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BIRD test - Workshop with software vendors

Workshop with software vendors
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Outline

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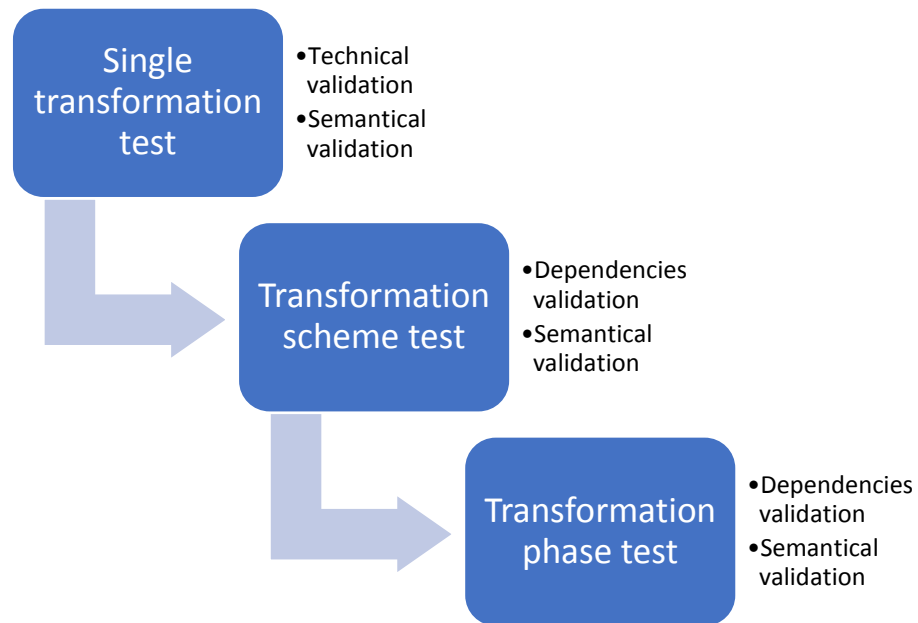
6. Who does what? A proposal

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1. Scope of the testing activity

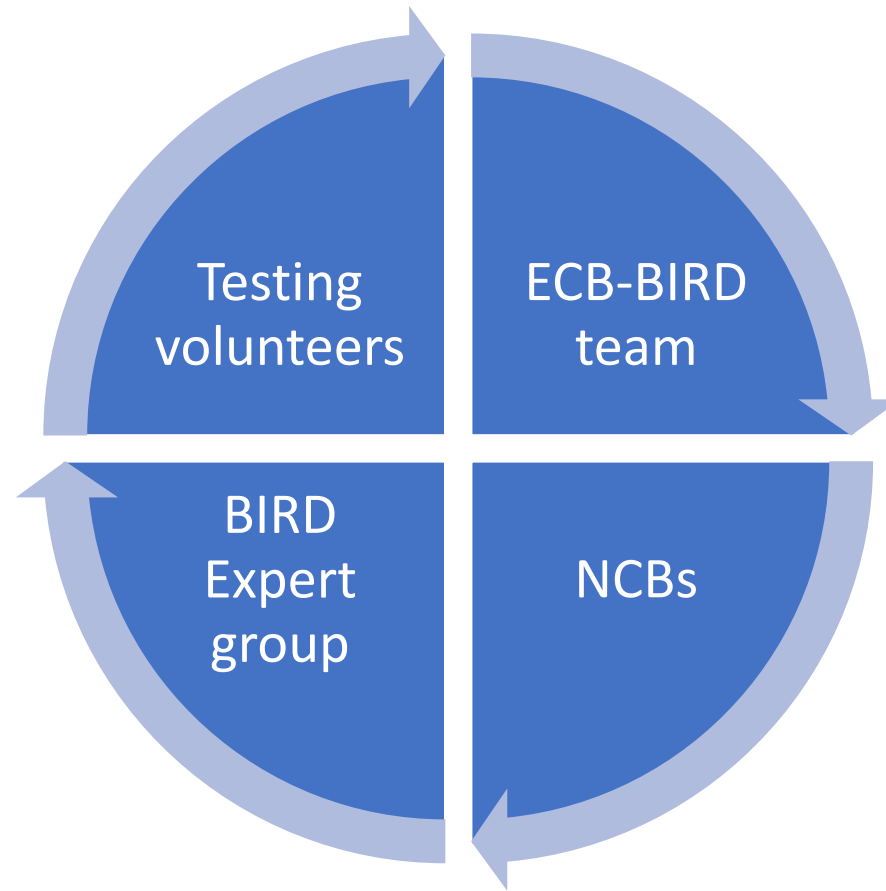
The aim of the testing activity is to ensure that the BIRD documentation is accurate in producing the desired output from a given input

Testing activity shall be conducted as a hierarchy



If all phases test are passed, the BIRD process is correct!

2. Involved parties



3. Testing requirements

Performing the testing activity requires the following components

Test data

- The BIRD input data should be complete, meaning that they should include as many different cases as possible

VTL engine

- The VTL engine serves to perform the BIRD transformations, taking the required input data and producing as output the result of the VTL expressions

Test definition

- For each transformation, transformation scheme and transformation phase, the expected result for a given input should be defined. The test definition should consist on input datasets required by the transformation or set of transformations, and the definition of the expected output

4. Testing process

- The testing process deals with the organization of the testing, meaning what are the activities to do and who will do them
- The testing activity shall be organized according to the testing levels
- Additionally, collaboration channels should be designed to facilitate the process

4.1 Single transformation tests

- Testing individual transformations is the most basic test to be performed
- Tests:
 - Validation: The transformation is a valid VTL expression
 - Semantical: Verification of compliance with the test definition

4.2 Transformation scheme tests

- Transformation schemes are sets of transformation that have a business meaning. This means that business users that define transformation schemes have in mind a certain behavior for the full set of transformations
- Tests:
 - Validation:
 - Validate dependencies
 - Compute input and output datasets and check with test definition
 - Semantical: Verification of compliance with the test definition

4.3 Transformation phase tests

- The BIRD process, is divided in three phases: IL EIL, EIL ROL and ROL NROL.
- IL EIL and EIL ROL imply the use of VTL transformations, and it is the part to be tested
- For testing purposes, it is convenient to separate the IL EIL and each independent generation of a framework (e.g. AnaCredit generation, FinRep generation...)
- Tests:
 - Validation:
 - Validate dependencies
 - Compute input and output datasets and check with test definition
 - Semantical: Verification of compliance with the test definition

4.4 Collaborative tools

- In order to facilitate collaboration among the involved parties, it is necessary to use a tool that facilitates:
 - Organisation of the work
 - Exchange of documents and comments
 - Reporting errors from companies not directly involved



Document sharing platform

5. Testing activity for future frameworks

- Providing test data:
 - Test data can only be provided when the IL is finished
- Defining tests
 - Changes in the IL or in the EIL:
 - BIRD group should define the tests when developing the transformations
 - Changes in the EIL ROL:
 - BIRD group should define the tests when developing the transformation schemes
 - The test definition for the full process should not change. In case it changes, developed by volunteers
 - Creating a new framework:
 - Volunteers should define the test, provided the input data

6. Who does what? A proposal

- BIRD group:
 - Define tests for transformation schemes and IL EIL transformations
 - Perform the tests and communicate results
- Volunteers for:
 - Providing test data
 - Defining tests for generation of frameworks
- Any third party can communicate errors spotted

Annex. Test definition example

Test definition level Transformation

Input datasets

A
B

Output datasets

D

Input data

A

	var1	var2
id1		100
id2		200

B

	var1	var3
id1		300
id3		400

output data

D

	var1	var2	var3
id1		100	300