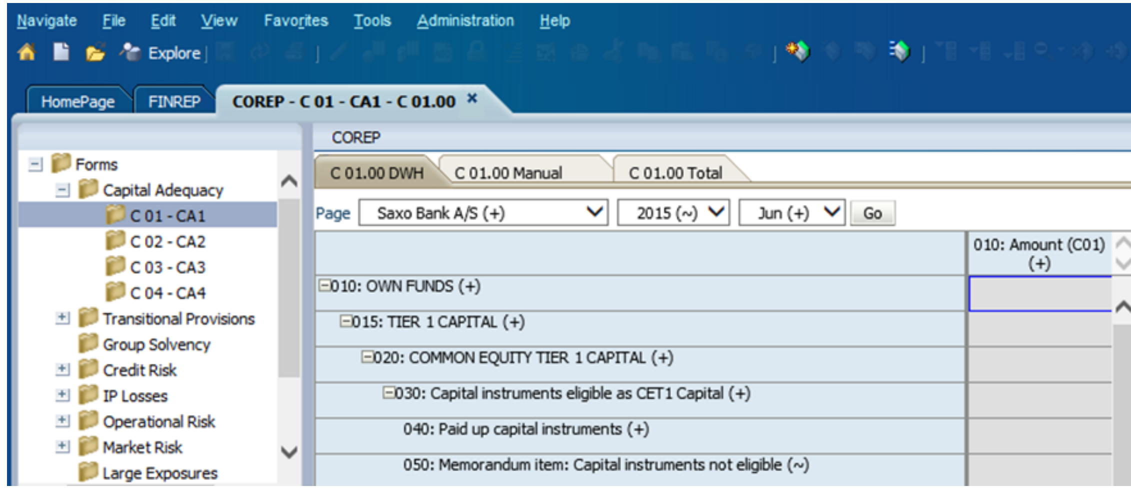
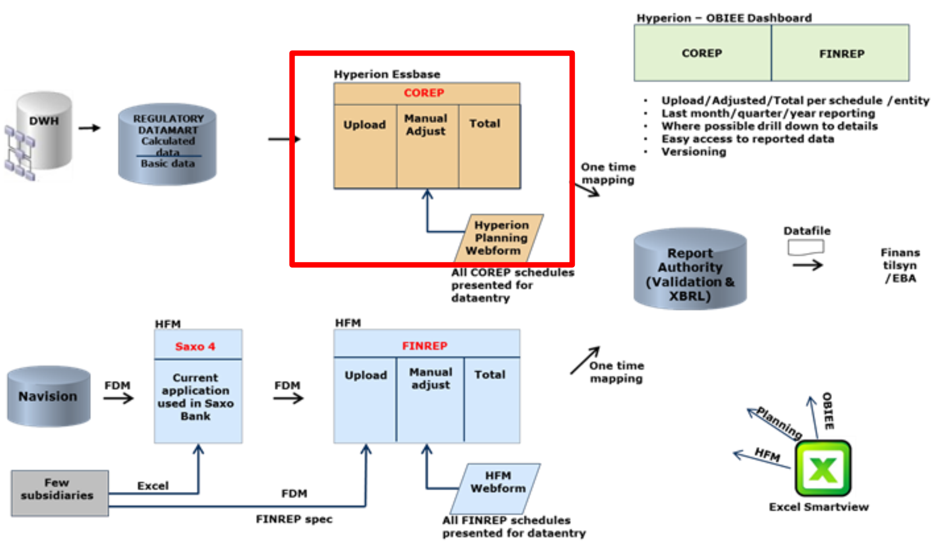
Saxo Bank CRD 4 reporting – Tools used for regulatory reporting

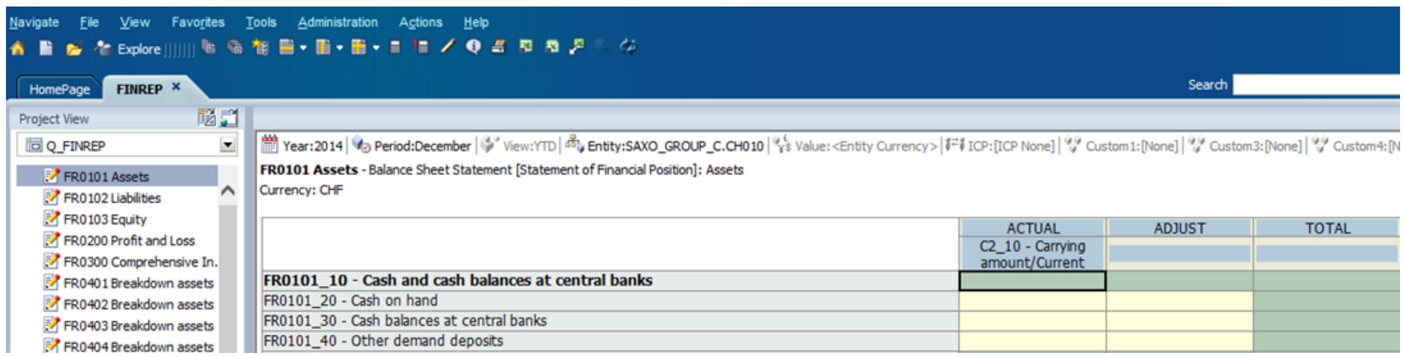
- Hyperion Planning (Own Funds, LCR, Stable Funding)
  - Provides structured access to COREP schedules
  - Calculates interdependency between schedules (user controlled)
  - Easy to see data uploaded- adjusted-total

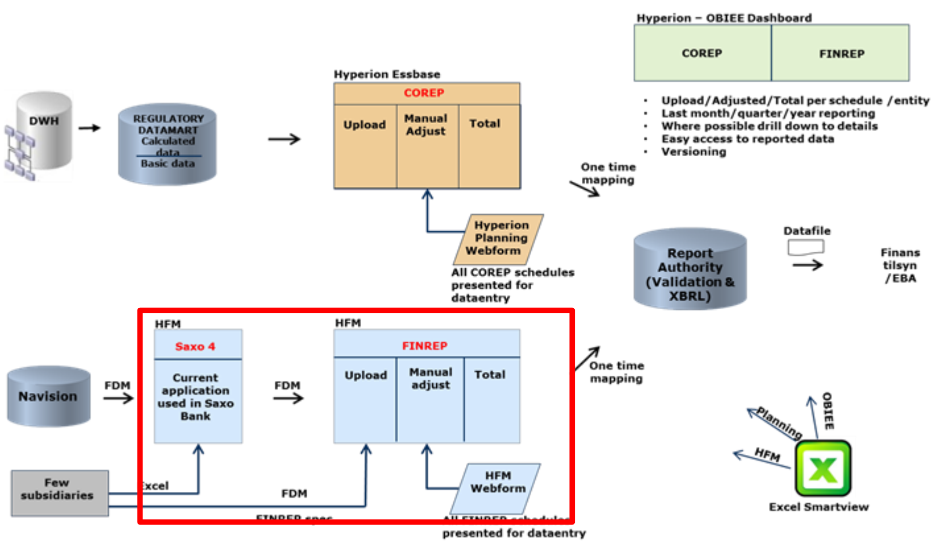




Saxo Bank CRD 4 reporting – Tools used for regulatory reporting

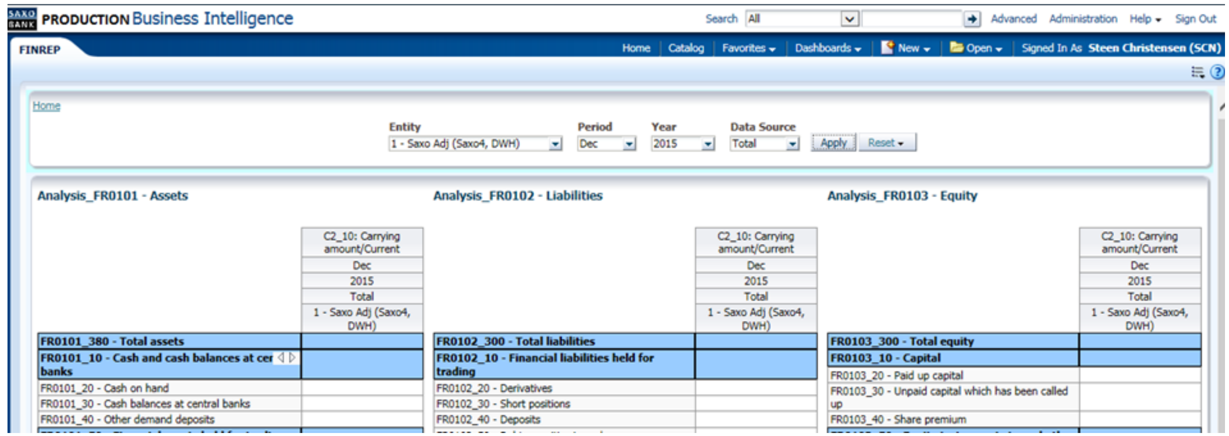
- HFM (FINREP, Asset Encumbrance, Large Exposures)
  - Structured access
  - Known tool to Finance
  - Consolidation
  - Reports

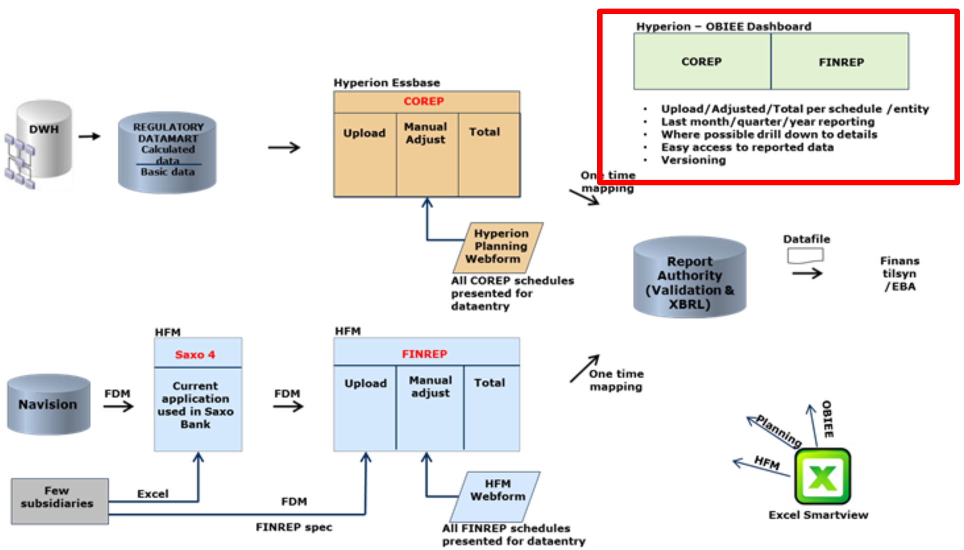


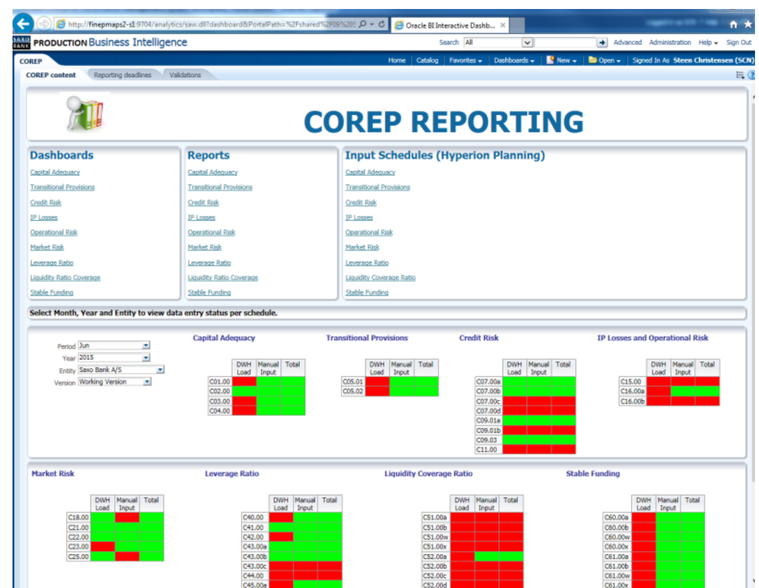


Saxo Bank CRD 4 reporting – Tools used for regulatory reporting

- OBIEE dashboards
  - Easy access to historic data
  - Per schedule/entity/datasource
  - Connecting sourcedata (DWH) with reported data
  - Management and analysis tool







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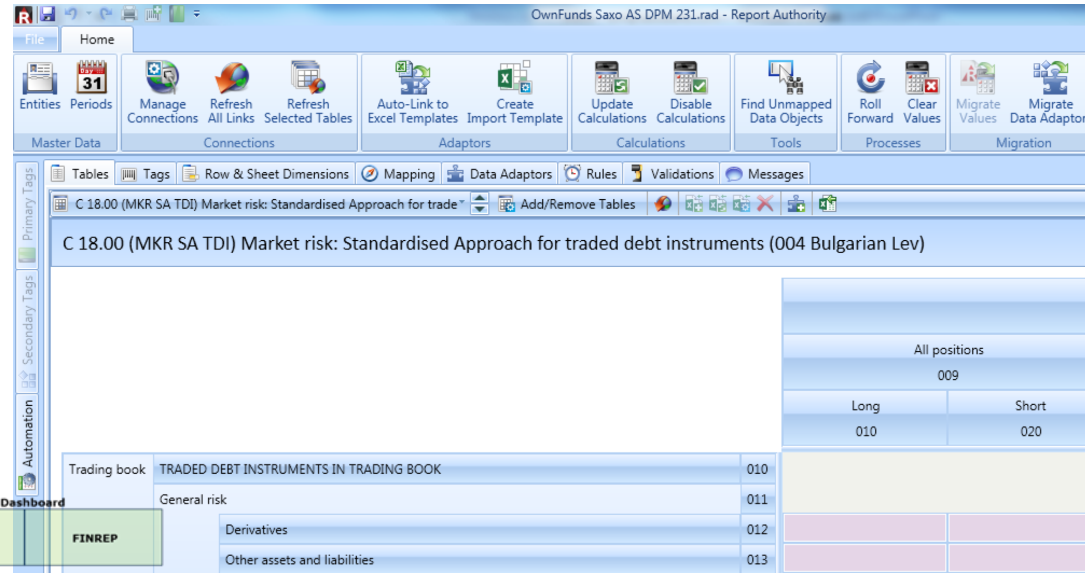
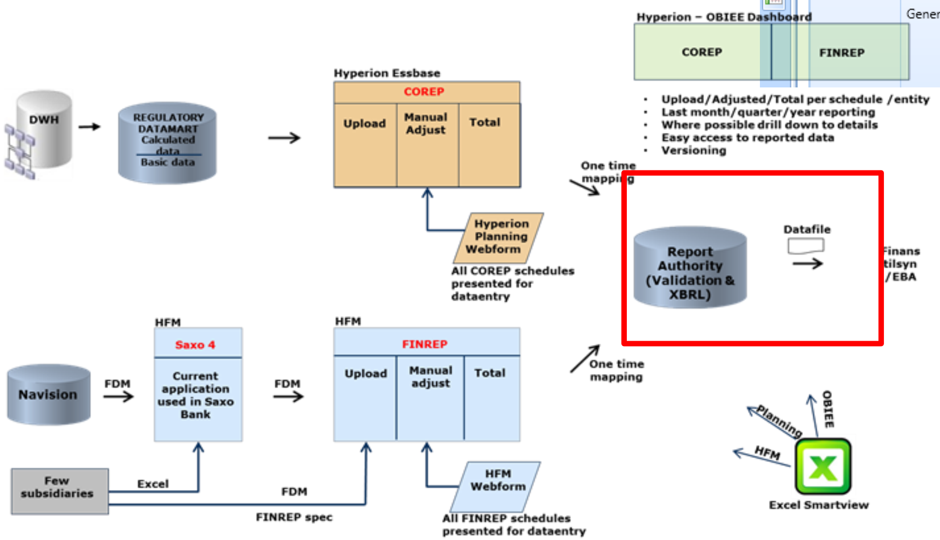
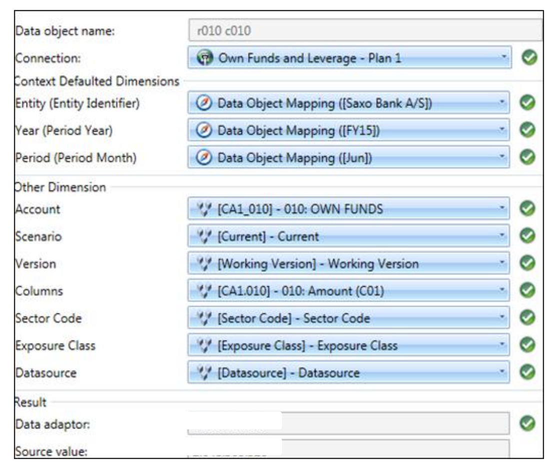
Saxo Bank CRD 4 reporting – Tools used for regulatory reporting

- Report Authority (Validations and XBRL format for FSA/EBA)
  - XBRL file
  - Validation of schedules
  - Updates received by Amosca on quarterly basis or when changes in taxonomy from EBA (master)
  - Easy mapping from HFM and Planning







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Oracle Hyperion and Report Authority - experiences

- How to work with RA
  - Easy and simple tool which does what it is meant for: Generate XBRL file when validations are correct
  - HFM and Essbase connection stable and performance OK (with our database size and complexity)
  - Several RA instances open at the same time
  - Easy mapping of 12 dimensions in one action – feature for finding unmapped cells
- Observations
  - Connectivity
    - Stable – but in our case only working with direct server address and not with domain-name
  - Metadata changes
    - Remember to disconnect RA when updating metadata in Essbase and HFM
  - Remapping
    - When schedules are changed and need to be remapped other cells in the schedule may also be affected and need remapping
  - Validation
    - Improved tremendously by now showing actual values and calculated differences

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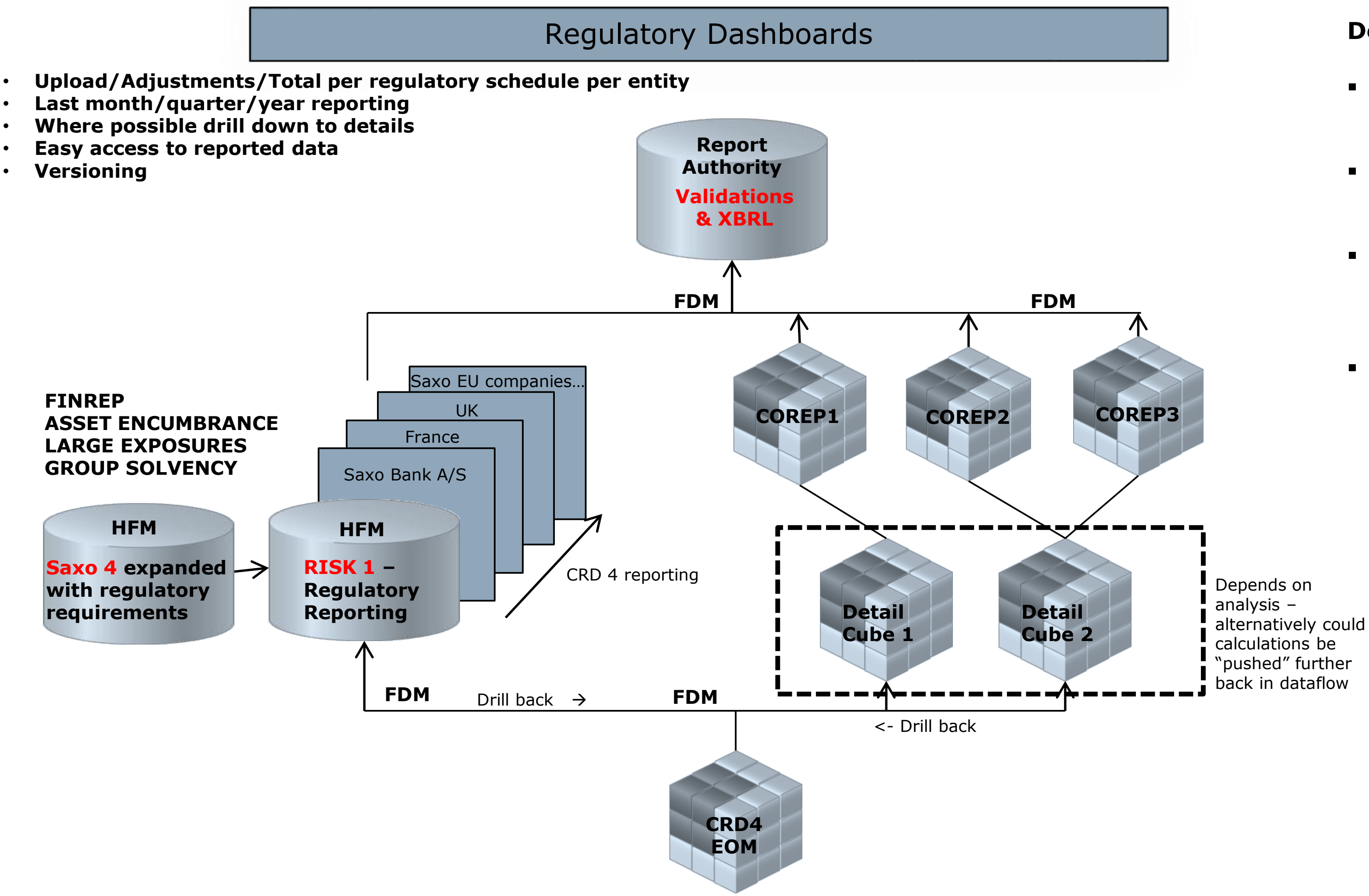
Oracle Hyperion and Report Authority - experiences

- Improvements/ideas
  - **Output-formats** – currently only export to Excel – not even a txt-file: Why not use the data in RA to provide some information about the data reported?
    - In Saxo Bank we export the data back to HFM, but via a very “bumpy” road: RA->Excel->Excel Macro-> Excel import file in HFM format-> HFM
    - Why not apply a FDM interface to RA for easy export?
  - **HFM status:** Show HFM calculation status in RA before refreshing links. Then refreshing data is not done in vain
  - **Server-based:** Web-enable RA will open of the data access and possibilities. Store historic data reported in RA – show time series and relevant graphs and tables

Next step - To-be view – Regulatory Reporting System



Design keywords:

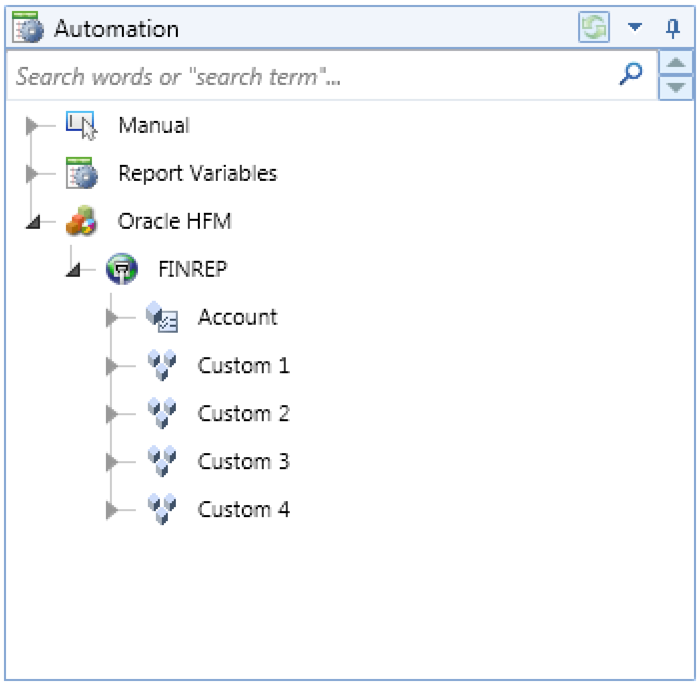
- **Transparency and clear audit trail**
- **Drill back to details**
- **Business owned and executed processes**
- **Scalability**

Continuous Development

- Feedback driven improvements
- Changes required due to updated EBA taxonomies and filing rules
- Changes in how Report Authority is being used as seen from the Vendor perspective
- Report Authority Roadmap

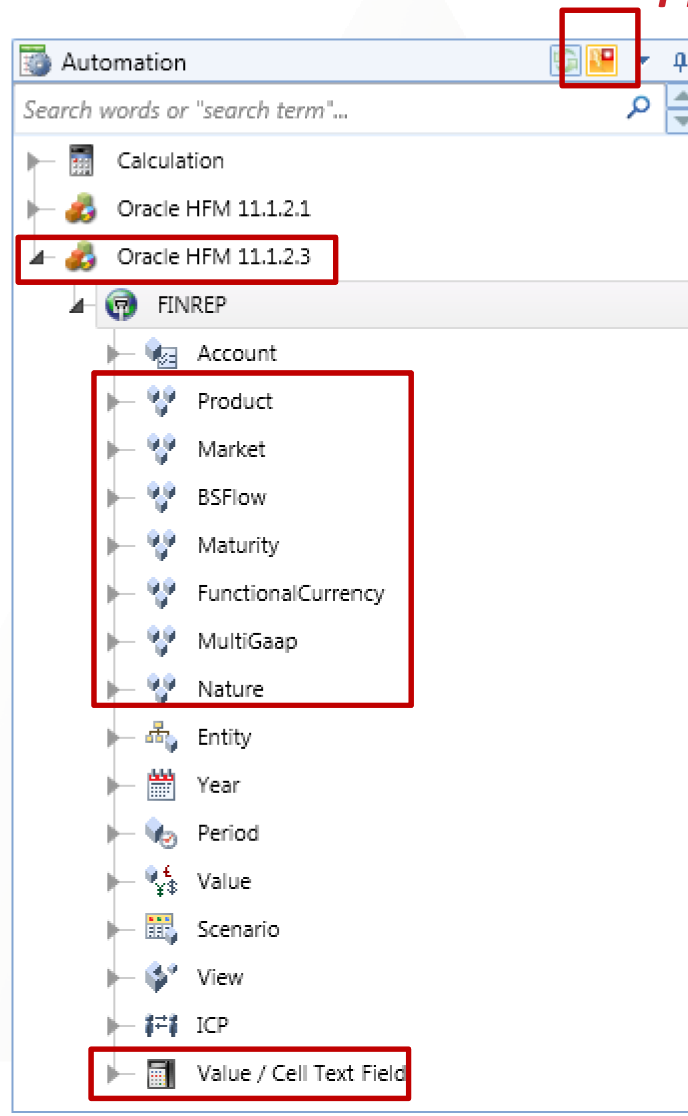
Feedback Driven Improvements

- Mapping efficiency



- Changes in number of Essbase dimensions
- Easier Migration (coming)

Mapping



REPORT AUTHORITY

Feedback Driven Improvements

Validations

Drag a column header and drop it here to group by that column

Result	Category	Validation Message
!	Table Rules (F 01.01)	Rule v0768_m : The rule '[F 01.01 r380 c010] = [F 01.01 r010 c010] + [F 01.01 r050 c010] + [F 01.01 r091 c010] + [F 01.01 r100 c010] + [F 01.01 r140 c010] + [F 01.01 r171 c010] + [F 01.01 r175 c010] + [F 01.01 r180 c010] + [F 01.01 r210 c010] + [F 01.01 r231 c010] + [F 01.01 r234 c010] + [F 01.01 r240 c010] + [F 01.01 r250 c010] + [F 01.01 r260 c010] + [F 01.01 r270 c010] + [F 01.01 r300 c010] + [F 01.01 r330 c010] + [F 01.01 r360 c010] + [F 01.01 r370 c010]' has failed validation with a result of : False
!	Table Rules (F 01.01)	Rule v0763_m : The rule '[F 01.01 r010 c010] = Sum([F 01.01 r020 c010], [F 01.01 r030 c010], [F 01.01 r040 c010])' has failed validation with a result of : False

COREP Own Funds DPM 2.3.1 = 1,209 tables, 154,040 validations = <30s

Drag a column header and drop it here to group by that column

Result	Category	Validation Id	Validation Message	Expression	Evaluation Result
!	Table Rules (F 01.01)	v0768_m	F 01.01 r380 c010 = F 01.01 r010 c010 + F 01.01 r050 c010 + F 01.01 r091 c010 + F 01.01 r100 c010 + F 01.01 r140 c010 + F 01.01 r171 c010 + F 01.01 r175 c010 + F 01.01 r180 c010 + F 01.01 r210 c010 + F 01.01 r231 c010 + F 01.01 r234 c010 + F 01.01 r240 c010 + F 01.01 r250 c010 + F 01.01 r260 c010 + F 01.01 r270 c010 + F 01.01 r300 c010 + F 01.01 r330 c010 + F 01.01 r360 c010 + F 01.01 r370 c010	0.00 = 123,456 + 0.00 + 0.00 + 0.00 + 0.00 + 0.00 + 0.00 + 0.00 + 0.00 + 0.00 + 0.00 + 0.00 + 0.00 + 0.00 + 0.00 + 0.00 + 0.00 + 0.00 + 0.00	-123,456.00
!	Table Rules (F 01.01)	v0763_m	F 01.01 r010 c010 = Sum(F 01.01 r020 c010, F 01.01 r030 c010, F 01.01 r040 c010)	123,456 = Sum(100,000, 15,000, 10,000)	-1,544.00

Changes to EBA Taxonomies and Filing Rules

…and its impact on Report Authority and its users

Yesterday, the EBA released two new taxonomies:

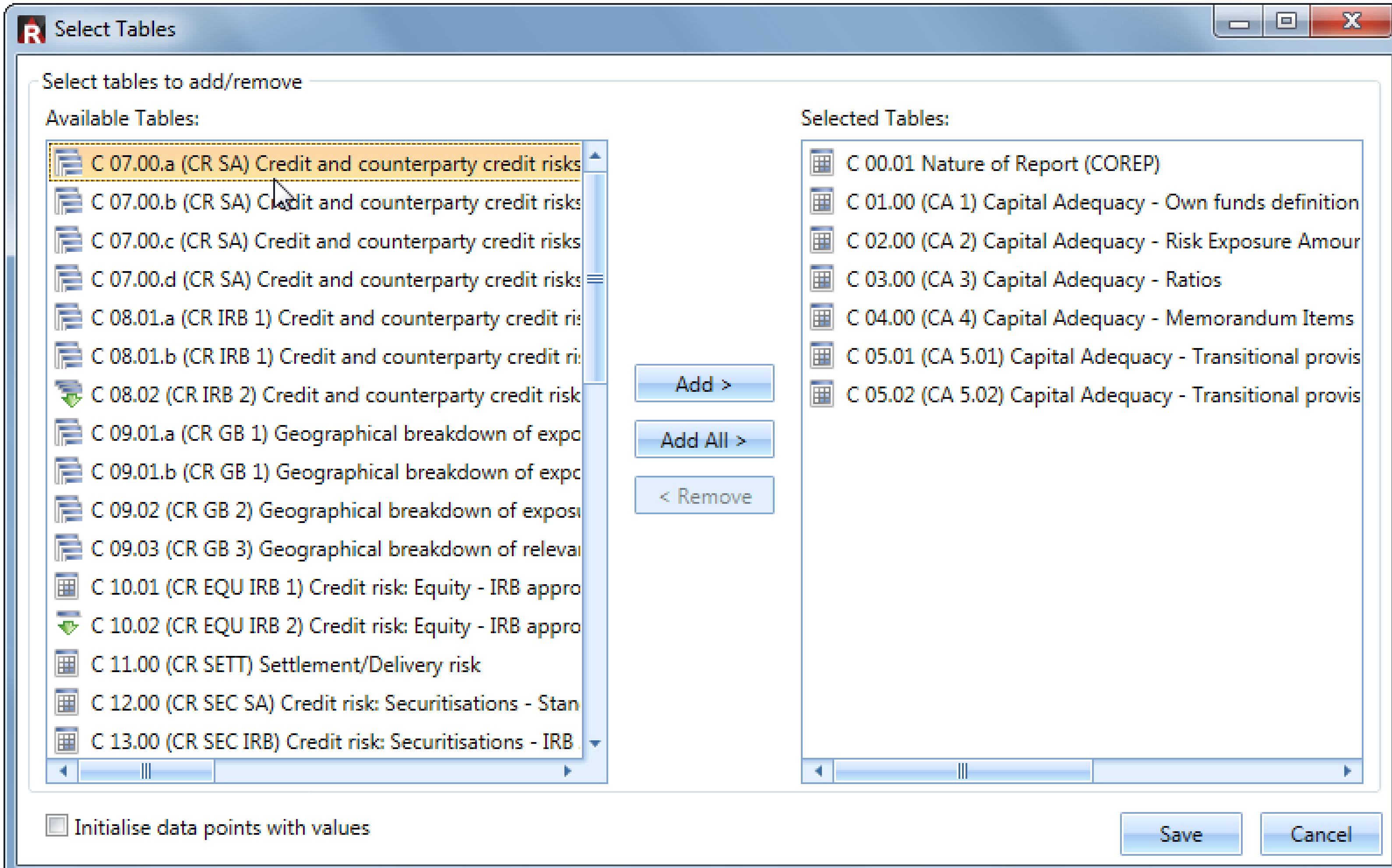
- 2.3.2 – A patch to the current 2.3.1
  - Only adds Individually scoped FINREP
  - Makes no changes to existing 2.3.1 reports, with which it is directly compatible at the instance level.
- 2.4
  - Amends the definition of the (LR) and specifying a new (LCR) framework.
  - Figures for LCR and NSFR should be reported in units of the relevant significant currency.
  - Since the amended LCR and LR ITS will apply 6 months from the date of their publication in the Official Journal, the new 2.4 taxonomy will apply for reference dates following their point of application.

On the 16 April, EBA issued 3rd revision of filing rules

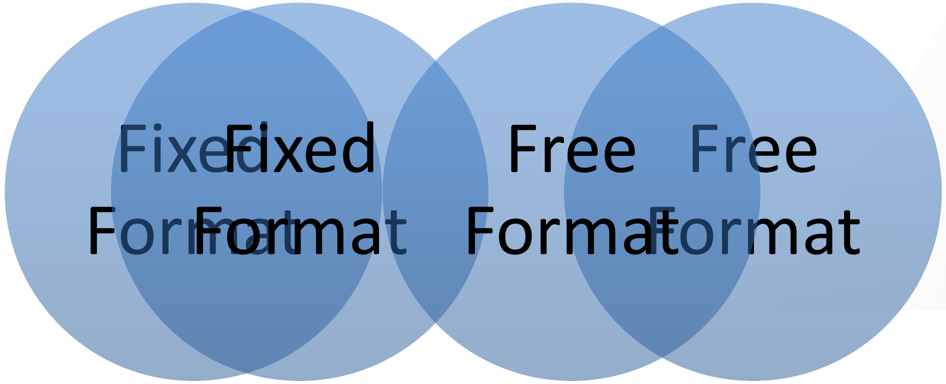
- Negative filing indicators
  - Negative filing indicators MUST be included when a reporting unit is deliberately not reported which is potentially expected by the EBA to be contained in that instance.
  - Filers should aim to comply with this requirement immediately; however the EBA does not intend to strictly enforce this rule earlier than the reporting cycle for reports with reference date Dec 2015 (i.e. no earlier than early 2016).

Changes to EBA Filing Rules

...and its impact on Report Authority and its users

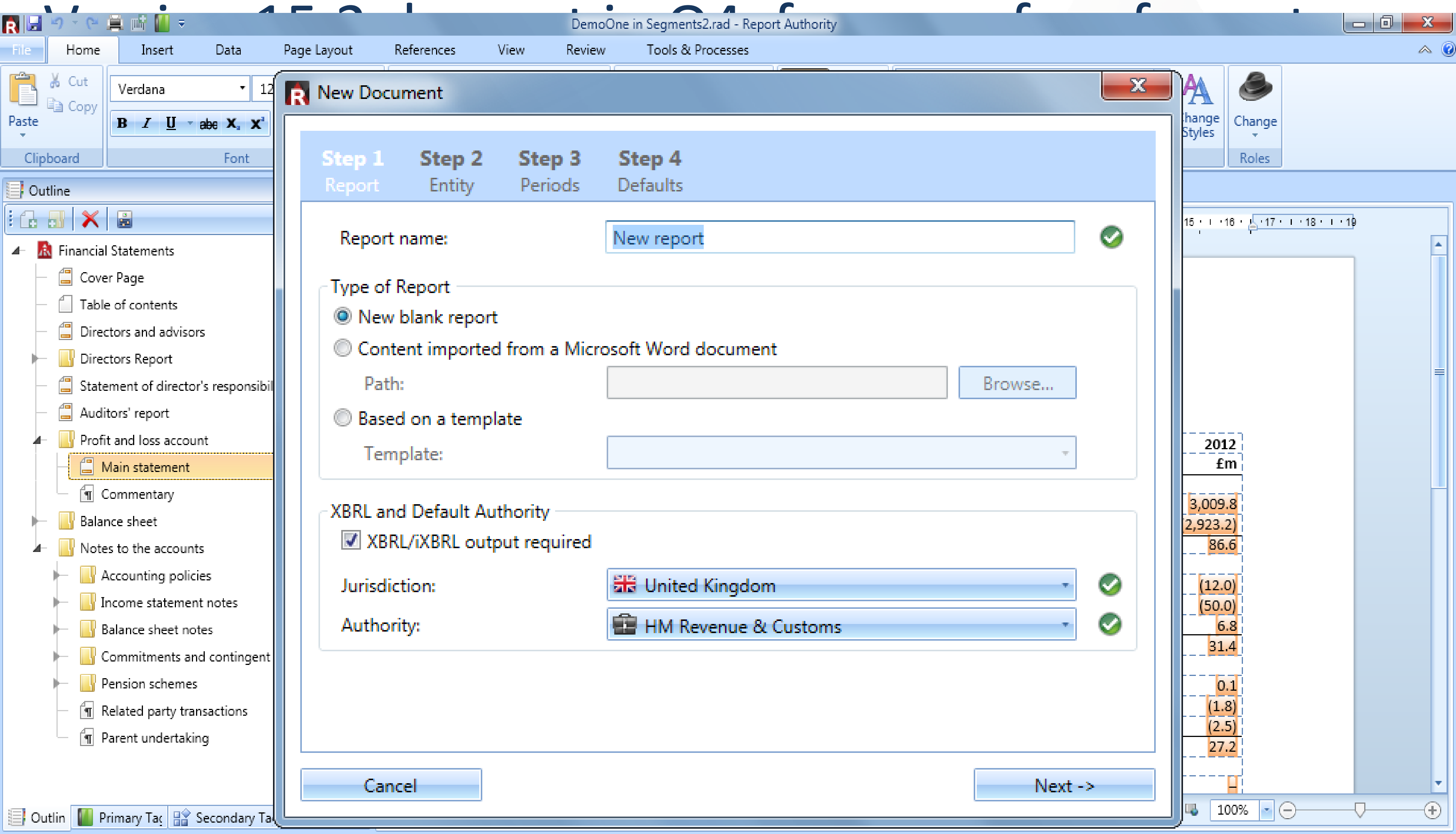


Report Authority in use



- Multi-regulatory reporting
- CRD IV clients using RA for Pillar 3 reporting
- Clients evaluating Oracle EPM adaptors

What's coming



Thank you!

EPM Maestro

Merlin xl

AMOSCA
Balancing Business and Systems

VertexFusion

keyteach

REPORT AUTHORITY

INFRATECTS

nymad

ORACLE

epm FastTrack

Accelatis
Better Performance. Less Guesswork.

UK OUG
UK ORACLE USER GROUP

CXO COCKPIT
WEB-BASED & MOBILE CORPORATE EPM REPORTING

TPH