Introducing the Next Generation of ALM

March 22, 2016

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Today's Speakers

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Sr. Product Manager
Hewlett Packard Enterprise

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Hewlett Packard Enterprise

HPE ALM Beta

VIVIT

Matt Brayley-Berger
Vandan Nayak

March 22, 2016

Forward-looking statements

This is a rolling (up to three year) roadmap and is subject to change without notice.

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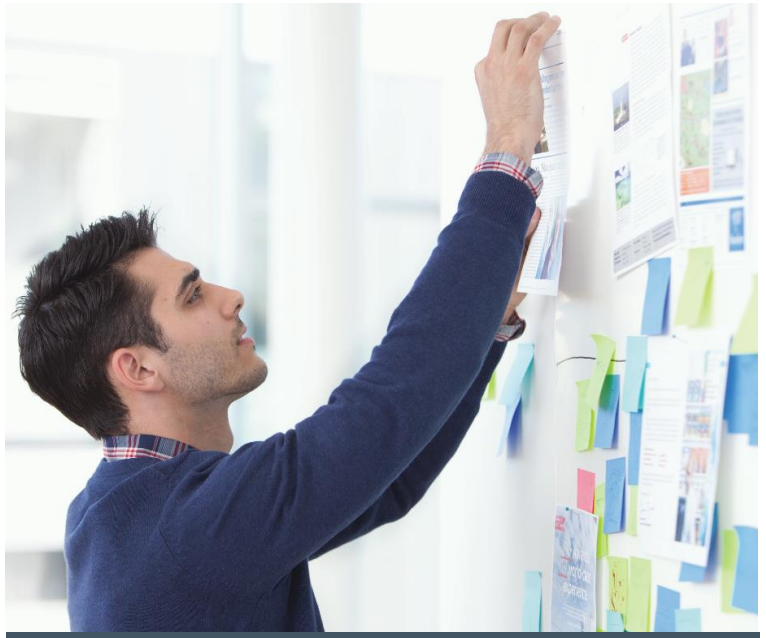
The evolution of application delivery is here

In the new world of application delivery

New digital technologies

New business models

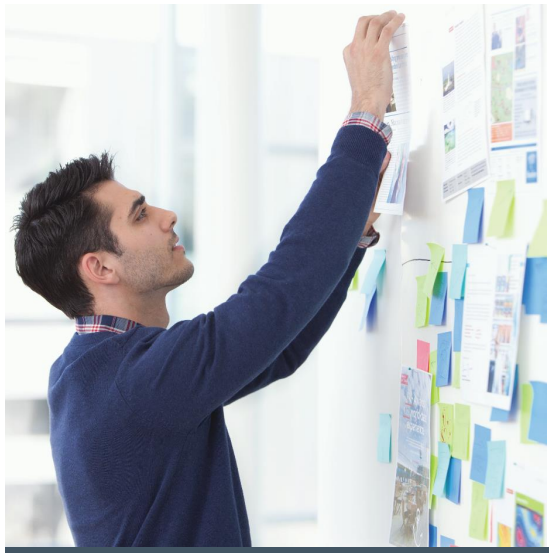


New delivery challenges

We need a new approach to delivering software

New digital technologies

New business models



New delivery challenges

Iterative	Agile/Scrum	DevOps/MQM
ALM,LR, PC, predictive defect convergence	Agile Manager, SRL	ALM NG, SRL

Predictive insights

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It's evolution, not revolution– Bi-Modal IT is key and here to stay

ALM.NET

Proven
Scalable
Workflow driven

ALM-Beta

Agile, Continuous
Delivery/Quality

Core IT

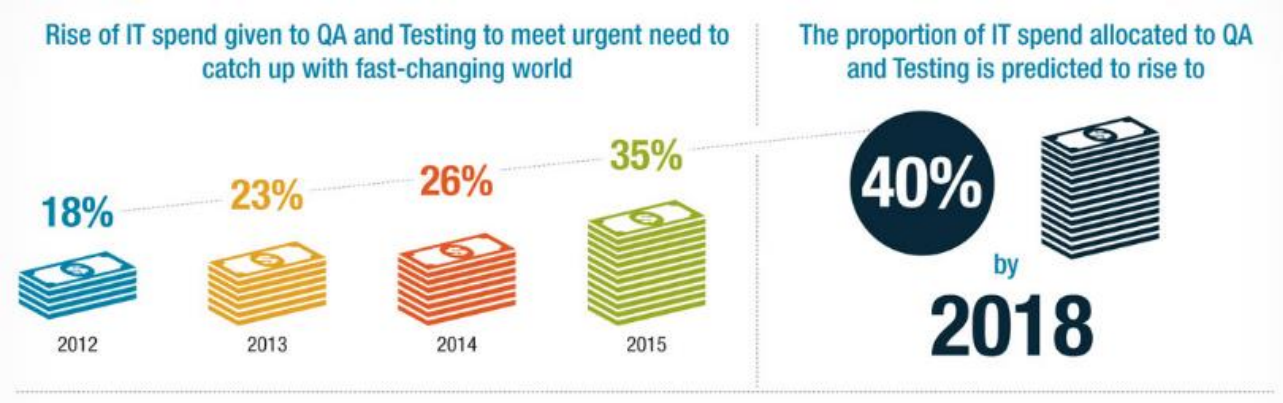
- Your "business backbone" Reliable, compliant, secure
- Plan, governed and approvals driven
- Built to last
- Waterfall and Hybrid delivery

Fluid IT

- Agile and fluid
- Innovation, brand, profit measures
- Think continuous, days, weeks
- Built to change
- Agile, Continuous delivery

"Emerging Mode 2 Practices in Bimodal Governance". Gartner, Jan 2016.

Quality is critical today and in the future



Executive Management Objectives with QA/Testing

1. Protect the corporate image
2. Increase quality awareness across all disciplines
3. Ensure End-User satisfaction
4. Increase overall software quality
5. Detect software defects before go-live
6. Implement quality checks early in the lifecycle

Top 5 technical challenges in Application Development

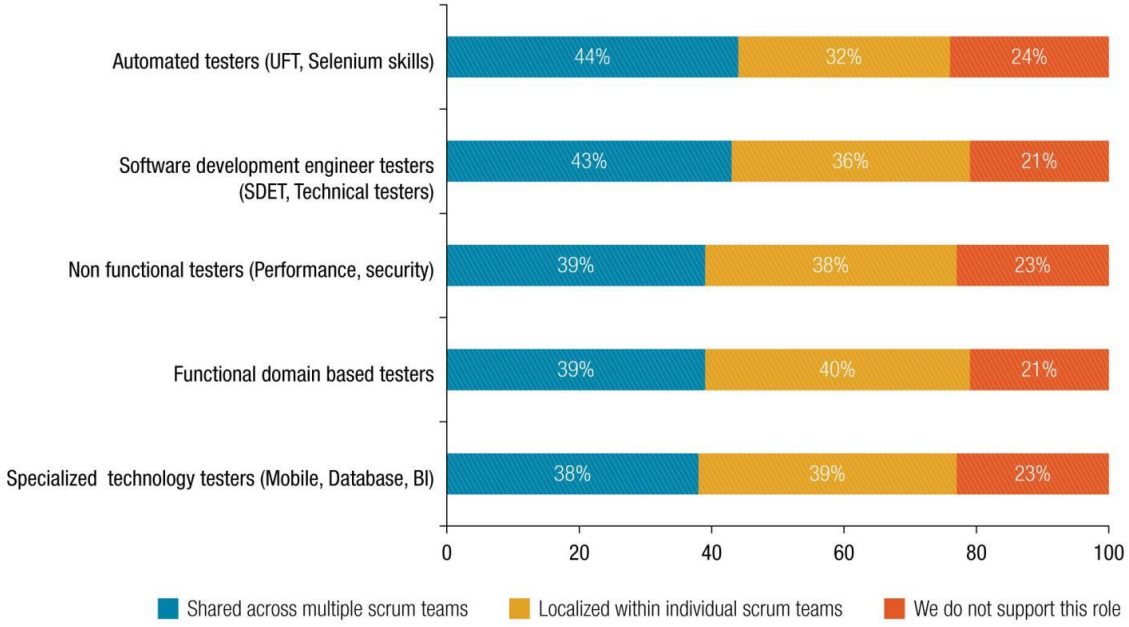
1. Reliance on manual testing
2. Overburdened Developers
3. Long lag-time between dev phases
4. Too much design complexity
5. Lack of access to test environments

Testers have an important role in agile

Driving a focus on quality throughout the lifecycle

- Collaboration between the Business and Development
  - User Acceptance Testing
  - Behavior Driven Development
- Architect and build test automation
- Integrate Continuous Test, into CI framework
- Refine and Validate Definition of Done
- Performance, Security

Tester Functions within Agile Teams



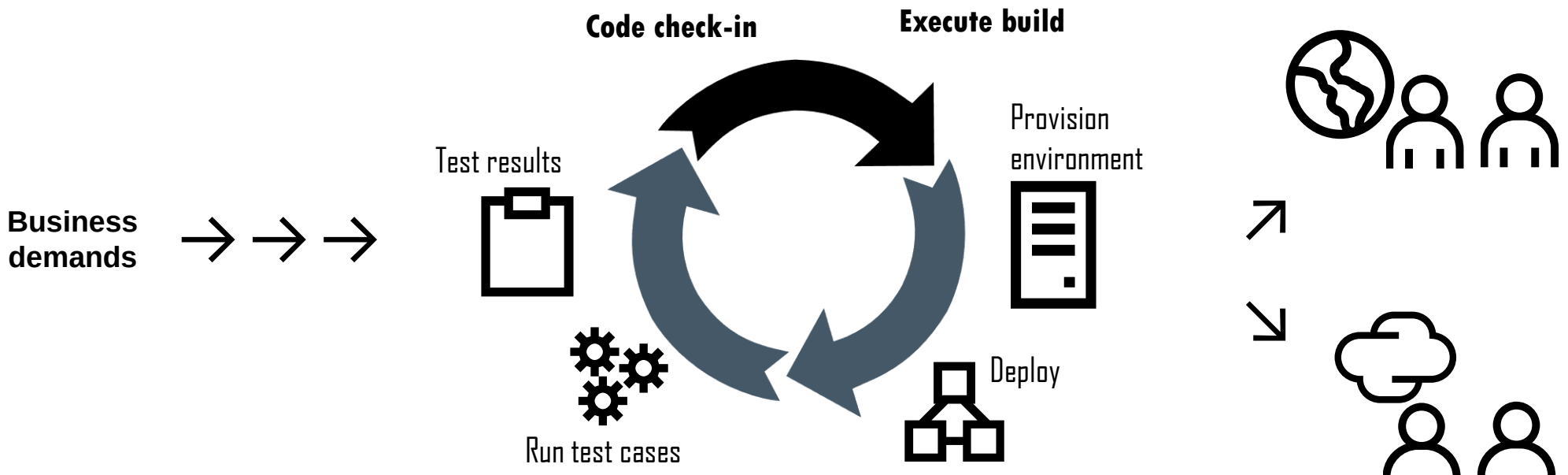
Source: 2015/16 World Quality Report – Sogeti/HP

Our core beliefs

- All tests should be stored as code, and versioned with the code
- Continuous integration, with quality being core throughout the entire lifecycle
  - Continuous Testing
- Lifecycle data empowers the team to make the best decisions
- No one size fits all methodology to support the enterprise (Agile, Iterative, Waterfall etc..)
- Open architecture; integrations, API
- A single platform for all core, project assets
- *Core project assets should be accessible on-demand, from any platform*

Continuous testing

Ensuring a quality-focus throughout the release pipeline



Automate test execution from CI

Intelligent testing

Automate test infrastructure

Network and service

Automated vulnerability and

Shared platform for better collaboration

HPE ALM

ViewContacts.Feature

Feature: ViewContacts

Check for the main contacts page

Also verify if the registered user is displayed

Background:

Given the user is successfully authenticated

Scenario: Allow the user to view a list of all contacts they have within their messaging environment

Given I have opened the application and navigated to the main contacts page

And I see the contacts page loaded

Step 1: Log into the main page of the system

Expected Result: The system welcomes the user and displays a list of available options

Step 2: The user selects to purchase a ticket

Expected Result: The system displays a form to allow the user to select origin, destination and travel date

Step 3: The user enters <origin city>, <destination city>, <departure date>, <return date>

Expected Result: The system displays a valid list of available air carriers, schedules and fares corresponding to the users submitted information

PurchaseFlights.Test

IDE

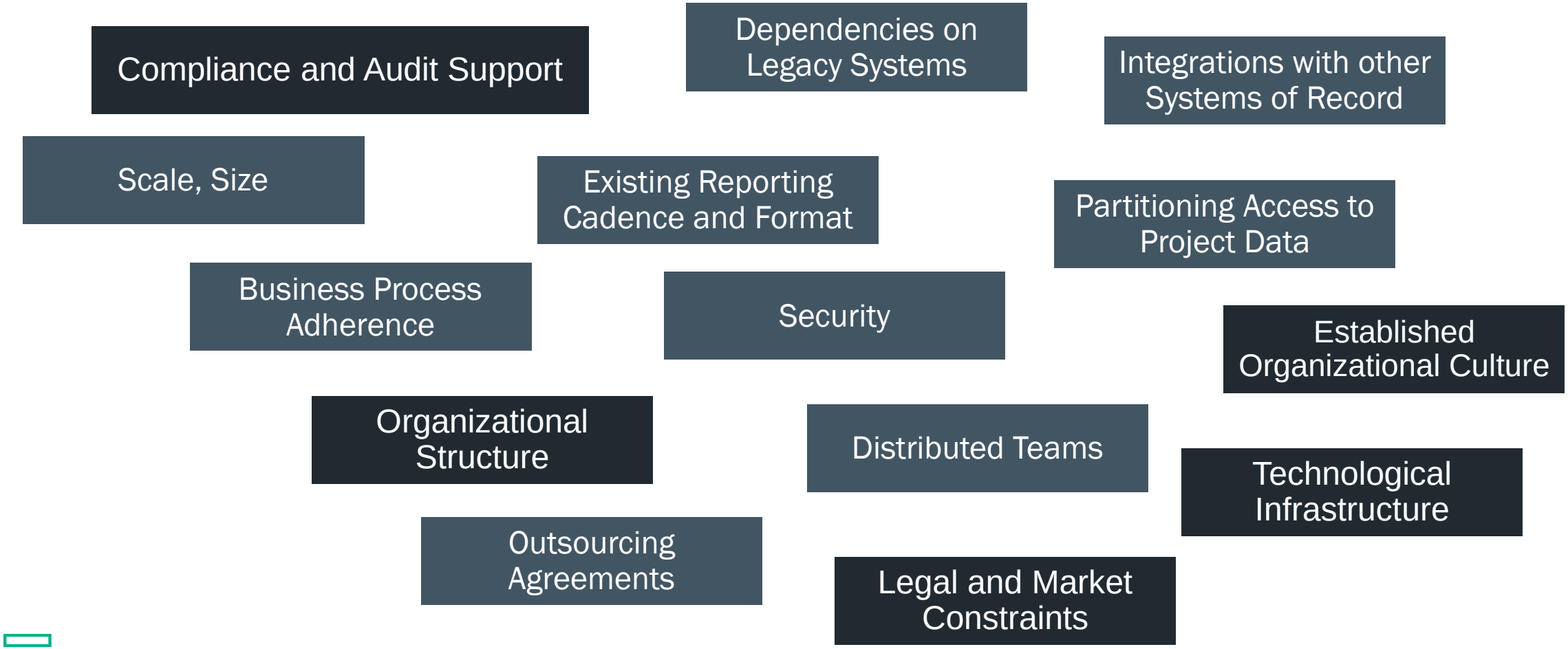
Feature.Java

ViewContacts.Feature

JUnit

Agile within the enterprise

Additional considerations



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Supporting Enterprise Agile in ALM

Scaling Agile to the enterprise; scaling the enterprise towards DevOps

Scaled Agile Framework (SAFe) support

Best practices architected into the platform

Open and extensible

- REST + Swagger documentation
- ALM Synchronizer
- Out-of-the-Box integrations

Policy and process guidance

- Visual Workflow, Business Rules

Easily share or partition project data with workspaces

Enterprise security and access controls

Scale up to 1000's of users

Access on any browser, any platform

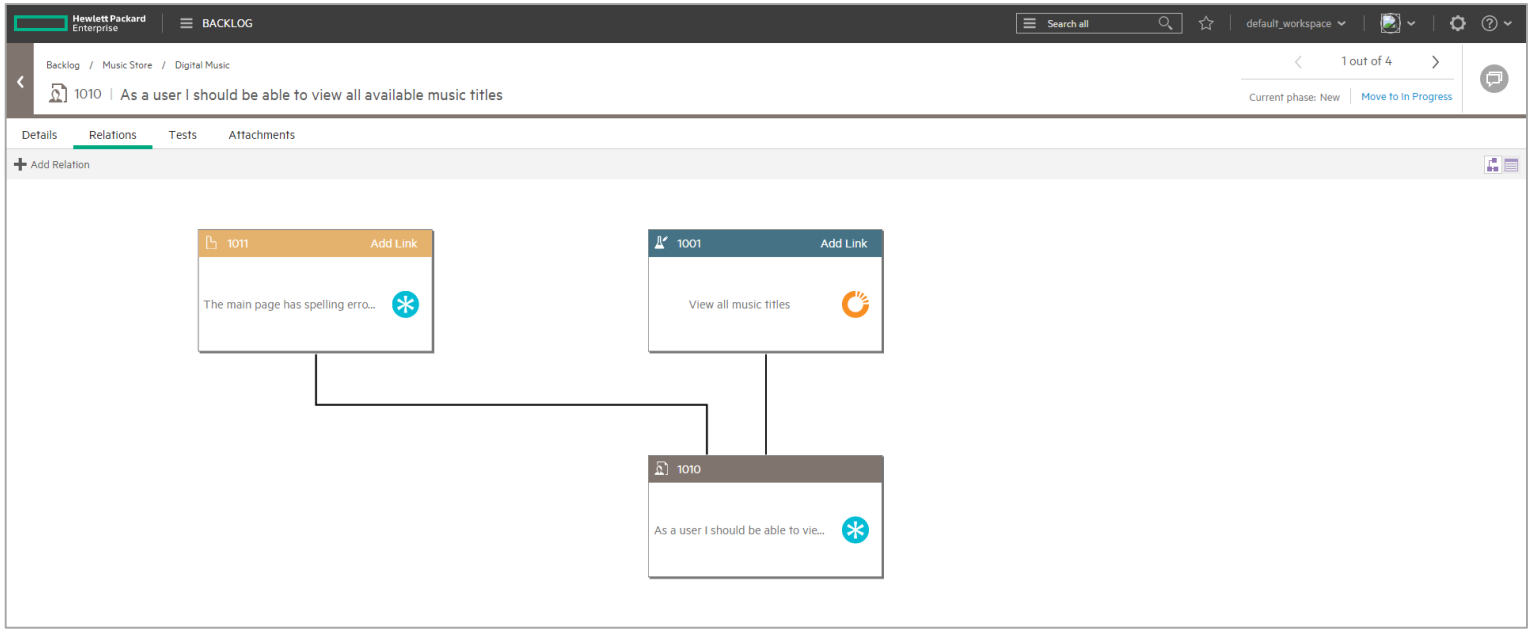
It’s about more than defect tracking

Relationships

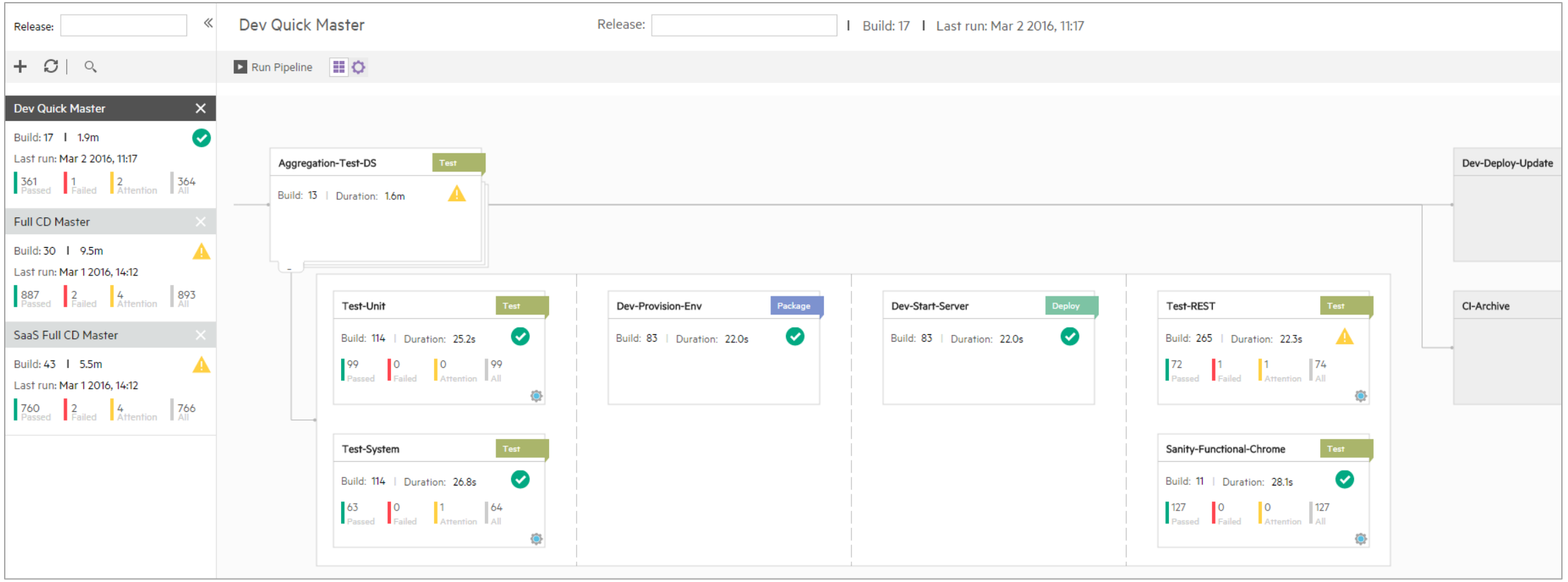
– Automated relationship management

– Better context to gauge change-impact

– Foster sharing/re-use



Aggregated view of quality across the lifecycle



CI test analytics

Tracking build quality pipeline

Drill down Test Runs

Continuing to embrace open source

Gherkin framework support

- Structured manual test format, allows for an easier transition to test automation

Jenkins

- Core to the execution architecture, and CI support

GIT

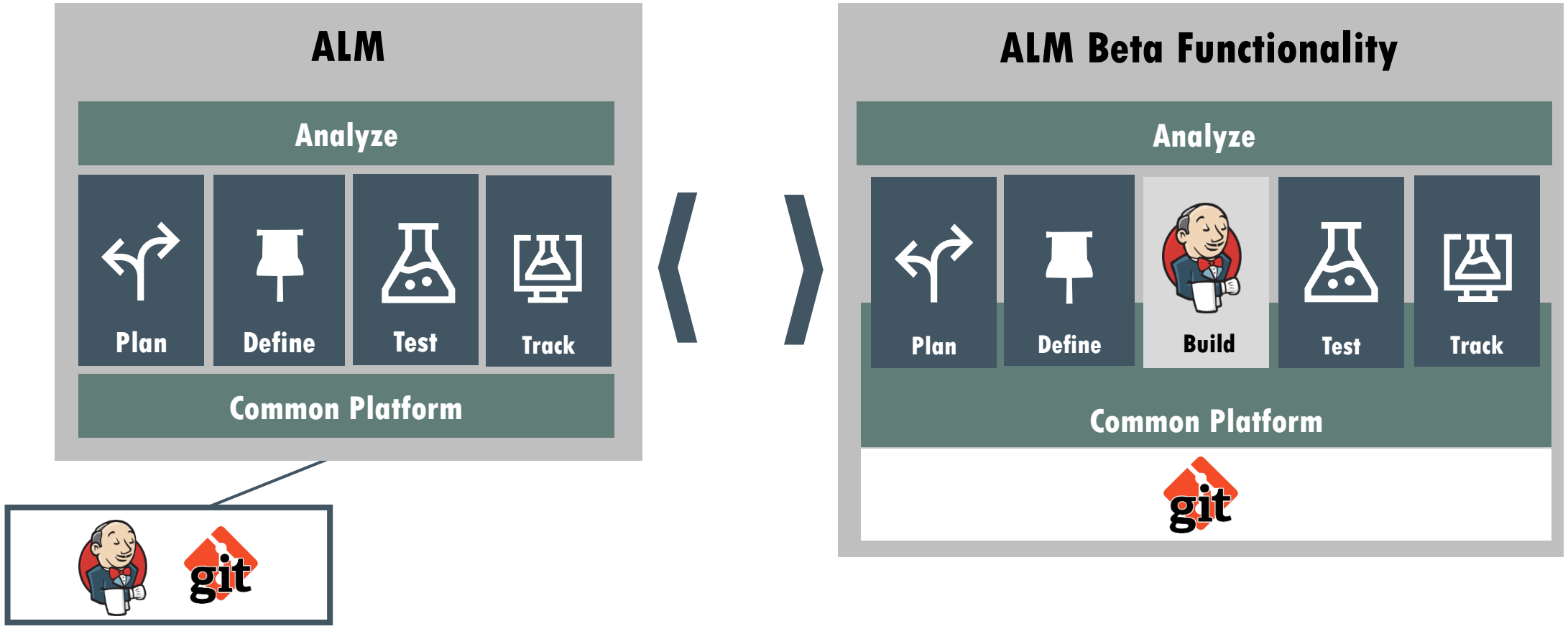
- Direct part of the underplaying ALM architecture

3rd party test execution, in addition to HPE products

- E.g. Selenium

HPE ALM Beta

HPE ALM beta



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Plan

Define

Build

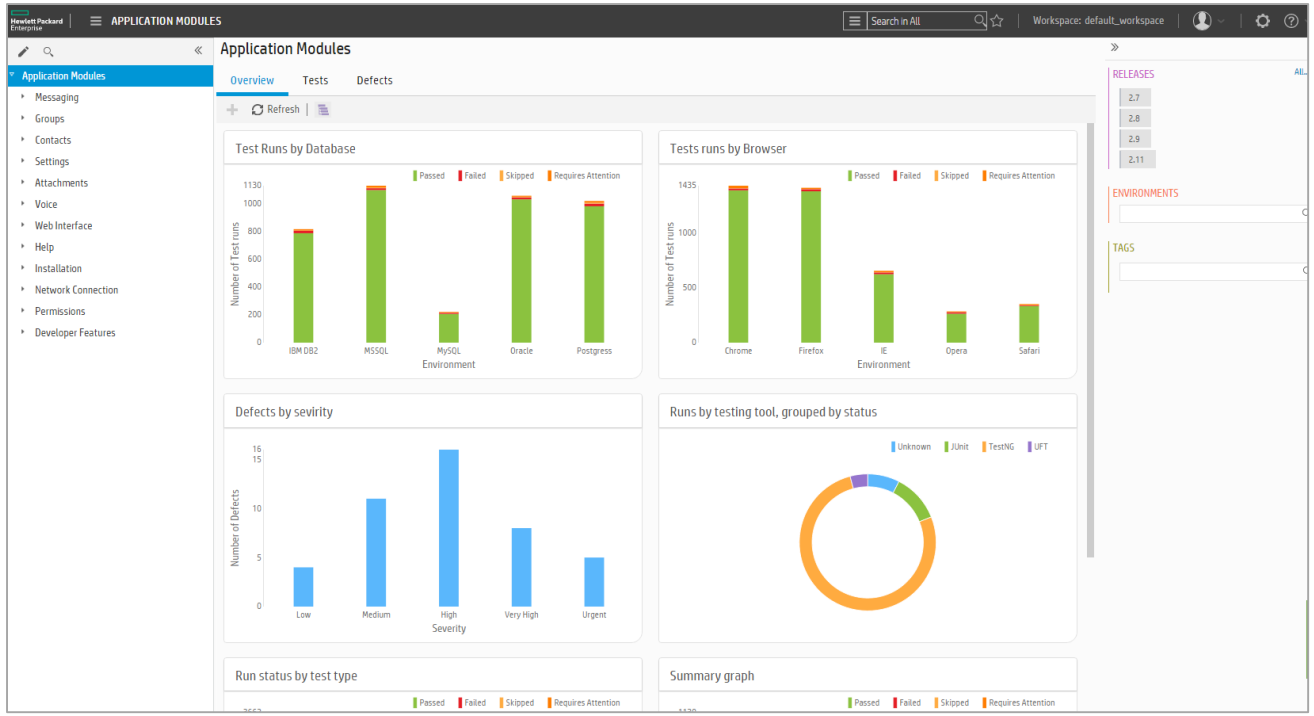
Test

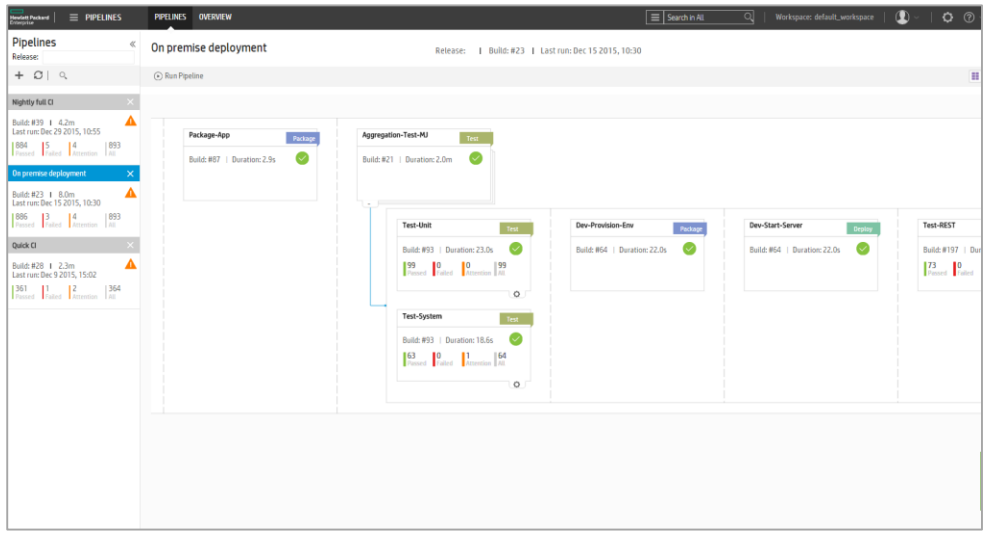
Track

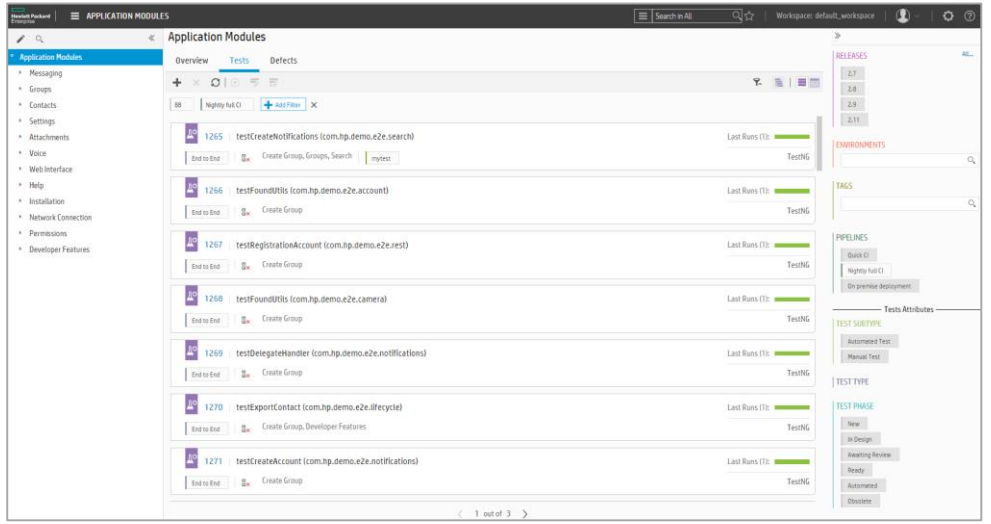
Hewlett Packard
Enterprise

Plan

Quickly assess progress



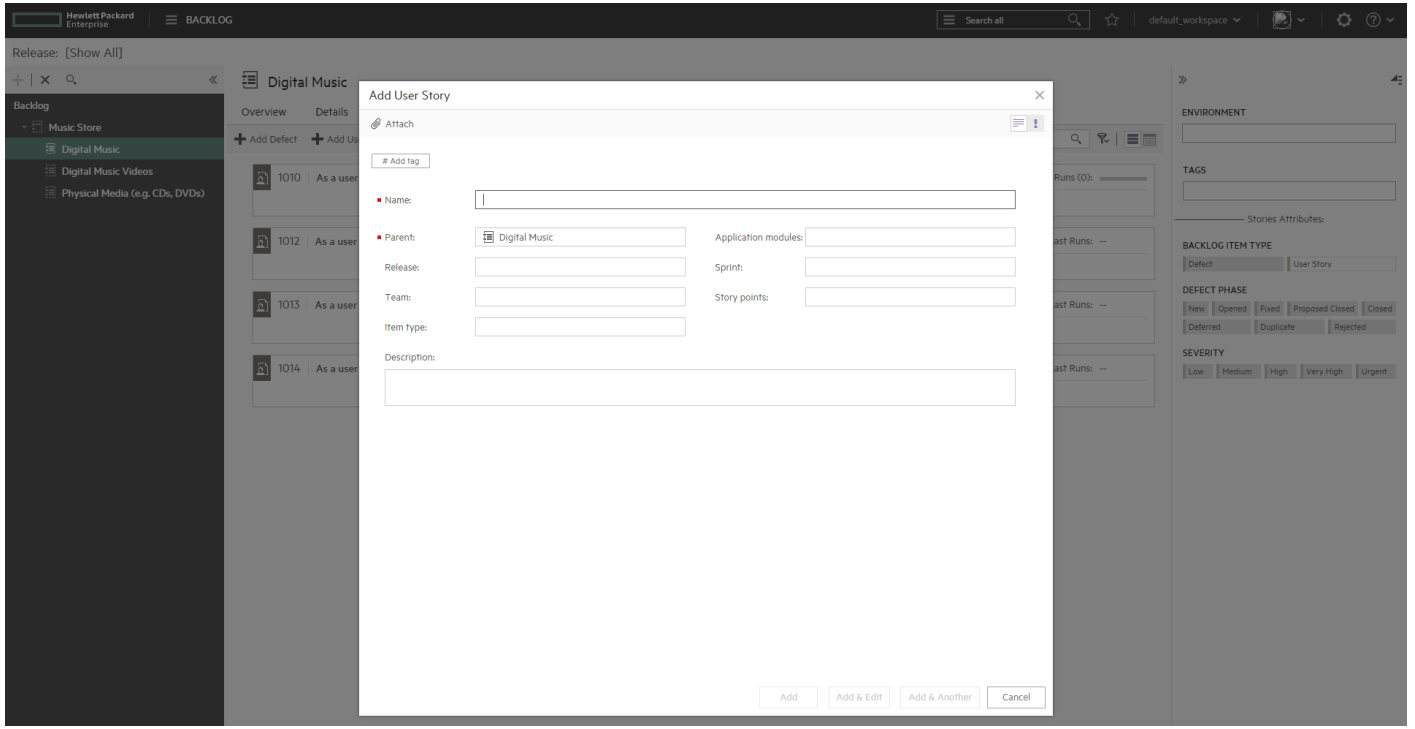




Define

Backlog items – user stories

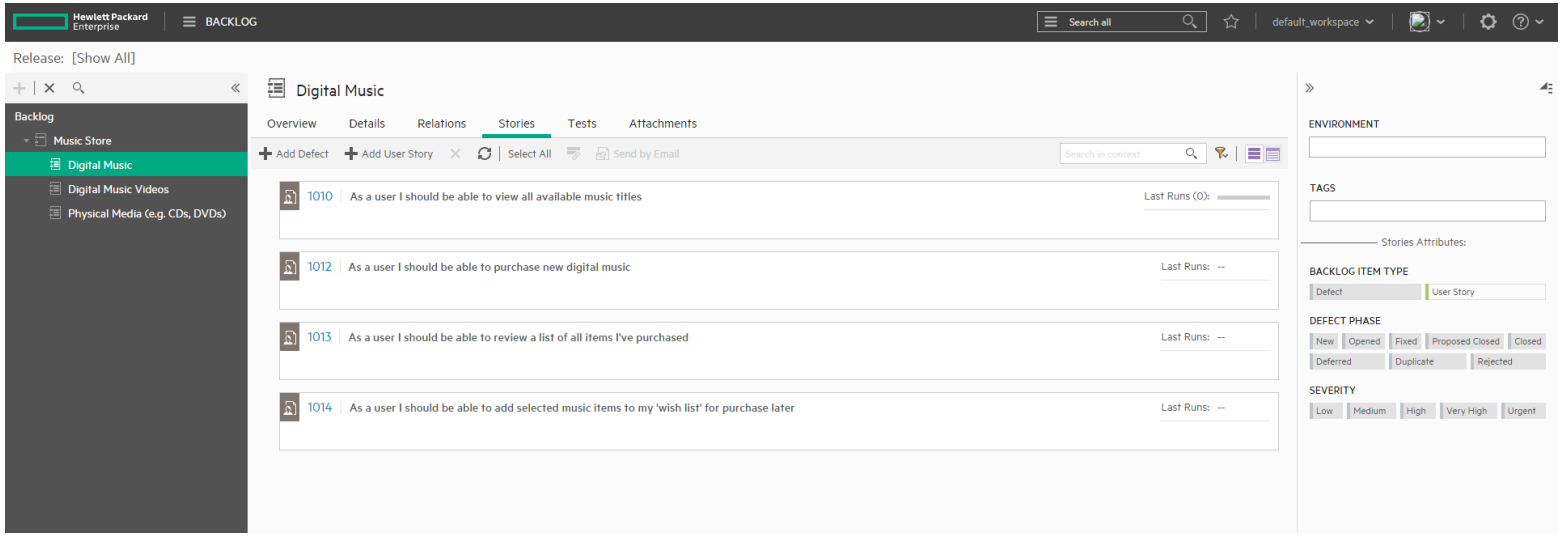
- Collaborative workspace to build and prioritize the backlog
- Standardization and centralization
- Customizable forms, fields and workflow
- Easily share and re-use backlog items
- Make more informed decisions about status and progress

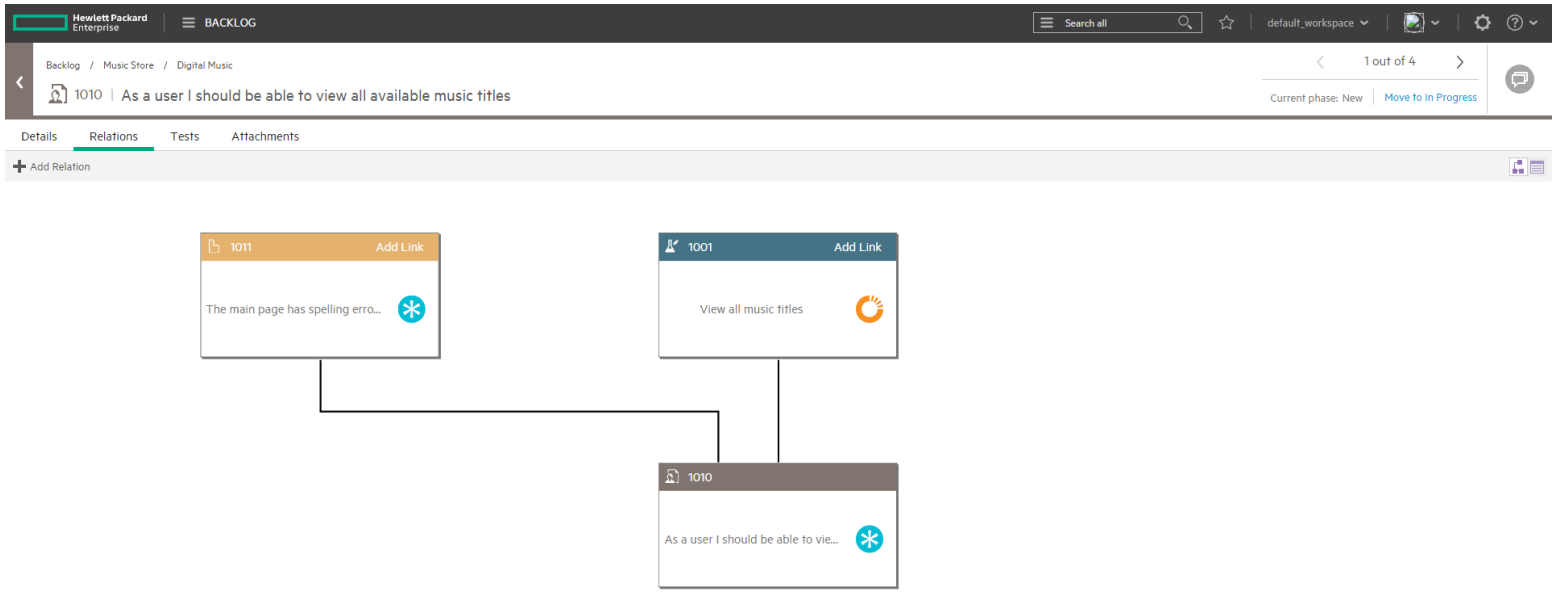


Define

Relationships

- Traceability across the lifecycle, across
  multiple asset types (e.g. test, defects, stories)
- Digitized workflow and policy enforcement
- Complete version control, change management





Build

Insight with collection of build data

Nightly Full CI

Build: #14

Last Run:
2 hs

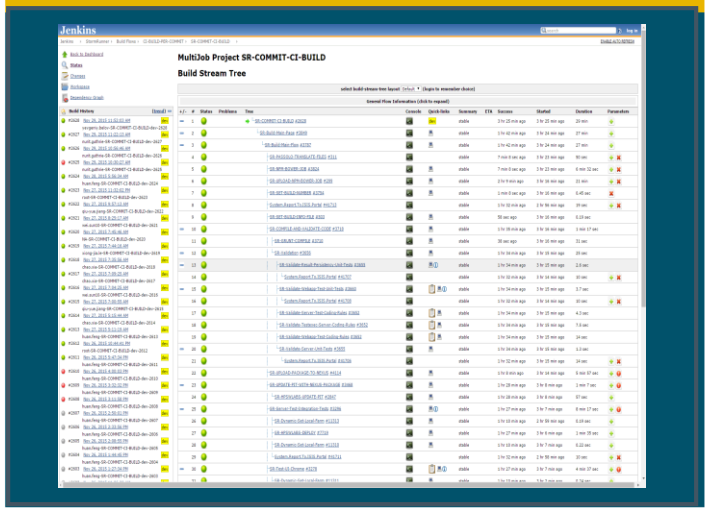
Run By:
SYSTEM

Duration:
4m 7 s

Tests: (893)			History:
883 Passed	6 Failed	4 Warn	

Jenkins

Build: #13



Quick CI

Build: #17

Last Run:
2 hs

Run By:
SYSTEM

Duration:
2m 0 s

Tests: (364)			History:
362 Passed	0 Failed	2 Warn	

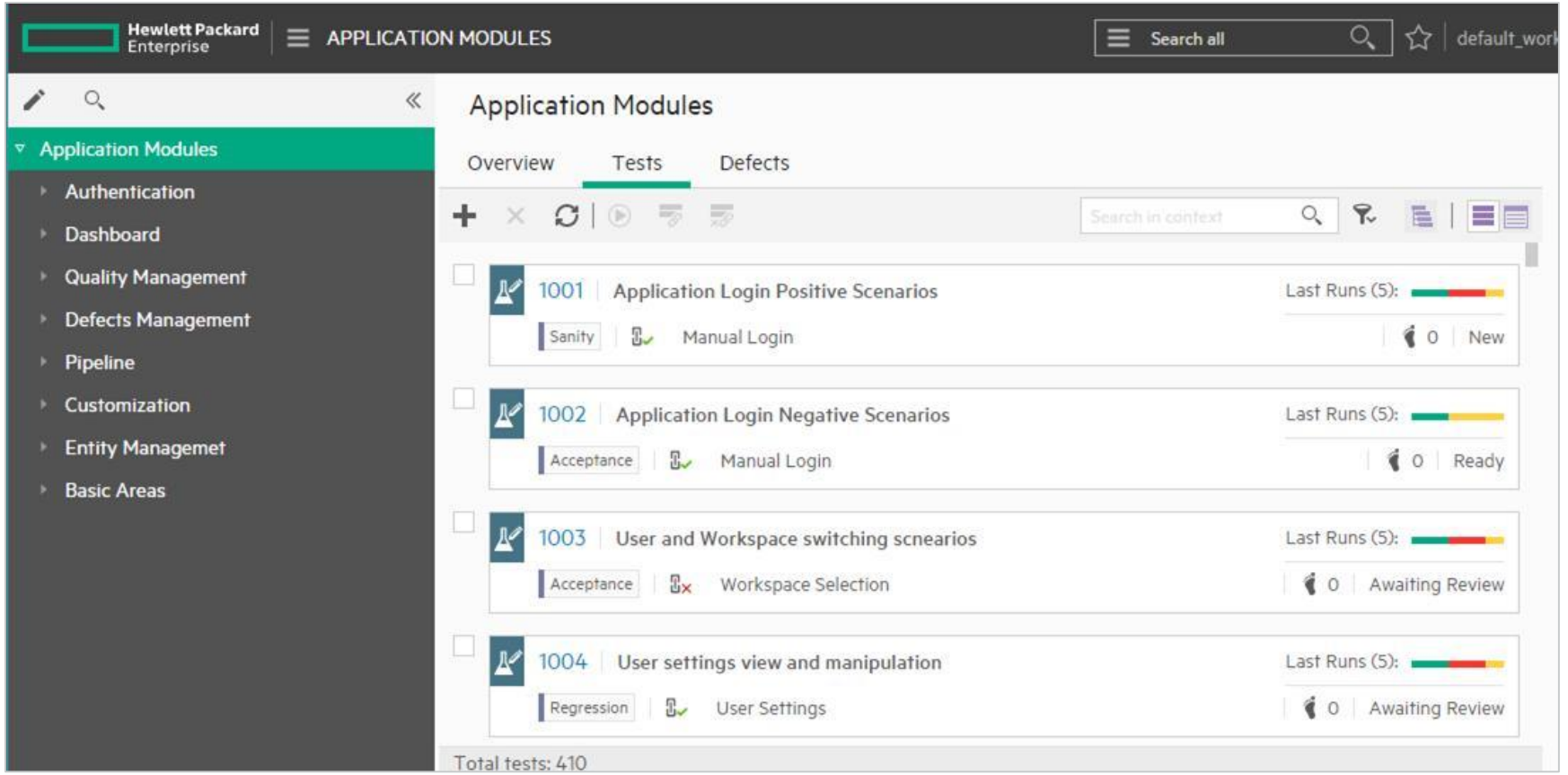
Join the beta

Test

Manage quality throughout the lifecycle

Manual test

- Test creation in text editor
- Tagging for efficient filtering
- Test metrics dashboard
- Optimized layouts



Environment configuration

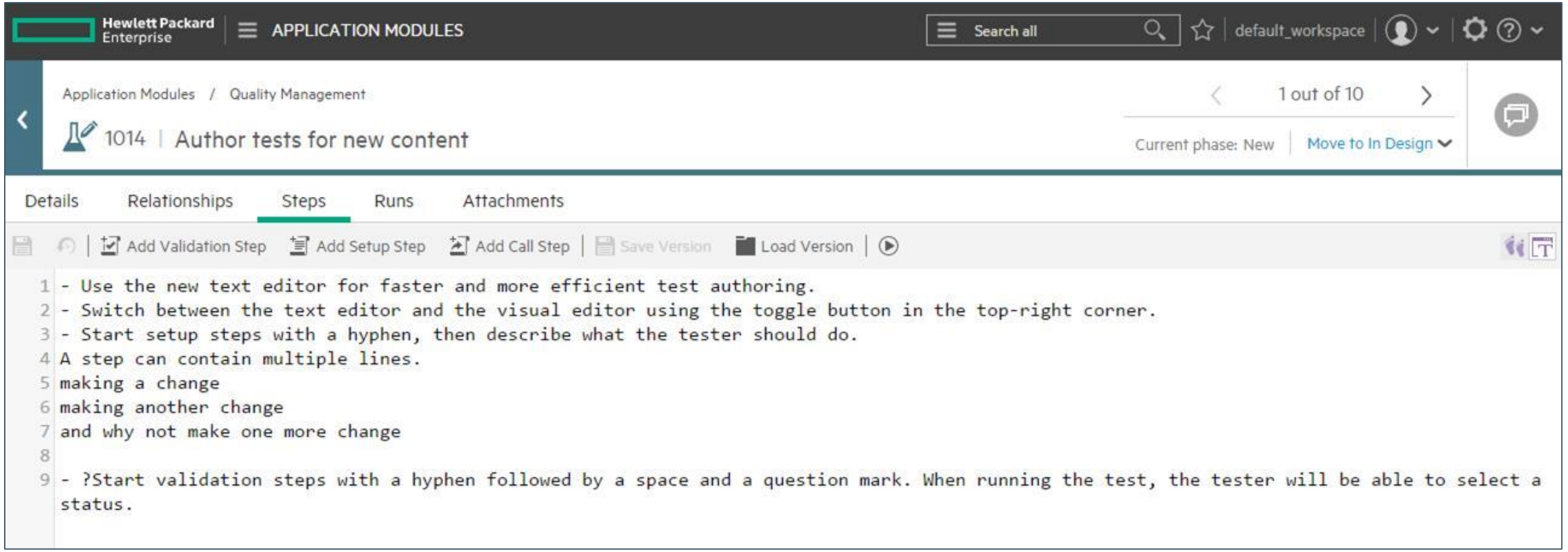
Jenkins as test execution engine

GIT for test repository and versioning

Business Rules State Engine

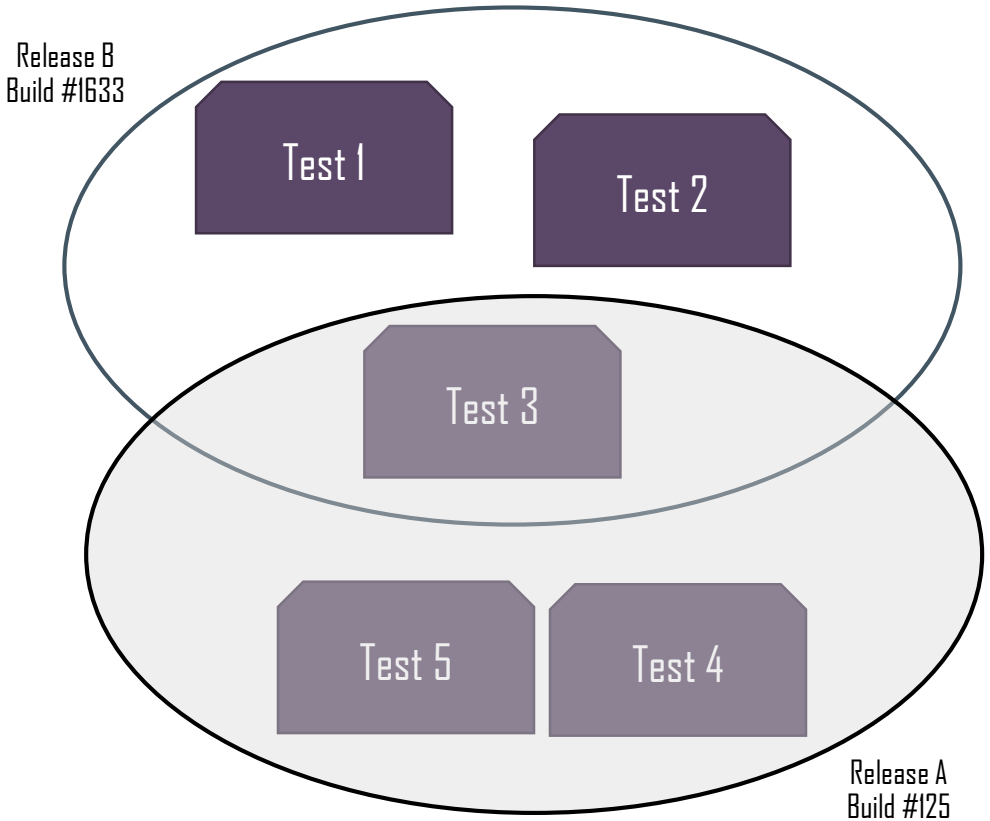
Test

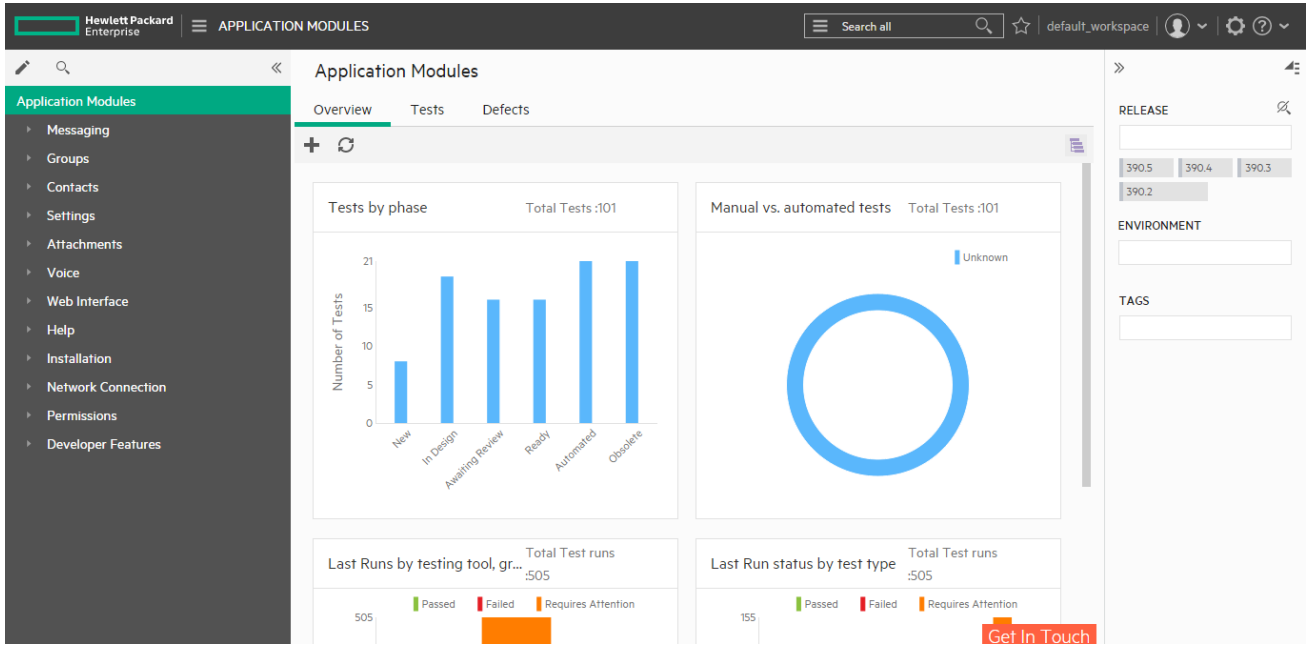
Develop tests in a structured language (gherkin)

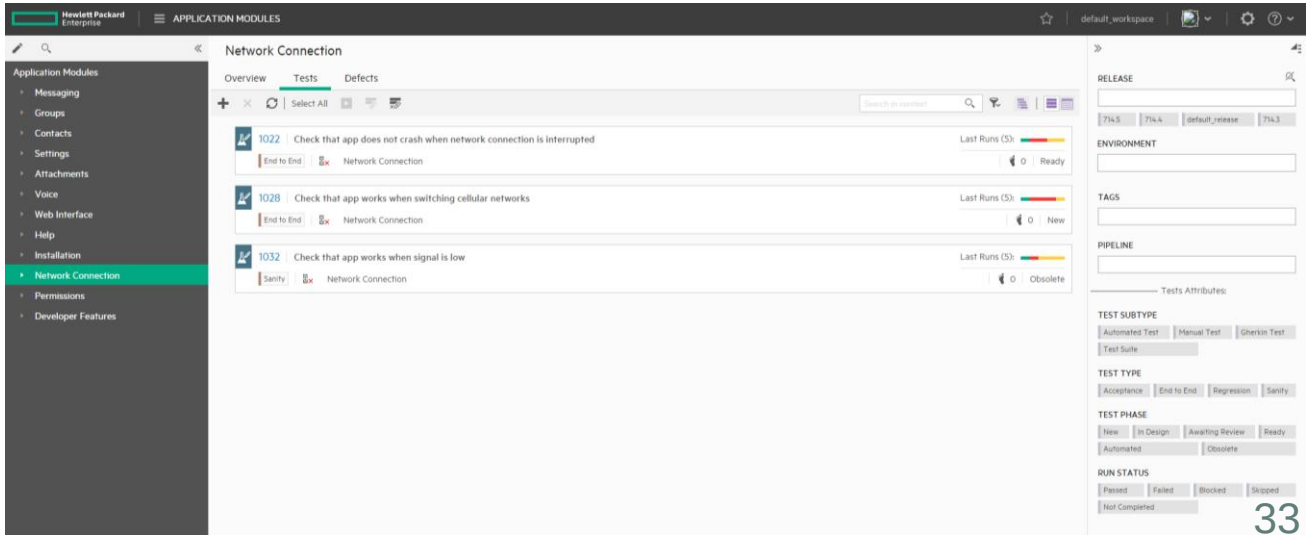


Track

View quality aggregation in context of your entire application







Demonstration

Now in Beta

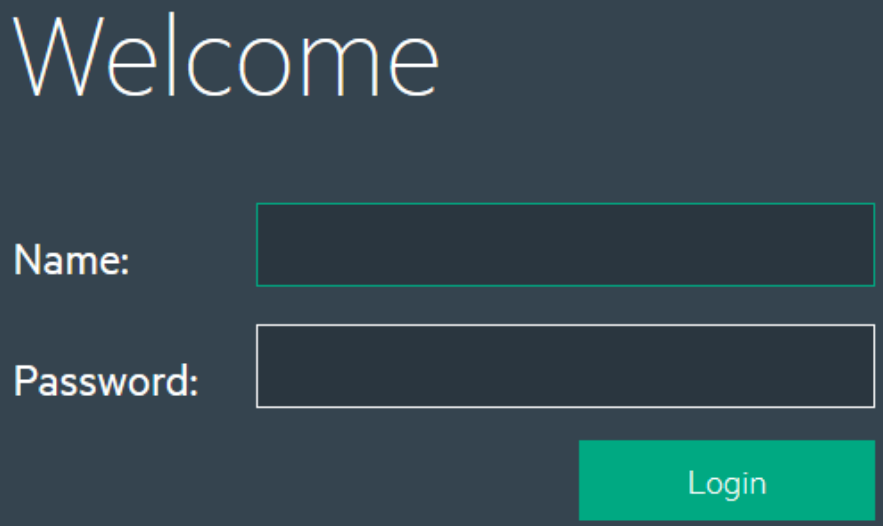
Welcome to the future

Next Generation ALM is now in Beta mode. In order to get your own tenant, e-mail us: lm_feedback@hpe.com

Public beta is live on SaaS, March 24th
April 4th On-Premise Download

Public beta is live on SaaS, March 24th

https://saas.hpe.com/signup/try/alm-beta



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Thank you

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