

SAP Change Impact Analysis & SAP Enterprise Continuous Testing by Tricentis

Arjan van den Broek a.vandenbroek@tricentis.com

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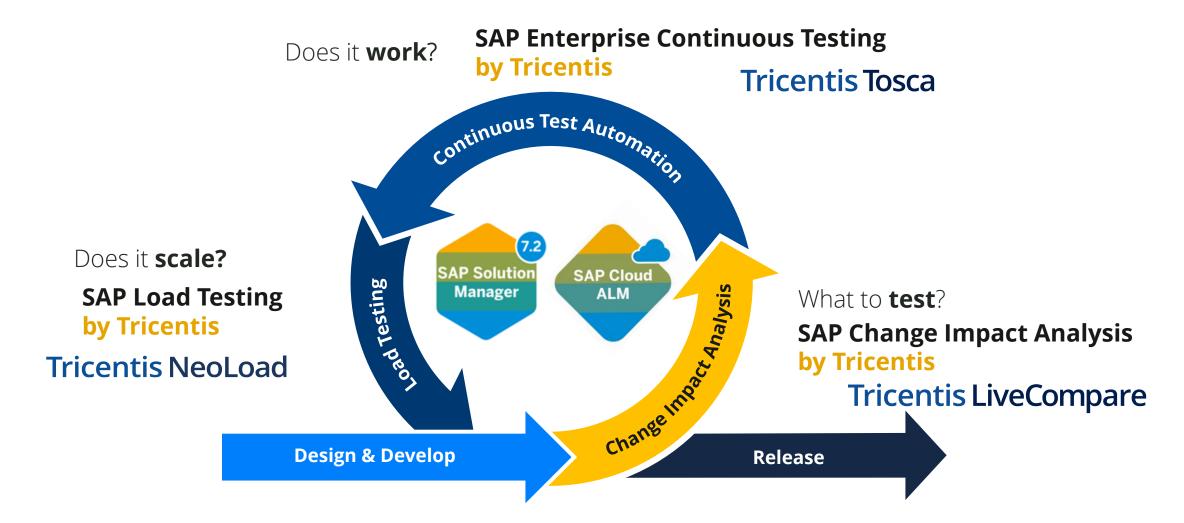
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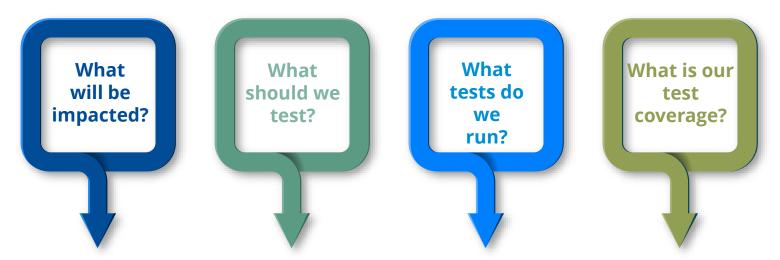
Strategic partnership with X Tricentis





The Quality Challenge

Tricentis CIA/LiveCompare



Operational Changes

Scheduled Releases
Daily & Weekly Transport
Bundles Emergency Fixes
Legal & Regulatory



Project Changes

EHP Upgrades | Support Packs
Roll-outs
HANA Migrations
HANA Upgrades
Business Innovation

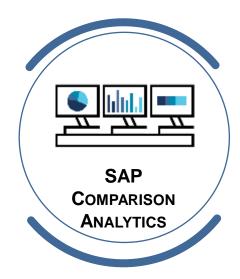
Core Functionality

and Use Cases

Tricentis CIA/LiveCompare



- Upgrades, Support Packs & EHP's, Feature Packs
- S/4 Version Upgrades
- Major-Minor Change Upgrades
- Daily & Weekly Transports
- Legal & Regulatory Changes
- Digital Transformation Projects
- Template Rollouts



- System Synchronization
- N+1 Landscape Management
- Troubleshooting & Debugging
- Data Quality & Governance
- Data Migration Validation
- SAP Consolidations & Mergers



- Custom Code Management
- Code Quality
- Test Coverage
- Transaction Utilization
- Test Quality Audit

Change Process



Identify the Risk?

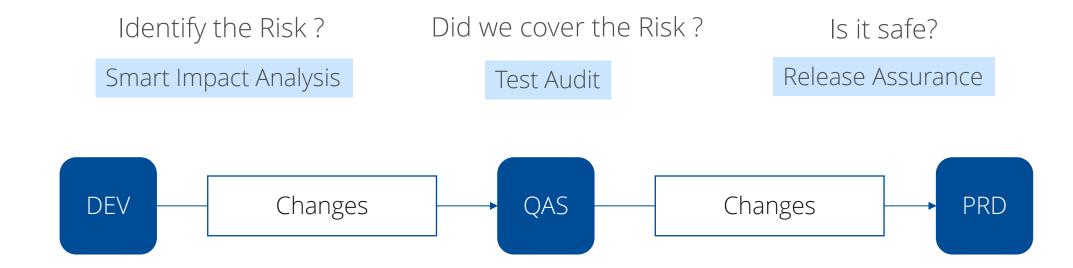
Did we cover the Risk?

Is it safe?



Change Process

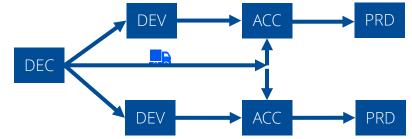


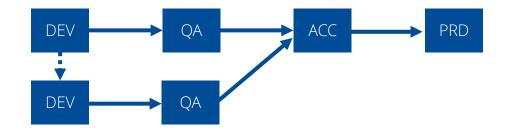


SAP Change Management

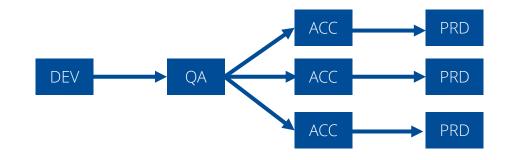
SAP Changes move through the landscape in many different ways

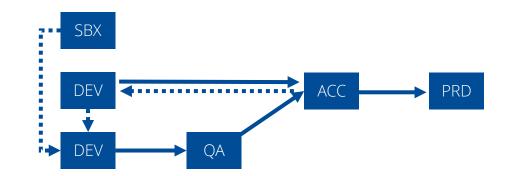


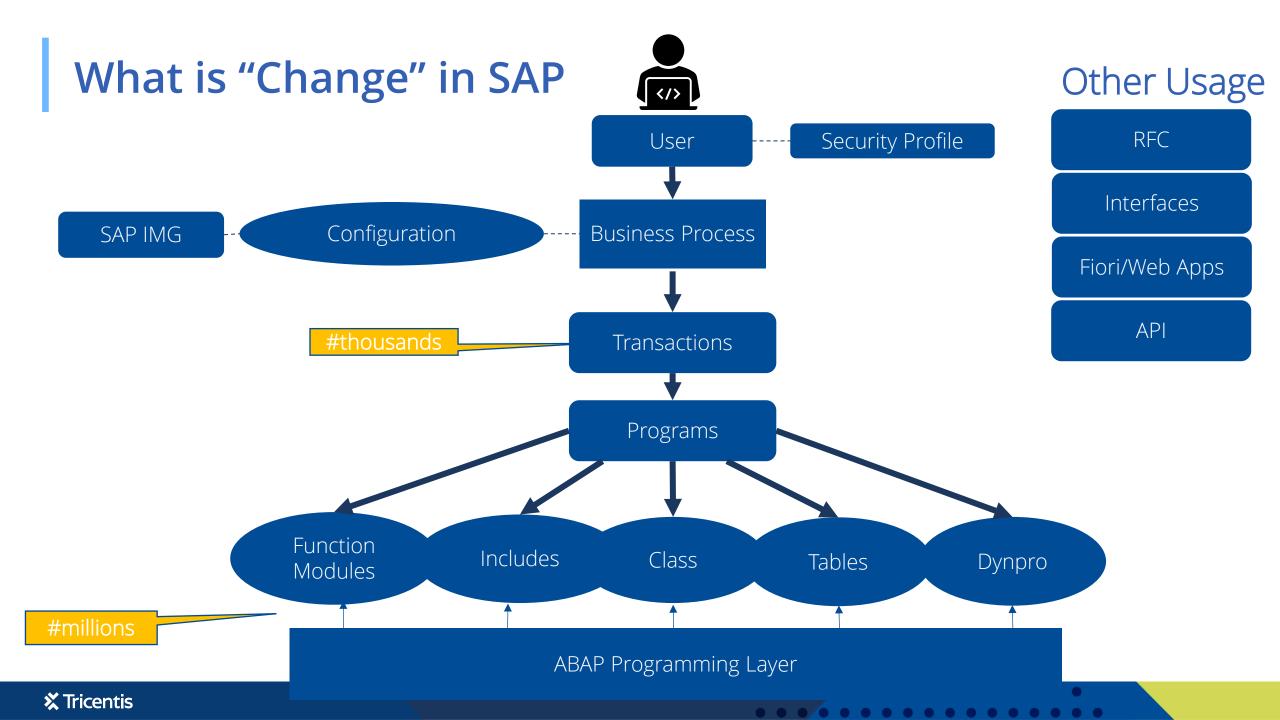












LiveCompare Apps

Authorization NOTE Impact

Identifies the impacted and most-at-risk application capabilities based on AUTHORITY-CHECK OBJECT updates to objects introduced by SAP Notes.

Code Guard

Reports on used standard-vs-custom, used-vs-unused custom, used and unused by application area, and custom code quality.

Impact for Security

Assesses the impact of security changes on SAP end-users.

Used Objects

Reports on used standard vs. custom, object types, test coverage, users and license type assignments.

Code Watch

Run and optimize custom code analysis based on transports, ChaRM change requests, named objects, development classes and developers.

Compare Objects

Compares SAP objects between two systems. The objects to compare can be specified by name or with a Select List.

Cross System Impact Analysis

Cross system impact analysis designed for gateway deployed Fiori implementations supported by a back-end SAP system.

Survey

Survey Role usage. Results include: users who have been assigned the single role(s); what tcodes are in the single roles (if assigned); whether a user is being assigned only single role or via a composite role (containing the single role); whether a user has actually used the tco...

Discover Reusable Tests

Searches the test repositories of a pipeline for existing tests that cover used executables.

Fix My Code

Fix custom ABAP code to work with SAP HANA.

Find Similar Roles

Given a set of authorization criteria, find roles that are similar.

Compare IMG

Compares IMG tables between two SAP systems. An optional 'Columns to Compare' parameter can be used to exclude or include specific table columns from the comparison.

Heal Tests

Identifies modules and test cases that depend on changed screens.

Impacted Custom Code

Identifies custom code that requires remediation because of changes in SAP dependencies.

Chronograph

Measure investment in custom programs by year for the specified SAP instance.

Release Assurance

Find the missing changed objects that should be reviewed for inclusion in this release.

Package Disassembler

Package disassembler.

Retrofit Analysis

Identify code and data that should be synchronised between the DEV systems of two pipelines (Source and Target). Analysis begins on the user-defined Start Date.

Smart Impact

Analyzes the impact of change on your SAP system to find the most-atrisk to test. Specify the change as a list of transports, a ChaRM project, or simply a list of objects. Integrate with Tosca, qTest and other test repos to identify test hits and gaps.

Short Dump Watch

Provides a summary of SAP short dump data that has been retrieved for the specified Pipeline. The pipeline's usage system is the SAP system from which the short dump data is retrieved.

SAP HANA Migration Assessment

Perform an S/4HANA migration assessment that produces an overall project dashboard report and summary plus detailed reports for development, testing, integration, security, and training. Works with SAP Business Suite on HANA and SAP S/4HANA.

SAP HANA Upgrade Analysis

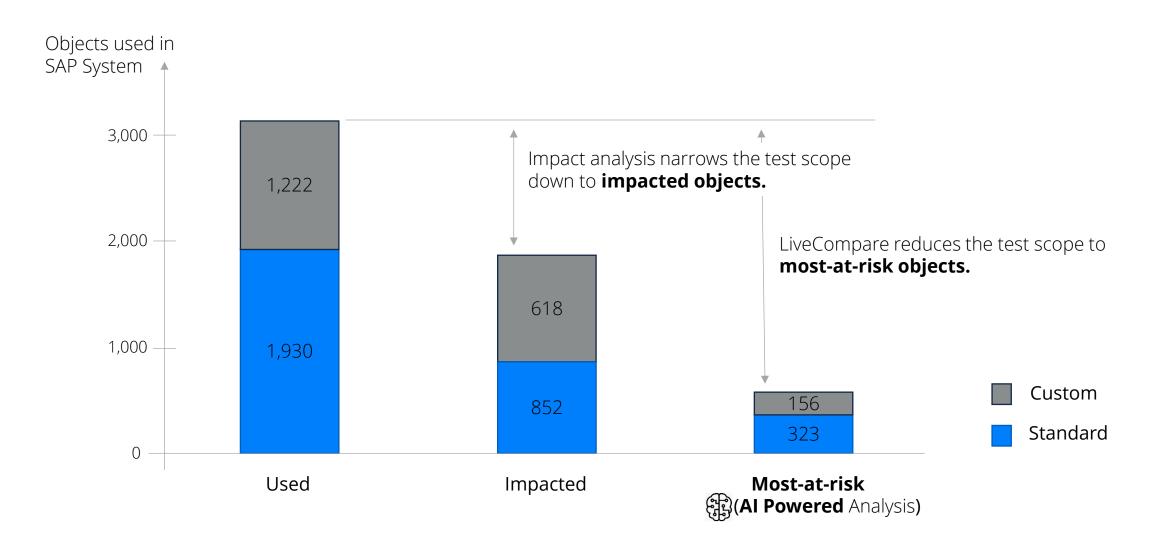
Perform an SAP HANA upgrade assessment that produces an overall project dashboard plus detailed reports to help fix impacted custom code, prioritize standard SAP testing, and surface vulnerable integration points. Works with HANA to HANA version upgrades.

Test Audit

Reports which Most-at-risk objects (tokens) have been executed in QA, and whether tests for those tokens have been run in your Test Repository.

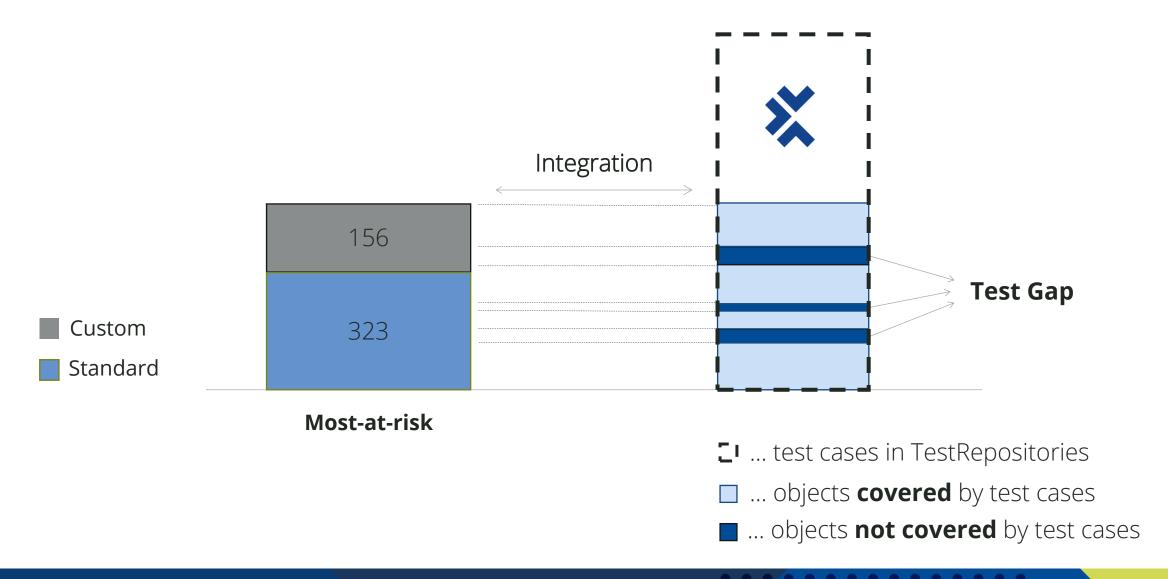
Custom Apps

Smart Impact Analysis with LiveCompare



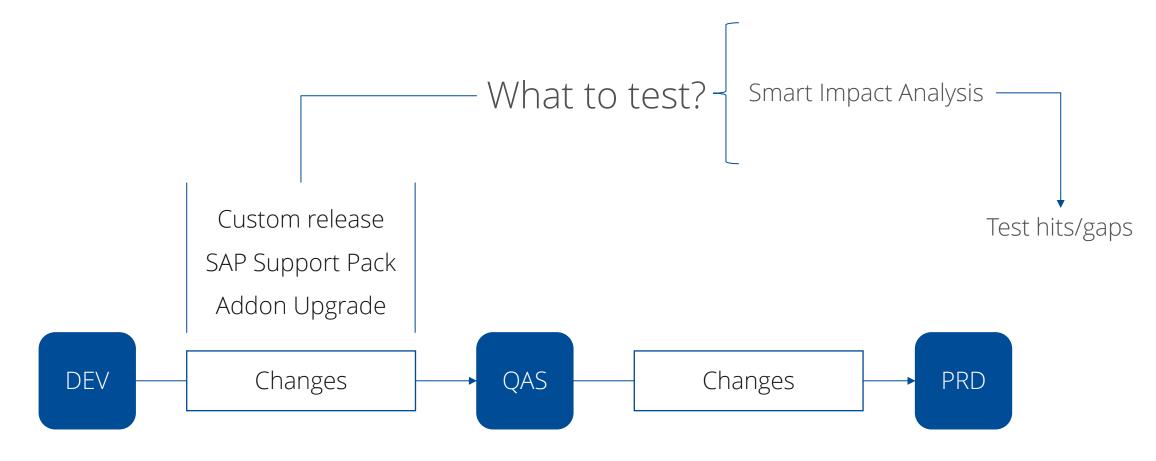


LiveCompare/Test Repository Integration



Identify the Risk





Who: testers, key users, developers, SMEs.



Identify the Risk – how to execute

Livecompare analyses can be triggered in different ways



manual user action, starting the Impact Analysis app



Scheduled, based on released transports



• • On status change in Solution manager Charm



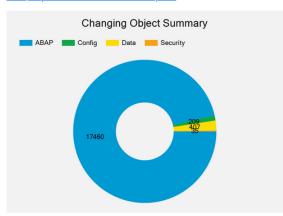
From ActiveControl, Revtrac or other using API's



Smart Impact Analysis results

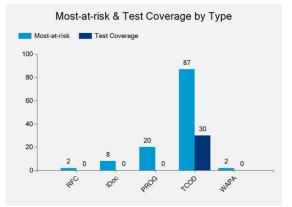


Used, Impacted & Most-at-risk Description



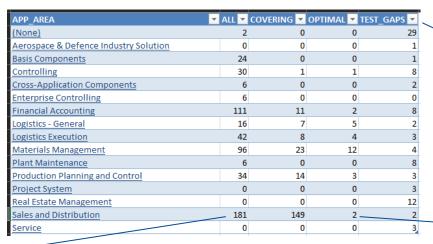
Changing Object Summary Description

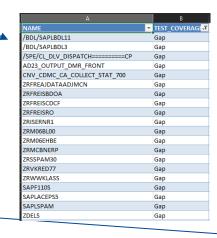
Most-at-risk & Test Coverage Description



Most-at-risk & Test Coverage by Type Description

Smart Impact Analysis results – Details What to Test





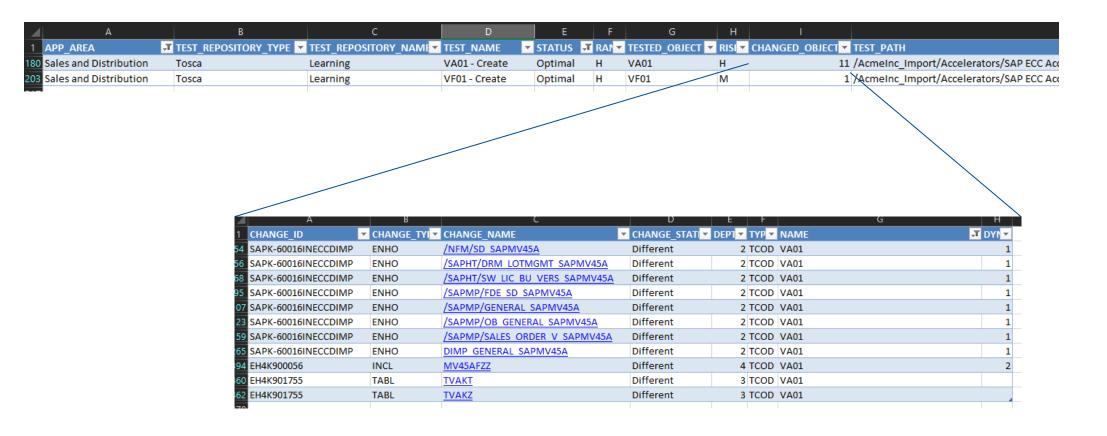
Testing Details report shows:

- All available Testcases by application area
- Testcases covering changes
- Optimal testcases to test changes
- Changes not covered by testcases

| 1 A | В | С | D | E F G | Н |
|------------------------|---------------------|-------------------------|------------------------------|-----------------------|---|
| APP_AREA | ▼ TEST_REPOSITORY_T | YPE 🔽 TEST_REPOSITORY_N | IAME ▼ TEST_NAME | STATUS RISI TEST_DAT/ | TESTED_OBJECTS TEST_PATH |
| Sales and Distribution | Tosca | Learning | VA01 - Create | Optimal H | 1 /AcmeInc_Import/Accelerators/SA |
| Sales and Distribution | Tosca | Learning | VA01 - Create | Covering H | 1 /AcmeInc_Import/Import_import2 |
| Sales and Distribution | Tosca | Learning | VA01 - Create | Covering H | 1 /AcmeInc_Import/Import_import2 |
| Sales and Distribution | Tosca | Learning | VA01 - Create | Covering H | 1 /AcmeInc_Import/Import_import2 |
| Sales and Distribution | Tosca | Learning | VA01 - Create Sales Order | Covering H | 1 /AcmeInc_Import/Import_import2 |
| Sales and Distribution | Tosca | Learning | VA01 - Create Sales Order | Covering H | 1 /AcmeInc_Import/Import_import2 |
| Sales and Distribution | Tosca | Learning | VA01 - Create Sales Order | Covering H | 1 /AcmeInc_Import/TestCases/10 I |
| Sales and Distribution | Tosca | Learning | VA01 - In Work Test Case | Covering H | 1 /AcmeInc_Import/Import_import2 |
| Sales and Distribution | Tosca | Learning | VA01 - In Work Test Case | Covering H | 1 /AcmeInc_Import/Projects/Project |
| Sales and Distribution | Tosca | Learning | VA01 - Rejected Test Case | Covering H | 1 /AcmeInc_Import/Import_import2 |
| Sales and Distribution | Tosca | Learning | VA01 - Rejected Test Case | Covering H | 1 /AcmeInc_Import/Projects/Project |
| Sales and Distribution | Tosca | Learning | VA01 - Review Test Case | Covering H | 1 /AcmeInc_Import/Import_import2 |
| Sales and Distribution | Tosca | Learning | VA01 - Review Test Case | Covering H | 1 /AcmeInc_Import/Projects/Project |
| Sales and Distribution | Tosca | Learning | VA02 - Change | Covering H | 1 /AcmeInc_Import/Accelerators/SA |
| Sales and Distribution | Tosca | Learning | VA02 - Change | Covering H | 1 /AcmeInc_Import/Import_import2 |
| Sales and Distribution | Tosca | Learning | VA02 - Change | Covering H | 1 /AcmeInc_Import/Import_import2 |
| Sales and Distribution | Tosca | Learning | VA02 - Change | Covering H | 1 /AcmeInc_Import/Import_import2 |
| Sales and Distribution | Tosca | Learning | VA03 - Display | Covering H | 1 /AcmeInc_Import/Accelerators/SA |
| Sales and Distribution | Tosca | Learning | VA03 - Display | Covering H | <pre>1 /AcmeInc_Import/Import_import2</pre> |
| Sales and Distribution | Tosca | Learning | VA03 - Display | Covering H | 1 /AcmeInc_Import/Import_import2 |
| Sales and Distribution | Tosca | Learning | VA03 - Display | Covering H | <pre>1 /AcmeInc_Import/Import_import2</pre> |
| Sales and Distribution | Tosca | Learning | Yet Another Sales Order Test | Covering H | 1 /AcmeInc_Import/ExcudeFromSyn |
| Sales and Distribution | Tosca | Learning | VF01 - Create | Optimal M | 1 /Acmeinc_Import/Accelerators/SA |
| | | | | | |

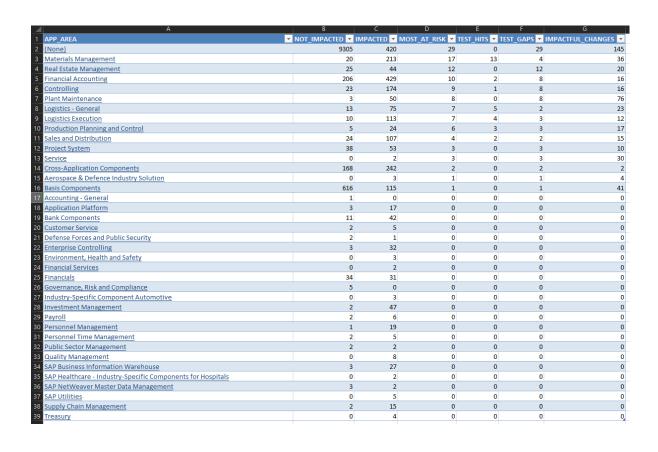


Smart Impact Analysis results – Details Why to Test





Smart Impact Analysis Function Details

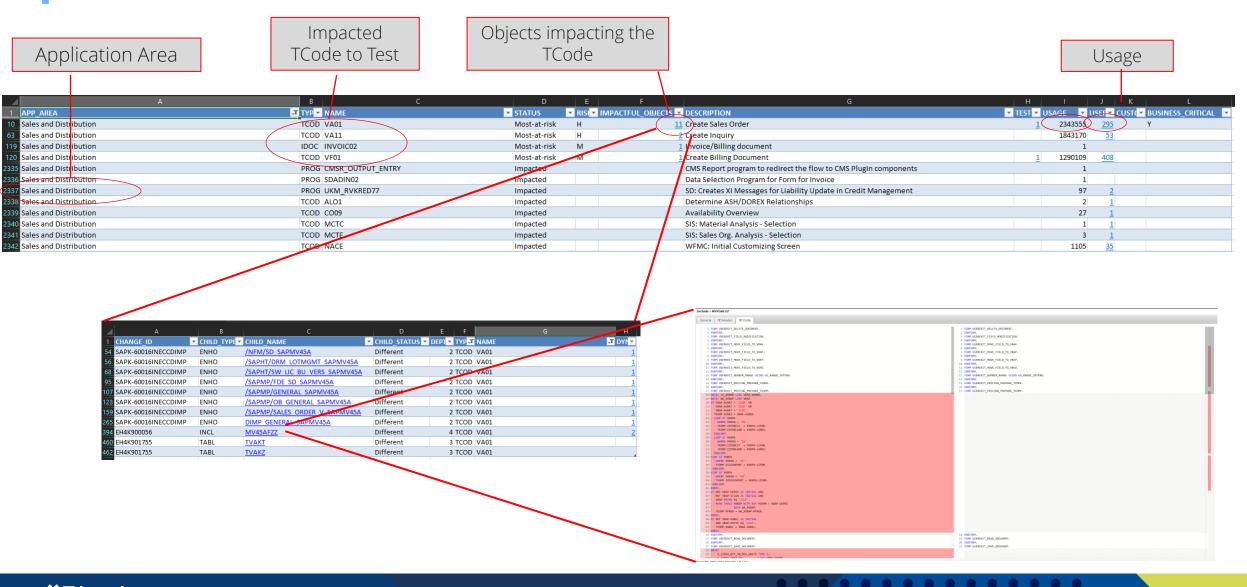


Function Details report shows per application area:

- All used transactions not impacted
- Used TCodes Impacted
- Used TCodes defined Most At Risk
- Most at Risk TCodes covered by testcases (HITS)

- Most at Risk TCodes not covered by testcases (GAPS)
- Amount of changes creating impact

Impact App - Most at Risk Drill Down Report

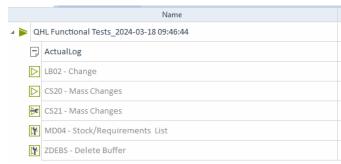


Impact App Hits & Gaps

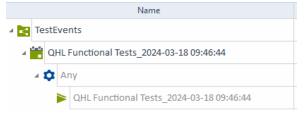
Test Hits

| A | В | C | D | E | F | G | H I | |
|---------------------------|-----------------|----------------------------|---|----------|-----|--------------|--------------------------|--|
| 1 APP_AREA | TEST_REPOSITORY | /_TYPE ▼ TEST_REPOSITORY_N | NAME TEST_NAME | ▼ STATUS | RAN | TESTED_OBJEC | T - HAS_DAT - COMMON_TER | TEST_PATH |
| 55 Sales and Distribution | Tosca | Learning | 0101 TC WithModule + With TestStepValue | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/01 TestCases |
| 56 Sales and Distribution | Tosca | Learning | 0102 TC WithModule + No TestStepValue | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/01 TestCases |
| 57 Sales and Distribution | Tosca | Learning | 0103 TC WithModule + Disabled TestStepValue | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/01 TestCases |
| 58 Sales and Distribution | Tosca | Learning | 0104 TC WithModule + Disabled TestStep | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/01 TestCases |
| 59 Sales and Distribution | Tosca | Learning | 0201 TC with VA01 token in Name | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/02 TestCases |
| 60 Sales and Distribution | Tosca | Learning | 0202 TC with token in TestStepName | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/02 TestCases |
| 61 Sales and Distribution | Tosca | Learning | 0203 TC with token in TestStepValueName | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/02 TestCases |
| 62 Sales and Distribution | Tosca | Learning | 0204 TC with VA01 token in TestStepValue | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/02 TestCases |
| 63 Sales and Distribution | Tosca | Learning | 0301 TC WithModule + With TestStepValue-InWork | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/03 TestCases |
| 64 Sales and Distribution | Tosca | Learning | 0302 TC WithModule + With TestStepValue-Planned | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/03 TestCases |
| 65 Sales and Distribution | Tosca | Learning | 0303 TC with VA01 token in Name-InWork | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/03 TestCases |
| 66 Sales and Distribution | Tosca | Learning | 0304 TC with VA01 token in Name-Planned | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/03 TestCases |
| 67 Sales and Distribution | Tosca | Learning | 0305 TC with VA01 token in Name-Completed | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/03 TestCases |
| 68 Sales and Distribution | Tosca | Learning | 0306 TC WithModule + With TestStepValue-Completed | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/03 TestCases |
| 69 Sales and Distribution | Tosca | Learning | 0402 TC WithTestStepValue | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/04 Templates |
| 70 Sales and Distribution | Tosca | Learning | 0403 TC_WithoutTestStepValue | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/04 Templates |
| 71 Sales and Distribution | Tosca | Learning | 0501 TC with RTSB | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/05 RTSBs/050 |
| 72 Sales and Distribution | Tosca | Learning | 0503 TC with RTSB with parameter | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/05 RTSBs/050 |
| 73 Sales and Distribution | Tosca | Learning | 0604 TC with VA01 token in TestStepValue | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/06 TestCases |
| 74 Sales and Distribution | Tosca | Learning | 0701 Manual TC VA01 | Covering | M | VA01 | VA01 | /AcmeInc_Import/Projects/LiveCompare/TestCases/07 Manual Te |
| 75 Sales and Distribution | Tosca | Learning | A P1 Test of VA01 | Covering | M | VA01 | VA01 | /AcmeInc_Import/TestCases/P1/A P1 Test of VA01 |
| 76 Sales and Distribution | Tosca | Learning | A P2 Test of VA01 | Covering | M | VA01 | VA01 | /AcmeInc_Import/TestCases/P2/A P2 Test of VA01 |
| 77 Sales and Distribution | Tosca | Learning | Create Sales Order | Covering | M | VA01 | VA01 | /Acmeinc_import/import_import210722_0952/Projects/Project B/ |
| 78 Sales and Distribution | Tosca | Learning | Create Sales Order | Covering | M | VA01 | VA01 | /Acmeinc_import/Projects/Project B/Test Cases/COMPLETED/Test |
| 79 Sales and Distribution | Tosca | Learning | Create Sales Order | Covering | M | VA01 | VA01 | /Acmeinc_import/import_import210722_0949/TestCases/Tests with |
| 80 Sales and Distribution | Tosca | Learning | Create Sales Order | Covering | M | VA01 | VA01 | /Acmeinc_import/import_import210722_0949/TestCases/Manual |
| 81 Sales and Distribution | Tosca | Learning | Create Sales Order | Covering | M | VA01 | VA01 | /Acmeinc_import/import_import210722_0952/TestCases/Tests wi |
| 82 Sales and Distribution | Tosca | Learning | Create Sales Order | Covering | M | VA01 | VA01 | /Acmeinc_import/import_import210722_0952/TestCases/Manual |
| 83 Sales and Distribution | Tosca | Learning | Create Sales Order | Covering | M | VA01 | VA01 | /AcmeInc_Import/TestCases/Tests with References/Create Sales 0 |
| 84 Sales and Distribution | Tosca | Learning | Create Sales Order | Covering | M | VA01 | VA01 | /AcmeInc_Import/TestCases/Manual Tests for Execution/Create S |
| 85 Sales and Distribution | Tosca | Learning | Create Sales Order | Covering | M | VA01 | VA01 | /AcmeInc_Import/TestCases/A/B (A)/C (B) (A)/Create Sales Order |
| | | | | | | | | |

Test Hits, ExecutionList in Tosca



Auto Execution though Dex



Test Gaps

| NAME | ▼ TEST COVERAGI ▼ |
|------------------------------|-------------------|
| ZSD RVADDN01 HQ PRINTS | Gap |
| SAPLXCO1 | Gap |
| ZWM21 | Gap |
| VIO2N | Hit |
| ZMM BR GM | Gap |
| Z MM GSP SEND MATMAS | Gap |
| /SPE/STO ID PROCESSING | Gap |
| SAPILIMGT | · · |
| | Gap |
| ZQM_BATCH_UPDATE MB31 | Gap |
| | Gap |
| SAPF110S | Gap |
| COOISPI | Gap |
| MD04 | Gap |
| QA11 | Hit |
| /ISDFPS/EPA_PRINT_ADOBE_FORM | Gap |
| ZSD_BR_GI | Gap |
| BAPI_OUTB_DELIVERY_CHANGE | Gap |
| ZEWM_TRF_BATMAS_IDOC | Gap |
| ZEWM02 | Gap |
| ZEWMT002 | Gap |
| ZEWMT02 | Gap |
| ZLO_TRANSFER_HU_ASSIGNMENT | Gap |
| ZQM_SAVE_UD | Gap |
| ZMM_BATCH_INITIALIZE | Gap |
| ZMM_USEREXIT2078 | Gap |
| Z_EWM_IL_UD_CHANGE | Gap |
| i | |

Test Gaps

| Name | Frequency class | Damage class | Weight |
|--|-----------------|--------------|--------|
| A NUMBER OF A CONTROL OF A CONT | | | |
| ▶ ▲ BASIS COMPONENTS | 1 | 1 | 4 |
| ▶ ▲ CONTROLLING | 1 | 4 | 32 |
| FINANCIAL ACCOUNTING | 1 | 1 | 4 |
| ▲ FINANCIALS | 3 | 4 | 128 |
| ▲ BNK_APP | 3 | 4 | 128 |
| ▶ ▲ PERSONNEL MANAGEMENT | 1 | 4 | 32 |
| PRODUCTION PLANNING AND CONTROL | 1 | 3 | 16 |
| ▲ SALES AND DISTRIBUTION | 4 | 3 | 128 |
| VL01N | 4 | 3 | 128 |



Demo



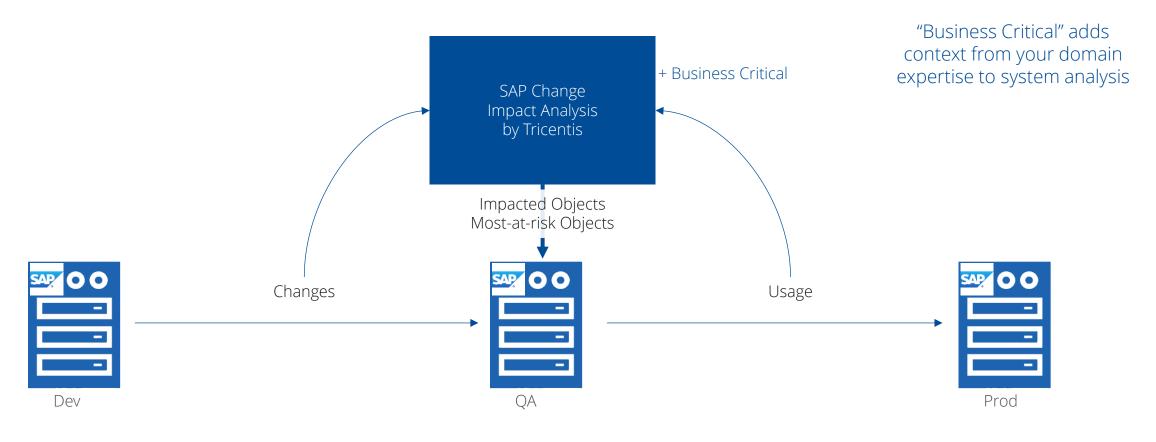
Questions ?



Backup

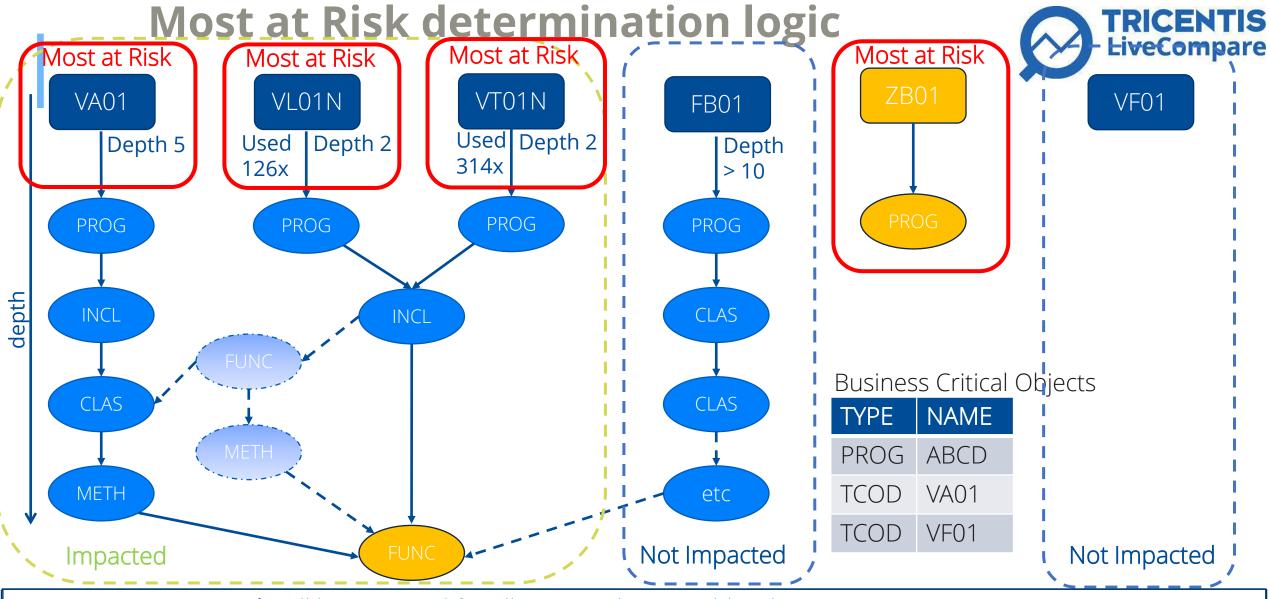


Source of Heuristics

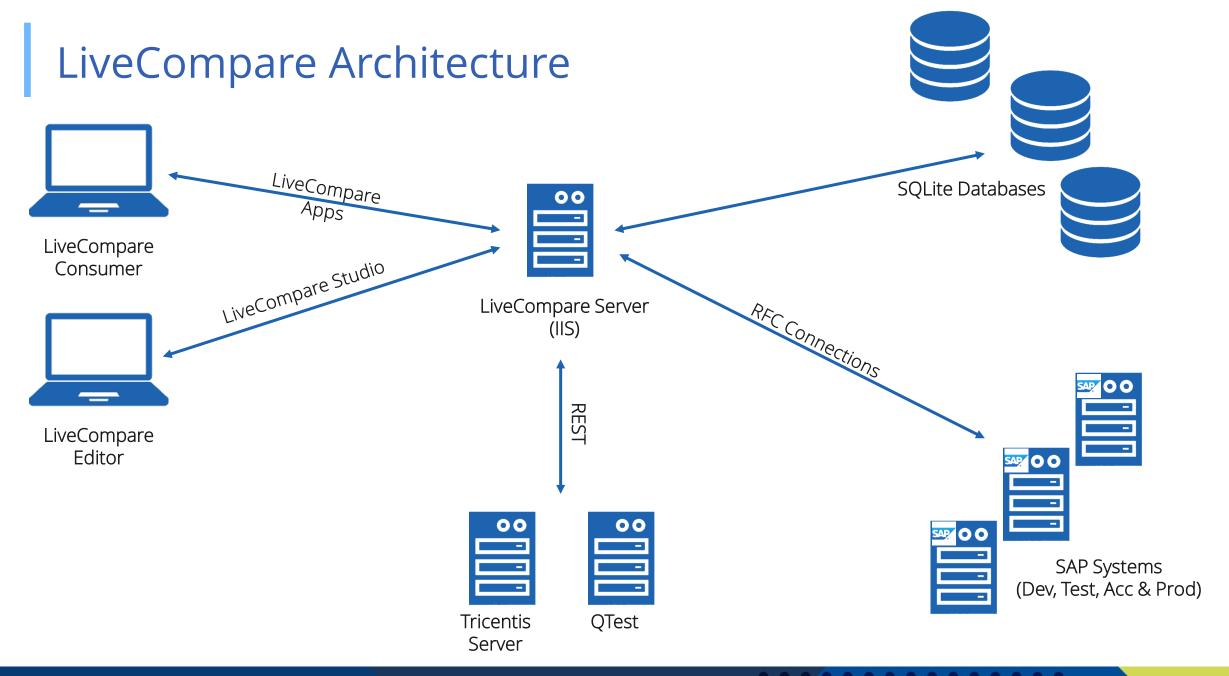


Impacted = Most-at-risk =

Objects with a relation to a changed object Impacted objects that are Most At Risk Using, Depth, Usage & Business criticality

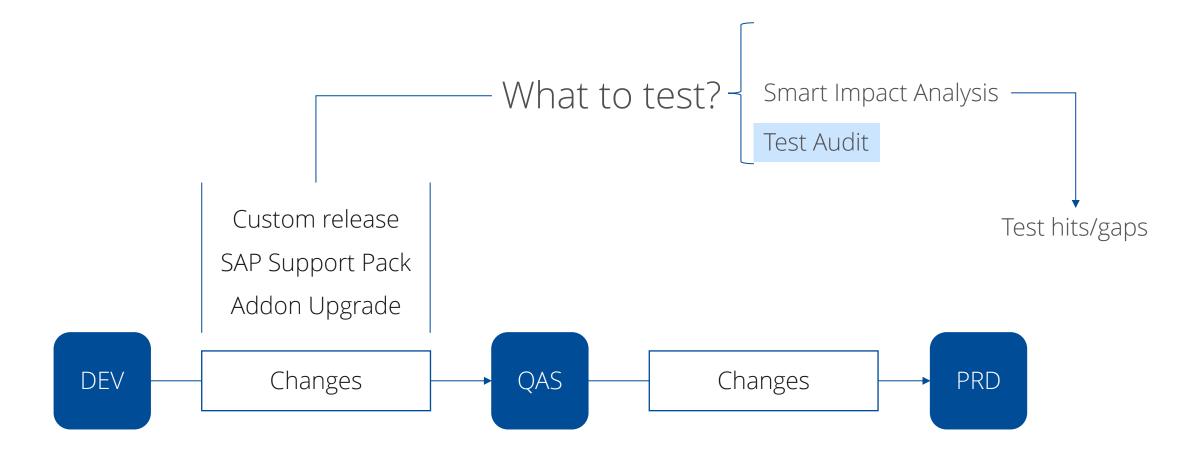


A **TestRepository Search** will be executed for all Impacted Executable Objects (Most at Risk is a subset of Impacted)
All testcases found for the Impacted Executable Objects will be a **HIT**All Most At Risk Executable objects for which no testcases are found, are a **GAP**



Did we cover the risk?

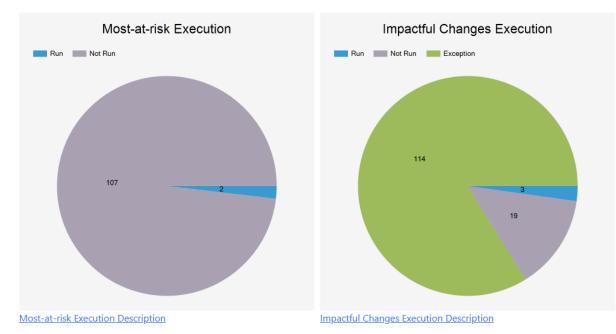


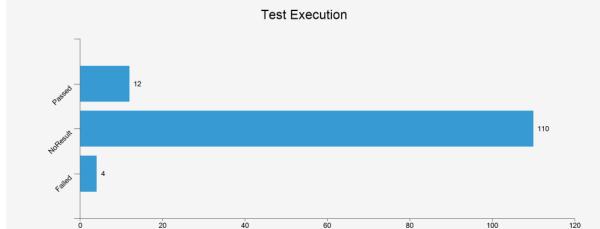


Who: testers, key users, developers, SMEs.

Test Audit Capabilities

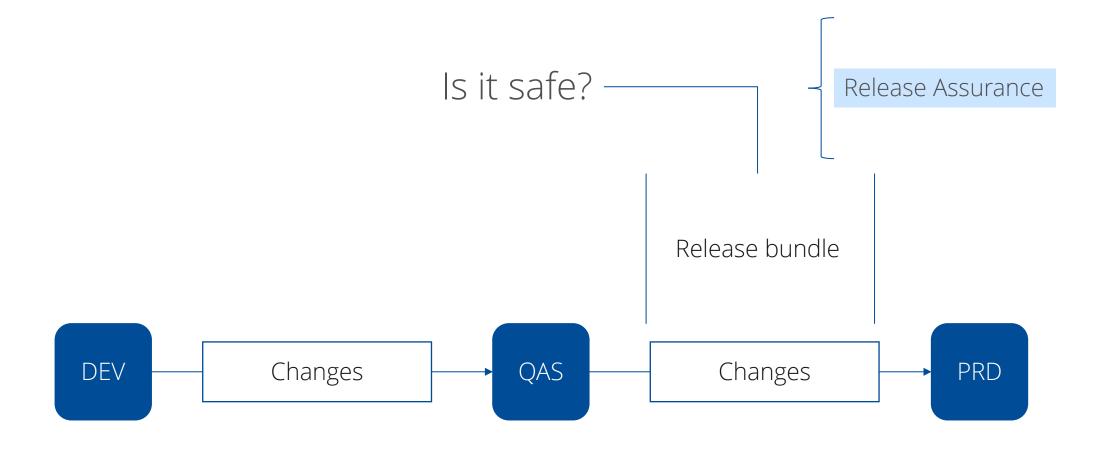
- Verifies if the Testable Object (Transaction, Fiori, Program) has been executed in the QA environment
- Gives the status (Pass, Fail, Not run) of the Test Execution from Test Tool (Tosca, qTest)
- Checks to see if the Impactful Object (Function, Include, Class etc) was run in the QA environment





Is it safe to go-live?





Who: basis admin/ops.

Release Assurance Dashboard



Summary



Identify the Risk?

Smart Impact Analysis

Did we cover the Risk?

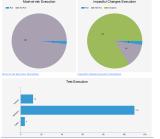
Test Audit

Is it safe?

Release Assurance

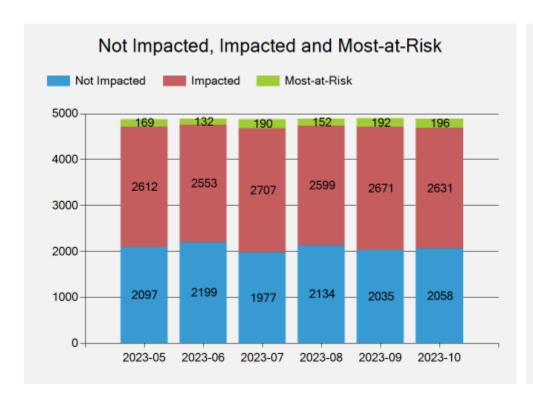


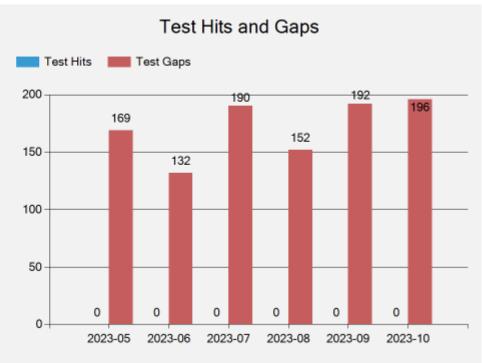




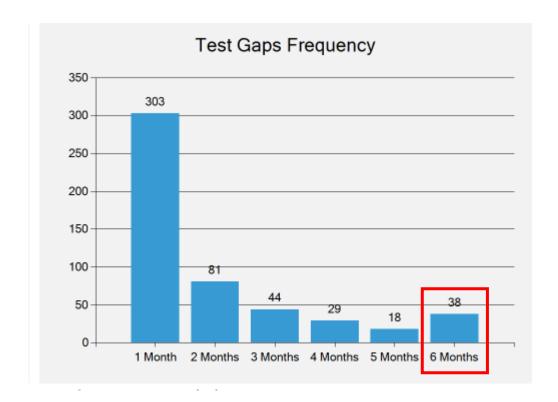


Test Quality Audit





Test Quality Audit



| APP_AREA | MONTHS | ™ TO_BE_TESTED_OBJECT | ¥ |
|------------------------|--------|------------------------------|---|
| Custom | 6 | ZMIM_STOCK_TRANSFER_SITE | |
| Custom | 6 | /OPT/SAPLVIM_ICC | |
| Custom | 6 | Z_GET_ORDER_TYPE | |
| Custom | 6 | ZMM_POREL | |
| Custom | 6 | ZFM_PS_PMWEB_PO | |
| Sales and Distribution | 6 | /1SDBF12L/RV14AKZ1 | |
| Custom | 6 | ZTR_BANK_RECONCILE_STMT | |
| Sales and Distribution | 6 | SAPDV70A | |
| Sales and Distribution | 6 | VA02 | |
| Sales and Distribution | 6 | RVIVAUFT | |
| Payroll | 6 | PC00_M14_NCTEA | |
| Materials Management | 6 | MBSTOCKS | |
| Materials Management | 6 | ME82 | |
| Materials Management | 6 | ME28 | |
| Logistics - General | 6 | SAPLWSO5 | |
| Logistics - General | 6 | WBTI | |
| Financial Accounting | 6 | SAPF110S | |
| Financial Accounting | 6 | RFKORK00 | |
| Financial Accounting | 6 | ZFR_RFBILA00 | |
| Financial Accounting | 6 | RFBISA10 | |
| Financial Accounting | 6 | ZTRM_BRS | |

Test Automation – where to start?

38 common Most-at-Risk objects over 6 months' worth of changes



LiveCompare App Examples

ABAP Code Quality Analysis



- Pinpoint coding issues early on SDLC
- Instant feedback for developersData driven insights for commit approvals

Smart Impact Analysis



- Intelligent targeted testing80% reduced testing effortsSpeeds up release cadences 2-3X

SAP Test Coverage Insights



- Insights into test coverage in every release
- Prioritize time, resources and money in appropriate areas
- Track test coverage trends and monitor progress

Test Audit



- Quality gate for deployment approvals Instant feedback for release managers Zero defect leakage

N+1 Transport Merge Comparison



- Perform Transport merges 80% faster
- Auto discover code and config conflicts for
- Eliminate manual analysis & investigative work

SAP Custom Code Management Insights



- Continuous visibility into custom code Manage, govern, optimize customizations
 • Track trends and KPI's around custom code
- Eliminate Technical debt

SAP Root-Cause Analysis



- Debug Prod issues 80% faster
- Less resource involvement
- Minimize production downtime

SAP System Synchronization



- Ensure code, config & data stays in sync
 Avoid defects cased by system discrepancies
 Reduced need for system refreshes

S/4 Readiness Assessment



.

- Compare existing ECC to target S/4
- Key insights to plan, scope and strategize
- Retire dormant custom code
- Remediate existing code to be S/4 ready

CIA

#1 platform for SAP operational analytics & project intelligence

Real-time actionable insights that help with day-today production support and point in time projects

Interactive dashboards & detailed reports that feed your SAP experts the information and data they need to do their jobs faster and better

- ✓ Increase Productivity
- ✓ Speed Testing Cycles
- ✓ Reduce Production Defects
- ✓ Enhances Governance Controls
- ✓ Improves Collaboration.



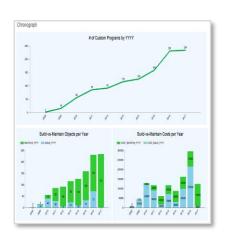


Operations

SAP Operational Insights **Development**

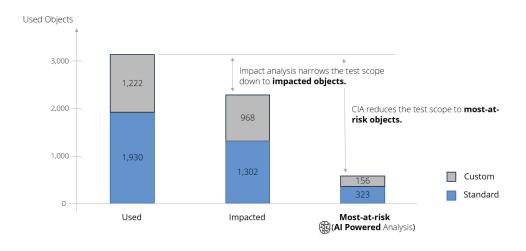


Testing



Business Benefits & ROI

- Reduced testing scope by 84%
- Reduced production errors by 78%
- Reduced time-to-release by 67%
- Improved application release rate by 300%
- Reduced costs of hypercare by 90%

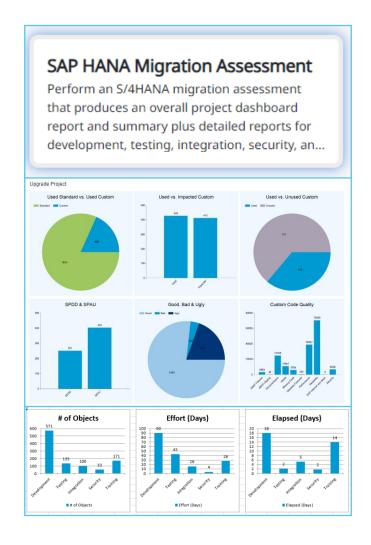


"The benefits of SAP Change Impact Analysis are really clear: less conditions to test, less effort in testing, and less production incidents." ERP principal test manager, telecommunications

SAP HANA Migration Assessment

The Challenge:

- Understand the impact of moving to S/4
- Greenfield or Brownfield
- How much Custom Code needs fixing
- What Custom Code can be archived.
- How much Testing will need to happen
- Are any end users affected
- Which Interfaces are impacted
- What is the best approach (staged or big bang)





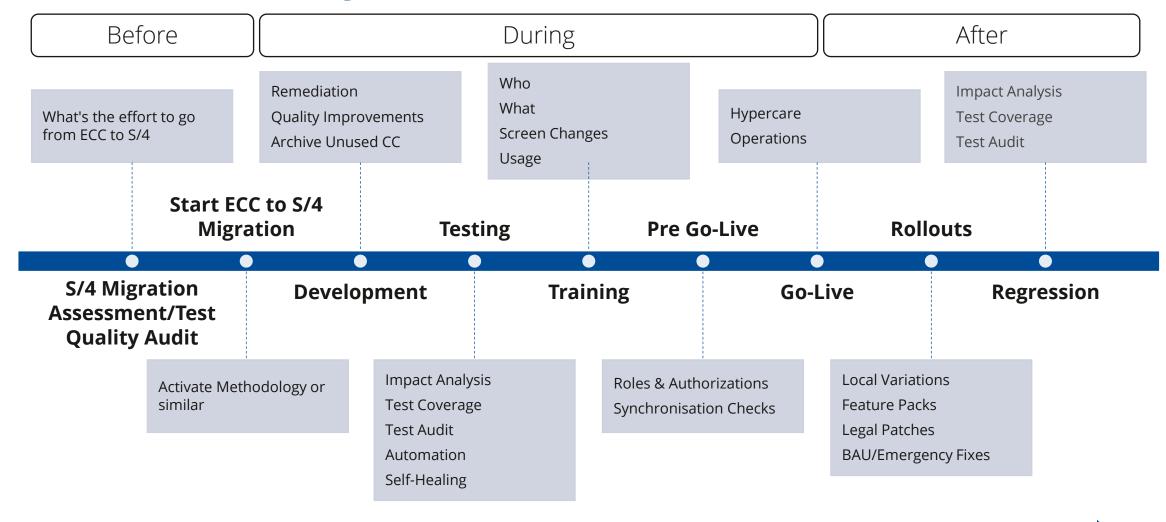
Benefits:

- Cloud based S/4 Migration Assessment
- Real As-Is vs To-Be comparison
- Quick to implement, minimum effort required from BASIS team.
- Identify impact on 5 key areas
- Development
- Testing
- Training
- Integration
- Security

Results used to Scope project effort



Typical timeline - S/4 Migration



Projects – Upgrades/Feature Packs/Notes - Retrofit

How it Works

Take
"As-Is"
Snapshot

Take
"To-Be"
Snapshot

S/4HANA
Migration
Assessment

Review
Results

Make an As-is LUX

1 Check the integrity of the SAP DEV system's "where used" indexes. ②
2 Download your SAP PRD performance history data. ②
3 Download the extract program code: SAP 700 Kernel and Above ③
4 Create the extract program on your as-is SAP DEV system. ③
5 Run the extract program. ③
6 ZIP the output files (if not automatically ZIPped by the extract program). ⑦
7 Use the <u>OLUX utility.</u> to upload the ZIP archive to LiveCompare. ⑦
Congratulations! You now have an as-is LUX.

Make a To-be LUX

1 Download data files from as-is LUX. ①

2 Download the extract program code: SAP 700 Kernel and Above ①

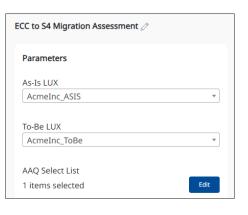
3 Create the extract program on your to-be SAP DEV system. ①

4 Run the extract program. ①

5 ZIP the output files (if not automatically ZIPped by the extract program). ②

6 Use the ② LUX utility to upload the ZIP archive to LiveCompare. ③

Congratulations! You now have a to-be LUX and are ready to run the SAP HANA Migration Assessment app.



Covers Five Areas

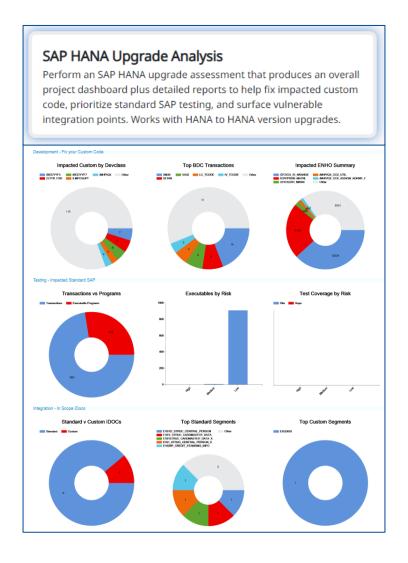
- Development
- Testing
- Integration
- Security
- Training

Quick to complete

S/4 Upgrade Assessment

The Challenge:

- Understand Impact when performing S/4 Version Upgrade Analysis
- How much Custom Code needs fixing
- What Standard processes need to be tested
- Which Interfaces are impacted
- Which Test Cases will fail





Benefits:

- As-Is vs To-Be comparison down to code level
- Identify impact on 3 key areas
 - Development
 - Testing

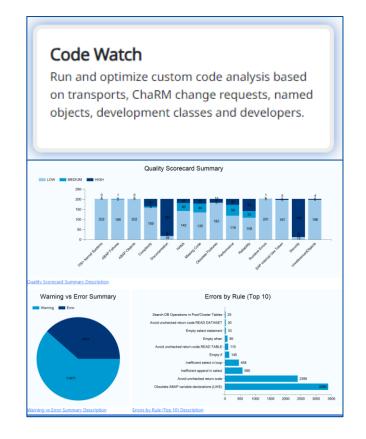
- Integration
- Integration with Test Repository to identify test coverage and sick tests

Development - CodeWatch



The Challenge:

- How good (or bad) is the Custom Code
- Ensure good practice across development teams
- Improve Code Quality in Development
- Stop defects moving through the landscape
- Identify highly complex code



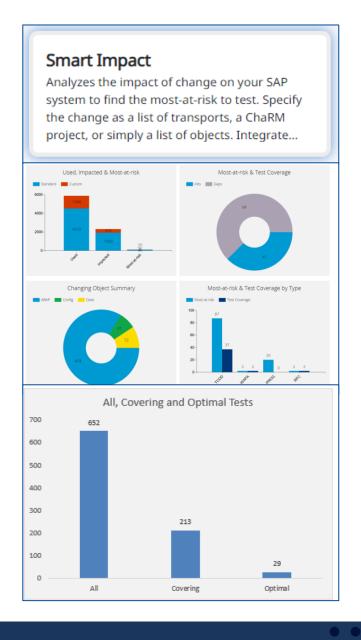
Benefits:

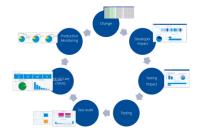
- Shift left on quality. Identify poor coding early on in development cycle and use as quality gate
- Development managers can make data driven decisions
- Instant visibility into coding work being performed by 3rd party system Integrator
- Build quality in vs testing it out farther down the development cycle.
- Elimination of Hidden Risks
- Improved Application Health

Testing - Smart Impact Analysis

The Challenge:

- Identify what affect new code or config changes have on live processes
- Minimize testing effort for business users
- Highlight testing gaps early
- Test the right things
- Repeatable process for deploying changes and new functionality





Benefits:

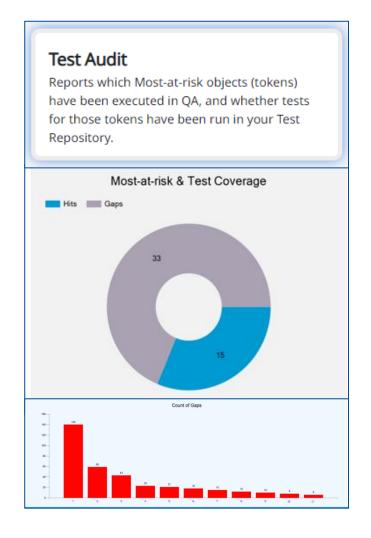
- CIA will identify the Most-at-Risk processes for the new rollout
- Focus testing on the right areas
- Reduce Testing effort by as much as 85%
- Results used to Scope automation
- Increase Test Coverage

Optimize Test Executions

Testing - Coverage & Audit

The Challenge:

- How accurate is your Test Coverage
- Are Test Cases current
- Do you have redundant Test Cases
- Which Test should I run for a Release
- What test cases are missing
- Did we test all the Most At Risk processes





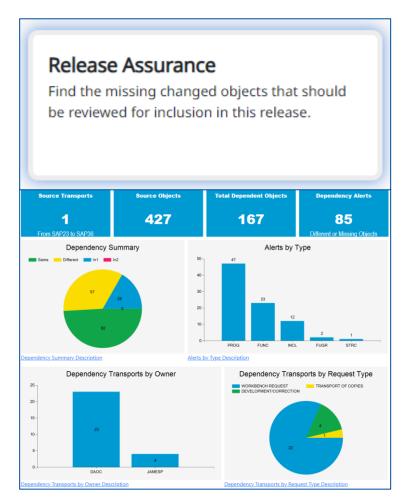
Benefits:

- Understand status of current tests based on actual changes
- Build test execution lists automatically for Test Case Hits
- Build test requirement automatically for Testing Gaps
- Early visibility of Test Coverage for each release
- Audit trail of Test Executions before releasing changes to Prd.

Operations - Release Assurance

The Challenge:

- Is it safe to release changes into Production
- Are there any missing changed dependent objects in the transports





Benefits:

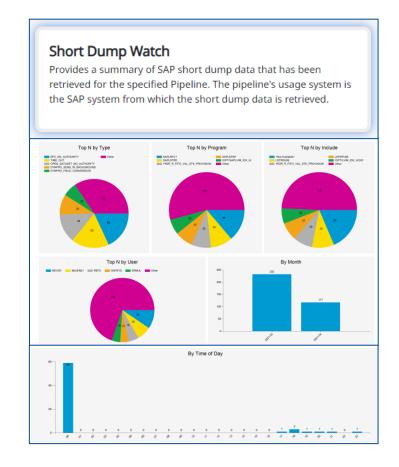
- Final check before releasing into Production
- Missing objects can be fixed before releasing into Prod
- Reduce Defects happening in Prod.

Operations - Short Dump Watch



The Challenge

- Tracking Defects in Production
- Understand trends of defects
 - Do they happen at
 - a certain time of day
 - for particular users
 - for particular objects
 - Do we get more after a go live



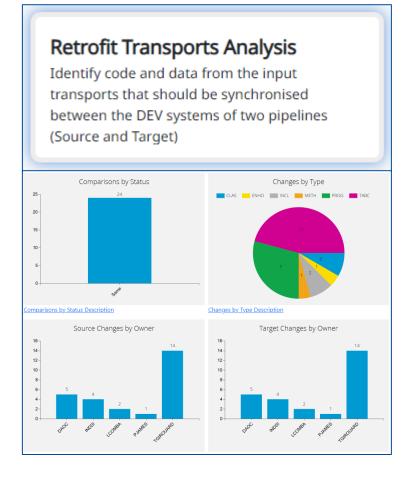
Benefits:

- Trend Analysis of Defects
- Feed defects back into Development to influence Impact Analysis and Code Quality
- Reduce Defects in Production

Retrofit Transports Analysis

The Challenge:

- Are the BAU and Project landscapes correctly synchronized
- Dual Maintenance of Code and Configuration
- Verify Project changes will not overwrite BAU changes





Benefits:

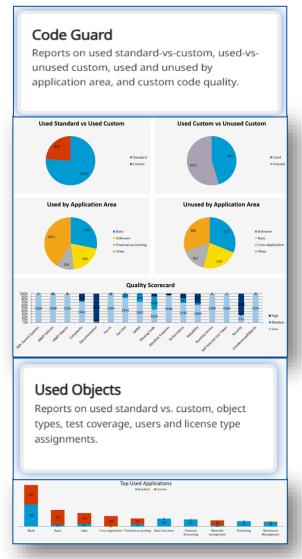
- QA systems configuration and codebase aligned with BAU and Project landscapes
- Identify issues early in the Development phase
- Ensure code, configuration & data across
 SAP systems are in-sync

Operations - Code Guard & Used Objects



The Challenge:

- Understand current environment when taking over new service contract
- What is being used
- How much Custom Code is being used
- How much Custom Code is not being used
- How good (or bad) is the Custom Code)
- How many users are using the system
- What modules make up the implementation



Benefits:

- Clear, continuous visibility into your custom code.
 To manage, maintain, govern and optimize
- Monitor which application areas are being customized the most/least.
- Observe which users are utilizing your custom code the most/least
- Ensure good quality code is being written and best practice coding standards are being met
- Eliminate technical debt and uncover custom code that can be retired.
- Identify custom code that can be reverted to standard code

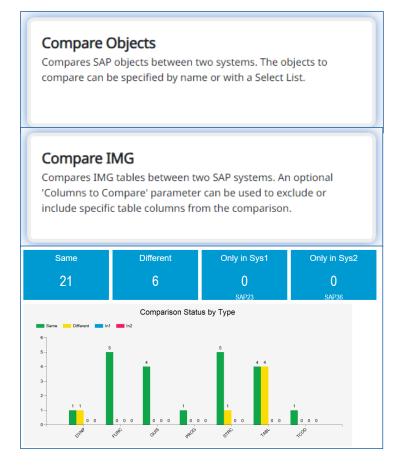
Track key trends and KPI's around custom code

Comparison Analytics



The Challenge:

- Understand where there are differences between systems
- Keeping systems in Synch
- Quickly find issues when troubleshooting & debugging
- For SAP Mergers and Consolidation
- Landscape Management
- Guarantee Global Objects are the same throughout all SAP systems



Benefits:

- Real-time visibility into what is the same, different or unique across various SAP systems, clients, and modules
- Execute intelligent comparisons for rapid troubleshooting and uncover the root-cause of issues within minutes
- Schedule recurring system comparisons to monitor that transports, objects, code, tables, configuration and master data stay in sync.
- Run mass volume comparisons of code, configuration and data when consolidating/merging SAP environments to effectively plan, prep, scope and execute the project.
- Apply smart filtering options to any comparisons to display only the discrepancies that are significant

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