**🟢 Jira Task – RL1.1 Ingestion Test Script Development & Execution**

**Description**  
As part of Radar Live SIT scope, the BICOE QA team will design and execute test scripts to validate ingestion of messages into the Azure Data Platform as per the ingestion requirements documented in Confluence.  
The task covers:

* Ingestion validation across Landing (DLT) → DV (Silverish layer).
* Data quality validation scenarios for ingestion tables.
* Test data coverage to ensure representative records for all ingestion paths.
* Technical table-level checks (schema, constraints, datatypes, field mapping).
* Reconciliation against the source payloads.
* Correlation and reconciliation against interaction data for full traceability (Quote ID, Cache ID, PRN).

**Validation Scope**

* Validate ingestion mapping for all required message types (Quote Request, Rating Response, Cache ID, Stop Quote, PreComp, Rating Request).
* Ensure all data quality checks are designed and executed (null handling, data type mismatches, mandatory vs optional fields).
* Confirm test data is available for all ingestion tables, with coverage across NB, Requote, MTA, Renewal, and Decline flows.
* Perform reconciliation between source event hub payloads and ingested records.
* Perform correlation checks across ingestion tables and interaction data for linkage (Quote → Rating → Feature Set → Core Risk).
* Validate CDC handling and schema drift changes (pre/post change scenarios).
* Ensure ingestion aligns with requirements specified in Confluence for RL1.1.

**Acceptance Criteria / Testing Requirements**

* ✅ Test scripts created for all ingestion message types.
* ✅ Ingestion mapping validated against Confluence requirements.
* ✅ All ingestion-related data quality scenarios executed with documented results.
* ✅ Test data coverage confirmed for all ingestion tables across quote journeys (NB, Requote, MTA, Renewal).
* ✅ Technical table-level validations executed (schema, datatype, key constraints, joins).
* ✅ Successful reconciliation of ingested data with source payloads.
* ✅ Successful correlation and reconciliation across interaction data (end-to-end quote flow traceability).
* ✅ CDC and schema drift validation completed.
* ✅ All high/critical defects tracked and closed before SIT exit.

**Dependencies**

* Event hub details for sample test data (with Nate).
* Schema drift change request analysis (with Mike).
* Business alignment on pre- and post-schema drift testing scope (with Pricing QA / Rahul).
* Continuity of Service scenarios for in-scope views (Shashi with Paul).
* Dynamic Pricing & Radar results requirement clarification (with Nikki).
* DevOps/IT support for Landing → DV ingestion jobs.

**Definition of Done (DoD)**

* All ingestion scripts designed, reviewed, and executed.
* Data quality, reconciliation, and correlation test scenarios completed with evidence.
* Ingestion mapping validated end-to-end with no critical gaps.
* Reconciliation results documented and signed off.
* CDC/schema drift handling validated with test results attached.
* All defects triaged, retested, and closed or accepted with mitigation.
* SIT sign-off note shared with BICOE QA Lead.

# ----------------------------------------------------------------------------------------------------------- 🟢 Jira Task – RL1.3 DVLA Data Retention Validation

**Description**  
As part of SIT for Radar Live, BICOE QA will validate the **DVLA Data Retention implementation** (RL1.3) against the defined organisational policy for data storage and deletion.  
Testing will be executed in the **time travel environment**, ensuring compliance with retention requirements (storage duration, deletion, archiving) across different scenarios.  
This requires close **coordination with Source Athena, E2E team, and BICOE Data Engineering** to confirm correct design, ingestion, and lifecycle handling.  
The correct set of **test data scenarios** must be included in the Test Data Scenario Sheet to support coverage.

**Validation Scope**

* Validate that DVLA data is ingested, stored, and retained according to organisational retention rules.
* Validate **time travel queries** for DVLA data across multiple points (T0, T1, T2) to confirm correct retention and deletion.
* Test **retention scenarios**:
  + Active storage duration.
  + Scheduled deletion after retention period.
  + Archival handling (if applicable).
  + Restricted access after expiry.
* Confirm alignment of retention with **DVLA requirements** and internal compliance policy.
* Reconcile BICOE DVLA tables with **source Athena** to ensure correct retention implementation.
* Validate correlation with E2E interaction data to ensure deleted/expired DVLA data is not visible in reporting or downstream usage.
* Ensure scenarios are tracked in **test data scenario sheet** for full traceability.

**Acceptance Criteria / Testing Requirements**

* ✅ DVLA data storage validated in SIT against retention requirements.
* ✅ Time travel environment confirms retention rules (historical vs expired data).
* ✅ Deletion/expiry rules correctly applied as per DVLA requirement.
* ✅ Data not accessible after expiry, confirming policy enforcement.
* ✅ Reconciliation completed with source Athena system for retention handling.
* ✅ E2E validation confirms expired DVLA data not propagated downstream.
* ✅ Test evidence attached in Jira for all scenarios.
* ✅ No open high/critical issues at SIT exit.

**Dependencies**

* Time travel environment setup (DevOps/IT).
* Retention policy clarification from Architecture/Compliance team.
* Source Athena support for reconciliation snapshots.
* E2E team alignment on downstream validation of expired DVLA data.
* BICOE Data Engineering support for table design and lifecycle configuration.
* Test data preparation covering multiple retention scenarios.

**Definition of Done (DoD)**

* All DVLA retention scenarios validated (storage, deletion, access restriction).
* Source vs BICOE reconciliation completed and signed off.
* Time travel queries executed with evidence attached.
* Expired data not visible in SIT downstream validation.
* Compliance with DVLA and organisational retention rules confirmed.
* Test data scenario sheet updated and approved.
* SIT sign-off note provided to stakeholders.

**🟢 Jira Task – RL1.4 Raw Enrichment Data Retention Validation**

**Description**  
As part of SIT for Radar Live, BICOE QA will validate the **Raw Enrichment Data Retention implementation** (RL1.4) against organisational policies for storage and deletion.  
Testing will leverage the **time travel environment** to validate lifecycle rules across ingestion, storage, and expiry for Raw Enrichment datasets.  
Validation will also require **coordination with Source Athena, E2E team, and BICOE Data Engineering** to ensure correct test data preparation, mapping, and alignment with data governance requirements.  
The correct set of **test data scenarios** must be included in the Test Data Scenario Sheet for SIT execution and compliance tracking.

**Validation Scope**

* Validate ingestion and storage of Raw Enrichment data into DV/EDM layers.
* Validate **time travel queries** to confirm historical records are maintained and expired data is correctly purged.
* Test retention lifecycle scenarios:
  + Active storage period validation.
  + Deletion after expiry in accordance with retention rules.
  + Archival or restricted access handling (if applicable).
* Confirm expired Raw Enrichment data is not visible in downstream reporting or analytics.
* Reconcile **source Athena Raw Enrichment data vs BICOE tables** to confirm correct retention implementation.
* Validate that correlation with interaction data remains intact for valid records and is removed for expired ones.
* Ensure retention test scenarios are captured in the **Test Data Scenario Sheet** with clear mapping to requirements.

**Acceptance Criteria / Testing Requirements**

* ✅ Raw Enrichment data lifecycle validated (storage, expiry, deletion).
* ✅ Time travel environment queries confirm historical vs expired states.
* ✅ Expiry/deletion rules applied per organisational and Raw Enrichment design.
* ✅ Reconciliation completed with source Athena for retention handling.
* ✅ Expired Raw Enrichment data not propagated to reporting/EDW.
* ✅ Technical table-level validation completed for schema and lifecycle metadata.
* ✅ Test evidence captured and attached in Jira.
* ✅ All high/critical issues resolved before SIT closure.

**Dependencies**

* Time travel environment setup (DevOps/IT).
* Raw Enrichment retention requirement confirmation with Data Governance team.
* Source Athena Raw Enrichment snapshots for reconciliation.
* E2E team validation to confirm expired data is excluded from downstream processes.
* BICOE Data Engineering support for retention configuration and validation.
* Test data preparation covering lifecycle (active, expired, archived).

**Definition of Done (DoD)**

* Raw Enrichment retention validated across ingestion lifecycle.
* Source vs BICOE reconciliation completed with evidence.
* Time travel validation executed and signed off.
* Expired Raw Enrichment records confirmed as inaccessible in SIT.
* Test data scenario sheet updated to include Raw Enrichment retention cases.
* Compliance with organisational retention policy confirmed.
* SIT sign-off note delivered to stakeholders.

**🟢 Jira Task – RL2.1 Decompress Files and Store within Raw Enrichment Area**

**Description**  
As part of SIT for Radar Live, BICOE QA will validate the **decompression and storage process for Raw Enrichment files** (RL2.1).  
The validation will focus on ensuring that compressed files are correctly decompressed, stored within the Raw Enrichment area, and linked with the correct **Key Identifier** to enable traceability and downstream processing.  
Testing scope covers ingestion pipeline checks, data quality verification, and reconciliation with source file structures.

**Validation Scope**

* Validate that compressed Raw Enrichment files are successfully decompressed during ingestion.
* Ensure decompressed files are stored correctly within the **Raw Enrichment area**.
* Confirm that each record is assigned the correct **Key Identifier** for linkage with Quote/Interaction data.
* Validate schema structure post-decompression (field mapping, datatype integrity, null handling).
* Perform **data quality checks** on decompressed data (completeness, duplicates, truncation).
* Validate reconciliation between **original compressed file content vs decompressed stored content**.
* Ensure records are visible in downstream DV/EDM layers with correct Key Identifier linkage.

**Acceptance Criteria / Testing Requirements**

* ✅ Decompression process validated successfully across multiple Raw Enrichment files.
* ✅ Records stored in Raw Enrichment area match source file content post-decompression.
* ✅ Key Identifier applied correctly and consistently across all records.
* ✅ Schema and datatype integrity maintained post-decompression.
* ✅ No loss of data, truncation, or duplicates after decompression.
* ✅ Reconciliation evidence attached (source compressed file vs decompressed output).
* ✅ Downstream linkage with Quote ID/Interaction ID confirmed.
* ✅ No open high/critical defects before SIT sign-off.

**Dependencies**

* Source system to provide sample compressed Raw Enrichment files.
* DevOps/IT setup for decompression process and Raw Enrichment storage path.
* Confirmation of Key Identifier rules (mapping, uniqueness, mandatory fields) from Data Engineering/Architecture.
* Coordination with E2E team for downstream validation.
* Test data preparation to include multiple compressed file scenarios (valid, corrupt, large file).

**Definition of Done (DoD)**

* Decompression validated end-to-end from source file to Raw Enrichment storage.
* Key Identifier assignment confirmed against design specification.
* Schema validation and data quality checks completed with evidence.
* Reconciliation completed between compressed source file and decompressed Raw Enrichment data.
* No high-severity defects open.
* SIT sign-off note shared with stakeholders.

**🟢 Jira Task – RL2.2 Create/Identify PV Groups for Access Control**

**Description**  
As part of SIT for Radar Live, BICOE QA will validate the creation and identification of **PV (Permission/Privilege) groups** for controlled access to data within the Azure Data Platform.  
The groups must provide appropriate access segregation for **Pricing, Engineering, and Underwriting teams**, ensuring compliance with data governance and security requirements.  
Testing scope will cover access control validation, role-based data visibility, and negative testing to confirm restricted data is not accessible by unauthorized groups.

**Validation Scope**

* Validate that PV groups are correctly created/identified for:
  + **Pricing team** (access to pricing data and views).
  + **Engineering team** (access to ingestion pipeline and technical views).
  + **Underwriting team** (access to underwriting-related reporting and data).
* Confirm **role-based access control (RBAC)** is applied according to organisational policy.
* Validate that each PV group can access only its intended datasets and views.
* Perform negative testing → ensure groups cannot access datasets outside their scope.
* Validate that **audit logs** capture access events for compliance.
* Reconcile test data scenarios across groups to ensure consistency in permissions.

**Acceptance Criteria / Testing Requirements**

* ✅ PV groups created/identified for Pricing, Engineering, and Underwriting teams.
* ✅ Access control validated for each group against in-scope datasets.
* ✅ Negative testing confirms access restrictions are enforced.
* ✅ Data governance and compliance requirements met (no PII leakage outside allowed groups).
* ✅ Evidence of role-based access validation attached in Jira.
* ✅ Audit logs confirm proper capture of access attempts.
* ✅ No open high/critical security defects before SIT closure.

**Dependencies**

* Confirmation of **access policy definitions** (who can access what) from Data Governance/Architecture.
* DevOps/IT setup of PV groups within Azure environment.
* Test data preparation covering Pricing, Engineering, and Underwriting datasets.
* Coordination with respective business teams to validate real-world access needs.
* Security/compliance team sign-off on RBAC setup.

**Definition of Done (DoD)**

* PV groups created and validated against requirement.
* Role-based access testing executed with positive/negative scenarios.
* Audit trail validated for access compliance.
* Evidence captured and attached in Jira.
* No high-severity access/security issues open.
* SIT sign-off note shared with stakeholders.