ORACLE

3

Integrations Life Cycle & Packages

Objectives

After completing this lesson, you should be able to:

- Import prebuilt Integrations
- Describe OIC Integration packaging
- Import and export Integrations and Packages
- Create versioned OIC Integrations
- Describe OIC Integration versioning features

Agenda

- Prebuilt Integrations
- Packaging Integrations
- Integrations Life Cycle

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Prebuilt Integrations

Prebuilt integrations help users accelerate their integration projects. The types of prebuilt integrations are:

Oracle-Created

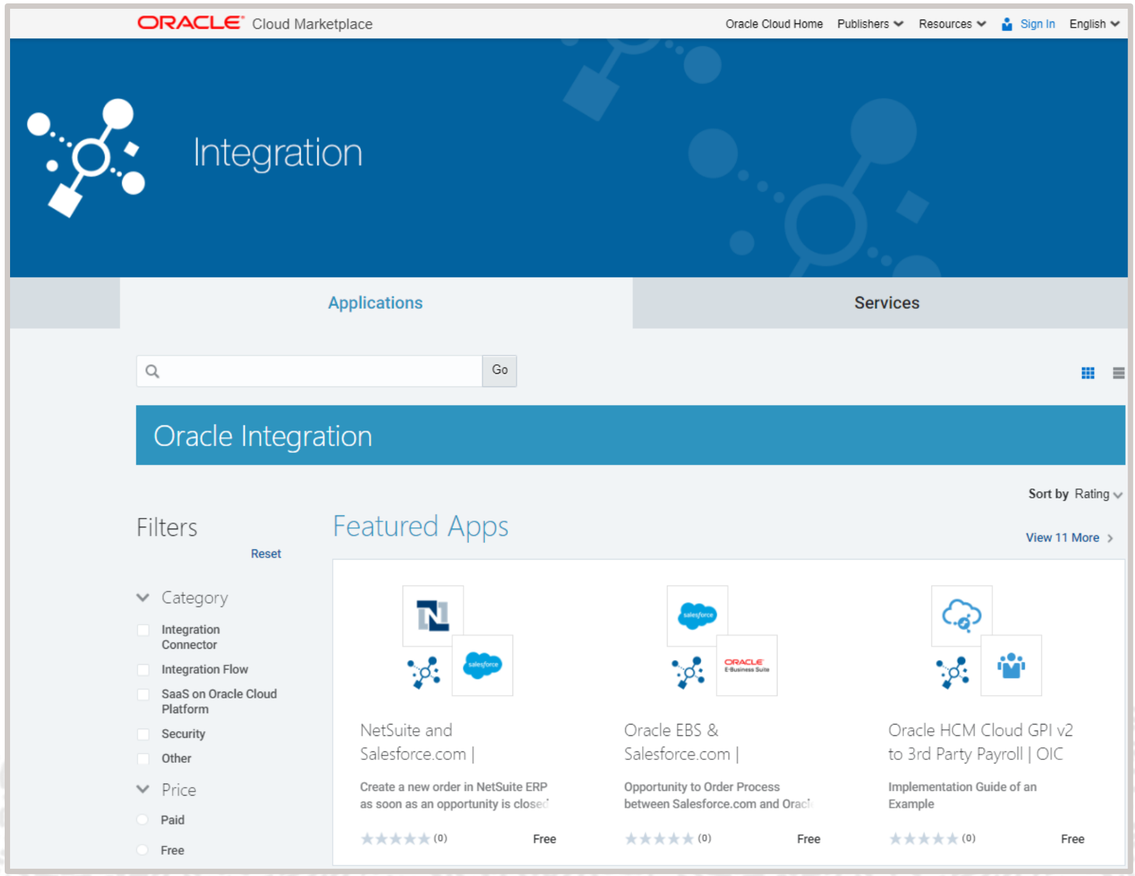
Oracle-Created Integrations

Third-Party or User-Created

Integrations that you or other users created

Oracle-Created Prebuilt Integrations

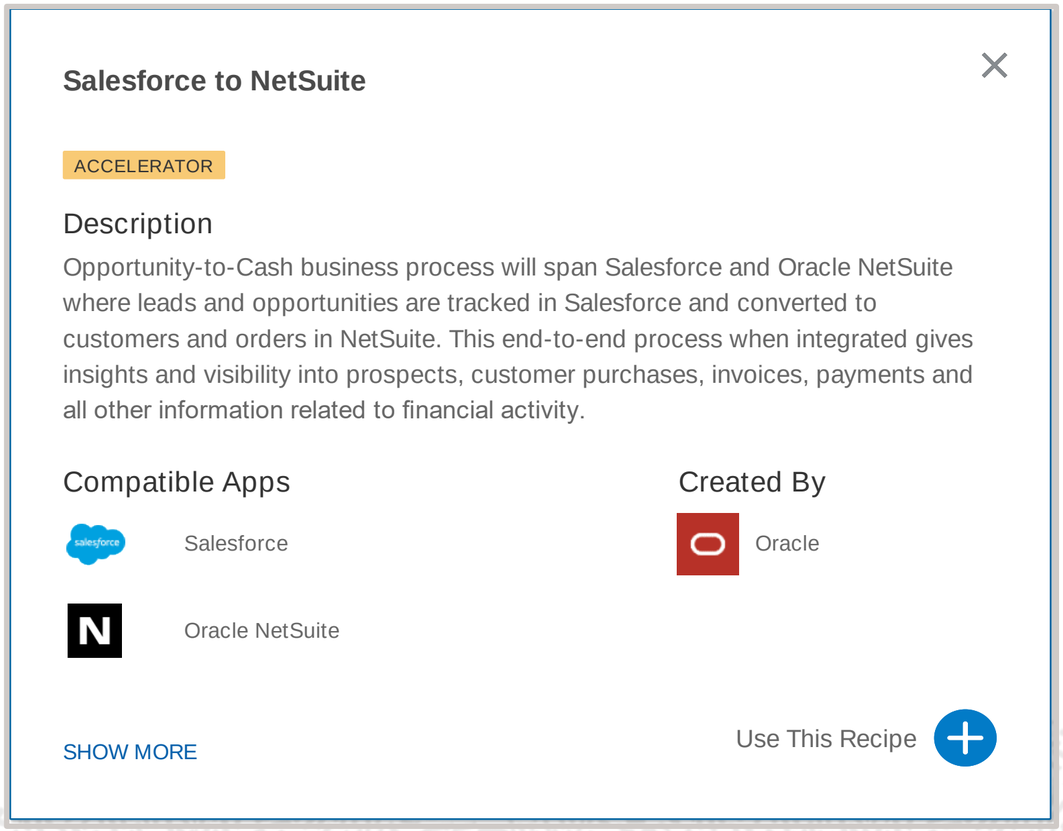
- Business Accelerators
  - Prebuilt business solutions
  - Configurable and fully Oracle-managed
- Technical Accelerators
  - Technical patterns delivered out of the box
  - Configurable
- Recipes
  - Sample integrations as a quick start or example
  - Several are published in the Oracle Marketplace



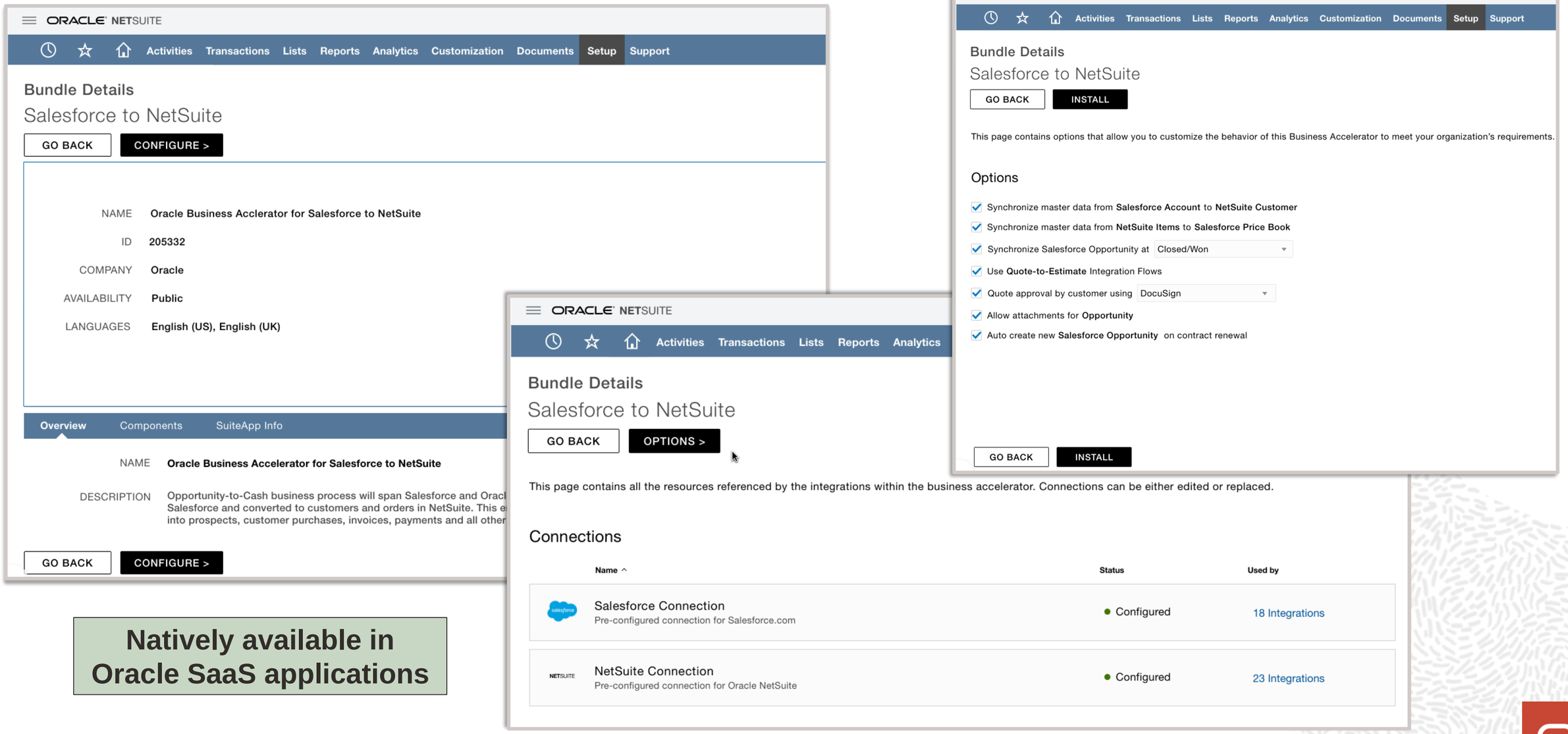
Business Accelerators

Key Capabilities:

- Pre-packaged integration solutions for key business-use cases
- Ready to use
- Configure and activate
- Supports many popular Oracle and third-party applications
- Oracle-managed



Business Accelerator Example



Natively available in Oracle SaaS applications

Integration Recipes in the Oracle Marketplace

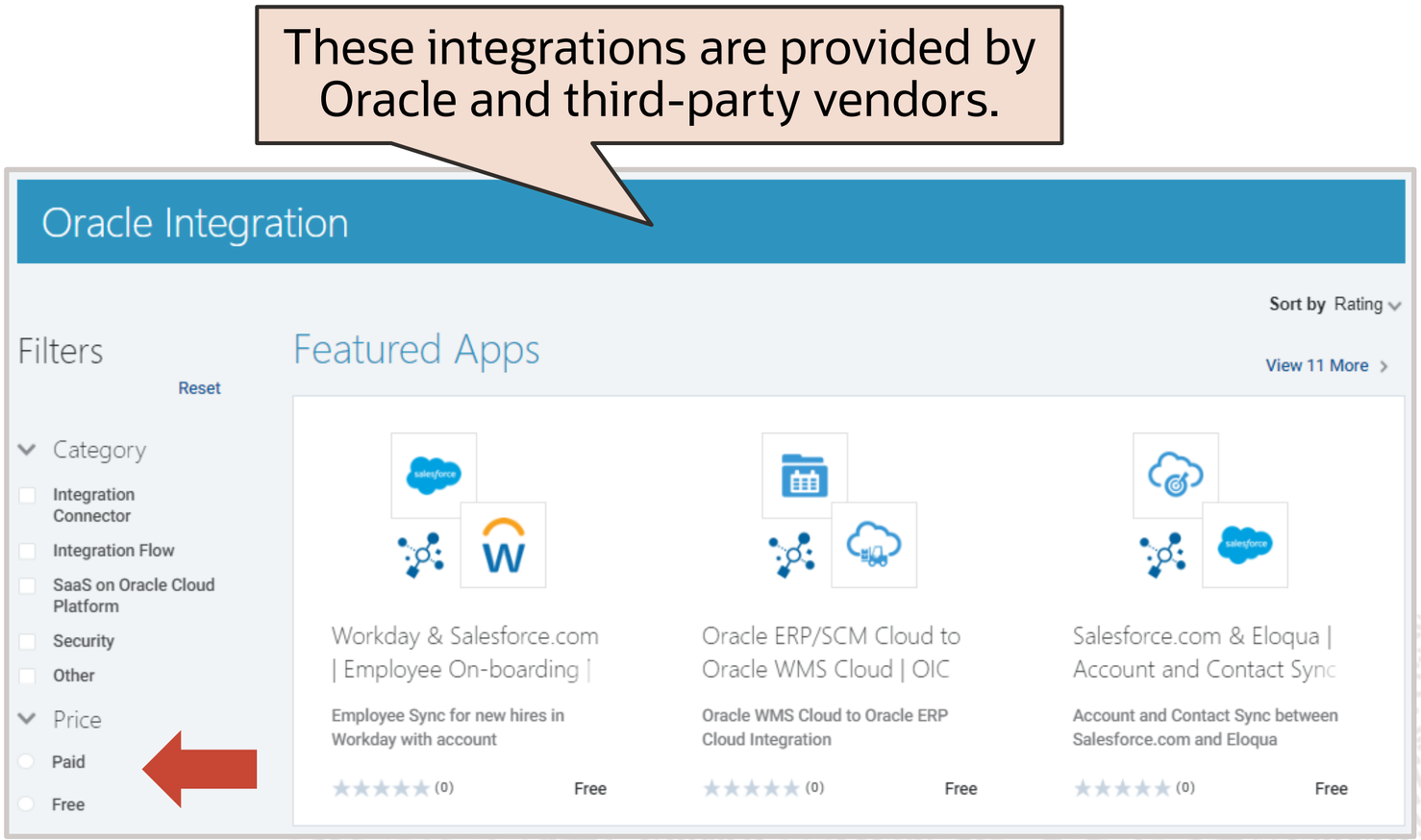
Leverage application adapters and best practices to accelerate delivery

Jointly developed with Oracle and third-party SaaS engineering

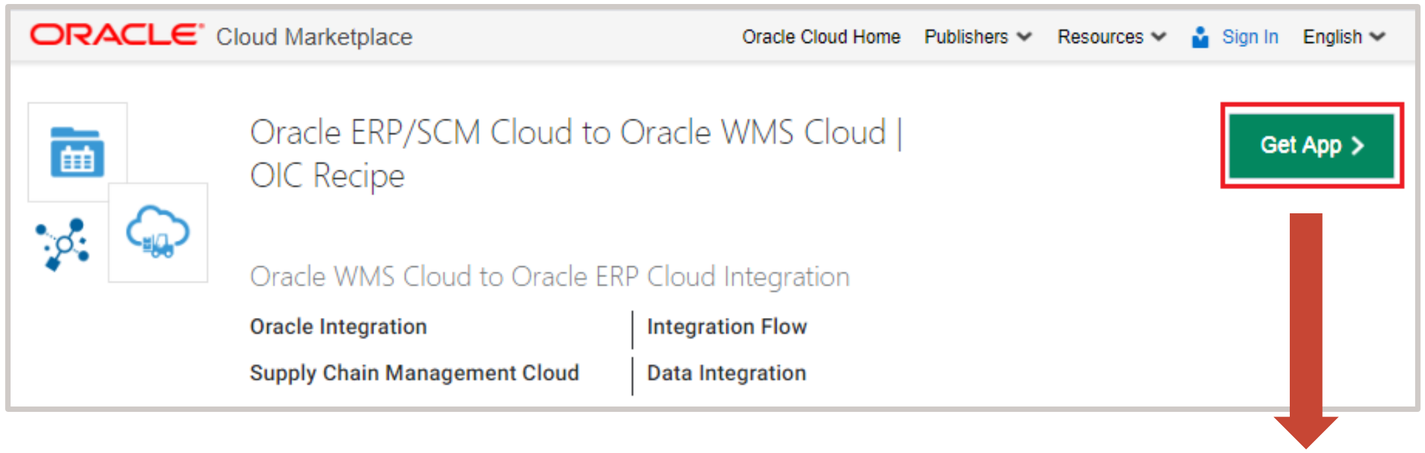
Upgrades handled through pre-release testing and validation

Deliver faster with proven best practices and latest application features

Lower cost of compliance by adding enterprise IT controls to recipes for reuse



Downloading a Prebuilt Integration Recipe



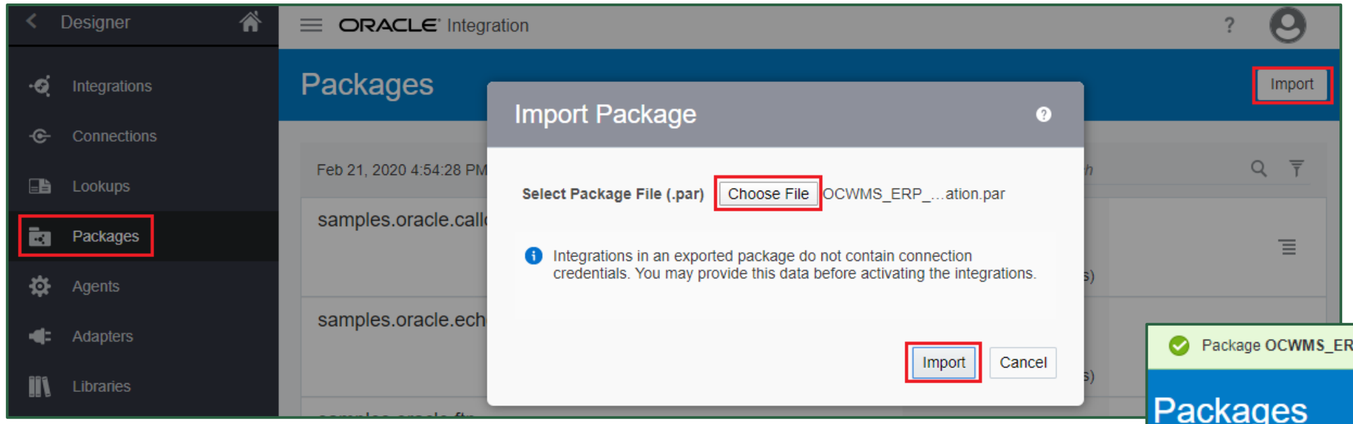
Download a single integration (.iar) archive or a package (.par) archive

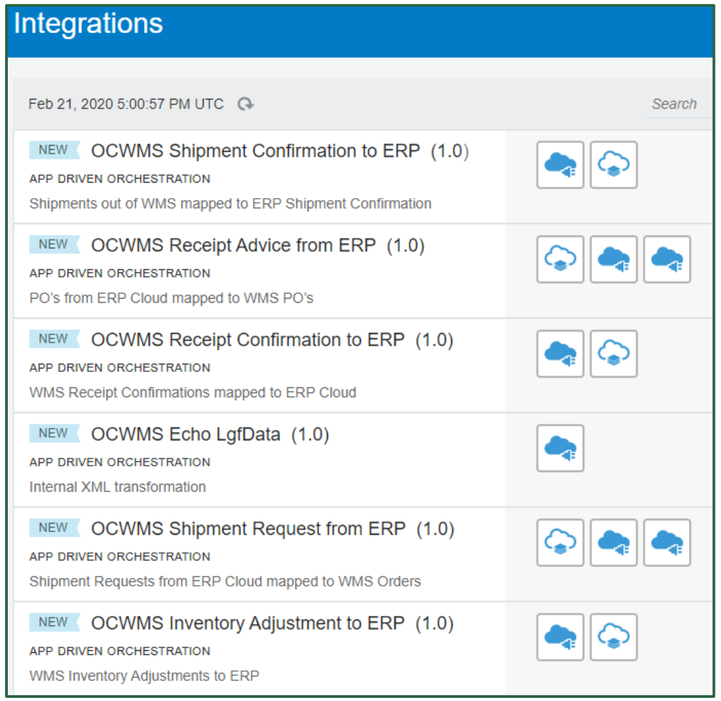
Sample Flows

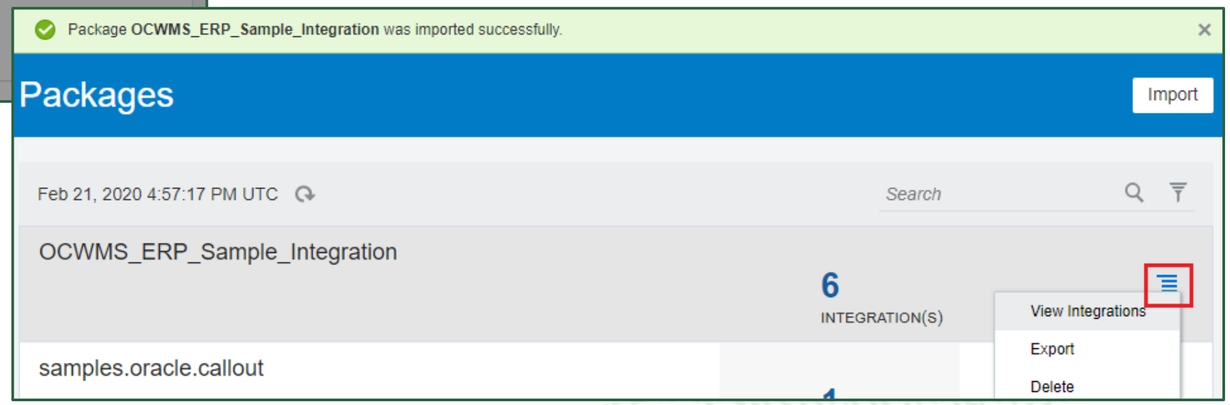
The attached sample flows can be downloaded and imported into ICS. From within ICS, import the .iar file and modify the connection information as desired. Please refer to ICS documentation for more information on importing integrations. The **OCWMS_ERP_Sample_integration** is a .par format file that combines all of the individual integrations in the table below into one package. You can import the .par file to get all of the integrations in one shot instead of importing each integration listed below. The individual integrations use the .iar format.

Integration	Source	Destination	Function
OCWMS_INVENTORY_ADJUSTMENT	WMS	Inventory Management Cloud	WMS Inventory Adjustments to Fusion Inventory.
OCWMS_RECEIPT_ADVICE	Inventory Management Cloud	WMS	This integration takes purchase order Receipt Advices in Oracle Inventory Management Cloud and maps them to Oracle WMS Cloud Purchase Orders.
OCWMS_RECEIPT_CONFIRMATION	WMS	Inventory Management Cloud	WMS Receipt Confirmations mapped to Fusion receiving.
OCWMS_SHIPMENT_REQUEST	Inventory Management Cloud	WMS	Shipment Requests from Fusion Shipping mapped to WMS Orders.
OCWMS_SHIPMENT_CONFIRMATION	WMS	Inventory Management Cloud	Shipments out of WMS mapped to Fusion Shipping Shipment Confirmation.
OCWMS_ECHO_LGFDATA	-	-	This is used for internal XML transformation. No user configuration is necessary.

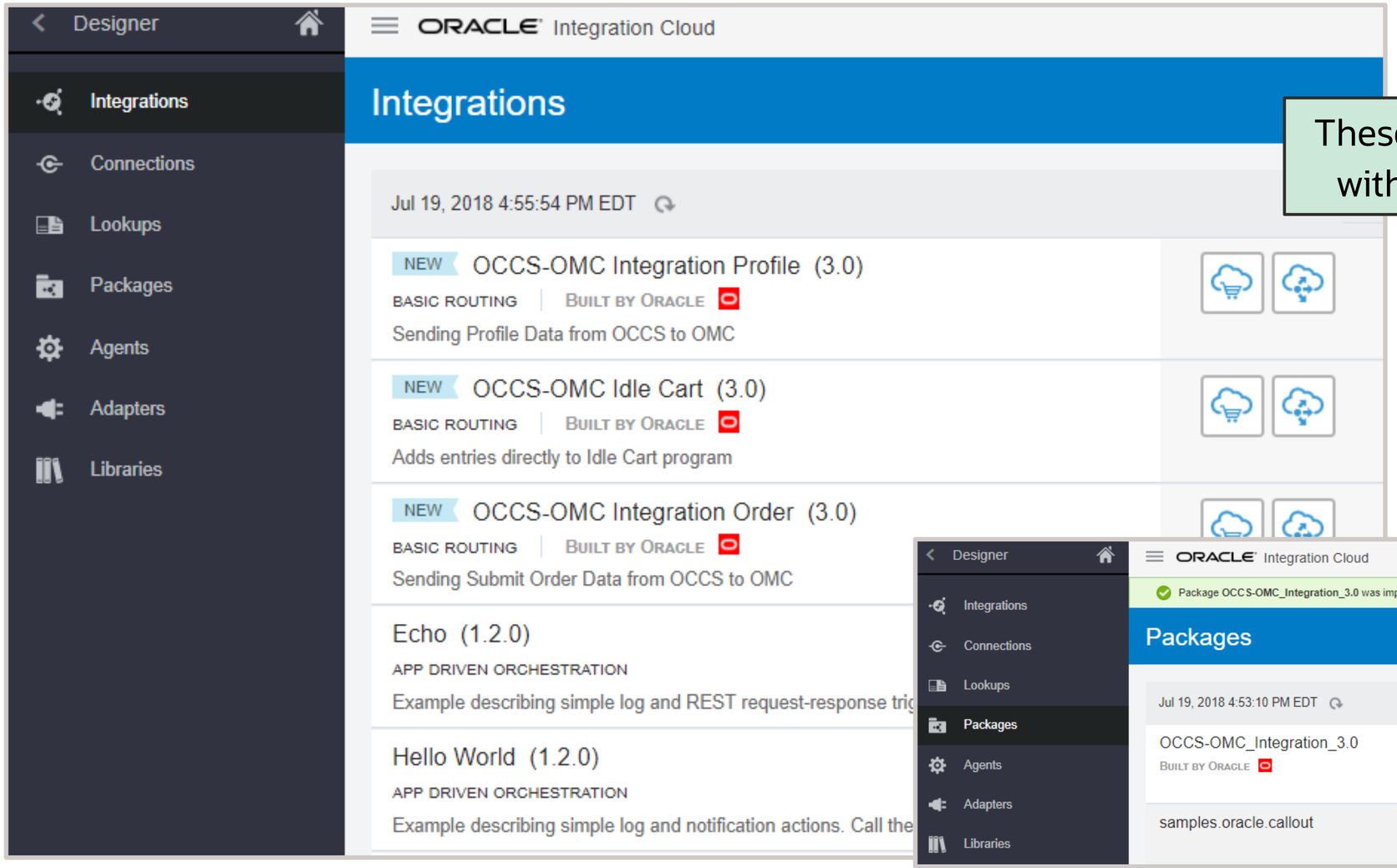
Importing Prebuilt Integrations



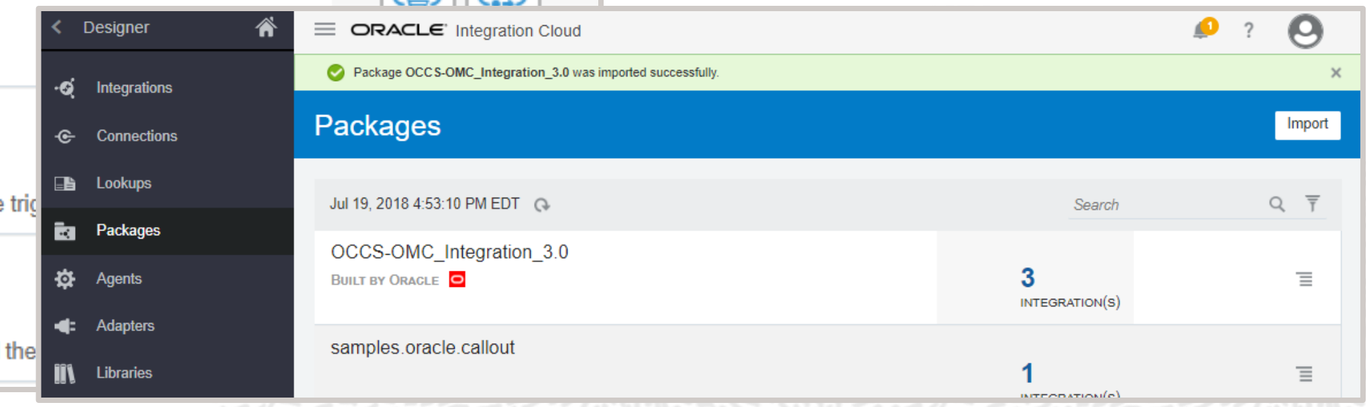




Oracle-Created Integration Solutions



These integrations are designated with a **BUILT BY ORACLE** label.



Customizing Prebuilt Integrations

Import to Development

Customize

Export from Development

Import to Test

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Agenda

- Prebuilt Integrations
- Packaging Integrations
- Integrations Life Cycle

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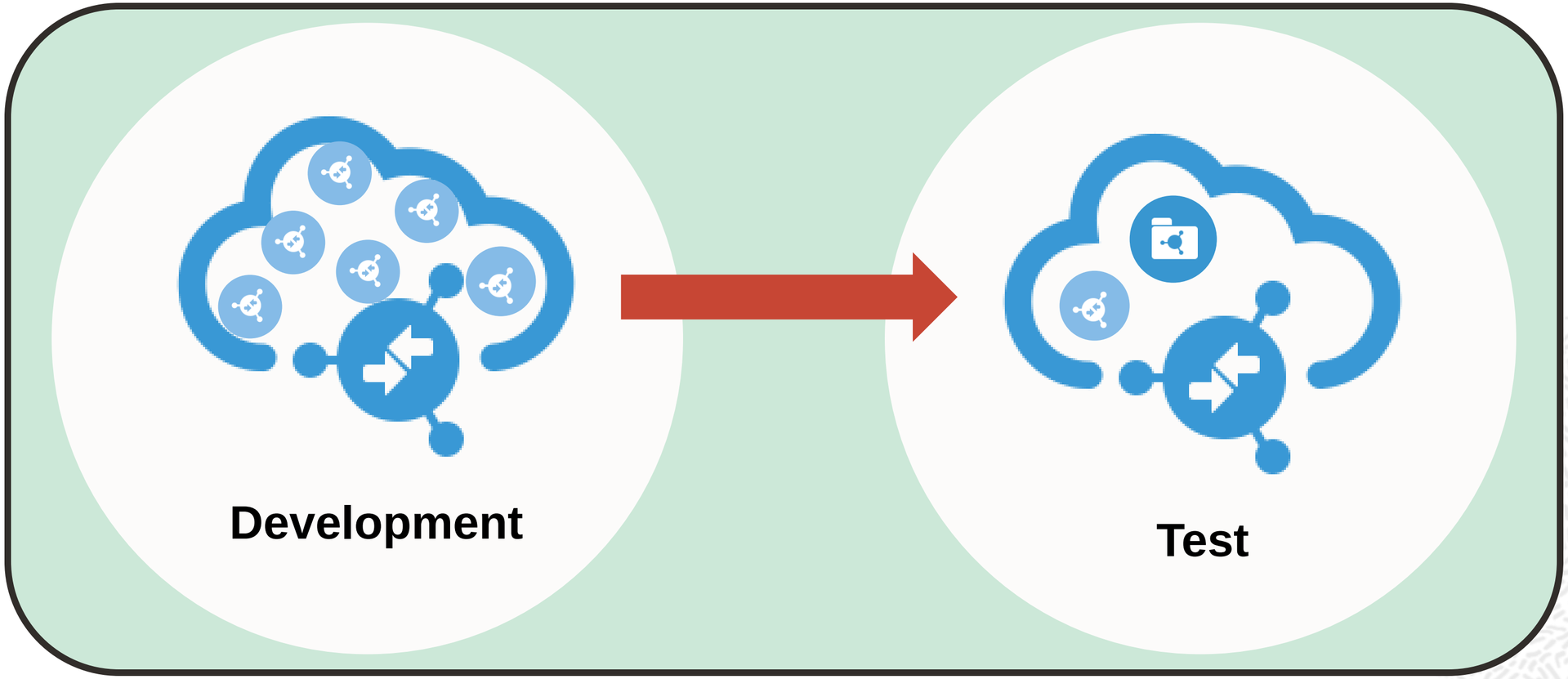
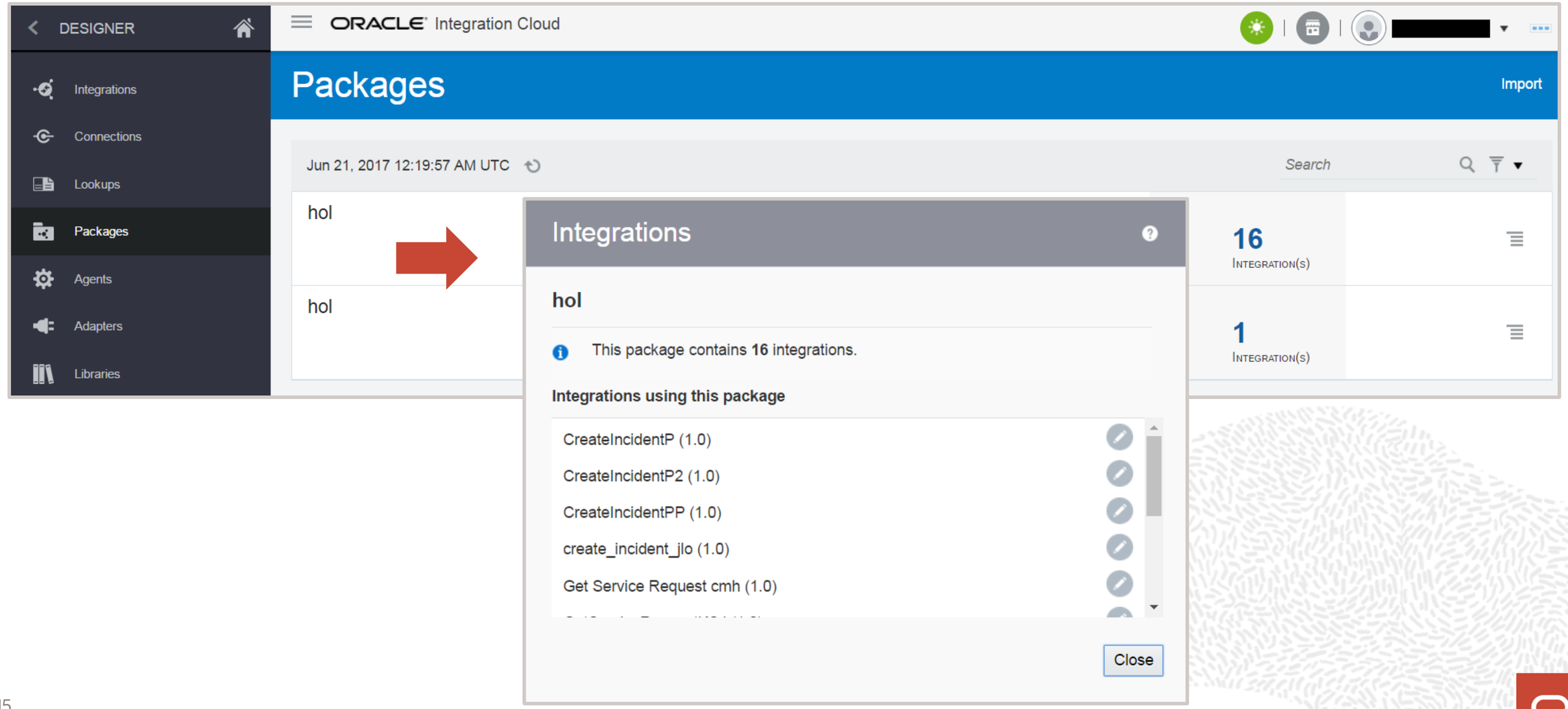
OIC Integration Packages

You can export and import individual integrations. However, the best practice is to organize similar integrations into packages, which can then be exported and imported from one environment to another.



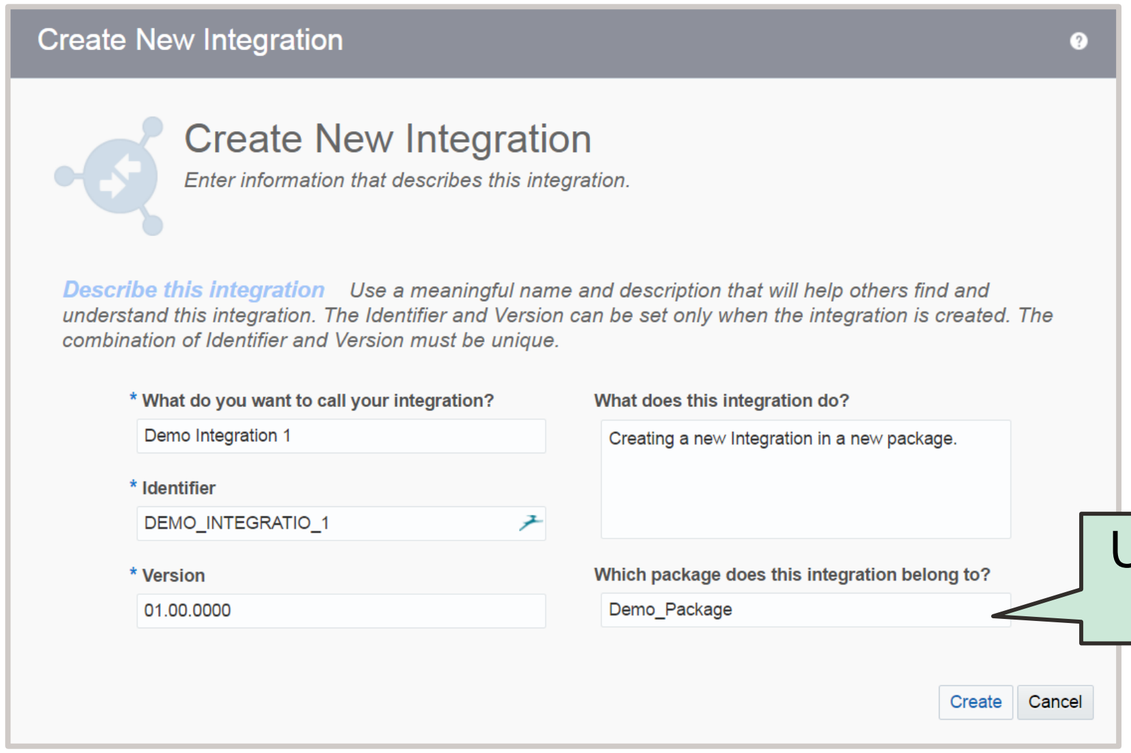
Viewing Packages



Creating Packages

Well, you actually can't create an empty package. ☺

However, when you create an integration, you can also create a new package or select an existing package in which to include the integration.



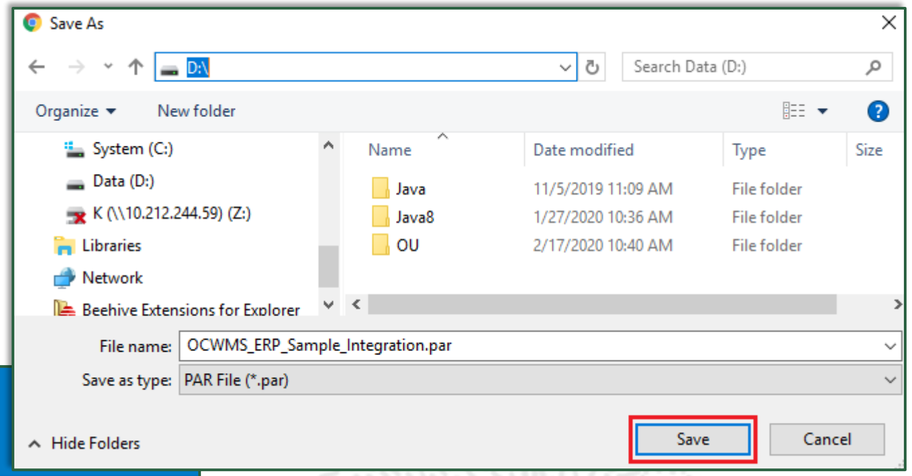
Packages have no "scope."

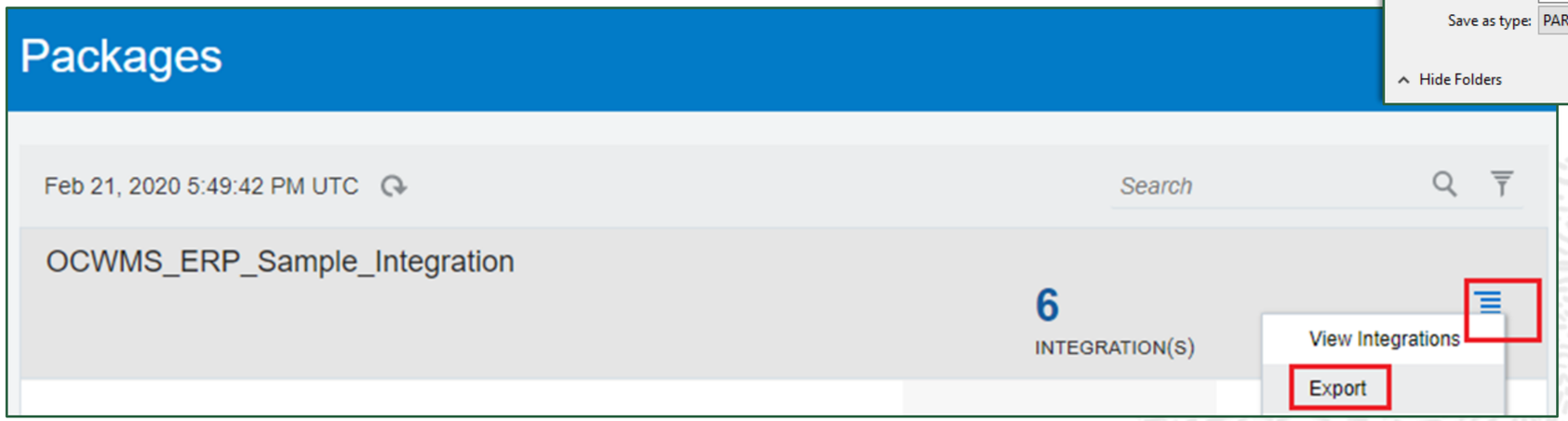
- Integration identifiers must still be unique.
- There are no administrative or security boundaries.
- All integrations are still visible to one another regardless of package designation.

Use an existing package or create a new one.

Exporting Packages

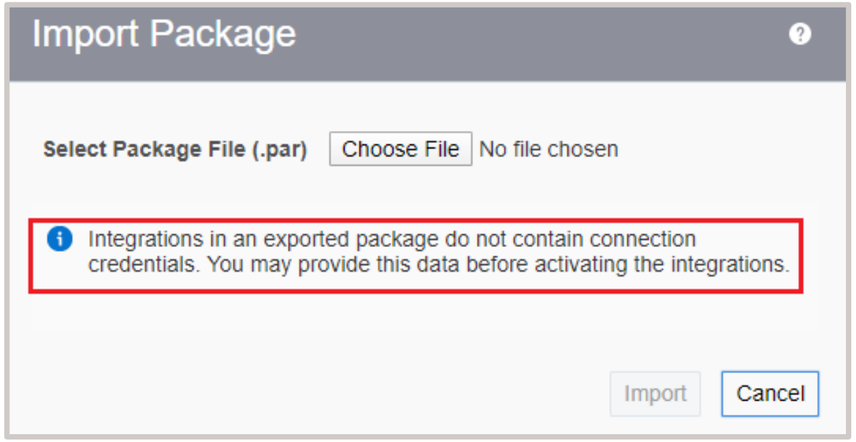
- You can export a package from OIC, which contains all integrations included in that package.
- You will be prompted to save the package (.par) archive of integrations to a file system location.
  - The individual integrations inside the PAR are included as integration (.iar) archives





Additional Considerations

- **Exported integrations** (*or a package of integrations*) include all of their dependent connection resources.
  - Connection resources are defined by an adapter type and a unique identifier.
  - URL information and credentials are **NOT** exported.
- **Imported integrations** will **NOT** include the import of their dependent connection resources if they already exist in the target OIC environment.
  - If all connection resources already exist, the integration can be immediately activated.
  - Otherwise, when a connection resource is imported, the appropriate connection properties and credentials must be configured prior to activating the integration.



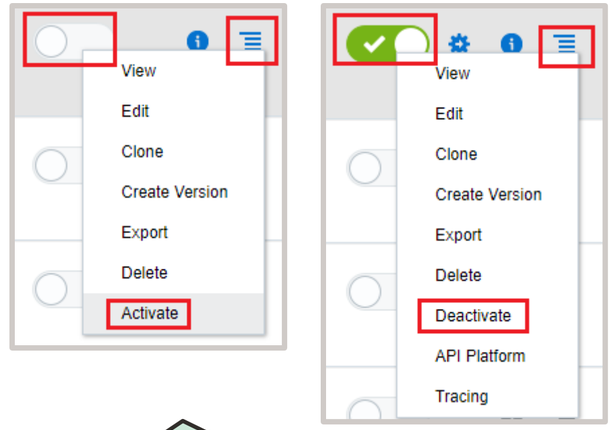
Alternatively, imported integrations can be easily reconfigured to use a different existing connection resource via the OIC REST API.

Agenda

- Prebuilt Integrations
- Packaging Integrations
- Integrations Life Cycle

Life Cycle Operations for Integrations

- **View:** Opens the integration design canvas in view-only mode
- **Edit:** Opens the integration design canvas in edit mode
  - Only deactivated integrations can be edited and modified.
- **Clone:** Creates a new integration that can be edited separately
- **Create Version:** Same as clone but retains the same identifier
  - Requires you to specify a new version number
- **Export:** Downloads an integration (.iar) archive file
- **Delete:** Removes the integration from this OIC environment
  - Only deactivated integrations can be deleted.



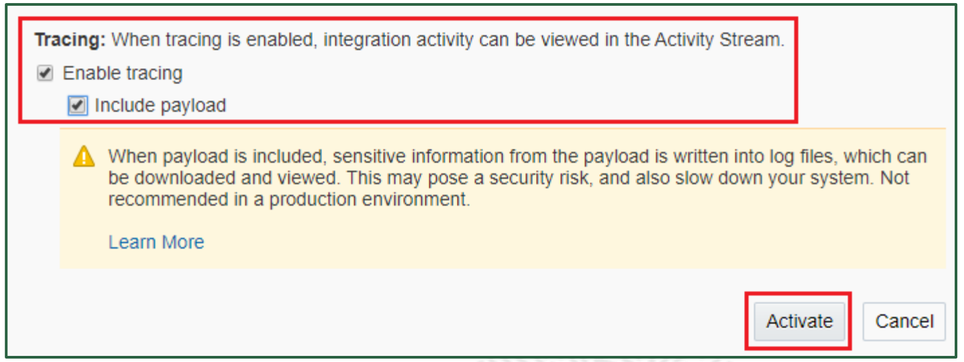
Activate or deactivate with the toggle switch or from the Action menu

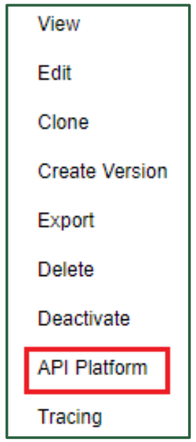
Activation Options

When activating, you have the option to enable integration instance tracing with or without the complete payload for all flow activities.

- Alternatively, you can enable tracing later after activation via the Action menu.

The current status for activated integrations is indicated just below the integration's toggle switch.

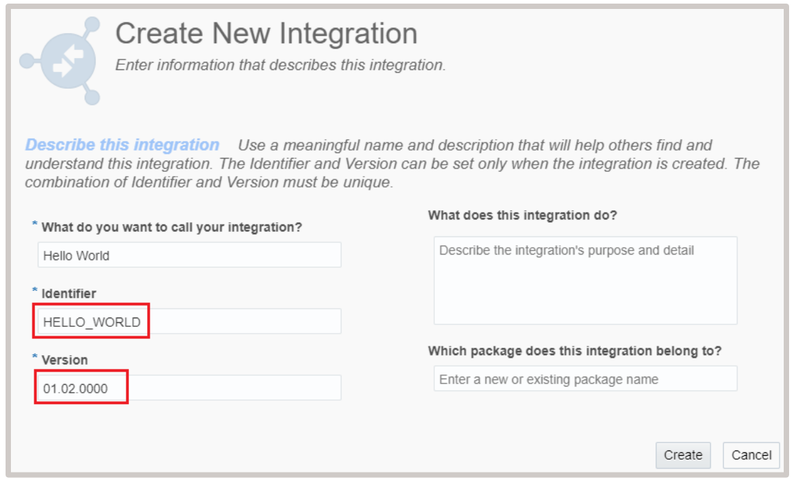


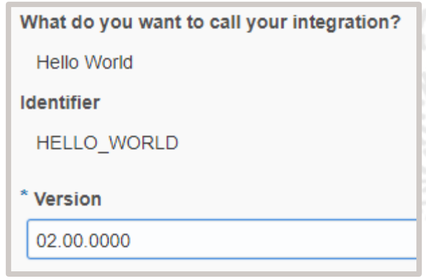


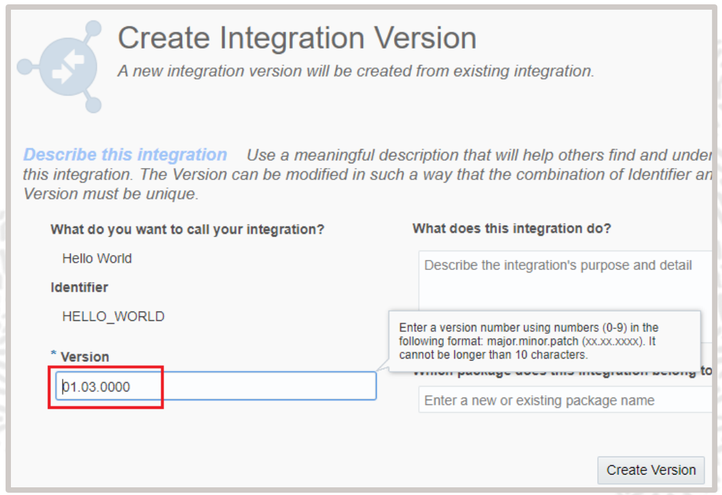
If you have an API Platform Cloud Service account, you can choose to publish endpoint information for integrations that are configured with a REST interface trigger connection.

Integration Versioning

- Integrations are uniquely identified by a unique identifier and a version number.
- The version number format is `xx.yy.zzzz`:
  - `xx` is the major version.
  - `yy.zzzz` is the minor version.
- You can create additional versions of the integration (*same Identifier*) defining a new major OR minor version number.

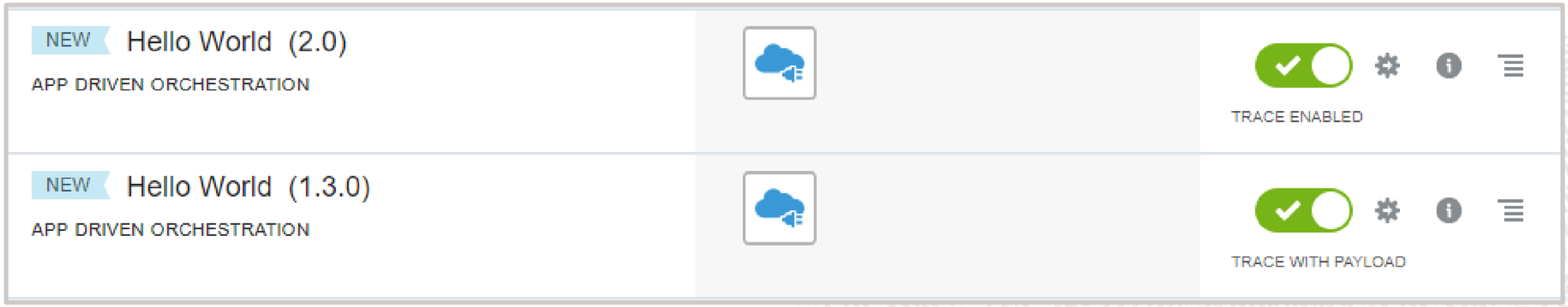






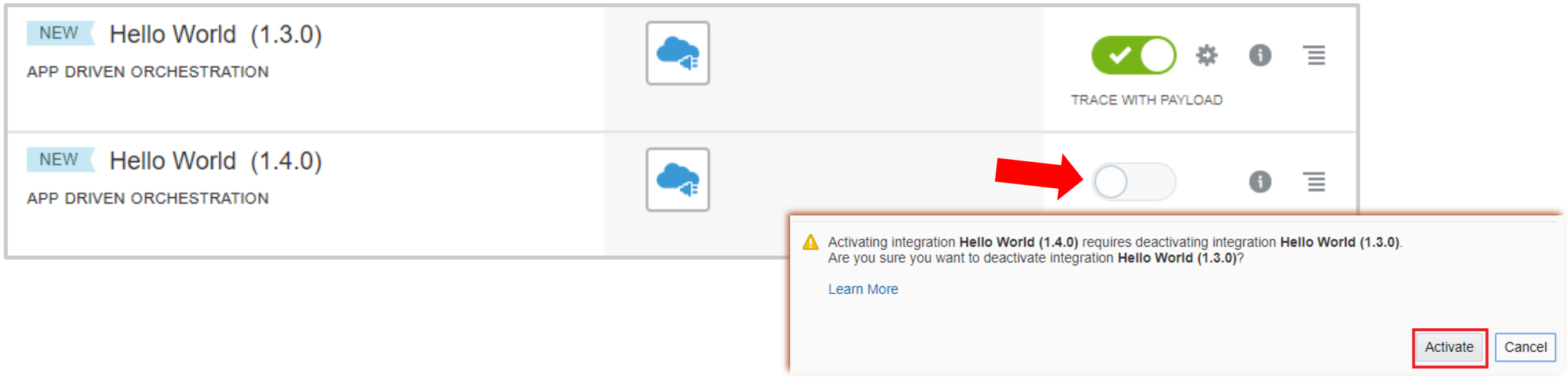
Activation of Integration Versions

- Integrations with the same major version number but a different minor version number follow this rule:
  - Only one integration can be active.
  - Activating another integration will automatically deactivate the current active integration.
- Integrations with different major versions can be active at the same time.

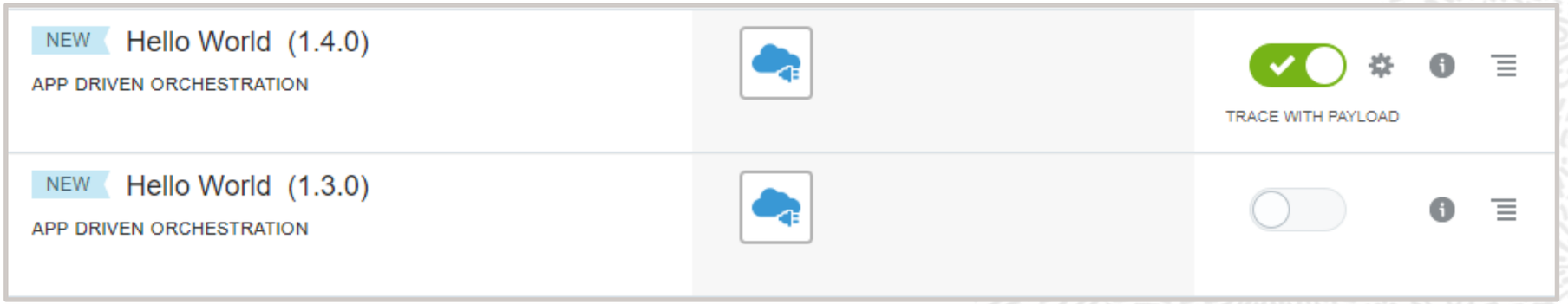


Activation of Integration Versions: Example

Before Activation



After Activation



Summary

In this lesson, you should have learned how to:

- Import prebuilt Integrations
- Describe OIC Integration packaging
- Import and export Integrations and Packages
- Create versioned OIC Integrations
- Describe OIC Integration versioning features

Practice 3-1: Cloning, Activating, and Testing an Integration

This practice includes:

- PART 1 – Clone an Existing Integration Flow
- PART 2 – Inspect the Integration Flow Configuration Logic
- PART 3 – Activate and Test Your New Integration