Quality Assurance Defect Management Process

Initial roll out: Finance, Beazley Digital Platform

v0.4[DRAFT] July 2022



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Context

- This document outlines Beazley's Defect Management process and best practice to be adopted across all IT enabled change delivery. The approach outlined is designed to provide visibility of all defects across product(s), platform(s) / value stream(s) and enterprise level ensuring all defects receive the appropriate attention enabling E2E traceability and compliance to audit and regulatory requirements.
- A key factor in the successful completion of QA activities is a well-managed Defect Management process. This involves
 collecting and processing information on defects that occur during static and dynamic testing and analysing that information so
 that trends and significant events are recognised. There are six core objectives to Defect Management:
 - 1. Ensure that all defects are logged and tracked with minimum impact to delivery timescales;
 - 2. Analyse defects to reduce their impact to the project, task or service, and allow reporting on the current test status;
 - 3. Maintain centralised control and prioritise the fix and retest of defects;
 - 4. Facilitate the workflow of a defect from creation through to resolution;
 - 5. Facilitate root cause analysis of defects to inform continuous process improvement; and
 - 6. Ensure engagement of all relevant stakeholders.
- As part of the Jira standards work currently being undertaken, we will be standardising our Test and Defect Management
 processes to ensure consistency across Beazley platforms / value streams and improve delivery quality using an effective and
 optimised process. We will start with implementing Defect Management followed by Test Management and process
 improvements.



Key Changes

- To consolidate and simplify the various defect workflows we have, we will be moving to a single dedicated defect workflow with the following key changes:
 - o Transition from Bug to Defect to keep naming convention consistent with test management toolset and reporting
 - o Introducing New Statuses (pg5) to simply and standardise under one workflow
 - Introducing mandatory* fields (existing and new) to allow for effective defect management reporting and drill down capability; this
 includes:
 - Platform
 - Product
 - Component
 - Build Version
 - Environment
 - Expected & Actual Results
 - Defect Severity & Defect Priority
 - Root Cause / Root Cause Description
 - Epic Link
 - o Implement Jira workflow automation logic. Few sample automation rules as follows:
 - Close parent when all sub-tasks have been completed
 - Auto close parent issue when all sub-tasks are done

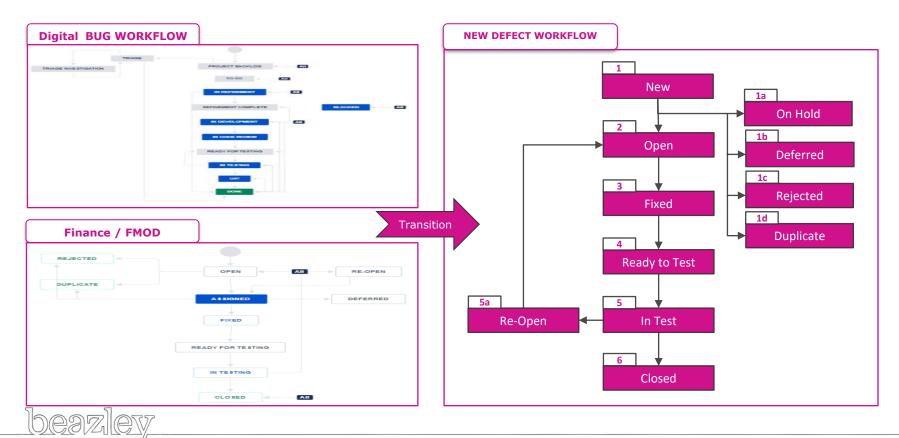
Next Steps:

- Andreas will migrate the existing 78 open Beazley Digital Bugs to the new Defect Standard as per mapping sheet pgs7-11 commencing Fri 8th July. The 1086 Closed Bugs will also be migrated at a later date to enable historical reporting.
- Andreas will migrate the existing 18 open Finance Bugs to the new Defect Standard as per mapping sheet pgs7-11 commencing Fri 8th July. The 235 Closed Bugs will also be migrated at a later date to enable historical reporting.
- Note: any existing custom dashboards or reports using the above will need to be remapped; there are a new set of standard dashboards which we will publish for your use.

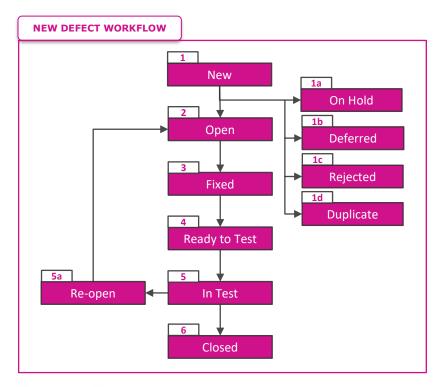


*Note: the proposed mandatory fields above will be made mandatory to the **Defect** issue type only.

Jira Defect Workflow(s) – Current vs New



Defect Workflow Summary

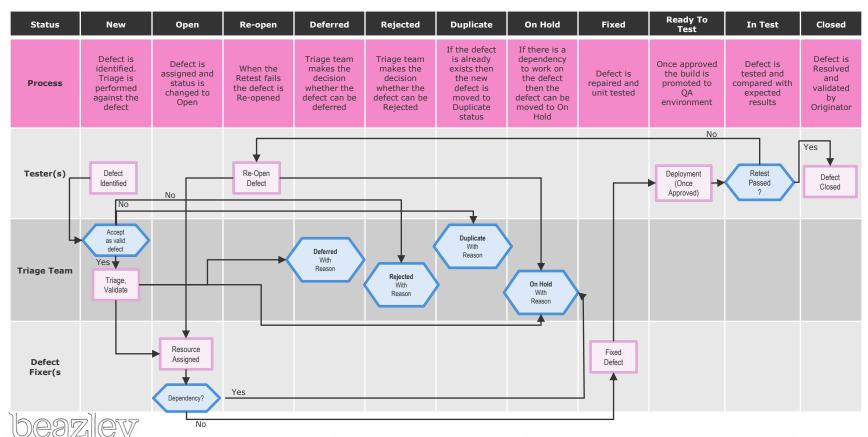


	Status	Process	Actioned By
1	New	Defect is identified. Triage is performed against the defect	Originator / Triage
1a	On Hold	If there is a dependency to work on the defect then the defect can be moved to On Hold	Triage
1b	Deferred	Triage team makes the decision whether the defect can be deferred	Triage
1c	Rejected	Triage team makes the decision whether the defect can be Rejected	Triage
1d	Duplicate	If the defect is already exists then the new defect is moved to Duplicate status	Triage
2	Open	Defect is assigned and status is changed to Open	Resolver
3	Fixed	Defect is repaired and unit tested	Resolver
4	Ready to Test	Once approved the build is promoted to QA environment	Resolver
5	In Test	Defect is tested and compared with expected results	Testers
5a	Re-Open	When the Retest fails the defect is Re-opened	Testers
7	Closed	Defect is Resolved and validated by Originator	Originator

Triage team consists of BA, Developers, Config and testers



Defect Workflow Process



BOLD	Mandatory field(s)		
	New Field		
	Exists in BUG and not in DEFECT		

DEFECT	BUG	Туре	BUG Values	DEFECT Values	Mapping / Suggestion
Platform	Platform	Drop Down			As per configuration
Product	Product	Drop Down			As per configuration
Product (BZD)	Product (BZD)	Drop Down			As per configuration
Project	Project	Drop Down			As per configuration
Component	Component	Drop Down			As per configuration
Sub-Components	Sub-Components	Drop Down			As per configuration
					Build version needs to be entered manually
Build Version					now. Once Octopus Deploy is integrated with
		Free Text			Jira this will be available in drop down
Summary	Summary	Free Text			
Environment	Environment	Drop Down			As per current configuration
Description	Description	Free Text			
Expected Results	Expected Results	Free Text			
Actual Results	Actual Results	Free Text			
Test Data		Free Text			Test Data details needs to be entered manually in here as free text
Defect Priority	Priority	Drop Down	Highest High Medium Low Lowest Normal Minor Trivial Moderate Critical Major Blocker	P1 – Blocker P2 – Major P3 – Medium P4 – Minor P5 - Trivial	Critical, Highest - P1 Blocker High - P2 Major Moderate - P3 Medium Normal, Low - P4 Minor Lowest - P5 Trivial
Defect Severity	Severity	Drop Down	Severity 1 – No Workaround Severity 2 – Regulatory or Financial Severity 3 – Workaround available Severity 4 – Small Change Request Severity 5 – Backlog Item	S1 – Critical S2 – Major S3 – Medium S4 – Low S5 – Minor	Severity 1 to S1 Severity 5 to S5

BOLD	Mandatory field(s)		
	New Field		
	Exists in BUG and not in DEFECT		

DEFECT	BUG	Туре	BUG Values	DEFECT Values	Mapping / Suggestion
Reporter	Reporter	Auto			
	Reporter (Business)	Drop Down			New non mandatory field
Assignee	Assignee				
					To link defect to Test - once
					Xray is implemented the test
Test ID					id will be populated
					automatically from test
		Free Text			execution.
Linked Issues	Linked Issues	Drop Down			
Label	Label				
Sprint	Sprint	Drop Down			
Attachment	Attachment				
Fix Version	Fix Version	Drop Down			
				Software	
				Design	
Dood Course				Requirements	When the defect is moved to
Root Cause				Infra/Environment	Fixed from Open, this field will
				Test	become mandatory to the
		Drop Down		Other	developer
				Software	
				Code – lack of unit / component test	
				Code Compatibility	
				Coding Error	
				Code - Lack of Code	
B				Code Pattern- error in pattern (base error)	
Root Cause Description				Failure to Adhere to effective code principles / standards	
				Failure to initialise or check data values	
				Inadequate error detection and recovery	
				Incorrect algorithm or computation	Once the Root Cause is
				Incorrect branch or loop	selected this field will be
		Drop Down		Interface problem between module or program	enabled

BOLD	Mandatory field(s)
	New Field
	Exists in BUG and not in DEFECT

DEFECT	BUG	Туре	BUG Values	DEFECT Values	Mapping Suggestion
				unnecessary embellishment	
				Code – Data Configuration issue	
				Code - Performance Issue	
				Database issue (eg., Indexing)	
				Software Configuration issue / Configuration – Application	
				Design	
				Design compatibility	
				Design/standards not met	
				Failure to fulfil design	
				Failure to meet stated requirement	
				Inadequate error detection and recovery	
				Incorrect algorithm or logic	
				Incorrect data structure or representation	
				Interface design problem between components or	
				subsystem	
Devil Course Devil deller				Over engineering or unnecessary	
Root Cause Description				System resource utilization or inefficiency problem	
				Requirements	
				Ambiguous, non unique, non testable	
				Incorrect assumption	
				Missing Requirement	
				Superfluous requirement	
				Incorrect Requirement	
				Unclear Requirement	
				Requirements	
				Ambiguous, non unique, non testable	
				Incorrect assumption	
				Missing Requirement	
				Superfluous requirement	
				Incorrect Requirement	
				Unclear Requirement	Once the Root Cause is selected
		Drop Down			this field will be enabled

BOLD	Mandatory field(s)
	New Field
	Exists in BUG and not in DEFECT

DEFECT	BUG	Туре	BUG Values	DEFECT Values	Mapping Suggestion
				Infra / Environment	
				Data quality issue	
				Build failure	
				Hardware Configuration issue	
				Recovery / exception issue	
				Security issue	
				Start up / restart services issue	
				Workload / stress issue	
				Environment Issue	
				Rulebook Issue	
				Access rights issue	
				Performance Issue	
Root Cause Description				Test	
Root Cause Description				Incorrect test condition / test case	
				Incorrect execution	
				Incorrect data	
				Invalid defect	
				Other	
				Business rule	
				Duplicate defect	
				Legacy / existing system or feature	
				Not Reproducible	
				Out of Scope	
				Туро	
				Reference Data	Once the Root Cause is selected
		Drop Down		Known Error / Bug - Application	this field will be enabled



BOLD	Mandatory field(s)		
	New Field		
	Exists in BUG and not in DEFECT		

DEFECT	BUG	Туре	BUG Values	DEFECT Values	Mapping / Suggestion
					When the defect is moved from Open to
Reason					Deferred, Duplicate, On Hold or Rejected
		Free text			this field will become mandatory
				Functional	
				Design	
				Requirements	
				Infra/Environment	
Defect Type				Test	
				Other	
				Non-Functional	The Defect Type field is new and the
				Regression	values should be selected based on the
		Drop Down		Automation	test that the tester is performing
Team	Team	Drop Down			As per configuration
EPIC LINK	EPIC Link	Drop Down			As per configuration
			Change		
	WorkType		BAU		This will remain as-is for User Stories. Not
			BAU - small change		required for Defect.
	Story Points				This will remain as-is for User Stories. Not
	Story Folints				required for Defect.
	Start Date				This will remain as-is for User Stories. Not
	Start Date				required for Defect.
	Due Date				This will remain as-is for User Stories. Not
	Due Date				required for Defect.



Defect Severity & Priority

Defect Severity / Priority descriptions						
Defect Level Severity		Descriptions				
Level 1 (S1)	Critical	The defect causes failure of a critical business process, critical functionality or critical data within a software or hardware system or sub-system (severe enough to prevent a system/sub-system or release going live). The defect does not have a workaround and must be fixed immediately.				
		A defect that creates a security risk – even if the end users do not see these.				
Level 2 (S2) Major		Defect that presents a systemic problem that prevents a core business process from completing with sufficient tolerances and/or affects core functionality or data for which there is no acceptable workaround.				
Level 3 (S3) Medium		Defect that does not have a significant adverse impact on the user experience and/or presents a problem impacting a core business process, functionality or data for which there is an acceptable workaround.				
Level 4 (S4)		Purely cosmetic (e.g. screen layout labelling etc. and/or has minimal impact on business processing either because little system functionality is affected else there is a good workaround for it.				
Level 5 (S5) Minor		Minor problem that will not be evident to the end user.				

Defect Priority / description						
Defect Level	Priorities	Descriptions				
Level 1 (P1)	Blocker	Critical defect with testing blocked or significant impact to test schedule / release. Urgent fix required within 1 day.				
Level 2 (P2)	Major	Very high priority defect effecting test execution; Urgent fix/ETA required.				
Level 3 (P3)	Medium	Priority defect – must be fixed ASAP as part of acceptance tests / exit criteria				
Level 4 (P4)	Minor	Low priority defect – generally cosmetic (Minor) or low business impact. Effort to made to fix and include in next sprint / release though not impacting acceptance tests / exit criteria				
Level 5 (P5)	Trivial	Fix on best endeavours basis.				

The priority of a defect indicates the urgency of a defect to the testers and the impact on the rest of testing. The tester raising the defect will assign a priority which may change after further investigation.



The following list of components will need to be managed centrally to ensure consistency in labelling and reflect any changes:

BZD (to be reviewed)

Software
Reporting
Referral Task
Process
Other
Integration
DRC Testing Metrics
Data
Automation
Access And Identity

Agresso FTS LES db FDM ADM TDM WPS Upgrade FIS get Paid Imburse Prevaro Autorek Concur OneSum X QMA

Finance IFRS WPS (Acturial) BdxHighGear E2E Rec Policy Admin system Legacy Policy Admin system Claim Center Alteryx/Xceptor PowerBI (Power Platform) AlphaTax Premium Pro AuditBoard

Finance

FCF - Financial Ctrl
Framework
ERP
EPM
Treasury Management
Billing system
Disclosure Management
Payroll systems



The following list of components will need to be managed centrally to ensure consistency in labelling and reflect any changes:

MyBeazleyUS								
PRODUCT	COMPONENT	PRODUCT	COMPONENT	PRODUCT	COMPONENT			
PRODUCT	BBR v1 BBR v1 Documents BBR v1 Schemes BBR v1 DS Clearance	PATTERN	Client Pattern Beazley US Pattern Beazley US Pattern Data Beazley US Pattern Data Services Beazley US Pattern Local Sequel Patterns Rulebook Quoting Website Rulebook Service Website Rulebook Data Services Rulebook Servers Rulebook Author Rulebook Authoring Server Rulebook Maintenance Website Package Installer Rulebook Core Platform Rulebook Custom Functions Rulebook Patterns	INTEGRATONS	Insight - MSA CRM BZWIN**TBC FTS LES Agresso BI Claims Center**TBC AWS Release Pipeline			



The following list of components will need to be managed centrally to ensure consistency in labelling and reflect any changes:

MyBeazley US/UK/ROW								
PLATFORM	PRODUCT	COMPONENT	PLATFORM	PRODUCT	COMPONENT			
MyBeazley International	myBeazley Canada	ML Canada v1 ML Canada v1 Documents ML Canada v1 Schemes Clearance Kynd Lineage Navision		Applied for all V2 products	SL Covers SL Covers Canada SL Covers French SL Covers German SL Covers Singapore SL Covers Spain SL Pattern SL Pattern Canada SL Pattern German SL Pattern Singapore			
	myBeazley Singapore	SL Singapore v1 SL Singapore v1 Documents SL Singapore v1 Schemes						
	myBeazley CML Spain	SL Spain v1 SL Spain v1 Documents SL Spain v1 Schemes	MyBeazley International		SL Pattern Spanish PI Product v1 PI UK v1 PI Bluefin v1 Documents			
	myBeazley PI Germany	PI Germany v1 PI Germany v1 Documents PI Germany v1 Schemes		myBeazley PI UK	PI Bluelli VI Documents PI UK v2 Documents PI UK v3 Documents PI UK v3 Documents			
	myBeazley CML France ML FR v1 ML FR v1 Documents ML FR v1 Schemes				PI UK v4 Documents PI UK v5 Documents PI UK v1 Schemes PI UK v1 Service			
	myBeazley CML UK	ML UK v1 ML UK v1 Service ML UK v1 Documents ML UK v1 Schemes		myBeazley PI France	PI France v1 PI France v1 Documents PI France v1 Schemes			

beazley

The following list of components will need to be managed centrally to ensure consistency in labelling and reflect any changes:

	MyBeazley US/UK/ROW									
PLATFORM	PRODUCT	COMPONENT	PLATFORM	PRODUCT	COMPONENT					
MyBeazley International	myBeazley MedMal	PeMedMal v1 PeMedMal v1 Documents PeMedMal v1 Schemes			Client Pattern Rulebook Quoting Website Rulebook Service Website Rulebook Data Services Rulebook Servers Rulebook Author					
	myBeazley PCG AUS	PCGAusEvents v1 PCGAusEventsAltamont v1 Documents Aus Events Aus Events Altamont	MyBeazley International		Rulebook Authoring Server Rulebook Maintenance Website Package Installer Rulebook Core Platform Rulebook Custom Functions					
	myBeazley PCG UK	PCGEvents v1 PCGEvents v1 Documents Events Events Matrices		Applied for all V2 \products	Rulebook Patterns Insight Unirisx Bottomline Bottomline V-series					
	myBeazley PCG US	PCGUSEvents v1 PCGUSEvents v1 Documents US Events			Post Code FTS LES					
	myBeazley TV&Film	Package v1 Package v1 Documents Package v1 Schemes			Agresso BI Claims Center Ceded RI					
	myBeazley Marine	MarinePC v1 MarinePC v1 Documents MarinePC v1 Schemes			Strategic Reporting Azure Infrastructure Release Pipeline					



The following list of components will need to be managed centrally to ensure consistency in labelling and reflect any changes:

MyBeazley US/UK/ROW							
PLATFORM	PRODUCT	COMPONENT					
	myRate	MLPackage Product v1 MLPackage Product v1 Schemes Allegiance BPI Extractor_Rulebook BI					
Beazley Rating	Safeguard & DWP	SafeGuardDWP Documents v1 SafeGuardDWP Product v1 SafeGuardDWP v1 Schemes					
	Common components	Azure Infrastructure Release Pipeline					



Defect Attributes by Status

М	Mandatory			
0	Optional			
Р	Protected			
Н	Hidden			
D	Default			

Field	New	Open	Re-Open	Deferred	Duplicate	Rejected	On Hold	Fixed	ReadyToTest	InTest	Closed
Platform	М	0	Р	Н	Н	Н	Р	Р	Р	Р	Н
Product	M	0	Р	Н	Н	Н	Р	Р	Р	Р	Н
Product (BZD)	0	0	Р	Н	Н	Н	Р	Р	Р	Р	Н
Project	D	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н
Component	0	0	Р	Н	Н	Н	Р	М	Р	Р	Н
Sub-Components	0	0	Р	Н	Н	Н	Р	Р	Р	Р	Н
Build Version	М	0	Н	Н	Н	Н	Н	0	Р	Р	Р
Summary	М	0	0	Р	Р	Р	Р	Р	Р	Р	Р
Environment	M	0	0	Н	Н	Н	Н	Р	Р	Р	Р
Description	М	0	Р	Р	Р	Р	Р	Р	Р	Р	Р
Expected Results	М	0	Р	Р	Р	Р	Р	Р	Р	Р	Р
Actual Results	M	Р	0	Р	Р	Р	Р	Р	Р	0	Р
Test Data	0	0	0	Р	Р	Р	Р	Р	Р	0	Р
Defect Priority	M	0	0	Р	Р	Р	Р	Р	Р	Р	Р
Defect Severity	M	0	0	Р	Р	Р	Р	Р	Р	Р	Р
Reporter	D	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
Assignee	0	M	М	Н	Н	Н	М	М	М	М	Р
Test ID	М	0	0	Н	Н	Н	Н	Р	Р	Р	Р
Linked Issues	0	0	0	D	D	D	D	0	0	0	Р
Label	0	0	0	0	0	0	0	0	0	0	0
Sprint	0	0	Р	Р	Р	Р	Р	0	Р	Р	Р
Attachment	0	0	0	0	0	0	0	0	0	0	0
Fix Version	0	0	Р	Р	Р	P	P	М	Р	Р	Р
Root Cause	Н	Н	Н	Н	Н	Н	Н	M	Р	Р	Р
Root Cause Description	Н	Н	Н	Н	Н	Н	Н	M	Р	Р	Р
Reason	Н	Н	Н	М	М	М	M	Р	P	P	Р
Defect Type	0	0	0	Р	Р	P	P	Р	Р	0	Р
Team	0	0	0	Р	Р	P	P	Р	Р	Р	Р
EPIC LINK	M	0	Р	Р	Р	Р	Р	Р	Р	Р	Р



Clarifications

- The preferred route to creating a defect is via Xray or Zephyr test management plug-ins; all defects should be linked to a test ID and tests linked to a story to enable full traceability
- Defects identified via exploratory testing should be linked to Story/Epic
- Defects identified outside of the sprint are managed using Epic Link and Fix / Release version.
- Defect Severity and Defect Priority fields will be entered by Testers while logging the defect
- Once a defect is set to fixed the Root Cause and Root Cause Description should be set by the individual who has fixed the defect.
- To support access to JIRA by Third Party organisations, user accounts will be created so defects can be assigned to third parties and a notification is emailed to them. There are some third parties that may already have a Beazley network account or access to the Beazley network from Citrix etc. Where appropriate these third parties should continue to use this method to access JIRA.
- Test and Defect traceability will be established from OKRs > Defect(s) using our standard dashboard setup
- Environment defects will be logged via the Environment list configuration
- Production (software) related defects logged via ServiceNow will be logged in Jira in the usual way until we have a working bi-directional integration.
- "Test ID" field is used to link defect to Test once Xray is implemented the test id will be populated automatically from test execution.
- · Once triaged, defects will be assigned to the individual setup as default for the component
- Use **Deferred** status for a defect which cannot be resolved within the sprint and/or maybe classified as a Change Request (CR).
- Use On Hold status for a defect where a dependency needs to be met before it can be resolved or where waiting for some clarification.

