



Cortell Australia Pty Ltd

CoreBIS

Testing Verification

30/06/2022



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Revision History

Date	Version	Description	Author
24/06/2022	0.1	Create Document	Rodrigo Alvarez
30/06/2022	1.0	Review document	Karl Blackler

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1. Summary

This document sets out what testing has occurred on each change in this Month's CoreBIS release.

2. Code Updates

2.1 CU136: Tagging - Add Selected Item when using Dimensions Attributes get error.

Code Update: When a user tries to add a new combination in the Tagging Screen based on attributes (defined in the tagging version) using the “Add Selected Item” button, the system doesn't create the correct tagging item. This fix allows the correct item to be looked up and added when pressing the “Add Selected Item” button.

Test Goal: Starting in the tagging versions screen. For this test a SBR dimension will be used that has attributes set in the Attributes of the base dimension levels. We will use the Add Selected Item button in the tagging screen when adding new combinations, the dropdowns in the tagging screen should show the attributes not the elements in the dimension.

Test Method:

To test it, we will select a SBR dimension.

CoreBIS TAGGING VERSIONS

Selected SBR Dimension: SBR_220_0_Standardised_Asset_Class
Tagged Version: Submission

This version is used on these periods:

APRA Period	Tagging Version	Assumptions Locked	Tagging Locked	Data Locked
2021-12-31	TV1	LOCKED	LOCKED	UNLOCKED
2022-01-31	TV1	LOCKED	LOCKED	UNLOCKED
2022-02-28				UNLOCKED
2022-03-31	TV2	LOCKED	UNLOCKED	UNLOCKED

Tagging Version TV2: LOCKED

Level 1

Dimension	Attribute
BASE_220_0_AAB9_Stage	
BASE_220_0_ANZSIC	
BASE_220_0_Security_Classificat	Flag

Level 2

BASE_220_0_Loan_Purpose_Cat	
-----------------------------	--

We checked that the attributes existed for the Security Classification dimension. In this case we have two values against the Flag attribute:

Cube Viewer: CoreBIS_Dev->ATTR_BASE_220_0_Security_Classification->Default

File Edit View Options Help

[Base]

ATTR_BASE_220_0_Security_Classification	BASE_220_0_Security_Classification	Reporting_Period:Default	Flag
2022-06-06 11:22:01	Construction	2022-03-31	Cons
	Land Development		Land

The result was checked with two rounds, one as a first dimension tagging and the second as a third dimension tagging; as in the screen above, the result was the attribute of the combination when the add selected item was pressed, the attribute returned land instead of Land Development

CoreBIS TAGGING Recalculate Back to Tagging Versions

Status: Data Entry Available

Select SBR Dimension: SBR_220_0_Standardised_Asset_Class
 Tagging Version: TV2
 Tagging Level: Level 1

Zero Suppress

Add New Combination

Filter

Sort Method: Text

Add All Items
Add Selected Item
Filter

BASE_220_0_AAB9_Stage	BASE_220_0_ANZSIC	BASE_220_0_Security_Cla	Element
Stage 1	1181	Land	

When we used an attribute that was blank, like "Industrial", it returned the expected error message:

CoreBIS TAGGING Recalculate Back to Tagging Versions

Status: Data Entry Available

Select SBR Dimension: SBR_220_0_Standardised_Asset_Class
 Tagging Version: TV2
 Tagging Level: Level 1

Zero Suppress

Add New Combination

Stage 1 | 1181 | Industrial

Filter

Sort Method: Text

Add All Items
Add Selected Item
Filter

BASE_220_0_AAB9_Stage	BASE_220_0_ANZSIC	BASE_220_0_Security_Cla	Element
Stage 1	1181	Land	

Dimension 3: BASE_220_0_Security_Classification has no value for attribute: Flag

OK

Test Status: Success

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CoreBIS - Testing Verification - 2022_06_30.docx

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2.2 CU137: Locked Mapping defaults to TOTAL for tables. Should exclude if new table item.

Code Update: We updated the rules on the INT_APRA_Map cube to skip the Map_Locked measure for tables. This rule was causing issues with new table items.

Test Goal: New Table Items (with blank map_locked) will still work as expected.

Test Method: Lock a mapping version then add a new table item, check the mapping is working as expected.

Subset Editor: CoreBIS_TST->INT_Map_Version->Default [Public]

Name	Security Owner	Type	Level	Weight	Index	E...	Locked
MV1		Simple	0	1	2		1
MV2		Simple	0	1	3		1
MV3		Simple	0	1	4		0
MV4		Simple	0	1	5		0
MV5		Simple	0	1	6		0

Can see the mapping version is locked and the Map_Locked has been copied.

Cube Viewer: CoreBIS_TST->INT_APRA_Map->Default

APRA_Attribute	INT_Map_Dimensions	INT_Map_Measure	Map	Map_Locked
	SBR_DebtSec_Counterparty_Relati			
	SBR_DebtSec_Institutional_Unit_Re			
	SBR_DebtSec_Issuing_Counterpart			
	SBR_DebtSec_Interest_Bearing_Ty			
	SBR_DebtSec_Original_Term_to_Me			
	SBR_DebtSec_Ranking_Type			
	SBR_DebtSec_Residual_Term_to_M			
	SBR_DebtSec_Security_Issuer			
	SBR_DebtSec_Security_Maturity_Cl			
	SBR_DebtSec_Source_Currency			
	SBR_DebtSec_Transaction_Intent			
	BASE_APRA_Entity			
	TAGGED_Debt_Security_Measure	DE956 - Debt Securities Held	DE956 - Debt Securities Held	
	DS_Deal	All DS_Deal (n)	All DS_Deal (n)	All DS_Deal (n)
	DS_CostCentre	All DS_CostCentre (n)	All DS_CostCentre (n)	All DS_CostCentre (n)
	DS_CostCentre_Type	All DS_CostCentre_Type (n)	All DS_CostCentre_Type (n)	All DS_CostCentre_Type (n)
	DS_Product	All DS_Product (n)	All DS_Product (n)	All DS_Product (n)
	DS_Issuer	All DS_Issuer (n)	All DS_Issuer (n)	All DS_Issuer (n)
	DS_ANZSIC	All DS_ANZSIC (n)	All DS_ANZSIC (n)	All DS_ANZSIC (n)
	DS_SESCA	All DS_SESCA (n)	All DS_SESCA (n)	All DS_SESCA (n)
	DS_Issuer_Country	All DS_Issuer_Country (n)	All DS_Issuer_Country (n)	All DS_Issuer_Country (n)
	DS_Instrum_StartDate	All DS_Instrum_StartDate (n)	All DS_Instrum_StartDate (n)	All DS_Instrum_StartDate (n)
	DS_Instrum_EndDate	All DS_Instrum_EndDate (n)	All DS_Instrum_EndDate (n)	All DS_Instrum_EndDate (n)
	DS_Original_Term_Maturity	All DS_Original_Term_Maturity (n)	All DS_Original_Term_Maturity (n)	All DS_Original_Term_Maturity (n)
	DS_Residual_Term_Maturity	All DS_Residual_Term_Maturity (n)	All DS_Residual_Term_Maturity (n)	All DS_Residual_Term_Maturity (n)
	DS_Currency	All DS_Currency (n)	All DS_Currency (n)	All DS_Currency (n)
	BASE_DS_FX	All BASE_DS_FX (n)	All BASE_DS_FX (n)	All BASE_DS_FX (n)
	BASE_Debt_Security_Measure	All BASE_Debt_Security_Measure (n)	All BASE_Debt_Security_Measure (n)	All BASE_Debt_Security_Measure (n)
	SBR_DebtSec_Balance_Type	All SBR_DebtSec_Balance_Type (n)	All SBR_DebtSec_Balance_Type (n)	All SBR_DebtSec_Balance_Type (n)
	SBR_DebtSec_Category_of_Exposu	All SBR_DebtSec_Category_of_Exposure (n)	All SBR_DebtSec_Category_of_Exposure (n)	All SBR_DebtSec_Category_of_Exposure (n)
	SBR_DebtSec_Counterparty_Relati	All SBR_DebtSec_Counterparty_Relationship_Type (n)	All SBR_DebtSec_Counterparty_Relationship_Type (n)	All SBR_DebtSec_Counterparty_Relationship_Type (n)
	SBR_DebtSec_Institutional_Unit_Re	All SBR_DebtSec_Institutional_Unit_Residency (n)	All SBR_DebtSec_Institutional_Unit_Residency (n)	All SBR_DebtSec_Institutional_Unit_Residency (n)
	SBR_DebtSec_Issuing_Counterpart	All SBR_DebtSec_Issuing_Counterparty (n)	All SBR_DebtSec_Issuing_Counterparty (n)	All SBR_DebtSec_Issuing_Counterparty (n)
	SBR_DebtSec_Interest_Bearing_Ty	All SBR_DebtSec_Interest_Bearing_Type (n)	All SBR_DebtSec_Interest_Bearing_Type (n)	All SBR_DebtSec_Interest_Bearing_Type (n)
	SBR_DebtSec_Original_Term_to_Me	All SBR_DebtSec_Original_Term_to_Maturity (n)	All SBR_DebtSec_Original_Term_to_Maturity (n)	All SBR_DebtSec_Original_Term_to_Maturity (n)
	SBR_DebtSec_Ranking_Type	All SBR_DebtSec_Ranking_Type (n)	All SBR_DebtSec_Ranking_Type (n)	All SBR_DebtSec_Ranking_Type (n)
	SBR_DebtSec_Residual_Term_to_M	All SBR_DebtSec_Residual_Term_to_Maturity (n)	All SBR_DebtSec_Residual_Term_to_Maturity (n)	All SBR_DebtSec_Residual_Term_to_Maturity (n)
	SBR_DebtSec_Security_Issuer	All SBR_DebtSec_Security_Issuer (n)	All SBR_DebtSec_Security_Issuer (n)	All SBR_DebtSec_Security_Issuer (n)
	SBR_DebtSec_Security_Maturity_Cl	All SBR_DebtSec_Security_Maturity_Class (n)	All SBR_DebtSec_Security_Maturity_Class (n)	All SBR_DebtSec_Security_Maturity_Class (n)
	SBR_DebtSec_Source_Currency	All SBR_DebtSec_Source_Currency (n)	All SBR_DebtSec_Source_Currency (n)	All SBR_DebtSec_Source_Currency (n)
	SBR_DebtSec_Transaction_Intent	All SBR_DebtSec_Transaction_Intent (n)	All SBR_DebtSec_Transaction_Intent (n)	All SBR_DebtSec_Transaction_Intent (n)
	BASE_APRA_Entity			
	TAGGED_Debt_Security_Measure	DE956 - Debt Securities Held	DE956 - Debt Securities Held	Debt Securities Held

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Add a new table item via Table Mapping, and also add additional mapping to show the Map column is now not using the Map_Locked Column.

Cube Viewer: CoreBIS_TST->INT_APRA_Map->Default

File Edit View Options Help

MV1 ARF_747_0Bv4 TAGGED_Debt_Security

APRA_Attribute	INT_Map_Dimensions	INT_Map_Measure	Map	Map_Locked
	BASE_DS_FX		All BASE_DS_FX (n)	All BASE_DS_FX (n)
	BASE_Debt_Security_Measure		All BASE_Debt_Security_Measure (n)	All BASE_Debt_Security_Measure (n)
BSL22460__DV8464_DV8584	SBR_DebtSec_Balance_Type	CurrentBookValue	CurrentBookValue	All SBR_DebtSec_Balance_Type (n)
	SBR_DebtSec_Category_of_Exposure		All SBR_DebtSec_Category_of_Exposure (n)	All SBR_DebtSec_Category_of_Exposure (n)
	SBR_DebtSec_Counterparty_Relationship_Type		All SBR_DebtSec_Counterparty_Relationship_Type (n)	All SBR_DebtSec_Counterparty_Relationship_Type (n)
	SBR_DebtSec_Institutional_Unit_Residency		All SBR_DebtSec_Institutional_Unit_Residency (n)	All SBR_DebtSec_Institutional_Unit_Residency (n)
	SBR_DebtSec_Issuing_Counterparty		All SBR_DebtSec_Issuing_Counterparty (n)	All SBR_DebtSec_Issuing_Counterparty (n)
	SBR_DebtSec_Interest_Bearing_Type		All SBR_DebtSec_Interest_Bearing_Type (n)	All SBR_DebtSec_Interest_Bearing_Type (n)
	SBR_DebtSec_Original_Term_to_Maturity		All SBR_DebtSec_Original_Term_to_Maturity (n)	All SBR_DebtSec_Original_Term_to_Maturity (n)
	SBR_DebtSec_Ranking_Type		All SBR_DebtSec_Ranking_Type (n)	All SBR_DebtSec_Ranking_Type (n)
	SBR_DebtSec_Residual_Term_to_Maturity		All SBR_DebtSec_Residual_Term_to_Maturity (n)	All SBR_DebtSec_Residual_Term_to_Maturity (n)
	SBR_DebtSec_Security_Issuer		All SBR_DebtSec_Security_Issuer (n)	All SBR_DebtSec_Security_Issuer (n)
	SBR_DebtSec_Security_Maturity_Class		All SBR_DebtSec_Security_Maturity_Class (n)	All SBR_DebtSec_Security_Maturity_Class (n)
	SBR_DebtSec_Source_Currency		All SBR_DebtSec_Source_Currency (n)	All SBR_DebtSec_Source_Currency (n)
	SBR_DebtSec_Transaction_Intent		All SBR_DebtSec_Transaction_Intent (n)	All SBR_DebtSec_Transaction_Intent (n)
	BASE_APRA_Entity			
	TAGGED_Debt_Security_Measure	DE956 - Debt Securities Held	DE956 - Debt Securities Held	Debt Securities Held
	DS_Deal		All DS_Deal (n)	
	DS_CostCentre		All DS_CostCentre (n)	
	DS_CostCentre_Type		All DS_CostCentre_Type (n)	
	DS_Product		All DS_Product (n)	
	DS_Issuer		All DS_Issuer (n)	
	DS_ANZSIC		All DS_ANZSIC (n)	
	DS_SESCA		All DS_SESCA (n)	
	DS_Issuer_Country		All DS_Issuer_Country (n)	
	DS_Instrum_StartDate		All DS_Instrum_StartDate (n)	
	DS_Instrum_EndDate		All DS_Instrum_EndDate (n)	
	DS_Original_Term_Maturity		All DS_Original_Term_Maturity (n)	
	DS_Residual_Term_Maturity		All DS_Residual_Term_Maturity (n)	
	DS_Currency		All DS_Currency (n)	
	BASE_DS_FX		All BASE_DS_FX (n)	
BSL22460__DV8594_DV8587	BASE_Debt_Security_Measure		All BASE_Debt_Security_Measure (n)	
	SBR_DebtSec_Balance_Type	CurrentBookValue	CurrentBookValue	
	SBR_DebtSec_Category_of_Exposure		All SBR_DebtSec_Category_of_Exposure (n)	
	SBR_DebtSec_Counterparty_Relationship_Type		All SBR_DebtSec_Counterparty_Relationship_Type (n)	
	SBR_DebtSec_Institutional_Unit_Residency		All SBR_DebtSec_Institutional_Unit_Residency (n)	
	SBR_DebtSec_Issuing_Counterparty		All SBR_DebtSec_Issuing_Counterparty (n)	
	SBR_DebtSec_Interest_Bearing_Type		All SBR_DebtSec_Interest_Bearing_Type (n)	
	SBR_DebtSec_Original_Term_to_Maturity		All SBR_DebtSec_Original_Term_to_Maturity (n)	
	SBR_DebtSec_Ranking_Type		All SBR_DebtSec_Ranking_Type (n)	
	SBR_DebtSec_Residual_Term_to_Maturity		All SBR_DebtSec_Residual_Term_to_Maturity (n)	
	SBR_DebtSec_Security_Issuer		All SBR_DebtSec_Security_Issuer (n)	
	SBR_DebtSec_Security_Maturity_Class		All SBR_DebtSec_Security_Maturity_Class (n)	

Test Status: Success

3. Enhancements to Existing Features

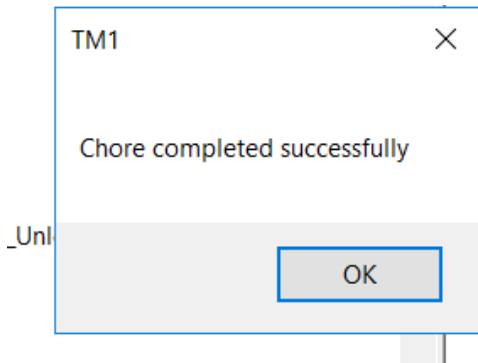
3.1 EF95: Auto Cube Optimisation - Stage 1

Code Update: The cubes in the application can be optimised by reordering the dimension order in-memory. This practice is completed sporadically by Cortell during deployments, but we have built a procedure to report on the correct order to put the cubes in. This report is the stage 1 of the optimisation procedure being built.

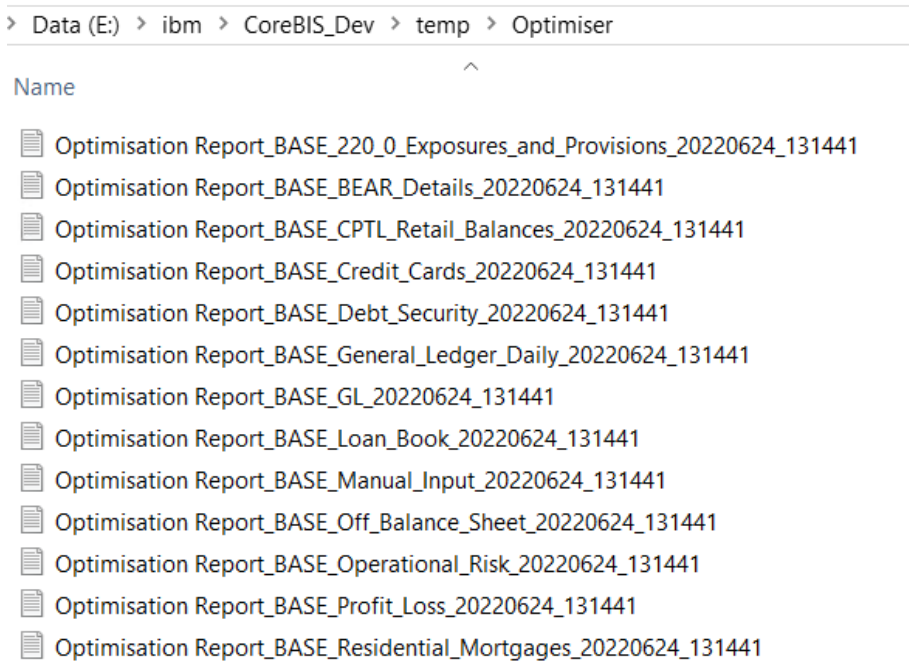
Test Goal: Run the chore and review optimization order results.

Note: This process should be only tested in development environments due to the size of some cubes. We encourage to discuss with Cortell any testing of this process.

Test Method: Run the Lib_Cube_Optimiser chore in perspectives. A successful message will be shown at completion.



Review the reports located in the \temp\optimiser\ folder:



The proposed order to use is in the first columns, followed by the dimension.

```
Optimisation Report_BASE_Off_Balance_Sheet_20220624_131441 - Notepad
File Edit Format View Help
"Dimension1" "Reporting_Period","Total Count:","1"
"Dimension2" "BASE_Entity","Total Count:","1"
"Dimension3" "BASE_Off_Balance_Sheet_Load_Date","Total Count:","6"
"Dimension4" "BASE_OBS_ECAI","Total Count:","6"
"Dimension5" "BASE_Off_Balance_Sheet_Measure","Total Count:","6"
"Dimension6" "BASE_OBS_Product","Total Count:","8"
"Dimension7" "BASE_OBS_Account","Total Count:","17"
```

At this stage no automatic optimisation is done, only the analysis of cubes.

Test Status: Success

3.2 EF105: Dimension Structure Edit, no aliases

Code Update: When using the "Edit Structure" button in the CoreBUILD Dimensions screen, the "Dimension Load SBR.xlsx "workbook doesn't show any alias on any of the elements. For SBR dimensions, this isn't a problem as they don't have aliases. However, the screen is used when editing the structure of the TAGGED_CUBE_Measure dimensions. With this enhancement, this screen will show the "Name" column.

Test Goal: Open a Measure dimension of a Tagged cube in the Edit Structure of the CoreBUILD Dimension screen.

Test Method:

Check that the Name column appear with valid data in both SBR and Review Screens (Switch screens using the tabs located in the bottom left of the report).

Children of selected Parent	Creation Date	Weighting	Name
All TAGGED_Residential_Mortgages_Measure (n)	31/12/1899 00:00		
No TAGGED_Residential_Mortgages_Measure Element	31/12/1899 00:00	1	
DE14844	10/05/2018 17:20	1	Assets LoansAndReceivables CreditLimit
DE14845	10/05/2018 17:20	1	Assets LoansAndReceivables CreditOutstanding Amount
Total Provisions	31/12/1899 00:00	1	

Element	Name
All TAGGED_Residential_Mortgages_Measure (n)	
No TAGGED_Residential_Mortgages_Measure Element	
DE14844	Assets LoansAndReceivables CreditLimit
DE14911	Assets LoansAndReceivables CreditLimitFundedNew
DE14844_NotNew	Assets LoansAndReceivables CreditLimit Not FundedNew
DE14845	Assets LoansAndReceivables CreditOutstanding Amount
Total Provisions	
Total Collective	
DE15004	Collective Provision
Portfolio Adjustment	
Total Specific Provision	
DE15005	Individual Provision

Note:

1. Make sure a child does not roll up to the "All" element twice, and if it does, ensure the weighting is 0 on one of them to ensure they are not double counted.
2. Creating consolidations and manually manipulating the dimension, should be only considered once all other avenues have been reviewed. Can this be done via Tagging instead? This function is therefore an "Admin Only" feature. If consolidations are altered after a submission the makeup of that

Test Status: Success

3.3 EF128: Calculated Measures - text file formatter

Code Update: This enhancement allows the creation of new calculated measures and a concatenation feature for dimensions when populating cubes using the text file formatter.

Test Goal: Ensure you can concatenate and perform operations with the data. Ensure that this test is performed in the development environment.

Test Method: Open the file formatter from an existing base cube.

Concatenation:

In the calculation type, select an existing measure, pick Concatenate Field1 space Field2 and choose two columns in the calculation fields 1 and 2.

Dimension Name	File Field	File Field Description	Hard Coded Value	Replace Nulls with	Calculation Type	Calculation Field #1	Calculation Field #2
Reporting_Period					APRA_Period		
BASE_Entity	EntityCode			01			
BASE_220_0_AAB9_Stage	AAB9_Stage			Unknown			
BASE_220_0_ANZSIC	ANZSIC Code			Unknown			
BASE_220_0_Balance_Bucket	Range1			Unknown			
BASE_220_0_Counterparty	Counterparty			Unknown			
BASE_220_0_Delinquent_Bucket	DelinquencyRange			Unknown			
BASE_220_0_Fixed_Loan_Bucket	Repricing Band			Unknown			
BASE_220_0_Interest_Rate_Type	RateType			Unknown			
BASE_220_0_LMI	HasLMI			Unknown			
BASE_220_0_Loan_Identifier	AccountNumber			Unknown			
BASE_220_0_Loan_Purpose	LoanPurpose			Unknown	Concatenate(Field1[space]Field2)	LoanPurpose	LoanPurposeCategory

Calculation Type	Calculation Field #1	Calculation Field #2
APRA_Period		
Concatenate(Field1[space]Field2)	LoanPurpose	LoanPurposeCategory

Open the Preview / Load Cube and run a test. You should see the field with the value of two columns from the file. Only valid fields from the file are currently accepted.

CoreBIS PREVIEW / LOAD DATA

Recalculate Return to Cube

Select Cube: BASE_220_0_Exposures_and_Provisions

Select APRA Period: 2022-03-31

Clear Preview Load Data Process Logs

Run Preview Load Dimensions with Data Load Run in Background

PREVIEW Rows	Reporting_Period	BASE_Entity	BASE_220_0_AAB9_Stage	BASE_220_0_ANZSIC	BASE_220_0_Balance_Bucket	BASE_220_0_Counterparty	BASE_220_0_Delinquent_Bucket	BASE_220_0_Fixed_Loan_Bucket	BASE_220_0_Interest_Rate_Type	BASE_220_0_LMI	BASE_220_0_Loan_Identifier	BASE_220_0_Loan_Purpose	BASE_220_0_Loan_Purpose_Category
1	2022-03-31	1	Stage 1	Unknown	Greater Than 0	Households	Not Applicable	0 to 1 month	Variable	Y	100135045	House Purchase Owner Occupied	Owner Occupied
2	2022-03-31	1	Stage 1	Unknown	Greater Than 0	Households	Not Applicable	0 to 1 month	Variable	Y	100135045	House Purchase Owner Occupied	Owner Occupied
3	2022-03-31	1	Stage 1	Unknown	Greater Than 0	Households	Not Applicable	0 to 1 month	Variable	Y	100135045	House Purchase Owner Occupied	Owner Occupied
4	2022-03-31	1	Stage 1	Unknown	Greater Than 0	Households	Not Applicable	0 to 1 month	Variable	Y	100135045	House Purchase Owner Occupied	Owner Occupied
5	2022-03-31	1	Stage 1	Unknown	Greater Than 0	Households	Not Applicable	0 to 1 month	Variable	Y	100135045	House Purchase Owner Occupied	Owner Occupied
6	2022-03-31	1	Stage 1	Unknown	Greater Than 0	Households	Not Applicable	0 to 1 month	Variable	Y	100135045	House Purchase Owner Occupied	Owner Occupied
7	2022-03-31	1	Stage 1	Unknown	Greater Than 0	Households	Not Applicable	0 to 1 month	Variable	Y	100135045	House Purchase Owner Occupied	Owner Occupied
8	2022-03-31	1	Stage 1	Unknown	Greater Than 0	Households	Not Applicable	0 to 1 month	Variable	Y	100135045	House Purchase Owner Occupied	Owner Occupied
9	2022-03-31	1	Stage 1	Unknown	Greater Than 0	Households	Not Applicable	0 to 1 month	Variable	Y	100135045	House Purchase Owner Occupied	Owner Occupied
10	2022-03-31	1	Stage 1	Unknown	Greater Than 0	Households	Not Applicable	0 to 1 month	Variable	Y	100135045	House Purchase Owner Occupied	Owner Occupied

Operations with Calculation Type

Create a Test Measure in a cube, in this case a measure called Balance Overall was created using the Edit Structure option in CoreBUILD Dimensions.

Children of selected Parent	Creation Date	Weighting
All BASE_220_0_Exposures_and_Provisions_Measure (n)	18/10/2021 12:17	
No BASE_220_0_Exposures_and_Provisions_Measure Element	18/10/2021 12:17	1
Balance	18/10/2021 12:17	1
LoanToValueRatio	18/10/2021 12:18	1
Interest Rate	18/10/2021 12:18	1
Number of days past due	18/10/2021 12:18	1
Maturity date	18/10/2021 12:18	1
Origination Date	18/10/2021 12:18	1
Exposure	18/10/2021 12:18	1
Facility Limit	18/10/2021 12:18	1
OffsetAccount Balance	18/10/2021 12:18	1
Count	19/10/2021 10:39	1
Collective Provision	19/10/2021 12:11	1
Security Valuation	19/10/2021 12:11	1
GRCL	19/10/2021 12:11	1
Specific Provision	19/10/2021 12:11	1
Balance Reversed	13/06/2022 14:02	1
Balance Overall	13/06/2022 14:02	1

Back in the file formatter, add a measure and keep a Weighting of 2.

Select Division on the Calculation Type field.

Measure Name	File Field	Measure Weighting	Calculation Type
1 Balance	Balance	1	
2 Number of days past due	Days	1	
3 Maturity date	DateLoanMaturity	1	
4 Origination Date	DateAccountEffective	1	
5 Facility Limit	Facility Limit	1	
6 OffsetAccount Balance	OffsetAccount Balance	1	
7 Count		1	
8 Specific Provision	Specific Provision Amount	1	
9 Collective Provision	Collective Provision Amount	1	
0 Security Valuation	SecurityAppraisal	1	
1 GRCL	GRCL	1	
2 Balance Reversed	Balance	-1	
3 Balance Overall		2	Division (/)

Add a measure in the Calculation Field # 1 and keep Calculation Field # 2 blank. Check that the formula interpretation is 2 in the denominator.

Calculation Field #1	Calculation Field #2	Formula Interpretation
		= Balance*1
		= Days*1
		= DateLoanMaturity*1
		= DateAccountEffective*1
		= Facility Limit*1
		= OffsetAccount Balance*1
		= Count*1
		= Specific Provision Amount*1
		= Collective Provision Amount*1
		= SecurityAppraisal*1
		= GRCL*1
		= Balance*-1
Balance		= (Balance / 2)

Run a test preview and check that the select measure equals the selected measure divided by two.

BASE_220_0_Exposures_and_Provisio	VALUE	
27	28	
Balance	623.3700823	
Maturity date	49092	
Origination Date	38230	
Facility Limit	112733.1089	
Count	1	
Collective Provision	5.344000963	
Security Valuation	920000	
GRCL	40.65394308	
Balance Reversed	-623.3700823	
Balance Overall	311.68504115	

Test Status: **Success**

4. New Features

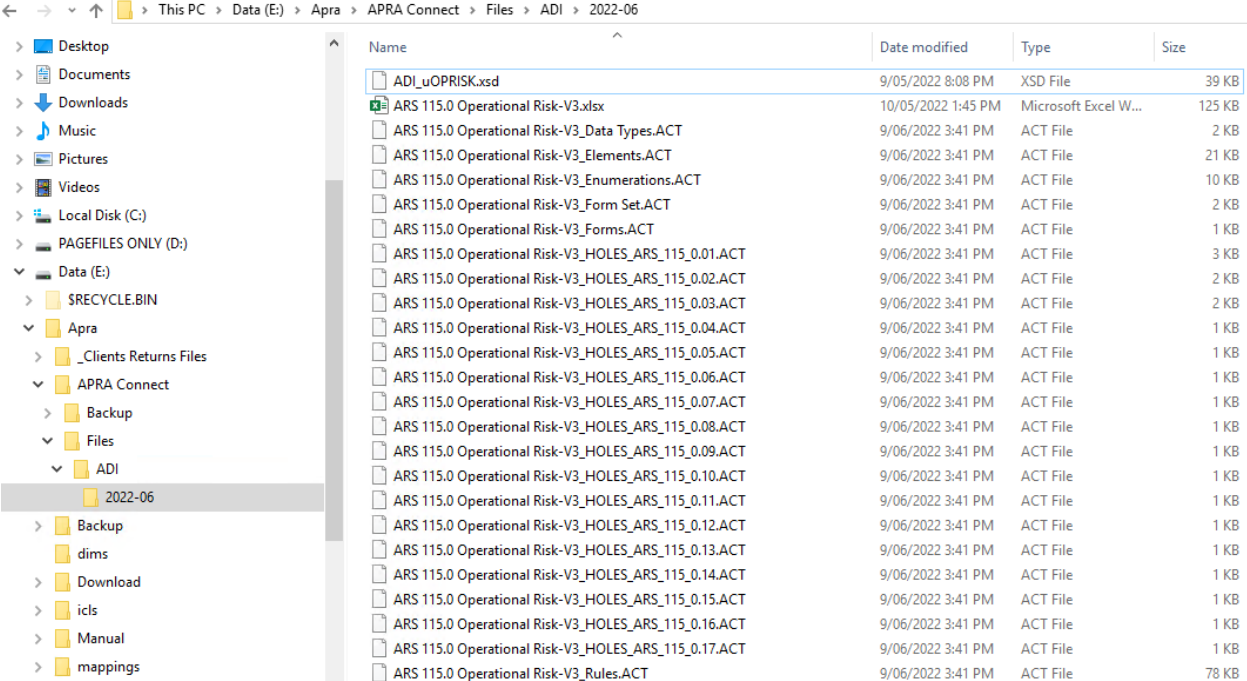
4.1 NF45: Integrate CoreBIS with APRA Connect

4.1.1 NF45.1 Converting AC Taxonomy for reading into SQL.

Code Update: Back-end feature. The taxonomy from APRA is provided natively in spreadsheet and XSD files. Within automatic programming, the taxonomy is translated to SQL (the database where all the CoreBIS information is stored), ready to be deployed into the rules and data used in CoreBIS.

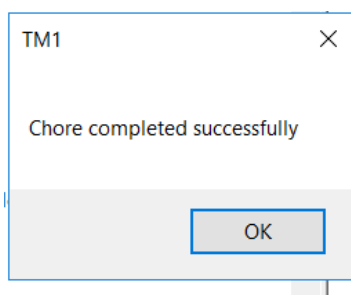
Test Goal: Provide the APRA Connect files in the APRA folder and run the MASTER_D2A_UPDATE chore without issue.

Test Method: Add the APRA Connect files to the folder.



Name	Date modified	Type	Size
ADI_uOPRISK.xsd	9/05/2022 8:08 PM	XSD File	39 KB
ARS 115.0 Operational Risk-V3.xlsx	10/05/2022 1:45 PM	Microsoft Excel W...	125 KB
ARS 115.0 Operational Risk-V3_Data Types.ACT	9/06/2022 3:41 PM	ACT File	2 KB
ARS 115.0 Operational Risk-V3_Elements.ACT	9/06/2022 3:41 PM	ACT File	21 KB
ARS 115.0 Operational Risk-V3_Enumerations.ACT	9/06/2022 3:41 PM	ACT File	10 KB
ARS 115.0 Operational Risk-V3_Form Set.ACT	9/06/2022 3:41 PM	ACT File	2 KB
ARS 115.0 Operational Risk-V3_Forms.ACT	9/06/2022 3:41 PM	ACT File	1 KB
ARS 115.0 Operational Risk-V3_HOLES_ARS_115_0.01.ACT	9/06/2022 3:41 PM	ACT File	3 KB
ARS 115.0 Operational Risk-V3_HOLES_ARS_115_0.02.ACT	9/06/2022 3:41 PM	ACT File	2 KB
ARS 115.0 Operational Risk-V3_HOLES_ARS_115_0.03.ACT	9/06/2022 3:41 PM	ACT File	2 KB
ARS 115.0 Operational Risk-V3_HOLES_ARS_115_0.04.ACT	9/06/2022 3:41 PM	ACT File	1 KB
ARS 115.0 Operational Risk-V3_HOLES_ARS_115_0.05.ACT	9/06/2022 3:41 PM	ACT File	1 KB
ARS 115.0 Operational Risk-V3_HOLES_ARS_115_0.06.ACT	9/06/2022 3:41 PM	ACT File	1 KB
ARS 115.0 Operational Risk-V3_HOLES_ARS_115_0.07.ACT	9/06/2022 3:41 PM	ACT File	1 KB
ARS 115.0 Operational Risk-V3_HOLES_ARS_115_0.08.ACT	9/06/2022 3:41 PM	ACT File	1 KB
ARS 115.0 Operational Risk-V3_HOLES_ARS_115_0.09.ACT	9/06/2022 3:41 PM	ACT File	1 KB
ARS 115.0 Operational Risk-V3_HOLES_ARS_115_0.10.ACT	9/06/2022 3:41 PM	ACT File	1 KB
ARS 115.0 Operational Risk-V3_HOLES_ARS_115_0.11.ACT	9/06/2022 3:41 PM	ACT File	1 KB
ARS 115.0 Operational Risk-V3_HOLES_ARS_115_0.12.ACT	9/06/2022 3:41 PM	ACT File	1 KB
ARS 115.0 Operational Risk-V3_HOLES_ARS_115_0.13.ACT	9/06/2022 3:41 PM	ACT File	1 KB
ARS 115.0 Operational Risk-V3_HOLES_ARS_115_0.14.ACT	9/06/2022 3:41 PM	ACT File	1 KB
ARS 115.0 Operational Risk-V3_HOLES_ARS_115_0.15.ACT	9/06/2022 3:41 PM	ACT File	1 KB
ARS 115.0 Operational Risk-V3_HOLES_ARS_115_0.16.ACT	9/06/2022 3:41 PM	ACT File	1 KB
ARS 115.0 Operational Risk-V3_HOLES_ARS_115_0.17.ACT	9/06/2022 3:41 PM	ACT File	1 KB
ARS 115.0 Operational Risk-V3_Rules.ACT	9/06/2022 3:41 PM	ACT File	78 KB

Run the MASTER_D2A_Update Chore



Test Status: Success

Commercial – in Confidence

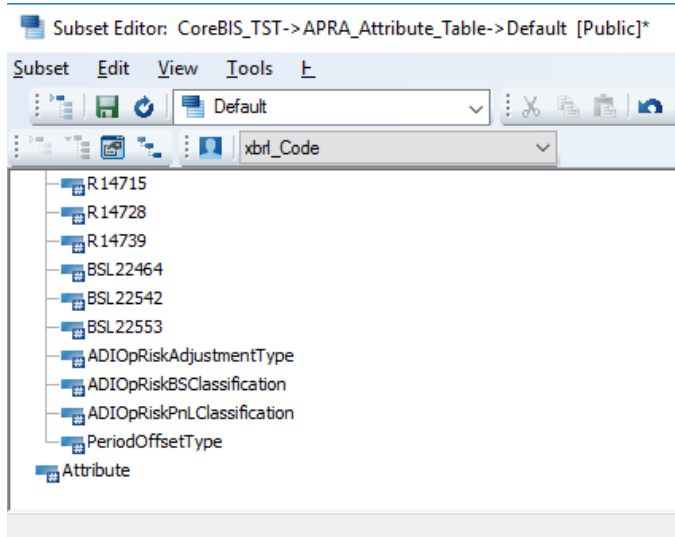
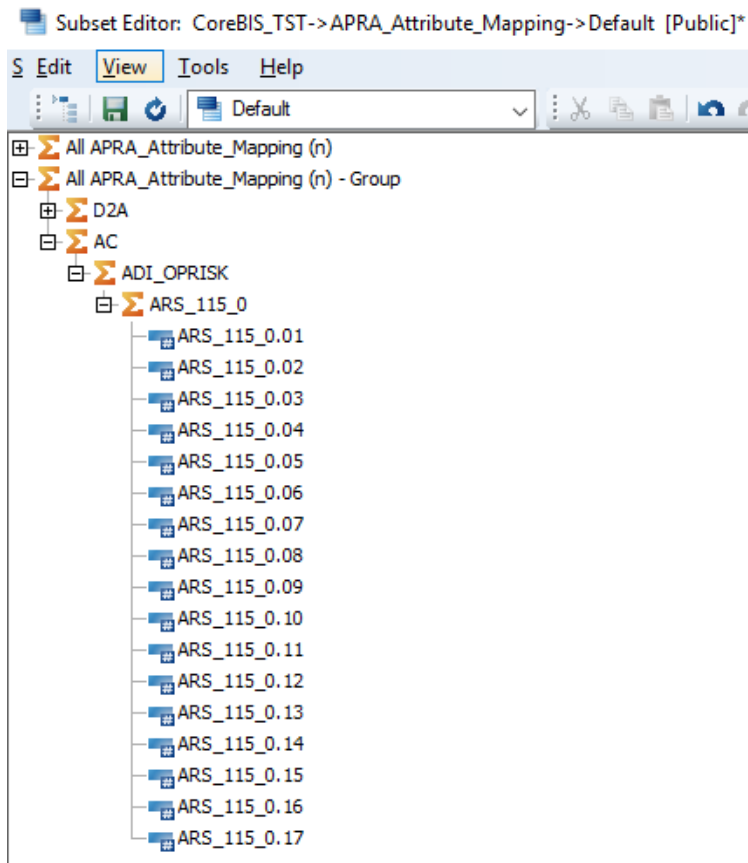
CoreBIS - Testing Verification - 2022_06_30.docx

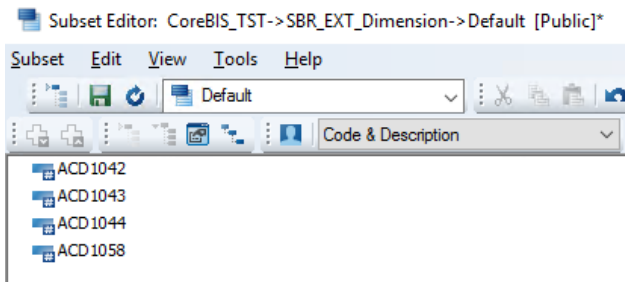
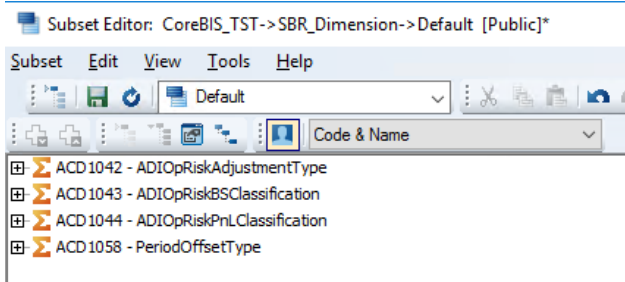
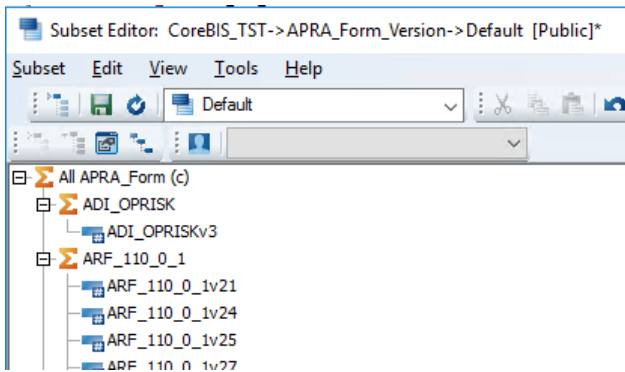
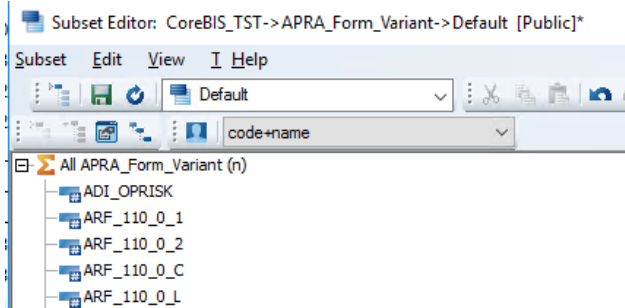
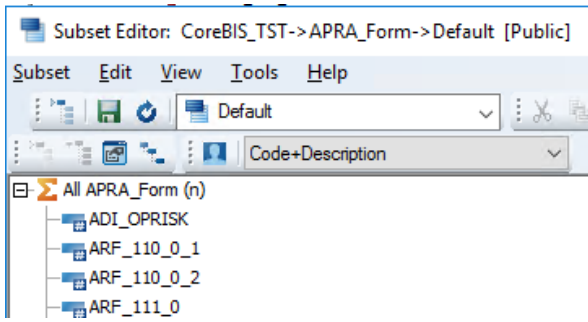
Page 15 of 27

4.1.2 NF45.2 Update TI processes to add in the AC SQL Tables

Code Update: Back-end feature. The job processes to transfer the new taxonomy changes described above into CoreBIS were built to be ready from the SQL Database.

Test Goal: After running the 4.1.1 above, this confirms the processes run successfully, but we can confirm the following dimensions have been updated;





Test Status: Success

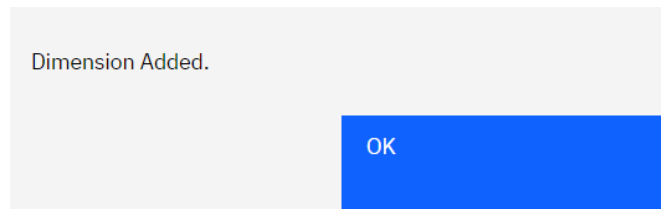
4.1.3 NF45.3 Connect Dimensions - Available in the Add New dimension dropdown.

Code Update: Front End and Back-end features. APRA Connect or (AC) dimensions are now available in the CoreBuild Dimension Editor dropdown list.

Test Goal: Create a new APRA Connect dimension using the CoreBUILD dimension framework.

Test Method: Select Connect Dimension in the Select Dimension Type, select an APRA Connect Dimension and create a name for the dimension.

Click Create dimension, check the Dimension Added message box and review that the dimension exists in the dimension listing.



Dimension Name	Dimension Type	Updated From	Auto Update	Last Updated
AC_OR_ADI_OP_Risk_Adj_Type	CONNECT	APRA	Y	2022-06-27 12:03:50
AC_OR_ADI_OP_Risk_PL_Class	CONNECT	APRA	Y	2022-06-27 12:04:17
AC_OR_Period_Offset_Type	CONNECT	APRA	Y	2022-06-27 12:03:26
AC_Test_AC_Dimension	CONNECT	APRA	Y	2022-06-27 13:40:35
ATTR_BASE_CostCentre_Measure	Measure	MANUAL	N	2019-07-26 10:23:40

Click on Edit Structure and check that the elements were successfully created.

Children of selected Parent	Creation Date	Weighting	Name
All AC_Test_AC_Dimension (n)	27/06/2022 13:40		
No AC_Test_AC_Dimension Element	27/06/2022 13:40	1	
New	27/06/2022 13:40	1	
NoChange	27/06/2022 13:40	1	
Update	27/06/2022 13:40	1	

Test Status: Success

4.1.4 NF45.4 Update Tagging screen to show cube dimensions

Code Update: A new Tagging Overview screen was created to show cube dimensions and replace the previous one. This functionality was not a requirement for APRA connect but was incorporated in the built to select dimensions more easily.

Test Goal: Navigate through the new screen format and land into the Tagging Version screen.

Test Method: Select Tagging in the CoreBUILD menu, select a cube in the left side and press the Dimensions button.

Select a dimension in the right side and click the tagging button. Check that you are in the Tagging Version screen with the selected dimension from the overview.

Test Status: Success

4.1.5 NF45.5 Connect Dimensions - Work in Dimension Add to Cube feature

Code Update: Front End and Back-end features. The add dimensions screen in CoreBUILD dimensions allows including APRA Connect dimensions to tagging cubes.

Test Goal: Add a new APRA Connect dimension into a tagged cube.

Test Method: Open the Add Dimension to Cube screen in the CoreBUILD Cubes selecting a Tagged cube. Add an AC dimension and click Add Dimension.

CoreBIS Add Dimension to Cube Recalculate Return to Cubes

Cube: TAGGED_testing_2021-02-18

New Dimension 1: AC_OR_Period_Offset_Type

New Dimension 2: AC_Test_AC_Dimension

New Dimension 3: [Empty]

New Dimension 4: [Empty]

New Dimension 5: [Empty]

Warning Statement:
 This feature has a warning on it as it has the potential to change prior submission data.
 This process will;
 > Export the data from the cube
 > Delete the cube
 > Recreate the cube
 > Reload the data

Browse the dimension of the cube and check that the new dimensions were added.

CoreBIS CoreBUILD DIMENSIONS Recalculate Return to CoreBuild

Filters: Select Dimension Type: All Dimensions, Select Cube: TAGGED_testing_2021-02-18, Text Search: [Empty]

Create new Dimension: Select Dimension Type: Connect Dimension, Select APRA Dimension: [Empty], Enter Dimension Name: [Empty]

Note: The dimension will be prefixed based on the dimension type.

Buttons: Edit Source, Edit Structure, Delete Dimension, Create Attribute Cube, Create Dimension, Dimension Bulk Upload, Overnight Execution, Process Logs, New Element Report

Dimension Name	Dimension Type	Updated From	Auto Update	Last Updated	Update Frequency	View Members
Reporting_Period	Business	MANUAL	N	2020-07-15 14:19:04		
BASE_Entity	Business	MANUAL	N	2022-03-15 09:48:19		
BASE_CostCentre	Business	MANUAL	N	2019-03-18 15:40:26		
BASE_Account	Business	ODBC	Y	2022-06-27 02:00:57		
BASE_Product	Business	MANUAL	N	2019-09-13 15:44:36		
BASE_testing_2021-02-18_Measure	Measure	MANUAL	N			
SBR_Counterparty Domicile GL	SBR Dimension	APRA		2018-01-14 23:00:02		
AC_OR_Period_Offset_Type	CONNECT	APRA	Y	2022-06-27 12:03:26		
AC_Test_AC_Dimension	CONNECT	APRA	Y	2022-06-27 13:40:35		
BASE_APRA_Entity	Business	MANUAL	N	2020-05-07 10:37:28		
TAGGED_testing_2021-02-18_Measure	Measure	MANUAL	N			

Test Status: Success

4.1.6 NF45.6 Connect Dimensions - Work in Tagging

Code Update: Front End and Back-end features. The tagging procedure in CoreBUILD allows tagging within APRA Connect dimensions.

Test Goal: Tag elements in a new APRA Connect dimension

Test Method: Open a newly created AC dimension the Tagging Overview in CoreBUILD. Click Tag a new version.

A new version (TV1) will appear, then select a Dimension on Level 1

CoreBIS TAGGING VERSIONS Recalculate Back to Tagging

Selected SBR Dimension: AC_Test_AC_Dimension
Tagged Version: Submission Tagging Version Report

This version is used on these periods:

APRA Period	Tagging Version	Assumptions Locked	Tagging Locked	Data Locked
2021-06-30				UNLOCKED
2021-07-31				UNLOCKED
2021-08-31				UNLOCKED
2021-09-30	TV1	UNLOCKED	UNLOCKED	UNLOCKED

Tagging Version: TV1 UNLOCKED Create New Version

Level 1	Dimension	Attribute
1	BASE_220_0_Balance_Bucket	▼
2		
3		
4		

Save, Lock and Copy Reset Version
Tagging

Click Save, Lock and Copy

CoreBIS TAGGING VERSIONS Recalculate Back to Tagging

Selected SBR Dimension: AC_Test_AC_Dimension
Tagged Version: Submission Tagging Version Report

This version is used on these periods:

APRA Period	Tagging Version	Assumptions Locked	Tagging Locked	Data Locked
2021-06-30				UNLOCKED
2021-07-31				UNLOCKED
2021-08-31				UNLOCKED
2021-09-30	TV1	UNLOCKED	UNLOCKED	UNLOCKED

Tagging Version: TV1 LOCKED Create New Version

Level 1	Dimension	Attribute
1	BASE_220_0_Balance_Bucket	▼
2		
3		
4		

Save, Lock and Copy Reset Version
Tagging

Click Tagging. Click Add all Items, all elements should appear in the as new combinations.

CoreBIS TAGGING Recalculate Back to Tagging Versions

Status: Data Entry Available

Select SBR Dimension: AC_Test_AC_Dimension
Tagging Version: TV1
Tagging Level: Level 1
 Zero Suppress

Add New Combination

Filter	Sort Method
Equal To 0	
Greater Than 0	

Add All Items Add Selected Item Filter

Element
Equal To 0
Greater Than 0

Test Status: Success

4.1.7 NF45.7 Connect Dimensions - Updates to CoreBUILD functionality, Manual edit, Structure Edits

Code Update: Front End and Back-end features. The add dimensions screen in CoreBUILD dimensions allows including APRA Connect dimensions to tagging cubes.

Test Goal: Review that the Edit Structure and Manual Update screens work with APRA Connect dimensions.

Test Method: Open the Edit Structure and Manual Update screens in the CoreBUILD Dimensions. Ensure an APRA Connect dimension is selected and display the values.

Children of selected Parent	Creation Date	Weighting	Name
All AC_NewConnectDimension (n)	23/06/2022 10:14		
No AC_NewConnectDimension Element	23/06/2022 10:14	1	
InvestmentMenuIdentifierContainer	23/06/2022 10:14	1	

Row	Element	Name	Type
1	No AC_NewConnectDimension Element		Numeric
2	InvestmentMenuIdentifierContainer		Numeric

Test Status: **Success**

4.1.8 NF45.8 Update Table mapping to allow mapping for AC tables.

This feature will not be used in this phase of the APRA Connect rollout, however we will test existing functionality with the updated Table Mapping Screens.

Test Goal: Review that the 3 Table Mapping screens function correctly, test that the additional Run Mapping parameters run as expected.

Test Method: Open each of the screens and try and map an existing table using the same screen and using the new “hard codes” element feature.

Open the Table Mapping. Can test all combinations of the option boxes, select the “Map Table” button for an existing table.



TABLE MAPPING

Recalculate

Return to CoreBUILD

APRA Entity **P_CoreBIS No.1**
 APRA Return Version **W_2021-09-30_Submission**
 Datasource **All Unrounded Sources**
 Form **All APRA_Form (n)**
 System **All Systems**

Filter by APRA Return Version
 Filter by Mapped Datasource
 Other

Copy Mapping between Form Versions

Map Table

Run Mapping

Form Version	Table	Attribute Count	Active ARV	Mapped	All Combos
ADI_OPRISKv3	ARS_115_0.01	3	Yes	Yes	
	ARS_115_0.02	3	Yes		
	ARS_115_0.03	3	Yes		
	ARS_115_0.04	3	Yes		

New form showing.

Try and use the new feature of the ARF_748_OB, Table 1.



TABLE MAPPING

Recalculate

Return to CoreBUILD

APRA Entity **P_CoreBIS No.1**
 APRA Return Version **W_2021-09-30_Submission**
 Datasource **All Unrounded Sources**
 Form **All APRA_Form (n)**
 System **All Systems**

Filter by APRA Return Version
 Filter by Mapped Datasource
 Other

Copy Mapping between Form Versions

Map Table

Run Mapping

Form Version	Table	Attribute Count	Active ARV	Mapped	All Combos	
ARF_731_1v6	TBL00512	5				
	TBL_ARF_731_1_Table1	7				
	TBL_ARF_731_1_Table2	9				
	ARF_731_3Av10	TBL_ARF_731_3A_Table1	8			
		TBL_ARF_731_3A_Table2	10			
		TBL_ARF_731_3A_Table3	10			
ARF_743_Ov6	TBL_ARF_731_3A_Table4	4				
	TBL_ARF_731_3A_Table5	11				
	TBL_ARF_731_3A_Table6	4				
	ARF_743_Ov6	TBL_ARF_743_0_Table1	5	Yes		
		TBL_ARF_743_0_Table2	4	Yes		
		TBL_ARF_743_0_Table3	5	Yes		
ARF_744_OBv8	TBL_ARF_744_0B_Table1	5	Yes			
	TBL_ARF_744_0B_Table2	5	Yes			
	TBL_ARF_744_0B_Table3	10	Yes			
ARF_747_OBv8	TBL_ARF_747_0B_Table1	6	Yes			
	TBL_ARF_747_0B_Table2	6	Yes			
	TBL_ARF_747_0B_Table3	8	Yes			
	TBL_ARF_747_0B_Table4	7	Yes			
ARF_748_OBv5	TBL_ARF_748_0B_Table1	6	Yes	Yes		
	TBL_ARF_748_0B_Table2	10	Yes			
	TBL_ARF_748_0B_Table3	6	Yes			
	TBL_ARF_748_0B_Table4	7	Yes			

Recalculate

Return to Table Mapping

APRA Form Version
 Table

Create All Combinations

Table Information

Table Attribute	Location	Dimension
BSL22584	Column	
BSL22585	Column	
OI14299	Row	CtgryOfExpsr_02_09 CategoryOfExposureDimension
OI14300	Row	SourceCurrency_02_06 SourceCurrencyDimension
OI14301	Row	InterestRateType_02_01 InterestRateTypeDimension
CBDT17481	Derivation	

You will need to setup a mapping for each Column you have data for.
 You'll need 3 items below, each with 1 Column attribute and 3 dimensions specifying row attributes.

Mapping Data

New Datasource Mapping

Datasource	Item
TAGGED_Debt_Security	1

Add New Table Data Map

Run this DataSource/Item

Deactivate Item

Map Item

Map up this data.

Rows		Columns	Context
<input type="text" value="SBR_DebtSec_Category_of_Exposure [SBR_DebtSec_Category_of_Exposure]"/>	<input type="text" value="SBR_DebtSec_Source_Currency [SBR_DebtSec_Source_Currency]"/>	<input type="text" value="TAGGED_Debt_Security_Measure [TAGGED_Debt_Security_Measure]"/>	<input type="text" value="Subn [SYS_CB_Ta]"/>
+ All TAGGED_Debt_Security_Measure (n)			
NegotiableCertificateOfDeposit	AUD		
		571,269,000.00	

Recalculate

Return to Map Table

Form Version
 Table
 DataSource
 Item

Activate Item

Deactivate Item

Run this Item

This Mapping Item is Active ✓

Table Information

Table Attribute	Location
BSL22584	Column
BSL22585	Column
OI14299	Row
OI14300	Row
OI14301	Row
CBDT17481	Derivation

Dimension
CtgryOfExpsr_02_09 CategoryOfExposureDimension
SourceCurrency_02_06 SourceCurrencyDimension
InterestRateType_02_01 InterestRateTypeDimension

Hard Code to:
Fixed

Table Mapping

Dimensions	Specify 3 Row Attributes OR Hard Code above	Specify 1 Column Attribute		Add filtering to the data;
	Row Attribute	Column Attribute	Dimension Element	Filter Data
DS_Deal				
DS_CostCentre				
DS_CostCentre_Type				
DS_Product				
DS_Issuer				
DS_ANZSIC				
DS_SESCA				
DS_Issuer_Country				
DS_Instrum_StartDate				
DS_Instrum_EndDate				
DS_Original_Term_Maturity				
DS_Residual_Term_Maturity				
DS_Currency				
BASE_DS_FX				
BASE_Debt_Security_Measure		BSL22584	MarketValue	
SBR_DebtSec_Balance_Type				
SBR_DebtSec_Category_of_Exposure	OI14299			
SBR_DebtSec_Counterparty_Relationship				
SBR_DebtSec_Institutional_Unit_Residence				
SBR_DebtSec_Issuing_Counterparty				
SBR_DebtSec_Interest_Bearing_Type				
SBR_DebtSec_Original_Term_to_Maturity				
SBR_DebtSec_Ranking_Type				
SBR_DebtSec_Residual_Term_to_Maturity				
SBR_DebtSec_Security_Issuer				
SBR_DebtSec_Security_Maturity_Class				
SBR_DebtSec_Source_Currency	OI14300			
SBR_DebtSec_Transaction_Intent				
BASE_APRA_Entity				
TAGGED_Debt_Security_Measure				

Run this Item



TABLE MAPPING

Recalculate

Return to Table Mapping

APRA Return Version: W_2021-09-30_Submission
 Datasource: TAGGED_Debt_Security

Process Logs

APRA Form Version (Optional): ARF_748_0Bv5
 APRA_Attribute_Mapping (Optional): TBL_ARF_748_0B_Table1
 APRA_Table_Map_Item (Optional): 1

Run Mapping

TBL_ARF_748_0B_Table1

Run Mapping

Mapping completed successfully.

OK



APRA Entity
INT DataSource
APRA Return Version

[Recalculate](#)
[Show Data Sources](#)
[Trend Analysis](#)

ARF_748_0B: ABS/RBA Wholesale Funding Stocks, Flows and Interest Rates (Reduced)

Effective date: 1 September 2021

Australian Business Number	Institution Name
12345678910	CoreBIS No.1
Reporting Period	Scale Factor
2021-09-30	
Reporting Consolidation	
DOMESTIC	

1. Outstanding debt securities

1.1. Short-term

Type of short-term debt security (1)	Currency type (2)	Interest rate type (3)	Value (4)	Interest rate (5)
Bills of exchange	AUD	Fixed	9,000,000.0	3.0
Bills of exchange	USD	Fixed	361,915,852.0	0.2
Negotiable certificates of deposit	AUD	Fixed	571,269,000.0	0.0

Test Status: Success

5. New Forms Versions

No New Forms this month