

Solution Overview: Real-Time Billing Data Synchronization

Unlock Operational Agility. Own Your Data. Accelerate Your Business.

Overview

Legacy telecom billing systems such as ICOMS and Amdocs, are notoriously slow and restrictive when it comes to data access. Most operators are stuck with T-minus-1-day data—crippling real-time insights, delaying operations, and increasing costs.

Constellation SaaS delivers a proven real-time sync engine that extracts, enriches, and delivers billing data in under 10 seconds, enabling telecom operators to achieve unmatched operational performance, agility, and cost control.

Strategic Benefits

The following architecture ensures continuous, lossless data flow without compromising the stability of the billing environment:

- **Resilience:** Systems operate independently of vendor maintenance windows
- **Agility:** Build apps, analytics, and automation without waiting on nightly feeds
- **Cost Avoidance:** Save on per-transaction vendor API fees by querying your own data
- **Data Integrity:** Regular reconciliation ensures sync accuracy and system trust
- **Speed to Value:** Typical initial deployment in 12–16 weeks, customized to client need

Features & Benefits

- < 10-Second Latency: Real-time data synchronization from legacy billing systems
- Own Your Data Store: Local operational data store (ODS) eliminates reliance on vendor uptime, cost, or access limitations
- Cost-Effective Design: Reduces or eliminates metered API fees and high event-notification volume costs via intelligent sync logic
- Vendor-Agnostic Architecture: Works seamlessly across billing environments such as CSG, ICOMS, and Amdocs
- Failover & Reconciliation Built-In: Includes fallback to billing batch reports and supports reprocessing logic to maintain consistency
- API & Cache Optimization: Query data at speed with API-level caching and override flags for instant freshness

Why Crystal Eye Technology Partners?



- **Proven in Production:** Built and run for one of the largest U.S. telecom operators for 10+ years
- **Scalable by Design:** From 1M to 10M+ transactions/hour with tiered event notification cost management
- **Strategic Impact:** Enables intra-day analytics, real-time customer interactions, and data-driven decisions

How It Works

SYSTEM	INTEGRATION METHOD	LATENCY	TOOLS USED
CSG	ENI (Event Notifications) + SLBOS APIs	<10 sec	JSON events, REST APIs
ICOMS	DB triggers + API Gateway	<10 sec	Table-level triggers, APIs
AMDOCS	DB triggers + API Layer	<10 sec	Integration with core tables

These systems generally operate on batch cycles, rely on delayed replication, and expose limited APIs. Extracting live data is often expensive, brittle, or technically infeasible.

Deployment & Team

- Project/Program Manager
- SME Architect
- Developer Team
- Custom Plan & Timeline (based on system complexity and data domains)

Ready to Eliminate T-1 Delays?

Own your billing data. Build smarter systems. Operate without compromise.

Let us show you how near real-time billing data can transform your business.

Contact us today!