Testing -Approach and status





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Context

Ensuring the safety and functionality of DPS is delivered through a robust testing framework deployed by Velonetic, LIMOSS, and Velonetic's customers, consistent with the best practice of agile builds.

The framework consists of a multi-layered test plan that aims to: 1) Test all elements of DPS from integration and basic stability to business suitability; and

2) Repeat test through regressions and defect management cycles to further strengthen our confidence in DPS prior to cutover.

Multiple layers of testing are deployed throughout the release cycles:

- System Integration (SIT): to confirm different code releases integrate and work well together;
- Non-Functional (NFT): to confirm the system is resilient, reliable, stable, and secure;
- User Acceptance (UAT): Is the DPS platform capable of performing the business tasks it is designed for, and is it doing it properly;
- Business Operations Acceptance (BOAT): to confirm that the DPS performs to back-office expectations, and there is operational resilience; and
- **Customer :** Through 3 pillars (Vanguard, LIMOSS Coordinated, and Enhanced) confirm that the market (and its vendors) are satisfied and comfortable with using the platform.

Testing has been ongoing for over a year, and, across the different test layers, DPS will go through a rigorous process covering over 20 weeks of remaining repeat testing by DXC, Velonetic, and the market ensuring confidence in the platform and satisfaction of the participants well before the cutover window.



Velonetic



- This document aims to:
 - Explain our testing framework:
 - Introduce our testing approach, and how different test layers overlap and/or handover build increments sequentially.
 - Deep dive into each test layer, elaborate on entry and exit criteria as well as a summary of how each is conducted.
 - Provide high-level status update across each test layer.
 - Provide zoom-ins on select topics including clarity on our vendor testing and EDI testing approach.

2 Share results from previous test cycles

- Deep dive into PI-specific historical performance by testing layer (incl. number of tests run, defects identified,
 - and status etc.).]

Results to be updated periodically and published with subsequent test cycles

Contents



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- Introduction to testing approach
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Testing stage status deep-dives

Appendix

- Zoom in on NFT
- Zoom in on Vendor testing
- Reach-back testing approach
- Zoom in on EDIs
- Data migration assurance
- Constraints on dual run

• High-level status update across the test phases

To be refreshed with every cycle

Part 1: Testing framework





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Key principles underpinning our testing framework

- 1) A multi-layered testing framework deployed sequentially and iteratively to each testing cycle to de-risk the program
- 2 SIT¹, UAT², NFT³ testing by internal teams aims to identify and address functional and non-functional defects before moving into Customer Testing
- 3 BOAT⁴ testing (heavily linked with UAT) aims to similarly test and de-risk back-end functionality
- 4 Vanguard spearheads Customer Testing, and provides early access to test connectivity, functionality and business scenarios. While Vanguard is de-risked by previous testing phases, it is early-testing and we expect to uncover defects ahead of wider Customer Testing
- 5 LIMOSS Coordinated and Enhanced Customer Testing are the final stages of testing, allowing market participants to get a detailed understanding of DPS and provide assurance ahead of cutover
- Functional testing (UAT, Vanguard and Customer Testing) utilises a list of 150 comprehensive business scenarios covering >90% of core business requirements (with >10k individual test scripts). The business scenarios will be tested incrementally in line with the 4 distinct test cycles
- 7 Each cycle's testing includes testing of both newly released and all previous cycles' (regression testing) functionality
- 8 Defects uncovered at any stage in testing are deployed into a structured defect resolution framework; to date, most discovered defects have been resolved in <3 weeks ('hot fix' capability)</p>

1. System Integration testing; 2. User Acceptance testing; 3. Non-functional testing; 4. Business Operations Acceptance testing





Introduction to testing approach





We have 5 layers of testing to ensure a stable, resilient, fit-forpurpose solution

BOAT is heavily linked with UAT

	System Integration Testing (SIT)	Non-Functional Testing (NFT)	User Acceptance Te	sting (UAT)	Business Operations Acceptance Testing (BOAT)	Customer Testing (CT)
Test Description g k r	Every code update is ested by DXC to ensure seamless integration with previously coded modules	New functionality is tested to ensure non- functional targets (e.g.,: performance, availability) are met; Velonetic tests and ensures ability for system disaster recovery	Velonetic's assurance team incrementally tests new releases to ensure each meets user requirements, with expert input from business operations	Velonetic operations UA testing, testing meet operation requirements functionality	 Further operations testing: Testing services provided to Lloyd's and customers and Ops resilience & disaster recovery Helpdesk setup is validated (through Tech. Ops testing) 	Three offerings (Vanguard, LIMOSS Coordinated, and Enhanced) enabled for carriers, brokers and insure- tech vendors to test platforr and get an early understanding of DPS
(ey question answered t	s the platform echnically complete?	Is the platform robust?	Does the platform do what it's supposed to?	Are operatio able to proce submissions?	 Does the functionality cover all Velonetic services? Is operations confident in the systems resilience and disaster recovery? 	Does the platform perform services as expected?



Test execution team

DXC

Velonetic



Test layers follow a clear and logical sequence from build release to **Customer Testing**

A well gated process that works sequentially designed before Customer Testing initiated, reducing customer time and effort





DPS functionality will be tested across 4 test cycles for Customer Testing

Cycle 1

Base premium and claim processing:

- Direct, singleton, subscr. open market business¹
- Broker submissions²
- Technical processing (incl. queries)
- OP, AP, RP on new business³
- Premium instalments
- Premium corrections
- Carrier response incl. queries⁴
- Standard EDIs⁵

Further functionality:

- Reporting
- Settlements⁶
- Additional elective services⁷

Fast Follow (22.04.2024):

• Remaining claims EDIs⁸

Cycle 2

More complex transactions, including:

- Heritage reachback (premiums)⁹
- Delinked premiums
- Claim sanctions
- Claim corrections

Additional testing on premium IMR link and data integration

Further functionality:

- Remaining standard EDIs (LIMRES, RESETT, REDIAL)
- Reporting
- LORS portal¹⁰

Cycle 1 defects

Cycle 3

Additional functionality:

- Proportional treaty submissions
- Surplus lines
- Lineslips
- Facilities
- Scheme Canada
- DA
- ARCS and DCF
- Reporting
- LORS EDIs
- All bespoke EDIs

Claims and premium workflows further enhanced (incl. automated premium validation and additional premium query functionality)

Cycle 2 defects

1. For all markets. Excludes proportional treaty, facilities and DA (Cycle 3); 2. DRI and A&S for premiums, Portal and LIMCLM for claims; 3. Both cash and non-cash, excluding delinked premiums (Cycle 2); 4. Portal, Writeback and CWT; 5. Excl. LIMRES, RESETT, REDIAL; 6. Including company settlement and singleton funded and non-funded settlement. Lloyd's central settlement excludes ARCS and DCF; 7. Elective services include premium and claim submission on behalf of brokers, Velonetic delegated lead and Velonetic assisted fees; 8. LIMCLM (CLMRC) LIMCLM (CLMILC), LIMCLM (CLMLRB), LIMCLM (BLMILB), LIMCLIM (CLMLLB); 9. Includes AP and RP transactions for Main Business, DA, lineslips, and Cover; 10. Excluding integration (EDI)





What this looks like in practice I Testing in sequential cycles across various testing layers



Scenarios are mapped to cover core business requirements (>90%) and are extensively tested (>10k test scripts in BOAT)

Testing is run against a comprehensive list of ~150 business scenarios providing full coverage of core functionality

Used across UAT, Vanguard and **Customer Testing**

Business category

Premium submission, query, signing, and settlement

Claim submission, query, agreement, signing, and settlem

Delegated authority binder submission, guery, agreemen

Prop Treaty submission, query, signing, and settlement Scheme Canada LORS Lineslips (facilities) submission, guery, singing, and settle

Corrections **Settlements**

Business information

Other services

Lloyd's European business **Repository services**

1. Claim subsequent advice submission and simultaneous premium and claim submission Source: DPS Phase 1 root business scenario matrix Master (as of 21st February)

Comprehensive list of ~150 business scenarios targeted for testing

	E2E business scenarios to be tested
	 Premium submissions [7 scenarios] Premium query [4 scenarios] Premium signing [5 scenarios] Premium rejection [1 scenario] De-linked premium settlement release [2 scenarios]
ent	 Claim first-advice FNOL submission [2 scenarios] Other claims submissions [2 scenarios]¹ Claim settlement submission [3 scenarios] Claim notifications [4 scenarios] Claim query [4 scenarios] Claim agree or deny [7 scenarios] Claim signing and settlement [3 scenarios] Claim recovery and salvage [1 scenario] Claim closure [2 scenarios]
t, singing, and settlement	 DA binder contract [4 scenarios] DA bordereau [10 scenarios] DA notifications [4 scenarios] DA queries [4 scenarios] Above authority claim processing [1 scenario]
	Prop treaty [9 scenarios]
	Scheme Canada [2 scenarios]
	LORS [1 scenario]
ment	 Bulking lineslip [8 scenarios] Lineslip queries [8 scenarios] Non-bulking lineslip [8 scenarios]
	Corrections [4 scenarios]
	 Currency conversion service [1 scenario] Settlement fulfilment [2 scenarios] Scheduling [4 scenarios]
	Business information - reports [4 scenarios]Account enquiry [4 scenarios]
	 Mid-market change [4 scenarios] Run-off carrier addition [1 scenario] Stop block [2 scenarios] Party and user management [4 scenarios]
	Lloyd's European Business [3 scenarios]
	Repository services [4 scenarios]

Each test cycle includes testing of both previously built (regression testing) and new functionality

Regression testing approach across SIT and UAT



1. All cycles include reporting functionality releases; 2. Excluding LIMRES, RESETT, REDIAL; 3. Delinked premiums, LORS portal; 4. LIMRES, RESETT, REDIAL; 5. Surplus lines, lineslips, facilities, Scheme Canada, DA, ARCS and DCF; 6. Mid-market change, Part VII, experts, NAIC



By Cycle 3, more than 80% of functionality will have been tested through both new functionality testing and regression Cycle 3 Cycle 4 Cycle 1 +Cycle 1 Cycle 2 ++Cycle 2 Cycle 3 ++Cycle 3 Cycle 4 • Prop treaty • Premium sanctions • Addt'l functionality⁵ • Addt'l functionality⁶ • LORS EDIs • Acord4ALL EDIs • Bespoke EDIs

Across test layers, where defects found, defect management process consisting of 3 sequential steps to swiftly resolve in place





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Hot fixing | Critical defects can be resolved through hot fixes

Illustrative process for defect identified in Vanguard testing



Illustrative

Testing runs through a well defined, rigorous governance process, leading up to final sign-off for Gate 3

Gates 1 & 2 testing governance			Gate 3 testing gov	ernance	
SIT, NFT, UAT, BOAT	Customer Testing				All Testing Outcomes
	Governance structure		Market readiness testing Operational Committee	Market readiness testing Steering Committee	Governance structure
			Committee	Committee	Lloyd's Council sign-off
Rigorous governance process run by Velonetic	Steering Committee	Participants	Velonetic and LIMOSS	Velonetic (chair),	\uparrow
internally, with PWC to audit	(Velonetic (chair), Lloyd's, LIMOSS, IUA, LMA and LIIBA)			Lloyd's, LIMOSS, IUA, LMA and LIIBA	Lloyd's Blueprint Cutover Committee
	\uparrow				Υ
		Objective	Ensure appropriate	Review test	Lloyd's TTA
review of all technical and			and share findings of market testing activities across Vanguard and	completion reports and provide final sign-off on cutover	\uparrow
organisation testing reports	(Velonetic and LIMOSS)				Velonetic Board sign-off
IN April 2024	\uparrow				1
			Customer resting		Velonetic CEO approval
Gate readiness reviewed by		Cadence	Fortnightly 60'	Monthly 60'	1
PSB and TPG, before final approval by Velonetic CEO	Vanguard testing LIMOSS Coordinated			, , , , , , , , , , , , , , , , , , ,	Velonetic TPG
and sign-off by the Board					1
					MTR Steering Committee





Deep dive into testing by layer





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SIT carried out to ensure seamless integration in build





testing done

previous code

IPOS/ICOS interactions)

End artefact • SIT testing completion report

Environment • Dedicated AWS environment for SIT

demonstrate

Note: All data across all testing stages follow the data policy: no personally identifiable information (no email addresses or phone numbers, no company accurate information (no company names, addresses, company codes), no Policy, Premium, Claim or Notification which refers to any actual production item, person or event

For high-level status update, see slides 25-27 For testing deep-dive, see slides 38-40

- **How is** At the end of each sprint and PI, DXC SIT team tests integration between the components work as expected • Previously tested functionality also undergoes regression testing, to provide confidence that new code doesn't introduce any issues on
- **Input** All integration points built in the new release (e.g., API calls/messages,
- **Target output** All functionality integrates as expected • Regression on previous integration points work as expected

 - **Data** Test data (in the same format as production data)
- What does it All components seamlessly integrate within DPS as well as to relevant components outside of DPS and deliver functionality specified



- **End artefact** NFT testing completion report
- **Environment** Dedicated AWS environment for NFT

What does it • DPS meets targets across all non-functional categories **demonstrate** • Velonetic tests and ensures ability for disaster recovery and rollback contingencies

Note: All data across all testing stages follow the data policy: no personally identifiable information (no email addresses or phone numbers, no company accurate information (no company names, addresses, company codes), no Policy, Premium, Claim or Notification which refers to any actual production item, person or event

NFT carried out to validate nonfunctional requirements



For high-level status update, see slides 32-33 For further detail, see slides 48-50 in appendix

How is • 9 Critical non-functional categories and volumetrics are defined testing done • Load as defined in the volumetrics is simulated, and performance of the code is assessed

Input • New release successfully tested in SIT • All user stories built in the new release; targets and volumetrics defined • Performance & NFT test plans & scope

Target Output • Test scope executed as planned, with targets across 9 non-functional categories met - availability (e.g., outages), back-up & recoverability (e.g., failover & recovery), supportability (e.g., logging), system management & maintenance (e.g., licensing), security (e.g., data security), data management (e.g., data access), performance (e.g., scalability) and accessibility (e.g., user web browser) • No critical defect outstanding

Data • Tool-generated test data mimicking volume and format of production data



UAT carried out to validate user requirements





- testing done
- How is Master list of business operations scenarios (i.e., use cases), carriers and brokers is developed
 - Scenarios enabled in the release are identified, and tested by Velonetic assurance team to validate functionality
 - Testing conducted at the end of every PI later retested at the end of every sequence¹, moving forward testing will be carried out incrementally with every build drop (fortnightly)

 - **Input** New release successfully tested in SIT, and entry criteria met • Defect list from previous runs requiring re-test

- **End artefact** UAT report (status across all business scenarios and list of open defects)
 - **Data** Processing data provided by the business operations team to mirror production transactions
- **Environment** Dedicated AWS environment for UAT

is fit-for-purpose demonstrate

any actual production item, person or event

Target Output • Scenarios are successfully run – correct inputs accepted, required processing carried out, and correct outputs reports produced * • All outstanding defects recorded for the next sequence

Ops/back-end related UAT testing detailed later

- What does it DPS meets end-user requirements (of carriers, brokers and operations) and
- Note: All data across all testing stages follow the data policy: no personally identifiable information (no email addresses or phone numbers, no company accurate information (no company names, addresses, company codes), no Policy, Premium, Claim or Notification which refers to

BOAT to be run to validate back-end functionality



How is • 2 types of BOAT: testing done - Velonetic operations testing (including all services provided to customers and Lloyd's) - Ops resilience & disaster recovery • Partnership between UAT and BOAT: - BOAT provides production-like data for UAT scripts - BOAT provides business scenarios to map UAT scripts - BOAT validates and raises defects against UAT output (for automations UAT runs on behalf of BOAT) BOAT performs additional manual E2E testing **Input** • UAT report (status across all business scenarios and list of open defects) **Target Output** • Scenarios complete as expected from an operations perspective **End artefact** • BOAT output report: DXC, Velonetic & Lloyd's op readiness review and attestations **Data** • Velonetic operations UAT testing: Processing data provided by the business operations team to mirror production transactions • Other operations testing: test data **Environment** • BOAT to be carried out in the Customer Testing environment What does it • DPS is fit-for-purpose from an operations perspective, i.e., required back-office processing can be carried out on DPS by Velonetic and Lloyd's operations teams demonstrate • Required helpdesk is set up to operate within DPS

Note: All data across all testing stages follow the data policy: no personally identifiable information (no email addresses or phone numbers, no company accurate information (no company names, addresses, company codes), no Policy, Premium, Claim or Notification which refers to any actual production item, person or event

Early testing with the market enabled via the Vanguard program





Note: All data across all testing stages follow the data policy: no personally identifiable information (no email addresses or phone numbers, no company accurate information (no company names, addresses, company codes), no Policy, Premium, Claim or Notification which refers to any actual production item, person or event

For high-level status update, see slides 34-35

How is • 32 participants providing broad market coverage conduct early tests on **connectivity** (ability to connect to the environment), **functionality** (ability to execute incremental business processes) and e2e business scenarios (ability to test end-to-end business processes), with dedicated Velonetic support for test planning, onboarding etc.

 Vanguard testing provides additional opportunity for vendors to test EDI format, connectivity and business scenarios (additional details on next page)

Input • UAT report (status across all business scenarios and list of open defects)

Target Output • Scenarios complete as expected from a broker/carrier perspective (e.g., Submit Query, Premium Submission, Claim Settlement, etc.)

Data • Production-like data generated by customers and Vanguard team

Environment • Separate environment provisioned for all Customer Testing

What does it • DPS is fit-for-purpose and provides expected services to carriers and brokers, ahead of testing by wider market

Vendor testing enables vendor interface testing before integration with CT





Note: All data across all testing stages follow the data policy: no personally identifiable information (no email addresses or phone numbers, no company accurate information (no company names, addresses, company codes), no Policy, Premium, Claim or Notification which refers to any actual production item, person or event

- Stage 1 (Interface testing) provides vendors with an opportunity to test EDI structure and format as well as connectivity

- Stage 2 (Scenario testing, as part of Customer Testing) enables vendors to test business scenarios in partnership with a Customer Testing participant (via Vanguard, LIMOSS Coordinated or Enhanced Customer Testing)

• Stage 2: UAT report (status across all business scenarios and list of open defects)

Target Output • Stage 1: Vendors can connect to and transact required messaging on the platform • Stage 2: Scenarios complete as expected from a broker/carrier perspective

Data • Production-like data generated by customers

Environment • Separate environment provisioned for all Customer Testing

What does it • Vendors can successfully connect to DPS and EDI messages (Stage 1) as well as test business scenarios, covering services expected by carriers and brokers

LIMOSS Coordinated testing enables E2E process testing across wider market



- **How is** Coordinated E2E process testing enabled for the wider market to get an early testing done understanding of DPS and provide assurance ahead of cutover • Provides selected market participants an opportunity to test comprehensive set of E2E scenarios across core business functionalities (covering >90% of core business requirements)

 - Covers both front-end (customer) and back-end functionality • Planning, test scoping and coordinating provided by LIMOSS
 - Assurance results subsequently feed into overall program gate assurance process
 - **Input** UAT report (status across all business scenarios and list of open defects)
- **Target Output** Scenarios complete as expected from a broker/carrier perspective
 - **End artefact** Published Coordinated testing completion report (LIMOSS)
 - **Data** Production-like data generated by customers
- **Environment** Separate environment provisioned for all Customer Testing

Note: All data across all testing stages follow the data policy: no personally identifiable information (no email addresses or phone numbers, no company accurate information (no company names, addresses, company codes), no Policy, Premium, Claim or Notification which refers to any actual production item, person or event

What does it • DPS is fit-for-purpose and provides expected services to carriers and brokers demonstrate • 90% of business scenarios covered via testing

Enhanced Customer Testing is tailored to individual customer needs



testing done exception testing:

- **End artefact** Customer Testing summary report

demonstrate

What does it • Customers can connect to the testing environment and can successfully execute the individually required scenarios across business operations

Note: All data across all testing stages follow the data policy: no personally identifiable information (no email addresses or phone numbers, no company accurate information (no company names, addresses, company codes), no Policy, Premium, Claim or Notification which refers to any actual production item, person or event

How is Additional testing opportunity available to market participants to complete

• Opportunity for participants to test specific scenarios targeted to individual customer needs (e.g., specialty risk), beyond the 150+ E2E business scenarios offered in LIMOSS Coordinated testing • Offered at an additional cost to the customer

Input • UAT report (status across all business scenarios and list of open defects)

Target Output • Scenarios complete as expected from a broker/carrier perspective

Data • Production-like data generated by customers

Environment • Separate environment provisioned for all Customer Testing



High-level status update across the test phases



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Status update SIT summary

84% defects 97% critical tagged as defects critical resolved

Key outstanding issues:

- **IPOS** (work package section, regression tech portal link, sanction status, workflow latency)
- ICOS (sanctions status, ASG notifications, settlement status, queries search, username details)
- **IROS** (SV response)
- Parties (home page, repeated email address validation, onboarding page)
- **Other** (notification reversed event, dependency on datum sanctions, settlement event error)

Note: Point in date update. Some of outstanding issues will have since been resolved at time of publication





Analysis of SIT defects by criticality and aging

Details on next page		Critical/Hig	gh pri. defects	Medium/Lo	Tetal	
		Resolved	Unresolved	Resolved	Unresolved	Iotai
	<3 weeks	283	5	34	1	323
	3-6 weeks	17		11	2	30
6	-12 weeks	4	2	6	1	13
>	>12 weeks	55	4	14	3	76
	Total	359	11	65	7	442

1. Tests in the final cycle (including regression tests) for the PI considered Note: Defects as of 9th Feb 2024 analyzed; Defects with status "Done", "Resolved" considered "Resolved"; Critical and high priority defects also include defects tagged as blocker, major; Medium and low priority defects also include defects tagged as minor Source: SIT test completion reports for PI 7/8, Global PI 8 Fast follow, PI 9, PI 10, PI 11

Outstanding defects in SIT

	ID	Created date	Priority	Summary
-	LMT-61249	07/07/2023	Critical	ICOS - SIT - No Sanctions Status appeared on Settlement for
	LMT-64958	04/08/2023	Critical	SIT- ICOS- LM- Claims Sanction status is left blank without ar
	LMT-89496	05/02/2024	Critical	SIT Regression (TST101) - Parties PI 24.1.2 (12.2) - Unable to
	LMT-81136	04/12/2023	Critical	SIT-Settlement_get An exception occurred while invoking th
	LMT-90139	09/02/2024	Critical	SIT Regression_ICOS_ASG_Notifications were not triggering
	LMT-90168	09/02/2024	Critical	SIT- IROS- Getting response from SV for REHR microservice
	LMT-70651	14/09/2023	High	SIT Regression_ICOS_Sanction Status when upload a Docun
	LMT-82618	13/12/2023	High	Party: Repeated email Address didn't validate - Vanguard
	LMT-89193	01/02/2024	High	SIT Regression_ICOS_FE_Global_ Settlement Status Stoppe
	LMT-75887	27/10/2023	High	SIT Regression - PI 11.2 Parties FE: "400 Bad Request" error
	LMT-87088	20/01/2024	High	SIT- IPOS_Premiums(TechPortal) - Unable to view the Work p
	LMT-49757	15/03/2023	Medium	SIT - Notification - premium: Reversed event throws exception
	LMT-65537	09/08/2023	Medium	Dependency on Datum Sanctions for Integration Testing
	LMT-82927	15/12/2023	Medium	SIT_ICOS Queries Search Cross Domain Getting 200 Succe
	LMT-86010	13/01/2024	Medium	SIT_IPOS_Regression-TechPortal-Enquiry Link should not be
	LMT-87882	24/01/2024	Medium	SIT Regression_ICOS_FE_Global_Can't retrieve the usernan
	LMT-85734	11/01/2024	Medium	SIT_IPOS_Regression-TA sanction status is "Submitted" when
	LMT-70563	14/09/2023	Low	SIT- IPOS_Workflow - Regression Test - Observed latency iss

work/Search tab)



Note: Defects as of 9th Feb 2024 analyzed; Defects with status "Done", "Resolved" considered "Resolved"; Critical and high priority defects also include defects tagged as blocker, major; Medium and low priority defects also include defects tagged as minor

· ASG underwriter

ny update for London Market

load the HOME page in TST101 environment.

ne handler method to handle the event"groupReadyToSettle"in the UAT101

J

ment includes restricted Data

ed till Underwriter approved

occurred and 'Consortium data' onboarding page is NOT displaying

backage section

ions as toBeCancelledID could not be found

ess Code for Premium Search in Source Application

displayed when the user is already in Enquiry screen

me details within the message line for a query

en Bypassdatum is set to False

sues while navigating in between WF tabs(Unallocated/Allocated/My

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SIT PI 11 | 1.6K+ SIT tests executed, navigating through mixed test results in London Market and Global regression and SIT testing

Regression testing

Validating existing features developed <PI 11, mainly on IPOS premium (39% of all tests) and parties (21%)

System integration testing

Focused on new London Market functionality, mainly validating the new features for IROS



Aggregated view from PI 11.1 to PI 11.6

Velonetic 1. Defects logged affecting PI 11 2 Includes all other statuses apart from 'done' or 'rejected' Source: 'LM DPS – PI11 LM SIT report v0.3'



Defects created¹

68 defects affecting PI 11 created, majority of them (46) were considered critical. 53 defects 'done' (88% excl. rejected defects). 8 defects rejected



Status update UAT summary

64% defects 91% critical tagged as defects critical resolved

Key outstanding issues:

- **IPOS** (default order for records, filter clearing, role based access)
- **ICOS** (settlement agreement payment method drop downs, settlement transaction payments)
- Parties (onboarding IPOS/ICOS LM technician, LM user log in error, notification emails, external bank account approval)
- **Other** (month clearing in presentation date fields)

Note: Point in date update. Some of outstanding issues will have since been resolved at time of publication



Key metrics from tests run in Cycle 1 (Global UAT Cycle 1-4, Global Fast Follow, PI 9 and PI 10)



Analysis of UAT defects by criticality and aging

Details on next page		Critical/High pri. defects		Medium/Low pri. defects		Total
	-	Resolved	Unresolved	Resolved	Unresolved	Iotal
	<3 weeks	79	8	17	4	108
	3-6 weeks	9		10		19
	6-12 weeks	7		3	1	11
	>12 weeks	11	2	20	11	44
	Total	106	10	50	16	182

1. As of 8th February. Does not include unexecuted tests (failed, blocked, WIP, unexecuted, deferred or cancelled tests, as per test completion reports)

Note: Defects as of 8th February analyzed; Defects with status "Done", "Resolved" considered "Resolved; Critical and high priority defects also include defects tagged as blocker, major; Medium and low priority defects also include defects tagged as minor Source : UAT test completion reports for Global, Fast-follow, PI 9 and PI 10

Outstanding defects in UAT (I/II)

ID	Created date	Priority	Summary
LMT-89347	02/02/2024	Critical	UAT Party: Internal Server Error received when logged in using the server end of the
LMT-89039	31/01/2024	Critical	UAT Party: Notification emails not received when approving
LMT-88822	30/01/2024	Critical	IPOS workflow PI 11 UAT:The records in My work tab is not
LMT-88584	29/01/2024	Critical	IPOS workflow PI 11 UAT:The filters "slip type","Processing filter is applied again
LMT-72320	29/09/2023	Critical	Workflow UAT : User is unable to clear the Month componer
LMT-89940	07/02/2024	High	Party Onboarding- IPOS/ICOS LM Technician
LMT-89587	05/02/2024	High	UAT Party: External Bank Account Reference can't be approv
LMT-89060	31/01/2024	High	IPOS Workflow PI 11 UAT : Role based access is not working
LMT-88176	25/01/2024	High	ICOS UAT GLOBAL PI11: Settlement agreement - Payment m
LMT-61261	07/07/2023	High	ICOS UAT : Settlement transactions are failing with status as
	LMT-89347 LMT-89039 LMT-88822 LMT-888584 LMT-72320 LMT-89940 LMT-89587 LMT-89060 LMT-89060 LMT-88176 LMT-61261	ID Created date LMT-89347 02/02/2024 LMT-89039 31/01/2024 LMT-88822 30/01/2024 LMT-888822 30/01/2024 LMT-88584 29/01/2024 LMT-72320 29/09/2023 LMT-89940 07/02/2024 LMT-89587 05/02/2024 LMT-89060 31/01/2024 LMT-88176 25/01/2024 LMT-61261 07/07/2023	ID Created date Priority LMT-89347 02/02/2024 Critical LMT-89039 31/01/2024 Critical LMT-88822 30/01/2024 Critical LMT-88822 30/01/2024 Critical LMT-88824 29/01/2024 Critical LMT-88584 29/09/2023 Critical LMT-72320 29/09/2023 Critical LMT-89940 07/02/2024 High LMT-89960 31/01/2024 High LMT-89060 31/01/2024 High LMT-88176 25/01/2024 High LMT-61261 07/07/2023 High



Note: Defects as of 8th Feb 2024 analyzed; Defects with status "Done", "Resolved" considered "Resolved"; Critical and high priority defects also include defects tagged as blocker, major; Medium and low priority defects also include defects tagged as minor

ing newly approved LM user

a new Party Person

default to due date (ascending) oldest on top

required" and "channel" do not work when clear all filters is clicked and

nt in the presentation date from and to fields

ved for the Party Organisation

for lgteam.leader01

nethod dropdowns are not selectable

"Payment failed"

Outstanding defects in UAT (II/II)

	ID	Created date	Priority	Summary
_	LMT-88526	29/01/2024	Medium	IPOS workflow PI 11 UAT : In the search tab the date search
	LMT-88287	26/01/2024	Medium	IPOS workflow PI 11 UAT : The correction type filter is not fu
	LMT-88274	26/01/2024	Medium	IPOS workflow PI 11 UAT : Click to perform icon does not wo
	LMT-83754	21/12/2023	Medium	Party: Telephone Number Validation is inconsistent for Org &
	LMT-72107	26/09/2023	Medium	IPOS UAT GLOBAL : User is unable to override the default va
	LMT-72106	26/09/2023	Medium	IPOS UAT GLOBAL : Error message displayed during FA crea
	LMT-71752	25/09/2023	Medium	Workflow UAT : POST/api/v1/channelSubmission end point search using only max 17 chars
	LMT-53023	14/04/2023	Medium	Notifications IPOS : When the user has read a notification from same
	LMT-50989	23/03/2023	Medium	Notifications IPOS: The Notification bell count does not mate
	LMT-45214	09/02/2023	Medium	IPOS UAT : During FA creation, in TA selection screen, Sortin expected
	LMT-44712	07/02/2023	Medium	IPOS UAT: Unable to perform sort using Base/Tax amount co
	LMT-41358	17/01/2023	Medium	ICOS UAT - Edit Claim - Open status - The field "The date tha
	LMT-88573	29/01/2024	Low	IPOS workflow PI 11 UAT : In the search tab when user enter displayed
	LMT-76405	31/10/2023	Low	Party: Add additional Contact, Address, Party Role are greye
	LMT-72262	28/09/2023	Low	Workflow UAT : User is unable to edit the "day" and "year" c accessed using tab option
	LMT-45256	10/02/2023	Low	IPOS UAT : User is unable to view most recent records in pre updated fields



Note: Defects as of 8th Feb 2024 analyzed; Defects with status "Done", "Resolved" considered "Resolved"; Critical and high priority defects also include defects tagged as blocker, major; Medium and low priority defects also include defects tagged as minor

fields are displayed as mandatory

Inctional

ork for Logistics user

& Person on-boarding

value populated on the FA settlement amount field from TA

eation when settlement amount is a Negative value

accepts UMR up to max 20 chars whereas in the FE user is restricted to a

om the bell icon, the bell count of unread notifications still remains the

tch with the number of unread notification messages

ng of columns "Contract ref,contract name, transaction ref", not working as

olumn in tax table , financial details screen-TA creation

at the claim was first advised to the broker" accepts future dates

ers a future date in the "from date" field , incorrect error message is

ed out

components of the date fields in the search tab when the fields are

emiums dashboard since timestamp is not returned in date created or date

UAT PI 10 | Balancing successes and ongoing challenges in Party, IPOS, and Mix & Match testing. Missing functionality in the SIT/UAT env. main cause for deferred tests

Regression testing User acceptance testing The ICOS (73 tests) and IPOS (106) London Market integration tests blocked due to portal's unavailability in SIT/UAT automated UAT regression packs were run successfully (on Global functionality) env. Majority of other tests unexecuted because of a blocking defect 179 155 420 185 Includes PI 9 hangover 17 24 0 Total tests Total tests Fail Unexecuted¹ Pass Fail Pass

1. Includes all failed, blocked, WIP, unexecuted, deferred and cancelled tests 2. Includes all other statuses apart from 'done' or 'rejected' Source: 'PI 10 UAT Completion Report v1.0'





Status update | NFT Summary



For Global Seq 2 outcomes, see slide 33 For further detail, see slides 48-50 in appendix

To be shared when available

NFT - Global Seq 2 | Overall positive performance outcomes with areas for targeted improvement, especially in optimizing response times for key functionalities



Enhanced performance metrics

The ICOS application underwent performance testing in the NFT Environment, showing an improvement in the 95th Percentile Response Time compared to previous tests



Efficient resource utilization

CPU and Memory Utilization for EKS and KeyCloak remained below 39% and 70%, respectively, indicating efficient resource usage during the test



A significant volume of ICOS transactions were processed, including claims creation and agreement, though issues with Sanctions and Settlement functionalities were identified due to a specific defect (LMT-68575)



Managing high transaction volume



Need for optimizing response time

Response times for critical operations like claim creation showed some actions taking longer than desired, with a particular focus on the high response times affecting user experience

Status update Vanguard summary

86% defects 42% critical tagged as defects critical resolved

Key outstanding issues:

- IPOS (TA data field validation, TA tab control, attaching documents to TA)
- **ICOS** (create claim button, dashboard error message, claim error message)
- **Global** (multiple instances of inability to view messages or direct messages to Vitesse, assistance required for claims movement)
- London market (error when IPOS tries to bypass sanction check)

Note: Point in date update. Some of outstanding issues will have since been resolved at time of publication



Key metrics from tests run in Cycle 1 (Global Sequence 2)



Analysis of Vanguard defects by criticality and aging

Details on next page		Critical/Hig	ıh pri. defects	Medium/Lo	Total	
		Resolved	Unresolved	Resolved	Unresolved	Iotal
	<3 weeks	6	3	1	-	10
	3-6 weeks	2	5	_	-	7
	6-12 weeks	-	3	_	2	5
	>12 weeks	-	_	-	-	-
	Total	8	11	1	2	22

defects also include defects tagged as minor Source : Vanguard sequence 2 cycle 1 and cycle 2 reports

Cycle 1 (Global Sequence 2) testing performed in June 2023; continuous testing ongoing since (currently PI 12)

Note: Defects as of 8th Feb 2024 analyzed; Defects with status "Done", "Resolved" considered "Resolved"; the Updated date is assumed as resolved date; Critical and high priority defects also include defects tagged as blocker, major; Medium and low priority

Outstanding defects in Vanguard

ID	Created date	Priority	Summary
LMT-88975	31/01/2024	Critical	Vanguard - ICOS Claim - Unable to see Create Claim button.
LMT-88939	31/01/2024	Critical	Vanguard - ICOS Claim - Error Message displayed when user clicked on the Dashboard
LMT-88932	31/01/2024	Critical	London Market - 500 error displayed in the logs when IPOS is trying to Bypass the Sanction Check.
LMT-86613	17/01/2024	Critical	Vanguard - IPOS - Broker is not able to attach a document to the TA
LMT-85636	10/01/2024	Critical	Vanguard Global Cyc2 - Test 2.1 WTW sent APM TA - AXA XL Unable to see it in their system
LMT-85633	10/01/2024	Critical	Vanguard Global Cyc2 - Test 2.1 WTW sent FEE TA - AXA XL Unable to see it in their system
LMT-85299	08/01/2024	Critical	Vanguard Cycle 2 - Swiss Re unable to see the TA message delivered from DXC
LMT-84026	27/12/2023	Critical	Vanguard - ICOS Claim - Error Message
LMT-83645	20/12/2023	Critical	Vanguard Global Cyc2 - Test 1.5 WTW sent Profit Commission TA - AXA XL Unable to see it in their s
LMT-83643	20/12/2023	Critical	Vanguard Global Cyc2 - Test 1.2 FA sent by WTW - error pointing at Vitesse
LMT-85818	11/01/2024	High	Vanguard Cycle 2 - Assistance required to execute a Claims Movement using the Test Harness
LMT-82648	13/12/2023	Medium	Vanguard - IPOS TA - Date Field Validation
LMT-82653	13/12/2023	Low	Vanguard - IPOS TA - Tab Control



Velonetic Note: Defects as of 8th Feb 2024 analyzed; Defects with status "Done", "Resolved" considered "Resolved"; Critical and high priority defects also include defects tagged as blocker, major; Medium and low priority defects also include defects tagged as minor

to the TA L Unable to see it in their system Unable to see it in their system delivered from DXC on TA - AXA XL Unable to see it in their system inting at Vitesse Movement using the Test Harness
To be refreshed with every cycle

Part 2: Detailed testing results



To be refreshed with every cycle



Testing stage status deepdives





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SIT PI 10 | 700 tests executed and passed; Comprehensive success in LON Market and Global SIT and regression testing across key functionalities

Regression testing

Validating existing features developed <PI 10, mainly on IPOS premium (35% of all tests) and parties (23%)

System integration testing

Focused on both London Market (13 tests) and global (4) functionality



1. Defects logged affecting PI 10 2. Includes all other statuses apart from 'done' or 'rejected' Source: 'LM DPS - PI10 LM Global - SIT Report v0.3'



Defects created¹

69 defects affecting PI 10 created, majority of them (46) were considered critical. 11 defects rejected and 56 defects 'done' (84% excl. rejected)



SIT PI 9 | Achievements and areas for improvement in London **Market and Global Systems**

Regression testing

Validating existing features developed <PI 9, i.e., IPOS, IROS and party functionality

System integration testing

Consists of sanity checks for London Market (8) and P2P/E2E testing (12) for new global market functionality



1. Defects logged affecting PI 9 2. Includes all other statuses apart from 'done' or 'rejected' Source: 'LM DPS - PI9 LM Global - SIT Report v0.1'

As of 9th February

Defects created¹

10 defects affecting PI 9 created. Majority of defects (8) considered critical in severity. In total 2 defects rejected, and 8 defects 'done' (80% excl. rejected)



SIT

SIT PI 7/8 | 847 tests executed (includes fast-follow delivery testing), resulting in comprehensive testing success across platform

Regression testing

Automated regression testing was not executed

System integration testing

Consists P2P/E2E testing for new global market functionality (includes fast-follow tests executed)



1. Defects logged affecting PI 7 and PI 8 2. Includes all other statuses apart from 'done' or 'rejected' Source: 'LM JSP - PI7 and 8 SIT Report v1.1', 'LM DPS - Global PI8 - Fast Follow SIT Report v1.0'

As of 9th February

Defects created¹

295 defects affecting PI 7/8 created. 160 defects considered critical in severity. In total 0 defects rejected, and 294 defects 'done' (100% excl. rejected)

SIT

UAT PI 9 | Testing truncated and facing challenges: navigating critical defects and enhancing future testing strategies

Regression testing

Automated ICOS regression testing unexecuted due to defects/environment issues (76 tests impacted). IPOS ran successfully, 99 of 108 tests passed

User acceptance testing

mostly successful



Velonetic 1. Includes all failed, blocked, WIP, unexecuted, deferred and cancelled tests 2. Includes all other statuses apart from 'done' or 'rejected' Source: 'PI 9 UAT Completion Report v1.0'

UAT

Global UAT Fast Follow | Fast follow addressing outstanding defects and functionality with execution cycle, closing 18 outstanding defects

Regression testing

Automated regression testing was not executed







Velonetic 1. Includes all failed, blocked, WIP, unexecuted, deferred and cancelled tests 2. Includes all other statuses apart from 'done' or 'rejected' Source: 'Global UAT Completion Report v1.0'

Global UAT Cycle 4 | Completing JSP UAT - final push for functionality verification and high-severity defect fixes

Regression testing

Automated regression testing was not executed







Velonetic 1. Includes all failed, blocked, WIP, unexecuted, deferred and cancelled tests 2. Includes all other statuses apart from 'done' or 'rejected' Source: 'Global UAT Completion Report v1.0'

UAT

Global UAT Cycle 3 | Finalizing UAT execution - overcoming highseverity defects with extended testing





UAT

ΔΔ

Global UAT Cycle 2 | Expanding UAT scope - addressing additional functionality and defect resolution

Automated regression testing was not executed





UAT

Global UAT Cycle 1 | Launching global JSP UAT with IPOS integration creating the foundations for successful user acceptance testing





Velonetic 1. Includes all failed, blocked, WIP, unexecuted, deferred and cancelled tests 2. Includes all other statuses apart from 'done' or 'rejected' Source: 'Global UAT Completion Report v1.0'

Appendix





Appendix: Zoom in on NFT





NFT | Various testing types run to ensure platform is robust



Velonetic

	Environment & tools								
1	NFT	JMeter JMeter							
lication code	Dev	sonarqube							
lication running state	NFT	FORTIFY							
erating system	All ¹								
attack	NFT & I	Prod							
attack on assets visible on internet	Prod								
ns after catastrophic event	NFT	AWS Fault Injection Simulator							
l systems in required timeframe	NFT	AWS Resilience Hub							
store data	NFT								

Performance Testing | Ensures platform & infrastructure scalable



Defects logged in Jira for resolution



Forecast expected load over next 5 years, incl: users, peak load, peak duration, and transaction volumes

Performance Test - Iteration

Loads incorporated into performance test plans:

ICOS

	Test Load					
ms	Additional and Return Premiums	Corrections	Work Packages	Ramp up Strategy		
129	161	4	79	Ramp up		
259	321	9	157	Ramp up		
1034	1284	34	<mark>630</mark>	Ramp up		
138	1413	38	693	Ramp up		
2068	2569	69	1259	Ramp up		
2585	3211	86	1574	Ramp up		

				lest Load								
Test Iteration	Test Type	Test Duration	Test Users	Lloyd's Advice	Company Advice	Lloyd's Settlement	Company Settlement	Ramp up Strategy				
teration 1	Validation Test	15 mins	50	103	23	94	7	Ramp up				
teration 2	Year 1 (50%) Load Test	1Hours	250	207	46	188	15	Ramp up				
teration 3	Year 1 Load Test	2 hours	500	414	92	376	29	Ramp up				
teration 4	Year 2 Load Test	2 hours	500	455	101	414	32	Ramp up				
teration 5	Stress test	1hours	500	827	183	752	58	Ramp up				
teration 6	Endurance test	8 hours	500	3310	733	3008	233	Ramp up				

Monitoring tools in place to identify bottlenecks



Appendix: Zoom in on vendor testing





The Vanguard Vendor Programme

Vendor testing is broken into stages:

Stage 1: Interface Testing (recommended for all) • Structure and Format testing for EDI Standardised messages. Test ability to submit, consume and process messages

- Connectivity testing aims to ensure that your system can communicate effectively with the ASG Adept system

Stage 2: Testing scenarios in partnership with a Customer (Optional, not part of Vanguard Vendor Programme)

 Part of the Vanguard/LIMOSS Coordinated Customer or Enhanced Customer Testing. Vendor participation is optional



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Timeline for Vendor Testing





* responsibility of Vendor's internal team ** please refer to EDI Standardised /customized tables ***ACORD4ALL will be handled on a customer-by-customer basis once an NDA has been signed Please note ASG connectivity is part of customer onboarding

Vendor integration testing is embedded in **Customer Testing via connectivity testing**

Vanguard's initial phase is connectivity testing, encompassing key vendor testing aspects

Outcomes validated via connectivity testing:

- Customer systems can integrate to and call the platform endpoints
- Information can be sent and consumed between the two systems

Illustrated test examples

Inputs	Platform behaviour	Outputs				
Authenticate call	Pass/fail	Security token				
Pick up file from SFTP site	Provide folder structure with test EDI file	Test EDI file				

Coverage of vendors serving majority of market via Vanguard's participants

We believe majority of key technology vendors are represented through their customers in Vanguard, including but not limited to

- DXC
- Webcon
- AdvantageGo
- Verisk
- Eurobase
- Trace
- Ebix
- GPM
- Novidea
- Docosoft
- Guidewire

... and additional self-build solutions

- Technical integration across major vendor platform verified via connectivity testing
- Further vendor connectivity testing enabled via ASG gateway (already accessible)
- New workstream for • vendors to be established within Vanguard to
 - Enhance vendor visibility into testing
 - Improve vendor coverage for technical integration

Overview and Approach of Vanguard Vendor Testing

STAGE 1 - Recommended for all vendors

Pre-go-live activities recommended to all vendors to ensure readiness. Includes test connectivity and data structure of standardised EDIs.

Within scope of Vanguard Vendor Testing

Will be carried out in two parts: 1a and 1b

EDI messages Testing:

- Send a sample EDI Check Structure is accurate and correct format and can be consumed in the test environment.
- Suitable for vendors using EDI Standardized message.



- Suitable for all vendors wanting to test connectivity.
- Can begin once onboarded into ASG.

Actions required from both Velonetic and Vendors to progress through Stage 1 and ready for Stage 2 are detailed in the next four slides

Stage 2 - Options to expand testing scenarios:

This is outside Vanguard Vendor Testing scope

(B)

- Partner with a Vanguard participant customer to perform required E2E tests.
- You will coordinate your test directly with your chosen customer.
- Using Vanguard participant data to check and validate scenarios.

Partner with LIMOSS Coordinated Customer Testing

- Suitable for vendors without access to a Vanguard participant and open to any vendor wanting to test with their customers.
- Enables vendors to partner with other market participants to test Velonetic and LIMOSS defined E2E processes through scenarios.
- Potential requirement for vendors and their customers to produce test data if unavailable in the testing environment.
- LIMOSS will support with customer coordination for testing.

Partner with an Enhanced Customer Testing Member (C)

- Chargeable testing of scenarios tailored to vendor requirements in conjunction with your customer.
- You will create all the data needed to perform your tests.
- Velonetic will provide training material where/if possible/available.



Optional for vendors who wish to test extra functionalities alongside their customers.

3 routes depending on vendor requirements: testing scenarios depend chosen route

Partner with a Vanguard Participant





Velonetic Actions

- 1. Send Beta Agreement and Onboarding forms to all vendors. (Complete)
- 2. Once Beta Agreements and onboarding requirements have been received, we will arrange a drop-in session with vendors to discuss Stage 1 testing. Virtual sessions will be available if required.
- 3. Onboard vendor into the system (30 days).
- 4. Liaise with vendor and troubleshoot.

To move to Stage 1a:

□ Scope, specs and onboarding requirements read and understood □ Beta Test Agreement signed & returned □ Onboarding forms completed, returned and checked □ Drop-in session/Virtual sessions – Stage 1 testing Email Address for EDI receipt provided (if applicable) □ Vendor Onboarded into the system



Stage

1

Vendor Actions

- 1. Carefully review and understand all documentation provided such as scope, agreements, onboarding forms, specs, etc.
- 2. Sign the Beta Test Agreement by 01/03/24.
- 3. Fill the Onboarding forms and send them back by 01/03/24
- 4. Provide an email address where you want to receive the EDI message (if applicable).

Stage 1

Stage 1a

EDI Standardise Structure and format testing via email message



Vendor Actions

• Confirm you have received the EDI message, provide feedback on the file(s) received and sign off Stage 1a.

• Set up your test team.

• Carefully review and understand the Velonetic-IPOS-ICOS Connection Guide published on the Velonetic website.

• Set up your environment and prepare for connection.

EDI Sample Messages Sent by Emails

Standard EDI	Sample file available
ILUCSB	08-Mar-24
WSETT	08-Mar-24
DSIGN	08-Mar-24
МСМ	08-Mar-24
BSM	08-Mar-24
IPCBSM	08-Mar-24
ILUCSM	08-Mar-24
SCM	08-Mar-24
ILUCST	20-Mar-24
IPCCSM	20-Mar-24
USM	20-Mar-24
IPCDSM	20-Mar-24
LIMCLM (CLMLRC)	28-Mar-24
LIMCLM (CLMILC)	28-Mar-24
LIMRIS (Carrier)	28-Mar-24
LIMRIS (Broker)	28-Mar-24



Stage 1b



Velonetic Actions

- We will onboard you into testing environment.
- We will provide you with credentials to connect to the system.
- Coordinate with vendor's test team to establish the testing framework, including testing requirements, environment set up and configuration.
- Sign off connectivity test and data structure (if applicable) with the vendor.

To complete stages 1b:

Network configurations set up to allow comms with ASG
 Onboarding to the test environment complete

- □ ASG Connection confirmed
- □ Testing complete and signed off
- □ Plan your approach to stage 2 if required



Vendor Actions

- Ensure that your network configurations are properly set up to allow communication between your systems an ASG Adept.
- Login into ASG and confirm connection. You'll be able to see and access your required folder(s).
- Identify the data exchange formats you need to test and test them.
- Verify that the data mapping between you and the system is accurate.
- Provide feedback and sign off Stage 1b.
- Plan your approach to Stage 2 if required.



Preparing for Stage 2



Stage

2

Velonetic Actions

- Velonetic's level of support will depend on the chosen path.
- Provide test root scenarios for guidance.
- Depending on the chosen path, support and liaise with vendor on scenario testing, defect management and troubleshooting.

Before commencing Stage 2 (if intending to progress to Stage 2):

Plan your approach to Stage 2
Define message requirements and understand test data needed
Arrange a customer partner to test with (if required)
Velonetic level of support will depend on the chosen path.



Vendor Actions

- Choose your preferred path, your activities will depend on this path (please refer to slide 5).
- Clearly define your messages requirements with your testing team. Understand the data you need to produce and what stages you want to test.
- Based on your preferred path, plan to partner with a broker/carrier to test if required.

Vendor participant tracking

As of 13th March 2024, we have communicated with 31 vendors along with 2 customers testing vendor connectivity:

23 Stage 1 Testing Participant Vendors

- 21 vendors have confirmed they wish to test with us.
- 2 are Customers testing vendor connectivity.
- 17 have signed the Beta Test Agreement, 5 pending.
- All Vendor participants have received the onboarding forms.
- 15 participants have returned the onboarding forms,
 7 are pending.

10 have opted not to test stage 1

- 3 vendors are part of Phase 2 and won't participate in Stage 1.
- 4 are participating through their clients either part of Vanguard or via Customer Testing.
- 3 are being contacted to review their participation as they do process other messages.

Vendor	Testing Confirmed	Contract Signed	Onboarding Form Complete	Sent to DXC	Sent to ASG	Onboarded to Test Env	Onboarded by ASG	Service Agreement Complete
AdvantageGo	✓	✓	✓					
Artificial.io	not testing	-	-					
Bross	\checkmark	\checkmark	\checkmark					
Capital	not testing	-	-					
Charles Taylor	\checkmark	\checkmark	pending					
Datapro	\checkmark	pending	pending					
Docosoft	\checkmark	✓	\checkmark					
Duck Creek	\checkmark	pending	pending					
DXC/ISB-B	\checkmark	\checkmark	\checkmark					
DXC/ISB-C	✓	✓	\checkmark					
DXC/ISB-R	\checkmark	✓	\checkmark					
Ebix	\checkmark	\checkmark	pending					
Eurobase	\checkmark							
GPMdev	\checkmark	\checkmark	\checkmark					
Guidewire	\checkmark	pending	ü					
MSG	not testing	-	-					
Northdoor	\checkmark	\checkmark	\checkmark					
Novidea	\checkmark	\checkmark	\checkmark					
Ropner	\checkmark	\checkmark	\checkmark					
Trace	not testing	-	-					
Verisk	\checkmark	\checkmark	\checkmark					
WCL	\checkmark	\checkmark	\checkmark					
Websure	\checkmark	\checkmark	\checkmark					
Ecliptic	\checkmark	pending	pending					
SSP (Howden)	\checkmark	pending	pending					
Morning Data	pending	-	-					
PPL	not testing	-	-					
Sunguard	pending	-	-					
TIW Group	pending	-	-					
VIPR	not testing	-	-					
Whitespace SSP	not testing	-	-					
QBE	\checkmark	⇒	pending					
Beazley	✓	\checkmark	✓					
					No	t started -Stage	e 1b	





Appendix: Reachback testing approach





Example I Reachback functionality is tested and validated across multiple stages

	STAGE 1	STAGE 2
Entry criteria	 IPOS/ICOS portals ready Premiums History and Claims History APIs ready Heritage table data modelling in the DPS Data Lake ready 	• Stage 1 complete
Key activities	 Velonetic Synthetically populate the heritage tables in the DPS Data Lake Customers 	 Customers Use IPOS and ICOS por trigger reachback on a triggered reachback tra (triggered in Stage 1)
	 Use IPOS and ICOS portais to trigger reachback Get reachback data 	Note: Customers to get data directly from IPOS thus proving that the rea not triggered to fetch he from the DPS Data Lake



2 STAGE 3 • Stage 2 complete

• Migrated heritage tables replace synthetic data in the DPS Data Lake

ortals to a previously transaction

et transaction S and ICOS, reachback was heritage data ke

Customers

• Repeat Stages 1 and 2 with migrated heritage tables



Appendix: Zoom in on EDIs



EDI Status

	EDI	EDI committed	Specs or Mapping in review with ASG	Specs/Mapping pending	Published	Publication Date		
1	Standard	31	0	0	31	Published 1 st March		
2	Bespoke	22	0	0	22 ¹	Published 6 th March		
3	A4A	18	0	18	0	Published 15 th March		
	1 Standard: The Velonetic web	e technical specifica site	tions for the 31 EDI S	tandard messages ar	e accessible to t	he public on the		
	2 Bespoke: Velo	onetic published all	22 Customised EDI N	/lappings via the Velo	onetic website or	n 6 th March ¹		
	3 Acord4ALL: A	CORD4ALL will be	handled on a custom	er-by-customer basis	once an NDA ha	as been signed		



EDIs testing schedule

EDI STANDARD

Available for Customer **Functionality EDIs** Testing Functionality **EDIs** Claims SCM 11/04/2024 C_SCM_EDI_to_ETS Claims Controlled MCM 11/04/2024 **Delinked Signing** IPCBSM 11/04/2024 Claims C_SCM_EDI_to_INT IPCCSM **Delinked Signing** 11/04/2024 Claims C Brit Limclm Edi to Sics IPCDSM 11/04/2024 Delinked Signing C LIMCLM Edi to Rif Claims Settlement ILUCSB 11/04/2024 11/04/2024 WSETT Settlement Claims C LIMCLM EDI to SICS DSIGN 11/04/2024 Signing Claims C_SCM_EDI_to_XML_Native_ 11/04/2024 BSM Signing ILUCSM 11/04/2024 Signing Claims C_SCM_EDI_to_ETS_PAD13 Signing USM 11/04/2024 Controlled C_UWRCON_EDI_to_ETS 11/04/2024 **ILUCST** Signing 22/04/2024 Claims LIMCLM (CLMLRC) Controlled C_UWRCON_EDI_to_INT 22/04/2024 Claims LIMCLM (CLMILC) Controlled UCM EDI to XML Native No 22/04/2024 Claims LIMCLM (Inbound) Claims LIMCLM(CLMLRB) 22/04/2024 Delinked Signing C BSM EDI to XML Native Claims 22/04/2024 LIMCLM(CLMILB) LORS C_LIMORI_EDI_to_ETS 22/04/2024 Claims LIMCLM(CLMLLB) **Delinked Settlement** 23/05/2024 C_LIMORI_EDI_to_INT REDIAL LORS 23/05/2024 Delinked Signing RESETT LORS C_LORS_EDI_to_RIF Error/Confirmation LIMRES 23/05/2024 20/06/2024 LORS LIMRIS (Carrier) LORS C LORS EDI to XML Native LORS LIMRIS (Broker) 20/06/2024 LORS C_LORS_XML_to_EDI_Native_ 20/06/2024 LORS LIMRES LORS (Carrier) LIMRES LORS (Broker) LORS 20/06/2024 Signing c UWRSGN EDI to ETS V9 LORS LIMRID (Incoming) 20/06/2024 Signing C_UWRSGN_EDI_to_INT_V9 20/06/2024 LORS LIMRIN LORS LLDUWR (Incoming) 20/06/2024 C_SIGNIN_EDI_to_CSV_DL50 Signing LORS LIMRID (Outgoing) 20/06/2024 Signing C_SIGNIN_EDI_to_RIF

20/06/2024

20/06/2024

Signing



LIMRIA

LLDUWR (Outgoing)

LORS

LORS

EDI BESPOKE

ACORD4ALL

EDIs	Available for Customer Testing
C_SCM_EDI_to_ETS	20/06/2024
C_SCM_EDI_to_INT	20/06/2024
C_Brit_LimcIm_Edi_to_Sics	20/06/2024
C_LIMCLM_Edi_to_Rif	20/06/2024
C_LIMCLM_EDI_to_SICS	20/06/2024
C_SCM_EDI_to_XML_Native_NoAttr	20/06/2024
C_SCM_EDI_to_ETS_PAD13	20/06/2024
C_UWRCON_EDI_to_ETS	20/06/2024
C_UWRCON_EDI_to_INT	20/06/2024
UCM_EDI_to_XML_Native_Noatt	20/06/2024
C_BSM_EDI_to_XML_Native_NoAttr	20/06/2024
C_LIMORI_EDI_to_ETS	20/06/2024
C_LIMORI_EDI_to_INT	20/06/2024
C_LORS_EDI_to_RIF	20/06/2024
C_LORS_EDI_to_XML_Native_NoAttr	20/06/2024
C_LORS_XML_to_EDI_Native_NoAttr	20/06/2024
c_UWRSGN_EDI_to_ETS_V9	20/06/2024
C_UWRSGN_EDI_to_INT_V9	20/06/2024
C_SIGNIN_EDI_to_CSV_DL5001	20/06/2024
C_SIGNIN_EDI_to_RIF	20/06/2024
USM EDI to XML Native NoAttr	20/06/2024

ACORD4ALL will be handled on a customer-bycustomer basis once an NDA has been signed

Current Writeback, CWT and DRI specifications status

CWT

- CWT functionality exists today (provides a mechanism for carriers to manage claims in their own workflow system by receiving notifications from Velonetic systems on a frequent basis). It is currently available to test using synthetic data
- User Guide and Data Extract information is available at the Velonetic website (<u>https://www.velonetic.co.uk/blueprint.co.uk/bluep</u>
- Available to test as Stage 1 once Vendor has successfully connected to the system

Write Back (WB) & DRI

- WB functionality already exists in ICOS version 1.0. It provides a mechanism for carriers to manage claims by talking directly to ICOS via an API gateway, and also to receive messages about claims throughout the claims lifecycle, including settlement of claims
- Specifications have been published on the Velonetic website (<u>https://www.velonetic.co.uk/blueprint</u> <u>-two/cwt-wb-dri-information</u>)
- Write back deep-dives continue to run in parallel with development



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Write Back and DRI Specifications

The functional and interface specifications listed below are available for download from our website

Write Back Project Part A - Overall	<u>Download</u>
Write Back Project Part B - Claim Notify	Download
Write Back Project Part C - Retrieve Claim	<u>Download</u>
Write Back Project Part D - DRI Search	<u>Download</u>
Write Back Project Part E - DRI Download	<u>Download</u>
Write Back Project Part F - Claims Response	<u>Download</u>
Write Back Project Part G - DRI Upload for Carriers	<u>Download</u>
Write Back Claim Notify Interface Specification	Download
Write Back Claim Respond Interface Specification	Download
Write Back Retrieve Claim Data Interface Specification	Download

Vendor to EDI mapping (I/II)

	•															Ve	end	or	
	Advant-age Go	Artificial.io	Bross	Capital	Charles Taylor	Data- pro	Doco- soft	Duck Creek	DXC/ISB-B	DXC/ISB-C	DXC/ISB-R	Ebix	Eurobase	GPMdev	Guidewire	MSG	Northdoor	Novidea	
BSM									\checkmark									\checkmark	
DSIGN									\checkmark			\checkmark			\checkmark				
ILUCSB									\checkmark						\checkmark				
ILUCSM									\checkmark			\checkmark			\checkmark				
IPCBSM									\checkmark						4			\checkmark	
IPCCSM															\checkmark				
IPCDSM															\checkmark				
LIMCLM (CLMILC)														\checkmark	\checkmark				
LIMCLM (CLMLRC														\checkmark	\checkmark				
														\checkmark				\checkmark	
														\checkmark				\checkmark	
(CLIVILLB) LIMCLM (CLMLRB)														\checkmark				\checkmark	
LIMRES														\checkmark				\checkmark	
LIMRES LORS																			
LIMRIA																			
LIMRID																			
LIMRIN																			
LIMRIS																			
LLDUWR																			





Evolving view (ongoing confirmation with vendors on which EDIs will be tested)

Vendor to EDI mapping (II/II)

	•																end	or
	Advant-age Go	Artificial.io	Bross	Capital	Charles Taylor	Data- pro	Doco- soft	Duck Creek	DXC/ISB-B	DXC/ISB-C	DXC/ISB-R	Ebix	Eurobase	GPMdev	Guidewire	MSG	Northdoor	Novidea
MCM									\checkmark								\checkmark	
REDIAL																		
RESETT																		
SCM									\checkmark						\checkmark		\checkmark	
USM															\checkmark		\checkmark	
WSETT									\checkmark			\checkmark			\checkmark			
LIMORI																		
LIMCLM														\checkmark				\checkmark
LIMRID																		
LLDUWR						8										4		
LIMORIL														4		4		
LIMRIN																		
LIMRIS																		
Writebac	k						\checkmark								\checkmark			
Portal																		
CWT - xml																		
CWT – cs	v																	7
DRI							\checkmark							\checkmark	\checkmark			\checkmark







Appendix: Data migration assurance



Heritage data will be migrated from IMR & Mainframe

IMR

Pre-requisites for DPS

- New IMR application built for DPS: Document Repository Services ("DRS")
- FileNet, DB2 and Storage are all upgraded

Impact on Heritage

- Heritage IMR continues until DPS live
- Infra decommissioned once warranty complete

Data transfer process	AWS London Market Core Platfor DRS Linux Database Servers DPS Database IBM DB2	rm Datacentre NAS Driver DPS NFS File Storage
	 IBM DB2 Native Tools Copy	NFS Data Copy
	MDC / SDC Datacentres	
	IMR Linux Database Servers IMR Database IBM DB2	Datacentre NAS Driver IMR NFS File Storage

Execution

- Migration to commence in April 2024, pending successful testing



Mainframe

- Data lake ready to receive historical data
- History APIs built and allow DPS services to access transaction history from data lake
- Heritage services continue until DPS live
- Only Lloyd's Settlement continues after DPS live
- Dependencies on Mainframe must be removed to allow decommissioning



As ~120TB of data to migrate, will begin with 1 initial transfer, followed by incremental updates Will minimise work-in-progress using ex BPS Processes + Overtime + a Cut Off Point Prior to Migration



Appendix: Constraints on dual run



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Why not test during a dual run? 4 key challenges, with negative implications on the customer as well as Velonetic



Would require testing DPS with FERN live data posing several security constraints

Synchronising both systems of records consistency for duplication and consistency adds complexity and risk of error

Synchronising the data also means all transactions move at speed of slower system, negating DPS value



Customers will need to enact substantial changes/upgrades on their side to enable reconciliation of EDIs split between FERN and DPS in a single file

Additional risk to customers given all participants in a risk contract must be on the same system of record





Contractual limitations

Neither FERN nor DPSA currently designed to work in parallel, there are substantial contractual limitations on having a dual run



Cost impact

Operations teams currently resourced and designed to operate on single system of record, dual run likely to increase need for manual reconciliation beyond current capacity

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Thank you





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