

How Ecosmob Safeguarded Millions in Revenue Following a Catastrophic InnoDB Engine Corruption



Overview

Ecosmob is a major telecom gateway that relies on real-time Call Detail Records (CDRs) to bill its customers. When a severe InnoDB database corruption threatened to halt their billing and cost them millions in penalties, Mydbops stepped in. Instead of taking the system offline for long repairs, we built a parallel system to instantly log new bills and stop the revenue leak. We rescued 6.56 TB of corrupted data and upgraded their core database, leaving their infrastructure stronger and ready for global expansion.

Zero ↑

Dropped Transactions

New revenue capture resumed despite the core engine failure.

6.56 TB ↑

Data Restored

A complete recovery of the corrupted InnoDB billing records.

1,200x ↑

Load Reduction

Neutralized runaway recovery to reclaim critical resources.

100% ↑

Capacity Unlocked

Zero billing duplicates or data loss during the final historical merge.

MySQL InnoDB

Consulting Services

About ecosmob

Ecosmob serves 100+ telecom operators processing 50M+ daily SIP messages and CDRs(Call Detail Records) across multi-tenant UCaaS(Unified Communications as a Service) platforms. Powers enterprise call centers with AI-driven real-time analytics for 10M+ concurrent sessions. Delivers 99.999% availability for mission-critical billing systems worldwide. Expanding 5G VoIP infrastructure rapidly.

Deployment Type	Database Stack / Services Used	Objective / Outcome
Cloud-Based Infrastructure	MySQL InnoDB Engine	6.5 TB Data Restored with 100% Integrity

Business Challenges

Overview

In a high-frequency environment processing millions of daily messages, waiting days for a standard database rebuild was not an option. Mydbops was brought in to navigate three massive hurdles:

- ❗ **The Revenue Leak Risk:** With the InnoDB engine down, live revenue was evaporating by the second. The longer the system was paralyzed, the closer Ecosmob edged toward an irrecoverable financial loss.
- ❗ **The Data Gravity Challenge:** Recovering 6.56 TB of data from a corrupted InnoDB state is a massive undertaking. Traditional recovery methods would have kept the system offline for days, collapsing enterprise services globally.
- ❗ **The Security & Compliance Gap:** Data loss is a breach of contract. Losing years of billing history due to this engine corruption would have triggered severe legal penalties and permanently destroyed enterprise client trust.

Goals

- **Immediate Financial Continuity:** Bypass the InnoDB corruption to allow live transaction logging and new revenue capture to resume instantly.
- **SLA Defense & Uptime Protection:** Ensure the end-users experience zero interruptions to the 10M+ concurrent sessions during the intense backend database fix.
- **InnoDB Engine Optimization:** Recalibrate the database environment mid-recovery to handle massive data volumes without choking the server.
- **Zero-Loss Restoration:** Recover every single byte of the 6.56 TB of corrupted InnoDB data and merge it back into the live system with 100% accuracy.

Solution Provided by Mydbops

➤ Strategic Revenue Triage (De-risking the Core)

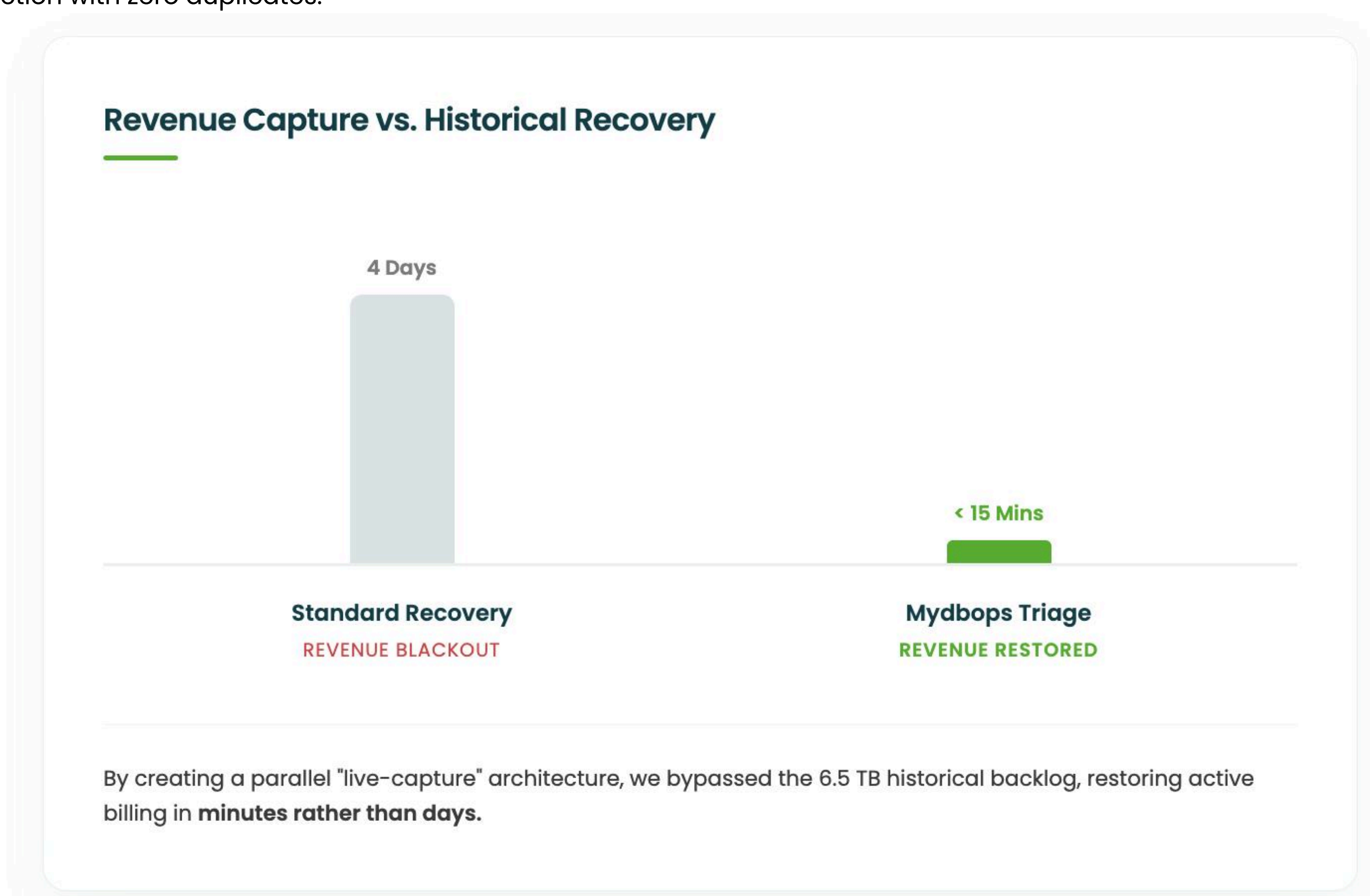
To stop the revenue leak instantly, Mydbops bypassed the corrupted InnoDB tables entirely. We deployed a fresh, lightweight parallel architecture that allowed the application to start writing new billing data immediately. This decoupled the crisis (the complex InnoDB recovery) from the business (active billing).

➤ Architectural Stabilization (Infrastructure Tuning)

While recovering the InnoDB data, we noticed that old backup tasks were overloading the server. Mydbops stepped in, stopped these frozen processes, and fine-tuned the database settings. This turned a painfully slow process into a high-speed recovery.

The Seamless Historical Merge (The Zero-Incident Cutover)

➤ Once the 6.56 TB of corrupted data was successfully salvaged from the InnoDB engine, we faced the final challenge: merging the old historical data with the newly captured live data. We orchestrated a non-destructive merge, syncing the entire history back into production with zero duplicates.



Results & Impact

Key Outcomes

✅ Uninterrupted Revenue Flow

By quickly deploying a parallel live-capture system, we ensured new billing transactions continued seamlessly, entirely bypassing the core database failure and preventing a catastrophic financial blackout.

✅ Restored Server Stability

We identified and eliminated crushing server strain caused by runaway backup processes. This surgical fix freed up critical system resources and drastically accelerated the entire recovery timeline.

✅ Complete Data Restoration

The entirety of the corrupted historical billing archive was successfully salvaged and secured, fully satisfying strict telecom compliance and auditing requirements.

✅ Flawless Historical Merge

We seamlessly combined the massive archive of recovered data with the newly captured live data. The cutover was executed flawlessly without creating any duplicate bills or system downtime.

Business Driver	State: InnoDB Corruption	State: Modernized Architecture
Financial Flow	Total Revenue Leakage	100% Capture (Zero Leak)
System Stability	1,200x Load Spike	Optimized Load & OpEx
Global Compliance	SLA/GDPR Breach Risk	Exceeds ISO/SLA Standards

Infrastructure Resilience Built for Global Market Leaders

High-stakes growth demands an infrastructure that converts technical risk into a competitive advantage. Mydbops provides the battle-tested engineering needed to protect revenue streams during complex modernizations and global market expansions.

We bridge the gap between deep database forensics and mission-critical business continuity. Partner with the team that has proven its ability to defend enterprise SLAs at population-scale.

[Secure Your Infrastructure for Scale →](#)