PLEIADES

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PLEIADES platform validation tests

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Summary

Results of tests of the task 2.4 of PLEIADES

Approval

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PLEIADES project
D2.3 PLEIADES platform validation test
(Deliverable from WP2 of the project)
(M21, Cyclife DS, DEM, PU)

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Executive Summary

This document presents the PLEIADES platform test performed and their associated results. These tests are composed by validation test and functional acceptance tests.

Each module software has developed a dedicated connector to allows communication and data exchange with the PLEIADES platform. The aim of these validation tests is to provide a guidance to perform the test to validate connectors functional use.

Keywords

Nuclear, Decommissioning, Platform, Digital Tools, Validation test.

1. Introduction

1.1. Purpose

The main aim of this deliverable is to demonstrate the functional use of the connectors developed for each module software and validate the realization of the implementation of PLEIADES platform on real use cases.
This document collects the results performed in the test phase of the PLEIADES platform, developed in the previous tasks. The validation test is composed by technical tests and functional acceptance test.

For each module software, a dedicated connector has been developed to allows communication and data exchange with the PLEIADES platform. Unitary tests are performed independently for each connector in order to validate their functional use.

Then functional acceptance tests aimed to perform tests close to the actions we will have to perform to complete the user stories.

In this document, results are provided for each module connector.
During the test suggestions or recommendations regarding the further development of the central server has been sent by all the partners.

1.2. Contribution partners

The estimated partners contribution in the task T2.4, which is related to this deliverable, is summarized in the table below:

Partner	Activity
CEA	Contribution to the unit tests. Organization of the training workshop for partners
Cyclife DS	Coordination and participation to the tests
LS	Coordination and participation to the tests
IFE	Participation to the tests: with focus on individual test of the VRdose, RadPIM and radiological tools and prototypes, and test of the overall system using the, or parts of the input base from WP1
VTT	Organization, coordination, and participation to the tests
TRACTEBEL	Participation to the tests related to WASTREAM tool
WAI	Participation to tests related to decommissioning and waste management costing

2. Unitary test

Unitary tests have been done independently for each connector to validate their correct functioning.

- A first part allows to test the connection with the MinIO server:

I. Min.IO server
  I.I Bucket
  I.II Folder
  I.III File

- A second part allows to validate the connection with the API and therefore the use case database:

II API
  II.I Database
  II.II Record
    II.II.C1 Record / Class #1
    II.II.C2 Record / Class #2

DEMplus

#	Unitary test	Test description	Expected outcome	Real outcome	Validation	Date
I	**Min.IO server**					
I.I	**Bucket**					
1	**Bucket creation**	Create a bucket in the Min.IO server named "bucket-[your module]-test"	New bucket created in the Min.IO server		Pass	26/08/2022
2	**Get the bucket list**	Generate and export the list of buckets	Obtain and be able to view/copy bucket names		Pass	26/08/2022
3	**Deleting a bucket**	Delete your bucket	Deleted bucket		Pass	26/08/2022
I.II	**Folder**					
0	**Bucket and folder to be used for the tests**	Name of the bucket : "Tests_Bucket" Name of the folder : "Tests_Folder"				
1	**Folder creation**	Add an objet to create a folder in the Min.IO server named "Folder_[your module]_TEST"	A folder is created in Min.IO Server		Pass	26/08/2022
2	**Get the folder list**	Generate and export the list of folders in the bucket	Obtain and be able to view/copy folder names		Pass	26/08/2022
3	**(Folder exportation)**	Export the folder "Tests_Folder"	The folder "Tests_Folder" is downloaded, the folder contains all the file present initially in the folder		Not applicable	
4	**Deleting all content in the folder**	Delete every content in the folder one by one or in one time	The folder is empty		Pass	26/08/2022
5	**Deleting a folder**	Delete your folder "Folder_[your module]_TEST"	Deleted folder		Pass	26/08/2022
I.III	**File**					
1	**File importation**	In the folder "Tests_Folder" import a file (as a word / excel / pdf) named "File_[your module]_TEST"	Your file is uploaded in the folder "Tests_Folder"		Pass	26/08/2022
2	**File exportation**	Export your file from the folder "Tests_Folder"	The file is downloaded from the folder, the file downloaded can be opened by the user without change from the original file		Pass	26/08/2022
3	**Get the file list**	Generate and export the list of files in the folder "Tests_Folder"	Obtain and be able to view/copy files names		Pass	26/08/2022
4	**Deleting a file**	Delete your file "File_[your module]_TEST"	Deleted file		Pass	26/08/2022
II	**API**					
II.I	**Database**					
1	**Create an empty database**	Add a new database in the PLEIADES DB browser named "[your module]_TEST_DB"	New database created		Pass	26/08/2022
2	**Get list of available databases**	Generate and export the list of databases	Obtain and be able to view/copy database names		Pass	26/08/2022
3	**Delete a database [Only after having finished Records parts]**	Delete your database	Deleted database		Pass	26/08/2022
II.II	**Record**					
0	**Database to be used for the tests**	Name of the database : ""[your module]_TEST_DB"				
1	**Get a list of record based on a search query**	In the database ""[your module]_TEST_DB"", perform a search query to obtain and import at least two records	Obtain and be able to use the records in your software		Pass	26/08/2022
I.II.C	**Record / Class #1**					
1	**Adding a record in the database**	Choose an initial class relevant to the use of your software. Import hypothetical or dummy data to complete, if possible, the full set of properties of the class	The data are present in the chosen class of the database		Pass	26/08/2022
	Example	*Add a calculation model*	*There is no error and every properties have been created in the platform :* *Value (number)* *Type of operation (h ; h/m3 ; h/m2 ...)*		Pass	26/08/2022
2	**Update a record**	Use the previously generated ID of your record to modify the data you have imported	The data are modified		Pass	26/08/2022
3	**Get a record**	Use the previously generated ID of your record to get the data you have imported	Obtain and be able to use the record in your software		Pass	26/08/2022
4	**Delete a record**	Delete your record	Deleted record		Pass	26/08/2022
I.II.C	**Record / Class #2**					
1	**Adding a record in the database**	Choose an second class relevant to the use of your software. Import hypothetical or dummy data to complete, if possible, the full set of properties of the class	The data are present in the chosen class of the database		Pass	26/08/2022
	Example	*Add a calculation model*	*There is no error and every properties have been created in the platform :* *Value (number)* *Type of operation (h ; h/m3 ; h/m2 ...)*		Pass	26/08/2022
2	**Update a record**	Use the previously generated ID of your record to modify the data you have imported	The data are modified		Pass	26/08/2022
3	**Get a record**	Use the previously generated ID of your record to get the data you have imported	Obtain and be able to use the record in your software		Pass	26/08/2022
4	**Delete a record**	Delete your record	Deleted record		Pass	26/08/2022

iDrop

#	Unitary test	Test description	Expected outcome	Real outcome	Validation	Date
I	**Min.IO server**					
I.I	**Bucket**					
1	**Bucket creation**	Create a bucket in the Min.IO server named "bucket-[your module]-test"	New bucket created in the Min.IO server	Bucket created. Confirmation message.	Pass	22.07.2022
2	**Get the bucket list**	Generate and export the list of buckets	Obtain and be able to view/copy bucket names	Get list buckets with names and creation dates.	Pass	22.07.2022
3	**Deleting a bucket**	Delete your bucket	Deleted bucket	Bucket removed succesfully with confirmation message.	Pass	22.07.2022
I.II	**Folder**					
0	**Bucket and folder to be used for the tests**	Name of the bucket : "Tests_Bucket" Name of the folder : "Tests_Folder"				
1	**Folder creation**	Add an objet to create a folder in the Min.IO server named "Folder_[your module]_TEST"	A folder is created in Min.IO Server	Folder created afeter uploading file in a non-existent folder.	Pass	22.07.2022
2	**Get the folder list**	Generate and export the list of folders in the bucket	Obtain and be able to view/copy folder names	Get list of folder names. Recursively or not. (parameter)	Pass	22.07.2022
3	**(Folder exportation)**	Export the folder "Tests_Folder"	The folder "Tests_Folder" is downloaded, the folder contains all the file present initially in the folder		Not applicable	
4	**Deleting all content in the folder**	Delete every content in the folder one by one or in one time	The folder is empty	Removing all content from folder, remove folder	Pass	22.07.2022
5	**Deleting a folder**	Delete your folder "Folder_[your module]_TEST"	Deleted folder	Removing all content from folder, remove folder	Pass	22.07.2022
I.III	**File**					
1	**File importation**	In the folder "Tests_Folder" import a file (as a word / excel / pdf) named "File_[your module]_TEST"	Your file is uploaded in the folder "Tests_Folder"	File correctly imported in bucket in folder "Tests_Folder".	Pass	22/07/2022
2	**File exportation**	Export your file from the folder "Tests_Folder"	The file is downloaded from the folder, the file downloaded can be opened by the user without change from the original file	File correctly exported in local.	Pass	22/07/2022
3	**Get the file list**	Generate and export the list of files in the folder "Tests_Folder"	Obtain and be able to view/copy files names	Get list of files. Recusively or not (parameter).	Pass	22/07/2022
4	**Deleting a file**	Delete your file "File_[your module]_TEST"	Deleted file	File is removed from server with confirmation message.	Pass	22/07/2022
II	**API**					
II.I	**Database**					
1	**Create an empty database**	Add a new database in the PLEIADES DB browser named "[your module]_TEST_DB"	New database created	Database created with confirmation message.	Pass	22/07/2022
2	**Get list of available databases**	Generate and export the list of databases	Obtain and be able to view/copy database names	Get list of databases with names and space used.	Pass	22/07/2022
3	**Delete a database [Only after having finished Records parts]**	Delete your database	Deleted database	Delete the database with confirmation message.	Pass	22/07/2022
II.II	**Record**					
0	**Database to be used for the tests**	Name of the database : ""[your module]_TEST_DB"				
1	**Get a list of record based on a search query**	In the database ""[your module]_TEST_DB"", perform a search query to obtain and import at least two records	Obtain and be able to use the records in your software	Get a list of record depending of certain filters.	Pass	22/07/2022
I.II.C	**Record / Class #1**					
1	**Adding a record in the database**	Choose an initial class relevant to the use of your software. Import hypothetical or dummy data to complete, if possible, the full set of properties of the class	The data are present in the chosen class of the database	Record is added on database	Pass	22/07/2022
	Example	*Add a calculation model*	*There is no error and every properties have been created in the platform :* *Value (number)* *Type of operation (h ; h/m3 ; h/m2 ...)*	Add an Actors.Persons. Returns record id.	Pass	22/07/2022
2	**Update a record**	Use the previously generated ID of your record to modify the data you have imported	The data are modified	Record is updated on database	Pass	22/07/2022
3	**Get a record**	Use the previously generated ID of your record to get the data you have imported	Obtain and be able to use the record in your software	Get record data	Pass	22/07/2022
4	**Delete a record**	Delete your record	Deleted record	Delete a record	Pass	22/07/2022
I.II.C	**Record / Class #2**					
1	**Adding a record in the database**	Choose an second class relevant to the use of your software. Import hypothetical or dummy data to complete, if possible, the full set of properties of the class	The data are present in the chosen class of the database	Record is added on database	Pass	22/07/2022
	Example	*Add a calculation model*	*There is no error and every properties have been created in the platform :* *Value (number)* *Type of operation (h ; h/m3 ; h/m2 ...)*	Add a Wastes.PackageTypes. Returns record id.	Pass	22/07/2022
2	**Update a record**	Use the previously generated ID of your record to modify the data you have imported	The data are modified	Record is updated on database	Pass	22/07/2022
3	**Get a record**	Use the previously generated ID of your record to get the data you have imported	Obtain and be able to use the record in your software	Get record data	Pass	22/07/2022
4	**Delete a record**	Delete your record	Deleted record	Delete a record	Pass	22/07/2022

Note : The connector is the same that the Interact connector

RadPIM

#	Unitary test	Test description	Expected outcome	Real outcome	Validation	Date
I	**Min.IO server**					
I.I	**Bucket**					
1	**Bucket creation**	Create a bucket in the Min.IO server named "bucket-[your module]-test"	New bucket created in the Min.IO server		Pass	02/09/2022
2	**Get the bucket list**	Generate and export the list of buckets	Obtain and be able to view/copy bucket names		Pass	02/09/2022
3	**Deleting a bucket**	Delete your bucket	Deleted bucket		Pass	02/09/2022
I.II	**Folder**					
0	**Bucket and folder to be used for the tests**	Name of the bucket : "Tests_Bucket" Name of the folder : "Tests_Folder"				
1	**Folder creation**	Add an objet to create a folder in the Min.IO server named "Folder_[your module]_TEST"	A folder is created in Min.IO Server		Pass	02/09/2022
2	**Get the folder list**	Generate and export the list of folders in the bucket	Obtain and be able to view/copy folder names		Pass	02/09/2022
3	**(Folder exportation)**	Export the folder "Tests_Folder"	The folder "Tests_Folder" is downloaded, the folder contains all the file present initially in the folder		Pass	02/09/2022
4	**Deleting all content in the folder**	Delete every content in the folder one by one or in one time	The folder is empty		Pass	02/09/2022
5	**Deleting a folder**	Delete your folder "Folder_[your module]_TEST"	Deleted folder		Pass	02/09/2022
I.III	**File**					
1	**File importation**	In the folder "Tests_Folder" import a file (as a word / excel / pdf) named "File_[your module]_TEST"	Your file is uploaded in the folder "Tests_Folder"		Pass	02/09/2022
2	**File exportation**	Export your file from the folder "Tests_Folder"	The file is downloaded from the folder, the file downloaded can be opened by the user without change from the original file		Pass	02/09/2022
3	**Get the file list**	Generate and export the list of files in the folder "Tests_Folder"	Obtain and be able to view/copy files names		Pass	02/09/2022
4	**Deleting a file**	Delete your file "File_[your module]_TEST"	Deleted file		Pass	02/09/2022
II	**API**					
II.I	**Database**					
1	**Create an empty database**	Add a new database in the PLEIADES DB browser named "[your module]_TEST_DB"	New database created		Pass	02/09/2022
2	**Get list of available databases**	Generate and export the list of databases	Obtain and be able to view/copy database names		Pass	02/09/2022
3	**Delete a database [Only after having finished Records parts]**	Delete your database	Deleted database		Pass	02/09/2022
II.II	**Record**					
0	**Database to be used for the tests**	Name of the database : ""[your module]_TEST_DB"				
1	**Get a list of record based on a search query**	In the database ""[your module]_TEST_DB"", perform a search query to obtain and import at least two records	Obtain and be able to use the records in your software		Pass	02/09/2022
I.II.C	**Record / Class #1**					
1	**Adding a record in the database**	Choose an initial class relevant to the use of your software. Import hypothetical or dummy data to complete, if possible, the full set of properties of the class	The data are present in the chosen class of the database		Pass	02/09/2022
	Example	*Add a calculation model*	*There is no error and every properties have been created in the platform :* *Value (number)* *Type of operation (h ; h/m3 ; h/m2 ...)*		Pass	02/09/2022
2	**Update a record**	Use the previously generated ID of your record to modify the data you have imported	The data are modified		Pass	02/09/2022
3	**Get a record**	Use the previously generated ID of your record to get the data you have imported	Obtain and be able to use the record in your software		Pass	02/09/2022
4	**Delete a record**	Delete your record	Deleted record		Pass	02/09/2022
I.II.C	**Record / Class #2**					
1	**Adding a record in the database**	Choose an second class relevant to the use of your software. Import hypothetical or dummy data to complete, if possible, the full set of properties of the class	The data are present in the chosen class of the database		Pass	02/09/2022
	Example	*Add a calculation model*	*There is no error and every properties have been created in the platform :* *Value (number)* *Type of operation (h ; h/m3 ; h/m2 ...)*		Pass	02/09/2022
2	**Update a record**	Use the previously generated ID of your record to modify the data you have imported	The data are modified		Pass	02/09/2022
3	**Get a record**	Use the previously generated ID of your record to get the data you have imported	Obtain and be able to use the record in your software		Pass	02/09/2022
4	**Delete a record**	Delete your record	Deleted record		Pass	02/09/2022

VRdose

#	Unitary test	Test description	Expected outcome	Real outcome	Validation	Date
I	**Min.IO server**					
I.I	**Bucket**					
1	**Bucket creation**	Create a bucket in the Min.IO server named "bucket-[your module]-test"	New bucket created in the Min.IO server		Pass	7.9.2022
2	**Get the bucket list**	Generate and export the list of buckets	Obtain and be able to view/copy bucket names		Pass	7.9.2022
3	**Deleting a bucket**	Delete your bucket	Deleted bucket		Pass	7.9.2022
I.II	**Folder**					
0	**Bucket and folder to be used for the tests**	Name of the bucket : "Tests_Bucket" Name of the folder : "Tests_Folder"				
1	**Folder creation**	Add an objet to create a folder in the Min.IO server named "Folder_[your module]_TEST"	A folder is created in Min.IO Server		Pass	7.9.2022
2	**Get the folder list**	Generate and export the list of folders in the bucket	Obtain and be able to view/copy folder names		Pass	7.9.2022
3	**(Folder exportation)**	Export the folder "Tests_Folder"	The folder "Tests_Folder" is downloaded, the folder contains all the file present initially in the folder		Pass	7.9.2022
4	**Deleting all content in the folder**	Delete every content in the folder one by one or in one time	The folder is empty		Pass	7.9.2022
5	**Deleting a folder**	Delete your folder "Folder_[your module]_TEST"	Deleted folder		Pass	7.9.2022
I.III	**File**					
1	**File importation**	In the folder "Tests_Folder" import a file (as a word / excel / pdf) named "File_[your module]_TEST"	Your file is uploaded in the folder "Tests_Folder"		Pass	7.9.2022
2	**File exportation**	Export your file from the folder "Tests_Folder"	The file is downloaded from the folder, the file downloaded can be opened by the user without change from the original file		Pass	7.9.2022
3	**Get the file list**	Generate and export the list of files in the folder "Tests_Folder"	Obtain and be able to view/copy files names		Pass	7.9.2022
4	**Deleting a file**	Delete your file "File_[your module]_TEST"	Deleted file		Pass	7.9.2022
II	**API**					
II.I	**Database**					
1	**Create an empty database**	Add a new database in the PLEIADES DB browser named "[your module]_TEST_DB"	New database created		Pass	7.9.2022
2	**Get list of available databases**	Generate and export the list of databases	Obtain and be able to view/copy database names		Pass	7.9.2022
3	**Delete a database [Only after having finished Records parts]**	Delete your database	Deleted database		Pass	7.9.2022
II.II	**Record**					
0	**Database to be used for the tests**	Name of the database : ""[your module]_TEST_DB"				
1	**Get a list of record based on a search query**	In the database ""[your module]_TEST_DB"", perform a search query to obtain and import at least two records	Obtain and be able to use the records in your software		Pass	7.9.2022
I.II.C	**Record / Class #1**					
1	**Adding a record in the database**	Choose an initial class relevant to the use of your software. Import hypothetical or dummy data to complete, if possible, the full set of properties of the class	The data are present in the chosen class of the database		Pass	7.9.2022
	Example	*Add a calculation model*	*There is no error and every properties have been created in the platform :* *Value (number)* *Type of operation (h ; h/m3 ; h/m2 ...)*		Not applicable	
2	**Update a record**	Use the previously generated ID of your record to modify the data you have imported	The data are modified		Pass	7.9.2022
3	**Get a record**	Use the previously generated ID of your record to get the data you have imported	Obtain and be able to use the record in your software		Pass	7.9.2022
4	**Delete a record**	Delete your record	Deleted record		Pass	7.9.2022
I.II.C	**Record / Class #2**					
1	**Adding a record in the database**	Choose an second class relevant to the use of your software. Import hypothetical or dummy data to complete, if possible, the full set of properties of the class	The data are present in the chosen class of the database		Pass	7.9.2022
	Example	*Add a calculation model*	*There is no error and every properties have been created in the platform :* *Value (number)* *Type of operation (h ; h/m3 ; h/m2 ...)*		Not applicable	
2	**Update a record**	Use the previously generated ID of your record to modify the data you have imported	The data are modified		Pass	7.9.2022
3	**Get a record**	Use the previously generated ID of your record to get the data you have imported	Obtain and be able to use the record in your software		Pass	7.9.2022
4	**Delete a record**	Delete your record	Deleted record		Pass	7.9.2022

Interact

#	Unitary test	Test description	Expected outcome	Real outcome	Validation	Date
I	**Min.IO server**					
I.I	**Bucket**					
1	**Bucket creation**	Create a bucket in the Min.IO server named "bucket-[your module]-test"	New bucket created in the Min.IO server	Bucket created. Confirmation message.	Pass	22.07.2022
2	**Get the bucket list**	Generate and export the list of buckets	Obtain and be able to view/copy bucket names	Get list buckets with names and creation dates.	Pass	22.07.2022
3	**Deleting a bucket**	Delete your bucket	Deleted bucket	Bucket removed succesfully with confirmation message.	Pass	22.07.2022
I.II	**Folder**					
0	**Bucket and folder to be used for the tests**	Name of the bucket : "Tests_Bucket" Name of the folder : "Tests_Folder"				
1	**Folder creation**	Add an objet to create a folder in the Min.IO server named "Folder_[your module]_TEST"	A folder is created in Min.IO Server	Folder created afeter uploading file in a non-existent folder.	Pass	22.07.2022
2	**Get the folder list**	Generate and export the list of folders in the bucket	Obtain and be able to view/copy folder names	Get list of folder names. Recursively or not. (parameter)	Pass	22.07.2022
3	**(Folder exportation)**	Export the folder "Tests_Folder"	The folder "Tests_Folder" is downloaded, the folder contains all the file present initially in the folder		Not applicable	
4	**Deleting all content in the folder**	Delete every content in the folder one by one or in one time	The folder is empty	Removing all content from folder, remove folder	Pass	22.07.2022
5	**Deleting a folder**	Delete your folder "Folder_[your module]_TEST"	Deleted folder	Removing all content from folder, remove folder	Pass	22.07.2022
I.III	**File**					
1	**File importation**	In the folder "Tests_Folder" import a file (as a word / excel / pdf) named "File_[your module]_TEST"	Your file is uploaded in the folder "Tests_Folder"	File correctly imported in bucket in folder "Tests_Folder".	Pass	22/07/2022
2	**File exportation**	Export your file from the folder "Tests_Folder"	The file is downloaded from the folder, the file downloaded can be opened by the user without change from the original file	File correctly exported in local.	Pass	22/07/2022
3	**Get the file list**	Generate and export the list of files in the folder "Tests_Folder"	Obtain and be able to view/copy files names	Get list of files. Recusively or not (parameter).	Pass	22/07/2022
4	**Deleting a file**	Delete your file "File_[your module]_TEST"	Deleted file	File is removed from server with confirmation message.	Pass	22/07/2022
II	**API**					
II.I	**Database**					
1	**Create an empty database**	Add a new database in the PLEIADES DB browser named "[your module]_TEST_DB"	New database created	Database created with confirmation message.	Pass	22/07/2022
2	**Get list of available databases**	Generate and export the list of databases	Obtain and be able to view/copy database names	Get list of databases with names and space used.	Pass	22/07/2022
3	**Delete a database [Only after having finished Records parts]**	Delete your database	Deleted database	Delete the database with confirmation message.	Pass	22/07/2022
II.II	**Record**					
0	**Database to be used for the tests**	Name of the database : ""[your module]_TEST_DB"				
1	**Get a list of record based on a search query**	In the database ""[your module]_TEST_DB"", perform a search query to obtain and import at least two records	Obtain and be able to use the records in your software	Get a list of record depending of certain filters.	Pass	22/07/2022
I.II.C	**Record / Class #1**					
1	**Adding a record in the database**	Choose an initial class relevant to the use of your software. Import hypothetical or dummy data to complete, if possible, the full set of properties of the class	The data are present in the chosen class of the database	Record is added on database	Pass	22/07/2022
	Example	*Add a calculation model*	*There is no error and every properties have been created in the platform :* *Value (number)* *Type of operation (h ; h/m3 ; h/m2 ...)*	Add an Actors.Persons. Returns record id.	Pass	22/07/2022
2	**Update a record**	Use the previously generated ID of your record to modify the data you have imported	The data are modified	Record is updated on database	Pass	22/07/2022
3	**Get a record**	Use the previously generated ID of your record to get the data you have imported	Obtain and be able to use the record in your software	Get record data	Pass	22/07/2022
4	**Delete a record**	Delete your record	Deleted record	Delete a record	Pass	22/07/2022
I.II.C	**Record / Class #2**					
1	**Adding a record in the database**	Choose an second class relevant to the use of your software. Import hypothetical or dummy data to complete, if possible, the full set of properties of the class	The data are present in the chosen class of the database	Record is added on database	Pass	22/07/2022
	Example	*Add a calculation model*	*There is no error and every properties have been created in the platform :* *Value (number)* *Type of operation (h ; h/m3 ; h/m2 ...)*	Add a Wastes.PackageTypes. Returns record id.	Pass	22/07/2022
2	**Update a record**	Use the previously generated ID of your record to modify the data you have imported	The data are modified	Record is updated on database	Pass	22/07/2022
3	**Get a record**	Use the previously generated ID of your record to get the data you have imported	Obtain and be able to use the record in your software	Get record data	Pass	22/07/2022
4	**Delete a record**	Delete your record	Deleted record	Delete a record	Pass	22/07/2022

Note : The connector is the same that the iDrop connector

XRWorkflow

#	Unitary test	Test description	Expected outcome	Real outcome	Validation	Date
I	**Min.IO server**					
I.I	**Bucket**					
1	**Bucket creation**	Create a bucket in the Min.IO server named "bucket-[your module]-test"	New bucket created in the Min.IO server	Bucket name cannot have upper case characters. Using "bucket-xrworkflow-test". Works.	Pass	1.7.2022
2	**Get the bucket list**	Generate and export the list of buckets	Obtain and be able to view/copy bucket names	List of names. Works	Pass	1.7.2022
3	**Deleting a bucket**	Delete your bucket	Deleted bucket	Deleted	Pass	1.7.2022
I.II	**Folder**					
0	**Bucket and folder to be used for the tests**	Name of the bucket : "Tests_Bucket" Name of the folder : "Tests_Folder"				
1	**Folder creation**	Add an objet to create a folder in the Min.IO server named "Folder_[your module]_TEST"	A folder is created in Min.IO Server	yes, with the file upload	Pass	1.7.2022
2	**Get the folder list**	Generate and export the list of folders in the bucket	Obtain and be able to view/copy folder names	list of folders	Pass	1.7.2022
3	**(Folder exportation)**	Export the folder "Tests_Folder"	The folder "Tests_Folder" is downloaded, the folder contains all the file present initially in the folder	--	Not applicable	
4	**Deleting all content in the folder**	Delete every content in the folder one by one or in one time	The folder is empty	Delete all the content first, then folder deletes	Pass	2.8.2022
5	**Deleting a folder**	Delete your folder "Folder_[your module]_TEST"	Deleted folder	Delete all the content first, then folder deletes	Pass	2.8.2022
I.III	**File**					
1	**File importation**	In the folder "Tests_Folder" import a file (as a word / excel / pdf) named "File_[your module]_TEST"	Your file is uploaded in the folder "Tests_Folder"	file uploaded	Pass	1.7.2022
2	**File exportation**	Export your file from the folder "Tests_Folder"	The file is downloaded from the folder, the file downloaded can be opened by the user without change from the original file	downloaded	Pass	1.7.2022
3	**Get the file list**	Generate and export the list of files in the folder "Tests_Folder"	Obtain and be able to view/copy files names	list of files	Pass	1.7.2022
4	**Deleting a file**	Delete your file "File_[your module]_TEST"	Deleted file	deleted	Pass	1.7.2022
II	**API**					
II.I	**Database**					
1	**Create an empty database**	Add a new database in the PLEIADES DB browser named "[your module]_TEST_DB"	New database created	Database creates	Pass	1.8.2022
2	**Get list of available databases**	Generate and export the list of databases	Obtain and be able to view/copy database names	list of databases	Pass	1.7.2022
3	**Delete a database [Only after having finished Records parts]**	Delete your database	Deleted database	Database deleted	Pass	1.8.2022
II.II	**Record**					
0	**Database to be used for the tests**	Name of the database : ""[your module]_TEST_DB"				
1	**Get a list of record based on a search query**	In the database ""[your module]_TEST_DB"", perform a search query to obtain and import at least two records	Obtain and be able to use the records in your software	list of records	Pass	1.7.2022
I.II.C	**Record / Class #1**					
1	**Adding a record in the database**	Choose an initial class relevant to the use of your software. Import hypothetical or dummy data to complete, if possible, the full set of properties of the class	The data are present in the chosen class of the database	added PostItNote	Pass	1.7.2022
	Example	*Add a calculation model*	*There is no error and every properties have been created in the platform :* *Value (number)* *Type of operation (h ; h/m3 ; h/m2 ...)*	(no need in our case)	Not applicable	
2	**Update a record**	Use the previously generated ID of your record to modify the data you have imported	The data are modified	updated	Pass	1.7.2022
3	**Get a record**	Use the previously generated ID of your record to get the data you have imported	Obtain and be able to use the record in your software	record found	Pass	1.7.2022
4	**Delete a record**	Delete your record	Deleted record	record deleted	Pass	1.7.2022
I.II.C	**Record / Class #2**					
1	**Adding a record in the database**	Choose an second class relevant to the use of your software. Import hypothetical or dummy data to complete, if possible, the full set of properties of the class	The data are present in the chosen class of the database	Same results as in previous tests (II.II.C1) 1.7.2022	Pass	
	Example	*Add a calculation model*	*There is no error and every properties have been created in the platform :* *Value (number)* *Type of operation (h ; h/m3 ; h/m2 ...)*		Pass	
2	**Update a record**	Use the previously generated ID of your record to modify the data you have imported	The data are modified		Pass	
3	**Get a record**	Use the previously generated ID of your record to get the data you have imported	Obtain and be able to use the record in your software		Pass	
4	**Delete a record**	Delete your record	Deleted record		Pass	

Wastream

#	Fonctionnal test	Test description	Expected outcome	Real outcome	Validation	Date
I	**Min.IO server**					
I.I	**Bucket**					
1	**Bucket creation**	Create a bucket in the Min.IO server named "bucket-[your module]-test"	New bucket created in the Min.IO server		Pass	22/11/2022
2	**Get the bucket list**	Generate and export the list of buckets	Obtain and be able to view/copy bucket names		Pass	22/11/2022
3	**Deleting a bucket**	Delete your bucket	Deleted bucket		Pass	22/11/2022
I.II	**Folder**					
0	**Bucket and folder to be used for the tests**	Name of the bucket : "Tests_Bucket" Name of the folder : "Tests_Folder"				
1	**Folder creation**	Add an objet to create a folder in the Min.IO server named "Folder_[your module]_TEST"	A folder is created in Min.IO Server		Pass	22/11/2022
2	**Get the folder list**	Generate and export the list of folders in the bucket	Obtain and be able to view/copy folder names		Pass	22/11/2022
3	**(Folder exportation)**	Export the folder "Tests_Folder"	The folder "Tests_Folder" is downloaded, the folder contains all the file present initially in the folder		Pass	22/11/2022
4	**Deleting all content in the folder**	Delete every content in the folder one by one or in one time	The folder is empty		Pass	22/11/2022
5	**Deleting a folder**	Delete your folder "Folder_[your module]_TEST"	Deleted folder		Pass	22/11/2022
I.III	**File**					
1	**File importation**	In the folder "Tests_Folder" import a file (as a word / excel / pdf) named "File_[your module]_TEST"	Your file is uploaded in the folder "Tests_Folder"		Pass	22/11/2022
2	**File exportation**	Export your file from the folder "Tests_Folder"	The file is downloaded from the folder, the file downloaded can be opened by the user without change from the original file		Pass	22/11/2022
3	**Get the file list**	Generate and export the list of files in the folder "Tests_Folder"	Obtain and be able to view/copy files names		Pass	22/11/2022
4	**Deleting a file**	Delete your file "File_[your module]_TEST"	Deleted file		Pass	22/11/2022
II	**API**					
II.I	**Database**					
1	**Create an empty database**	Add a new database in the PLEIADES DB browser named "[your module]_TEST_DB"	New database created		Pass	22/11/2022
2	**Get list of available databases**	Generate and export the list of databases	Obtain and be able to view/copy database names		Pass	22/11/2022
3	**Delete a database [Only after having finished Records parts]**	Delete your database	Deleted database		Pass	22/11/2022
II.II	**Record**					
0	**Database to be used for the tests**	Name of the database : ""[your module]_TEST_DB"				
1	**Get a list of record based on a search query**	In the database ""[your module]_TEST_DB"", perform a search query to obtain and import at least two records	Obtain and be able to use the records in your software		Pass	22/11/2022
I.II.C	**Record / Class #1**					
1	**Adding a record in the database**	Choose an initial class relevant to the use of your software. Import hypothetical or dummy data to complete, if possible, the full set of properties of the class	The data are present in the chosen class of the database		Not applicable	
	Example	*Add a calculation model*	*There is no error and every properties have been created in the platform :* *Value (number)* *Type of operation (h ; h/m3 ; h/m2 ...)*		Not applicable	
2	**Update a record**	Use the previously generated ID of your record to modify the data you have imported	The data are modified		Not applicable	
3	**Get a record**	Use the previously generated ID of your record to get the data you have imported	Obtain and be able to use the record in your software		Not applicable	
4	**Delete a record**	Delete your record	Deleted record		Not applicable	
I.II.C	**Record / Class #2**					
1	**Adding a record in the database**	Choose an second class relevant to the use of your software. Import hypothetical or dummy data to complete, if possible, the full set of properties of the class	The data are present in the chosen class of the database		Not applicable	
	Example	*Add a calculation model*	*There is no error and every properties have been created in the platform :* *Value (number)* *Type of operation (h ; h/m3 ; h/m2 ...)*		Not applicable	
2	**Update a record**	Use the previously generated ID of your record to modify the data you have imported	The data are modified		Not applicable	
3	**Get a record**	Use the previously generated ID of your record to get the data you have imported	Obtain and be able to use the record in your software		Not applicable	
4	**Delete a record**	Delete your record	Deleted record		Not applicable	

Aquila costing

#	Unitary test	Test description	Expected outcome	Real outcome	Validation	Date
I	**Min.IO server**					
I.I	**Bucket**					
1	**Bucket creation**	Create a bucket in the Min.IO server named "bucket-[your module]-test"	New bucket created in the Min.IO server		Pass	21.7.2022
2	**Get the bucket list**	Generate and export the list of buckets	Obtain and be able to view/copy bucket names		Pass	21.7.2022
3	**Deleting a bucket**	Delete your bucket	Deleted bucket		Pass	21.7.2022
I.II	**Folder**					
0	**Bucket and folder to be used for the tests**	Name of the bucket : "Tests_Bucket" Name of the folder : "Tests_Folder"				
1	**Folder creation**	Creation of a folder in the Min.IO server named "Folder_[your module]_TEST"	A folder is created in Min.IO Server		Pass	21.7.2022
2	**Get the folder list**	Generate and export the list of folders in the bucket	Obtain and be able to view/copy folder names		Pass	21.7.2022
3	**(Folder exportation)**	Export the folder "Tests_Folder"	The folder "Tests_Folder" is downloaded, the folder contains all the file present initially in the folder		Pass	21.7.2022
4	**Deleting all content in the folder**	Delete every content in the folder one by one or in one time	The folder is empty		Pass	21.7.2022
5	**Deleting a folder**	Delete your folder "Folder_[your module]_TEST"	Deleted folder		Pass	21.7.2022
I.III	**File**					
1	**File importation**	In the folder "Tests_Folder" import a file (as a word / excel / pdf) named "File_[your module]_TEST"	Your file is uploaded in the folder "Tests_Folder"		Pass	21.7.2022
2	**File exportation**	Export your file from the folder "Tests_Folder"	The file is downloaded from the folder, the file downloaded can be opened by the user without change from the original file		Pass	21.7.2022
3	**Get the file list**	Generate and export the list of files in the folder "Tests_Folder"	Obtain and be able to view/copy files names		Pass	21.7.2022
4	**Deleting a file**	Delete your file "File_[your module]_TEST"	Deleted file		Pass	21.7.2022
II	**API**					
II.I	**Database**					
1	**Create an empty database**	Add a new database in the PLEIADES DB browser named "[your module]_TEST_DB"	New database created		Pass	3.8.2022
2	**Get list of available databases**	Generate and export the list of databases	Obtain and be able to view/copy database names		Pass	3.8.2022
3	**Delete a database [Only after having finished Records parts]**	Delete your database	Deleted database		Pass	3.8.2022
II.II	**Record**					
0	**Database to be used for the tests**	Name of the database : ""[your module]_TEST_DB"				
1	**Get a list of record based on a search query**	In the database ""[your module]_TEST_DB"", perform a search query to obtain and import at least two records	Obtain and be able to use the records in your software		Pass	3.8.2022
I.II.C	**Record / Class #1**					
1	**Adding a record in the database**	Choose an initial class relevant to the use of your software. Import hypothetical or dummy data to complete, if possible, the full set of properties of the class	The data are present in the chosen class of the database		Pass	3.8.2022
	Example	*Add a calculation model*	*There is no error and every properties have been created in the platform :* *Value (number)* *Type of operation (h ; h/m3 ; h/m2 ...)*		Pass	3.8.2022
2	**Update a record**	Use the previously generated ID of your record to modify the data you have imported	The data are modified		Pass	3.8.2022
3	**Get a record**	Use the previously generated ID of your record to get the data you have imported	Obtain and be able to use the record in your software		Pass	3.8.2022
4	**Delete a record**	Delete your record	Deleted record		Pass	3.8.2022
I.II.C	**Record / Class #2**					
1	**Adding a record in the database**	Choose an second class relevant to the use of your software. Import hypothetical or dummy data to complete, if possible, the full set of properties of the class	The data are present in the chosen class of the database		Pass	3.8.2022
	Example	*Add a calculation model*	*There is no error and every properties have been created in the platform :* *Value (number)* *Type of operation (h ; h/m3 ; h/m2 ...)*		Pass	3.8.2022
2	**Update a record**	Use the previously generated ID of your record to modify the data you have imported	The data are modified		Pass	3.8.2022
3	**Get a record**	Use the previously generated ID of your record to get the data you have imported	Obtain and be able to use the record in your software		Pass	3.8.2022
4	**Delete a record**	Delete your record	Deleted record		Pass	3.8.2022

3. Functional acceptance tests

The "Functional acceptance tests" tab is intended to perform tests close to the actions we will have to perform to complete the user stories. The purpose here is not that every software tries every test but more that the general workflow of PLEIADES is able to work

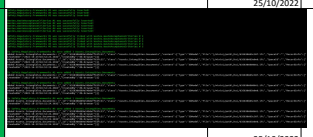
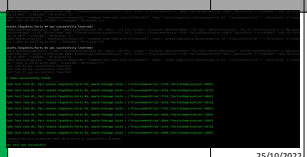
These tests should allow us to get ready for the following tasks of WP3 or at least see if there is any issue preventing the WP3 to be done.

The first benefit of these tests is to define precisely an organization to carry out the actions of the user stories: which partner uses which software to carry out such type of action.

1. Solution (partner + software) identified to perform the action;
2. Backup solution in case of inability to perform the action for the identified software;
3. Solution to test/verify results (if necessary).

The second benefit of these tests is to check that the planned organization will allow the user stories to be carried out when the time comes.

Functionnal acceptance tests

#	Functionnal acceptance tests	Solution identified to perform the action	Backup solution	Tests' predecessors	Steps of the test	Validation	Comments on tests	Date	Adaptation to be done
Category 1	**3D**								
1	Load IFC file(s) containing 3D models of **buildings**	VRdose			**Step 1**: Find all records of class PlantData.SiteStructure.Buildings **Step 2:** Read each record IFCObject, Get Assets.Intangibles.Documents and IfcGUID **Step 3:** Read each record Assets.Intangibles.Documents **Step 4:** download data (IFC, URDF,...) **Step 5: (optional)** clean IFC if a specific IfcGUID is define	Pass		26/10/2022	
		XRWorkflow				Pass	Manually download IFC, conversion to AssetBundles and then reading runtime with XR Workflow (Windows and Android)	24/10/2022	
		RadPIM				Pass	Manually downloaded and uploaded to RadPIM system	26/10/2022	
		iDROP				Pass		19/10/2022	
		DEMplus				Pass	Automatic creation of a scene from the IFC. Nevertheless, some flaws have been detected in the API, please read "Adaptation to do".	24/10/2022	We have detected that the API allows incorrect data to be submitted, for example, it is possible to submit text data when numeric data should be entered. This is probably due to the innate nature of PHP to treat data types as dynamic. To avoid errors, we propose that data types be respected as specified in the API documentation and thus become non-dynamic. Otherwise, the API will be extremely prone to data errors.
		INTERACT		/	**Step 5: (optional)** clean IFC if a specific IfcGUID is define	Pass		19/10/2022	
2	Prepare a 3D/BIM model of the target area including point	IDROP			**Step 1:** Find all records of class Assets.Intangibles.Documents with type of	Pass		19/10/2022	
			INTERACT	/		Pass		19/10/2022	
3	Be able to Verify the 3D model with point cloud model (can be	INTERACT			**Step 1** : C1.1	Not tested			
			iDROP	C1.1 & C1.2	**Step 2** : C1.2	Not tested			
4	Increase LOD of the component to be removed in the 3D model	Modelling processing and scans tools		C1.1	**Step 1 :** Download from MinIO with "MinIO Console" **Step 2 :** Perform LOD Generation **Step 3 :** Upload to MinIO with "MinIO Console"	Not tested			
5	Load 3D model of dismantling tools to be applied	DEMplus	iDROP		Step X : C1,1 with "URDF" and "3DModel"	Partially passed	Tool's data can be downloaded, but we dont have an URDF file to test	24/10/2022	
Category 2	**Physical Information**								
1	Extend 3D model with available physical data and waste acceptance criteria		'DEMplus (WAC)		**Step 1:** Find a record in Assets.Intangibles.Documents, type 3DModel. **Step 2:** Create a record in Safety.Regulatory.Frameworks	Partially passed			
		INTERACT (physical)		C1,1		Pass		25/10/2022	
2	Extend 3D model with available waste acceptance criteria	Aquila		C1.1	**Step 1:** Find a record in class Assets.Intangibles.Documents, type 3DModel. **Step 2:** Create a record in Safety.Regulatory.Frameworks **Step 3**: Create a record in Wastes.WasteAcceptanceCriterias **Step 4:** Link WACs with the created regulatory framework **Step 5**: Link the regulatory framework with the 3D model.	Pass		25/10/2022	
3	Enable animation of the element in the 3D model (move, rotate)	DEMplus			**Step 1**: Select a certain object in a model, obtain its IfcGUID (manually). **Step 2:** Create a record in Tasks - "Move". **Step 3:** Link a created "Move" Task with a record from Assets.Tangibles.Parts, using the IfcGUID. **Step 4**: Provide "Move" Task with data like Start, Duration, TeamId, ApplicationId, ... **Step 5:** Repeat steps 2 - 4 with a second task "Rotate".	Partially passed	This task is possible to do, but in the current state of the API, it is extremely prone to errors from incorrectly submitted data. Please refer to our first "Adaptation to do" for more information.	25/10/2022	
Category 3	**Radiological Information**								
1	Extend 3D model with available radiological data	DEMplus	iDROP	C1,1	**Step 1:** Find a record in class Assets.tangibles.Parts, type Component. **Step 2:** Create a record in PlantData.NuclideVectors **Step 3:** Create a record in PlantData.RadiationSources	Partially passed	Is there a relationship between a Part and a RadiationSource? (Without this relationship, the RadiationSources will be "floating" in space, which is not the case in real life. A RadiationSource comes from an object/Part)... Also, where is the relation between RadiationSources and NuclideVectors?	25/10/2022	Creation of this relationship in the API
2	Model the dose distribution based on measurements from radiological characterization of the component and the system it is part of.	RadPIM	VRdose		**Step1:** Find all records in PlantData.RadiationSources **Step2 :** Use these data to calculate dose distribution **Step 3:** Create a record in Assets.Intangibles.CartesianMeasurementsSets	Pass	No RadiationSources existed when performing the test so one was added as part of this test	26/10/2022	
3	Identify missing radiological data at identified points using a dedicated software tool	iDROP	DEMPlus			Pass	Task need to be confirmed by a nuclear measurment expert during WP3.	04/11/2022	
Category 4	**Scenarios**								
1	Define sequence of activities (work order) with specific information for all involved disciplines	VRdose (?)			Not sure if this is a VRdose task?	Pass	Produced tasks with data with VRdose code to be able to perform tests 4.3 and 5.3. But ideally this data should come from a project planning tool.	VRdose:26/10/2022	
2	Be able to visualize and execute the sequence of activities in XR	XRWorkflow				Pass	XRWorkflow: Pass in Android app. Using Test tasks in platform.	XRWorkflow:25/10/2022	
			IDROP/INTERACT		<	Pass	IDROP/INTERACT : Pass by showing the sequence of activites letting the user to manually intercat with objects.	XRWorkflow:25/10/2022	
3	Simulate and visualize the sequence of activities using the 3D model	Vrdose			Step 1: Find all records in Tasks. Step 2: Select a task. Step 3: Get all required records the tasks links to (Workplace, Team, Actors etc.)	Pass	XRWorkflow: Pass in Unity Editor. Using Test tasks in platform	VRdose:26/10/2022	
			XRWorkflow (visualize only)			Pass	XRWorkflow: Pass in Unity Editor. Using Test tasks in platform	XRWorkflow:25/10/2022	
Category 5	**Results**								
1	Tests the upload quantities of generated classified waste and corresponding ISDC costs for dismantling	Aquila	DEMplus		Step 1: Find all records in Tasks. Step 2: Select a task. Step 3: Select all involved parts in the task in Assets.tangible.Parts Step 4: find all associated record in Wastes.packagesTypes and Safety.Regulatory.WasteCategories Step 5: find all associated record in Costs.Estimation Step 6 : repeat step 2 to 6 for several other tasks.	Pass		25/10/2022	
2	Estimate dose exposures to workers	Vrdose	Aquila		Step 1: Find all records in Tasks. Step 2: Select a task. Step 3: Get all required records the tasks links to (Workplace, Team, Actors etc.) Step 4: Create a new scenario with the basis of data from step 3. Step 5: Plan the scenario to get dose estimates for the actors. Step 6: Upload result as records to Assets.Intangibles.Calculations.DoseUptake	Pass		VRdose:26/10/2022	
Category 6	**Safety**								
1	Develop a risk register for a specific scenario or risks associated to certain objects in the BIM model	RadPIM			Step 1: Create a record in class Safety.Risks.Register Step 2: Find a record in Task Step 3: Link task with risk register Step 4: Find a record in Assets.Tangibles.Parts Step 5: Link part with risk register	Partially passed	Register was created. Currently no functionality for assigning task or parts. Assigning part might be implemented in the future.	26/10/2022	
2	Identify findings for safety (compliance with safety criteria, alternatives options)	XRWorkflow (virtual post-it notes)			1.Manually download BIM model (IFC/DAE) a.if IFC, covert to DAE 2.Author the model in Unity a.Create Unity AssetBundle b.Upload AssetBundle to Minio (at the moment manually, might come semi-automatic) c.Create "Events" and "Assets.Intangibles.Documents" (at the moment manually, might come semi-automatic) 3.XR Workflow downloads the "Events" and "Assets.Intangibles.Documents" 4.Download corresponding AssetBundle (3D model + additional data) 5.Create virtual post-it notes 6.Upload Virtual post-it notes	Pass		24/10/2022	
3	Check information related to safety + acces to documents				Acces to MiniO + DbBrowser	Not tested			