Integration and Observability Review

Friday, October 17, 2025 11:00 AM

**John 00:00:09.000**

Good morning everyone, thanks for joining. Let's focus on the GK API ingestion pipeline and the product data mismatches we've seen in the StoreBridge logs over the last few days.

**Mike 00:00:17.000**

Morning John. Yeah, this has been raised by multiple stores; some prices and descriptions aren't updating even though the nightly batch runs completed.

**David 00:00:26.000**

I checked yesterday's Azure Service Bus ingestion logs. Messages were received, but around twelve percent failed during transformation in the Processing microservice; retries happened, then they went to the dead-letter queue.

**Sarah 00:00:36.000**

Right, the logs show serialization errors around the PLU and GTIN mapping. Some payloads carry both, and our transformation doesn't consistently pick the correct one.

**Alex 00:00:47.000**

That's consistent with integration tests. We changed mapping when GK added GTIN, but backward compatibility wasn't fully verified. The schema validator may be too lenient.

**Laura 00:00:54.000**

From operations, this creates data quality issues in stores; outdated promo prices force manual overrides, and store managers are, um, frustrated.

**John 00:01:02.000**

Okay, so both technical and operational angles. David, do we know how many stores are affected?

**David 00:01:11.000**

Approximately thirty five percent in Belgium and about ten percent in Romania. The affected records cluster in Seasonal Promotions and Private Label categories.

**Mike 00:01:21.000**

This matches business reports. GK mentioned some payloads miss a PLU when a product only has GTIN. We should see if our ingestion can accept that instead of rejecting it.

**Sarah 00:01:32.000**

I can adjust the mapping to use GTIN as a fallback when PLU is missing, but we must check that downstream joins in the pricing table still work.

**Alex 00:01:39.000**

Please verify the interaction between ProductSyncWorker and PricingUpdateHandler; both write to the same SQL Server table and could create duplicates in race conditions.

**Emma 00:01:47.000**

Before code changes, I'd like to replicate failing cases in QA. Then we can validate transformation fixes and observability in parallel.

**David 00:01:56.000**

On observability, we lack correlation between ingestion and processing spans. If we add OpenTelemetry trace IDs to message properties, we can follow each message end to end in Application Insights.

**Sarah 00:02:06.000**

That would help a lot. I'll need an example for injecting and extracting those IDs in our .NET workers.

**Alex 00:02:17.000**

No problem. We already use the OpenTelemetry SDK; we just need to propagate the trace context when sending and receiving messages—configuration more than refactor.

**Laura 00:02:24.000**

Once we have that, operations can monitor the full message lifecycle and spot bottlenecks before they escalate.

**John 00:02:32.000**

Excellent. Mike, could you refresh the business-side Confluence page for the GK integration once the fix is in staging? It's getting a bit out of date.

**Mike 00:02:41.000**

Sure, I'll update it and include sample payloads after Sarah's changes land in staging.

**Emma 00:02:51.000**

I'll prepare a regression test plan, including negative scenarios like malformed payloads or missing category codes so the system degrades gracefully.

**David 00:03:02.000**

I'll also create a dashboard in Application Insights that shows transformation failures per store and per payload type, so we can see if the fix actually improves things.

**Alex 00:03:09.000**

Let's review deployment as well. The last hotfix had downtime because rollback steps weren't clear. We need better sequencing of SQL scripts in release docs.

**Sarah 00:03:17.000**

I can extend the Confluence deployment template we discussed last month; it's still missing rollback verification and dependency mapping sections.

**John 00:03:26.000**

Perfect. That will help during the release freeze period.

**Mike 00:03:36.000**

One more thing: we should align with GK on schema versioning. If more changes are coming, we need early notice. I'll contact their integration lead this week.

**Laura 00:03:47.000**

Please do. It's risky to operate on assumptions about their payloads.

**Alex 00:03:54.000**

After we finalize mapping logic, let's roll out to three pilot stores first, then go system wide.

**Emma 00:04:02.000**

I'll draft the test checklist and validation steps for that pilot. We can reuse the QA dataset from the previous sprint.

**John 00:04:11.000**

Great. Let's aim for debugging by Wednesday, QA by Friday, and a rollout plan early next week.

**Mike 00:04:21.000**

Sounds good.

**Sarah 00:04:32.000**

I'll start looking into the ProductSyncWorker this afternoon and sync with David on tracing setup.

**David 00:04:39.000**

I'll send the environment variables and an example snippet for telemetry propagation right after this call.

**Alex 00:04:47.000**

Once we're stable, we'll close the older PLU–GTIN tickets as obsolete.

**Laura 00:04:56.000**

Good plan. This should improve reliability and transparency in production.

**John 00:05:06.000**

Alright, thanks everyone. Let's regroup mid next week to review progress and confirm readiness for deployment.