

Continuous Delivery of SAP Applications

Advanced Transport Management | Orchestrated CI/CD Pipelines | Test Automation

ReleaseOwl is a Native DevOps platform designed to accomplish Continuous Delivery of SAP applications built on-premise as well as on Cloud. It is a product suite that has a rich set of features to achieve seamless Continuous Integration and well-orchestrated Release Management for SAP applications.

Is SAP Transport Management Overwhelming for Your Team?

SAP Transport Management can be overwhelming for teams running complex SAP implementations with parallel landscapes using SolMan (ChaRM) as well as for teams running the SAP Change and Release Management with manual import of transports.

Transport Management Challenges for SAP Implementations with SolMan (ChaRM)

- ▶ Maintenance / Upgrade of SolMan and ChaRM is expensive with infrastructure cost and needs dedicated experts in addition to IT teams.
- ▶ Adding new systems to SAP landscape is complex.
- ▶ Retrofitting changes across parallel landscapes involves a lot of coordination due to conflicts.
- ▶ Not designed for scalable CI/CD pipelines.
- ▶ No support for backout or rollback of transports.

Seamless Transport Management with ReleaseOwl

ReleaseOwl, a SaaS DevOps platform for SAP, has a well-designed Transport Management module with the following rich capabilities:

- ▶ Automated Impact Analysis, validation, and import of transports
- ▶ Transitive dependency checks, critical object management, downgrade protection, and automated sequencing based on import queues
- ▶ Merge and Retrofit both workbench and configuration transports across parallel landscapes along with conflict resolution
- ▶ ATC Checks, Unit Testing, and Code Coverage for ABAP
- ▶ User Story Tagging for transports with Jira / Azure DevOps / ServiceNow
- ▶ Backup and Rollback of transports
- ▶ Create ServiceNow tickets and trigger production deployments after CAB approvals in ServiceNow.

46040 Center Oak Plaza Suite #125, Sterling, VA 20166

W: www.releaseowl.com | E: sales@releaseowl.com | T: +1 757 919 1018

Transport Management

Create New Transport Request

☒ Current Project Transports

| <input type="checkbox"/> | ID | Description | Type | Status | User Story | Owner | Created |
|--------------------------|------------|-----------------------------------|------|--------|------------|--------|---------|
| <input type="checkbox"/> | DE2K900238 | ArcelorMittal Impl Workbench demo | K | R | ROI-1 | BASIS1 | 07/12/2 |
| <input type="checkbox"/> | DE2K900201 | Mitie Impl Demo | K | R | | BASIS1 | 07/06/2 |
| <input type="checkbox"/> | DE2K900197 | Merc feature Demo in Impl | K | R | | BASIS1 | 07/03/2 |
| <input type="checkbox"/> | DE2K900182 | Customizing Implementation Demo | W | R | ROI-2 | BASIS1 | 06/24/2 |

Transport Impact Analysis

Transport validation is a powerful early warning feature that can help admins / developers ensure that they produce high quality code / configuration changes at source. Once a transport is validated, a validation report is generated with the following quality and compliance reports:

Validation Report - DE1K902638
Refresh

1
Transport Requests

100
Tests Success %

75
Code Coverage %

Validation Status: Success
Last Validated: 10/11/2021 18:35

TR Report | Test Execution Report | Code Coverage | ATC Report

Downgrade Protection Check

Status: Passed

Cross Reference Check(Dependencies)

Status: Passed

Cross Release Check(Package level checks)

Status: Passed

Critical Object Check

Status: Passed

Total critical objects: 0

ABAP Test Class Execution and Test Results

Validation Report - DE1K902638

1
Transport Requests

100
Tests Success %

75
Code Coverage %

TR Report | Test Execution Report | Code Coverage | ATC Report

Total Tests: 1 Success: 1 Failed: 0

| Test Name | Object Type | URI | Status |
|-------------------|-------------|--|---------|
| TESTDISCOUNTPRICE | CLASOM | /sap/bc/ad/oo/classes/zro_discount_test#testclass=ZRO_DISCOUNT_TEST;testmethod=TESTDISCOUNTPRICE | Success |

Static Code Analysis of ABAP Code with ABAP Test Cockpit (ATC) Integration

TR Report | Test Execution Report | Code Coverage | ATC Report

Errors: 1 Warnings: 1 Infos: 1

| Findings | Object Name | Line No... | Object ... | Check | Owner | Message |
|----------|-------------------|------------|------------|--|--------|---------------------------------|
| Errors | | | | | | |
| | ZRO_DISCOUNT_CALC | 12 (GET... | CLAS | Search problematic SELECT * stateme... | BASIS1 | Existence check. No fields used |
| Warnings | | | | | | |
| Infos | | | | | | |

Easy Transport Retrofit & Conflict Resolution in Browser

Retrofit in SAP synchronizes your urgent changes and normal changes. It can be implemented after your urgent changes have been transported to production system and you want to maintain a version of your object.

Conflict Resolution

During Retrofit, a conflict report is generated that displays the conflict that has arisen. You can make edits in the source or destination in this page. Here, for e.g., you can make a change in the destination. You can view the contents of this particular object in source and destination.

/sap/bc/adt/oo/classes/ZRO_DISCOUNT_CALC

Source
Environment: DE1100

```
1 CLASS zro_discount_calc DEFINITION
2 PUBLIC
3 FINAL
4 CREATE PUBLIC .
5
6 PUBLIC SECTION.
7     METHOD getDiscountedPrice IMPORTING price TYPE i
8         WARRANTY TYPE s_warranty
9     RETURNING VALUE(result) TYPE i.
10 PROTECTED SECTION.
11 PRIVATE SECTION.
12 ENDMETHOD.
13
14
15
16 CLASS zro_discount_calc IMPLEMENTATION.
17     METHOD getDiscountedPrice.
18         "Change from Maintenance landscape DE1 with user story OCT 11, 2021
19
20         *SAP Screenshot 2022
21         data:lv_price_ref = value s_warranty s.
22         if (lv_price_ref >= 0 ).
23             result = ( price * 10 ) / 100.
24         else.
25             result = ( price * 10 ) / 100.
26         endif.
27
28         DATA: l_reused TYPE int2.
29         SELECT * INTO l_reused FROM user2 UP TO 2 ROWS.
30         ENDSELECT.
31     ENDMETHOD.
32 ENDMETHOD.
```

Destination
Environment: DE2500

```
1 CLASS zro_discount_calc DEFINITION
2 PUBLIC
3 FINAL
4 CREATE PUBLIC .
5
6 PUBLIC SECTION.
7     METHOD getDiscountedPrice
8         WARRANTY TYPE s_warranty TO
9     RETURNING VALUE(result) TYPE i.
10 PROTECTED SECTION.
11 PRIVATE SECTION.
12 ENDMETHOD.
13
14
15
16 CLASS zro_discount_calc IMPLEMENTATION.
17     METHOD getDiscountedPrice.
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20         data:lv_price_ref = value s_warranty s.
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24             result = ( price * 10 ) / 100.
25         endif.
26
27         DATA: l_reused TYPE int2.
28         SELECT * INTO l_reused FROM user2 UP TO 2 ROWS.
29         ENDSELECT.
30     ENDMETHOD.
31 ENDMETHOD.
```

Orchestrated Release Pipelines

You can import a group of transports by creating a "Release Package" in ReleaseOwl and deploy them using "Release Pipelines."

With Release Pipelines, you can setup a custom deployment workflow inline with your SDLC practice with the following actions available:

ReleaseOwl

Tasks

- Pre Deployment Approval
- QA Deployment
- Post Deployment Actions
- Update User Story Status
- Functional Regression Tests
- Change Request Process
- Prod Pre Approval
- Prod Deployment
- Post Deployment Actions

Task Details

Domain Controller: Implementation/DOC

Target System: DE1100

User Story Status (after deployment): In Progress

ReleaseOwl CI Pipelines + HCL OneTest Automation = A Powerful Continuous Delivery Solution for SAP Applications

ReleaseOwl is the first Enterprise-grade Native DevOps Platform designed for SAP applications. Be it supporting your current investment on SAP on-premise or enabling you to migrate to SAP Cloud with confidence or accelerating your application development on SAP Cloud, ReleaseOwl serves as ONE platform for Automated Packaging, Deployment, Testing, and Compliance of SAP Applications built on ECC, S/4 HANA, SAP CPI and SAP BTP.

HCL OneTest UI is a very robust and scalable test automation framework to automate and validate business process flows ensuring high-quality applications.

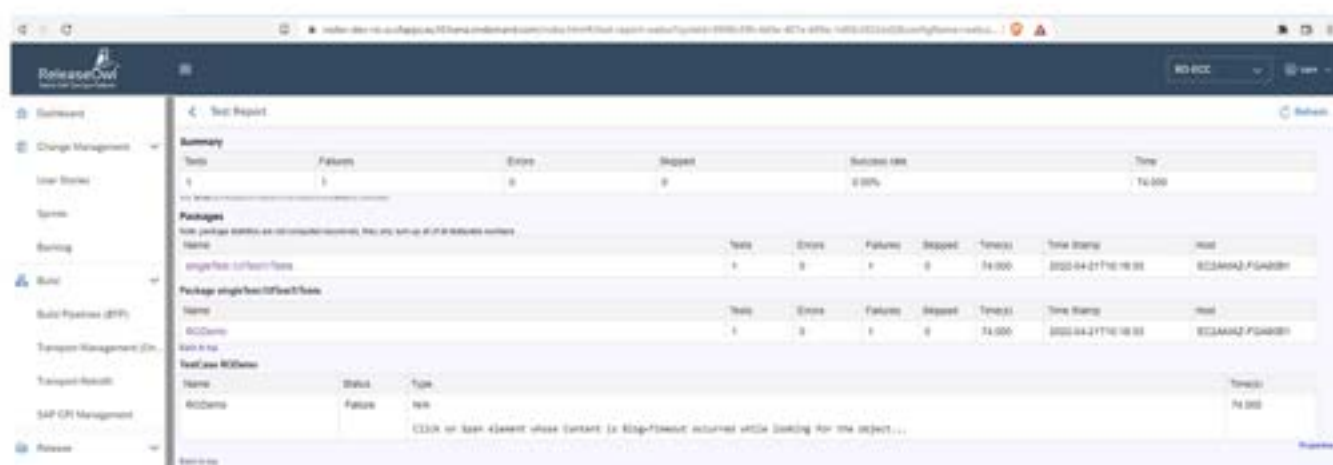
ReleaseOwl + HCL OneTest UI Integration

HCL OneTest UI test suites (both functional tests and WebUI tests) can be configured in ReleaseOwl.

- ▶ The test suites can be run in independent cycles on any SAP environment.
- ▶ The test suites can be run as part of the release pipelines after a successful deployment to achieve Continuous Delivery of SAP applications.



- ▶ The test results are made available on ReleaseOwl with well-defined logs in case of test failures.
- ▶ Test trends are available on the ReleaseOwl Dashboard for the leadership teams to review the quality of the project and the release.



HCL OneTest UI

Benefits & Value

- ▶ Improve Speed & Coverage
- ▶ Improve Quality
- ▶ Reduce Cost
- ▶ Simplify Teamwork

Capabilities

- ▶ Automated Testing
- ▶ Natural-language Scripting Environment
- ▶ Automated Regression Testing
- ▶ Simple (Record, Enhance, & Execute)

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