



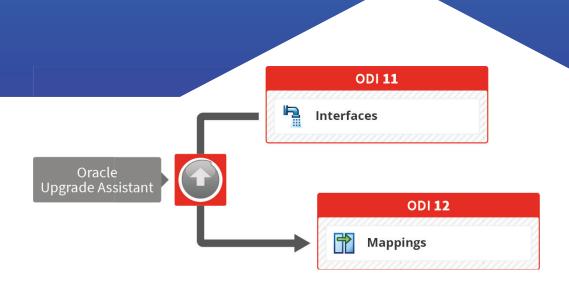
Table of contents

The Upgrade Assistant Plus (UA+)	.4
How does it work?	.4
Results	.7

Management summary

ODI 12 has introduced Mappings to replace the ODI 11 Interfaces, what makes the ODI 11 Interfaces obsolete in ODI 12. With an ODI 11 Interface you could only define one target. To create more complex data flows in ODI 11 you needed to define and use Temporary Interfaces.

With ODI 12 Mappings you can have more than one target and in one and the same Mapping you can create complex workflows, whereas in ODI 11 you needed several Interfaces.



The Oracle Upgrade Assistant

ODI 12 comes with an Upgrade Assistant (Oracle UA) that converts the ODI 11 Interfaces to ODI 12 Mappings.

The Upgrade Assistant does this in a straightforward way: the Oracle UA generates two reusable ODI 12 Mappings for each ODI 11 Temporary Interface (one is enough) and it creates a new ODI 12 Model for each ODI 11 Temporary Interface, what is not needed.

In other words, too many mappings and models are created, what results in an ODI 12 Repository containing many redundant objects.



In addition, once you start working with the upgraded version, it is not easy to clean up or work with the code generated by the Oracle UA.

To help customers to start with a clean Repository and to make sure that the ODI 11 Temporary Interfaces are upgraded correctly, we have developed and add-on for the Oracle UA, called the **Upgrade Assistant Plus (UA+)**.



The Upgrade Assistant Plus also fixes an Oracle UA bug. In the current release, ODI 11 operators are not converted correctly. Oracle UA translates the set Operators (MINUS, UNION ALL, and INTERSECT) always into a UNION.

Probably, Oracle will fix this bug in a coming release, but in the meantime our UA+ tool already solves this problem.

Conclusion

If you only use the Oracle UA, you will stuck with redundant objects (models, mappings,...) and wrong operators in ODI 12. Cleaning that up is not an easy task.

Ongoing, new development needs to deal with these flaws and as the ODI 12 Mappings that are the result of the Oracle UA upgrade are not correctly generated and have obsolete objects it is not evident to work with these.

The Upgrade Assistant Plus (AU+) tool migrates each real ODI 11 Interface to a single ODI 12 mapping with no dataset and no reusable mappings. Only the ODI 12 Models and Datastores that are really needed are generated.

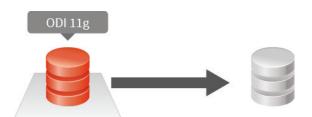
Summary: The AU+ tool ensures correct ODI 12 Mappings and Datastores without requiring any rework. Therefore, the upgrade process will take less time and will be a lot cheaper.

The Upgrade Assistant Plus (UA+)

In this data sheet, we will describe how our Upgrade Assistant Plus tool will help you to create correct ODI 12 Mappings and Models and to convert the Operators correctly.

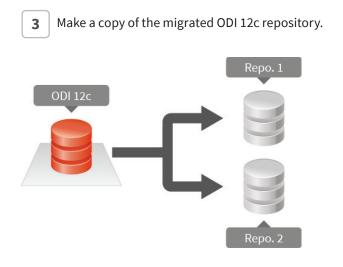
How does it work?

1 Make a backup of the ODI 11g repository, as it will be overwritten by the Oracle UA when upgrading to ODI 12.



Run the Oracle ODI 12 Upgrade Assistant: It will upgrade the ODI 11g repository to an ODI 12c equivalent repository, with mappings containing datasets and reusable mappings.

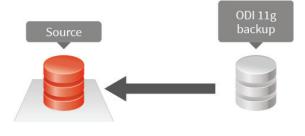
Welcome		(\mathbf{f})	
Welcome	Welcome to the Oracle Fusion Middleware 12c Upgrade Assistant.		
Selected Schemas	This wizard will help you upgrade previous versions of Oracle Fusion Middleware to version 12.2.1.0.0.		
 Available Components Prerequisites 	Before proceeding, back up all software that will be affected by the upgrade. This include Middleware home, domain homes, Oracle instances, and the databases that host your product scheme		
Upgrade Summary	Before proceeding, verify that your databases, operating system, and hardware are ce with the new version of Oracle Fusion Middleware. For more information, see the upgrade doe instructions on locating the certification and system requirements documentation.		



2

5

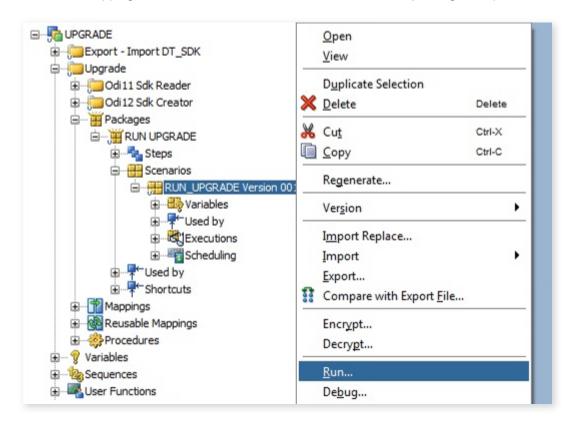
4 Restore the ODI 11 repository from the backup: at this stage, we have a source ODI 11 Repository and two identical ODI 12 repositories.



Delete the Packages and Mappings in one of the two ODI 12 Repositories.

e Edit View Search ODI Tools Window 같 편 🗊 🧠 🏍 🕨 🏾 🕸	이 방법 정도 정도 정도 정도 이 것이 같아요. 이 것이 않아요. 이 있어요. 이 것이 않아요. 이 것이 않아요. 이 있어요.	
signer × Operator Topology		
Projects	Confirmation Do you want to remove MAP_ODS_MKPF ? Yes No All Cancel	
Mappings MAP_ODS_CUSTOMER.0 MAP_ODS_CUSTOMER.1 MAP_ODS_DOT_STOCK_ES.0 MAP_ODS_DOT_STOCK_ES.1 MAP_ODS_DOT_STOCK_LATAM.0 MAP_ODS_DOT_STOCK_LATAM.1 MAP_ODS_MATERIAL_SETTORE.0 MAP_ODS_MATERIAL_SETTORE.1 MAP_ODS_MATERIAL_SETTORE.1 MAP_ODS_MATERIAL_SETTORE.2	Please wait	

6 Run the Upgrade Assistant Plus tool on the ODI 12 Repository in which you deleted the Packages and Mappings. The Mappings are created (The UA+ uses the ODI SDK API library to migrate repositories).



Export all packages from the second converted repository, using the Smart Export option.

💑 Oracle Data Integrator Studio 12c		
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>S</u> earch <u>O</u> DI <u>T</u> ools <u>W</u> indo	🖧 Smart Export	8
P : P : P : P : P : P : P : P : P : P :	Export name: C:\\SmartExport.xml	٩
Designer × Operator Topology	Export as zip file	
62	Encryption	
_ Projects	Export key:	
⊡ F a DWH	Confirm export key:	
iaiao ODS iaiii Packages	Save export key	
	Encoding options	
MAP_ODS_DOT_STOCK_ES	XML Character Set: ISO-8859-1	
	Java Character Set: ISO8859_1	
MAP_ODS_MKPF Mappings	Objects to be Exported	Please wait
⊕ ··· 🙀 Reusable Mappings ⊕ ··· 🌺 Procedures	Selected objects: Q	Calculating Dependencies
	 Add objects to be exported here 	
PRESENTATION FACT		Adding Dependencies:STCD3
Messages - Log [3:28:39 FM] Adding Dependencies:FSIL		
[3:28:39 PM] Adding Dependencies:PSTL		Cancel
[3:28:39 PM] Adding Dependencies:REGI		

7

8 Import all the exported Packages to the first repository using the Smart Import option.

🚜 Oracle Data Integrator Studio 12c					
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>S</u> earch <u>O</u> DI <u>T</u> ools <u>W</u> indow Tea <u>m</u> <u>R</u> un <u>H</u> elp					
🔮 🗟 🗊 🦄 🕨 o 🎄 🖓					
	🔏 Smart Import - Step 1 of	f3			
Designer × Operator Topology					
62	File Selection				
_ Projects					
⊡ F o DWH	File Selection	This wizard will guide you through the process of importing objects into Oracle Data Integrator. select a Response File to preset all fields.			
⊡	Import Actions	File Selection: C:\SmartExport.xml			
······ 🚻 Packages 🏫 Mappings	Summary				
	<u>Junnary</u>	Response file:			
PRESENTATION_DIM					
PRESENTATION_FACT		Please wait			
⊞		Matching Import Objects			
i∃ 🦞 Variables i∃I‰ Seguences					
Hard Sequences		Checking child object matches for Datastore ODS_MKPF			
Smart Import - Log		Checking child object matches for Datastore ODS_MKPP			
[3:41:18 PM] Checking child obj					
[3:41:18 PM] Checking child obj		Cancel			
[3:41:18 PM] Checking child obj					
[3:41:18 PM] Checking child obj		I and the second s			

Results



- Less Mappings
- No reusable mappings
- Clean Mappings: with a well-defined and clearly visible workflow for each ODI 12 Mapping.
- Nested Mappings: also correctly defined and made visible
- Mapping logic: the logic is grouped in one single place, readable and easily reworkable.

Datastores

• If a Temporary Datastore exists, only these that are really used are taken over. They will be grouped in a model per associated ODI 12 logical schema.

Conclusion

The upgrade process will run faster and at lower cost. This because the UA+ will automatically do the required rework to have correct ODI 12 Mappings and Datastores.



info@kobee.io www.kobee.io



© Copyright 2023 IKAN Development N.V.

The IKAN Development and Kobee logos and names and all other IKAN product or service names are trademarks of IKAN Development N.V. All other trademarks are property of their respective owners. No part of this document may be reproduced or transmitted in any form or by any means, electronically or mechanically, for any purpose, without the express written permission of IKAN Development N.V.