

**LEADING INSURANCE PROVIDER
DELIVERS 100% DATA ACCURACY AND
RAPID REPORTING WITH ENTERPRISE
DATA WAREHOUSE SOLUTION BY AHANA.**





Managing high-volume data efficiently is a common challenge for the insurance industry, where timely reporting and reliable systems are critical for daily operations. Rapid growth in data over 1.2TB annually for group insurance products introduced operational bottlenecks and impacted reporting speed. This case study outlines how a leading company in the insurance sector addressed these issues by implementing an optimized enterprise data warehouse for its group business.

Client Profile

A leading organization in the Indian insurance industry, promoted as a joint venture between prominent banking and international financial entities, has consistently maintained its position among the top insurers in the country since 2001. Recognized for their robust portfolio and continual market leadership, they serve a diverse customer base, with a focus on product innovation and operational excellence.

Challenge

The organization faced mounting difficulties handling growing data volumes for its group insurance products, with existing infrastructure unable to efficiently accommodate both legacy and new business lines. Manual and fragmented workflows limited timely access to information and introduced frequent processing delays. Operating on legacy platforms that lacked modern error-handling mechanisms, the company experienced periodic system slowdowns, which affected reporting speed and reliability. Addressing these challenges became essential for ensuring accurate regulatory submissions, supporting business growth, and maintaining stakeholder trust in an increasingly data-driven market.



Ahana's Solution

To address the challenges of managing increasing data volumes, which grow by approximately 1.2TB annually for group insurance products, Ahana implemented a dedicated enterprise data warehouse focused on scalability, accuracy, and efficiency. The solution incorporates proven best practices to optimize operational workflows and ensure data integrity:

- **Incremental Loading Strategy:** All data integration jobs were designed to process only new and changed records, minimizing load times and improving resource utilization during each cycle.
- **Dedicated Warehouse Environment:** Segregating group insurance data into its own warehouse ensured focused scalability and prevented interference with other legacy data processes.
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- **Technology Modernization:** Migration from Sybase IQ to the Oracle database platform, combined with Informatica for ETL, enabled direct bulk data loads that significantly reduced processing time, supporting timely operational and T-1 reporting.
- **Data Reconciliation Process:** Robust validation steps, such as record count and checksum verifications, are embedded at each processing layer, guaranteeing 100% data accuracy and building trust in report outputs.
- **Restartable Jobs:** Data loading processes are fully restartable at any failure point, drastically reducing downtime and eliminating the need for manual intervention, thereby enhancing operational resilience.

Additional Enhancements

- **Automated Alerts:** Email alerts are configured for job failures, ensuring prompt notification and quick resolution of any processing issues.
- **Batch Job Optimization:** All jobs are optimized to complete within 15–20 minutes per batch, improving operational efficiency and minimizing turnaround times.
- **Streamlined Parallel Execution:** Implementation of parallel job execution has eliminated the need for manual load balancing, further enhancing process reliability.



Impact

- 1) Faster data processing and reporting:** Data integration jobs were optimized to complete within 15–20 minutes per batch, significantly reducing turnaround time and enabling more timely access to business-critical reports.
- 2) Improved system reliability and scalability:** The dedicated warehouse environment supports over 1.2TB of annual data growth for group insurance without disruption, ensuring smooth operations as data volumes continue to expand.
- 3) Improved stakeholder confidence through accurate and timely data:** Consistent record count and checksum validations at each processing layer guarantee 100% data accuracy, providing stakeholders with trustworthy, up-to-date information for decision-making.
- 4) Reduced operational overhead for support teams:** Automated failure alerts and fully restartable jobs have minimized manual intervention, allowing support teams to focus on higher-value functions.

Conclusion

By deploying a reliable enterprise data warehouse, the insurer streamlined complex data management into a simpler, more efficient process. This solution delivered faster reporting, ensured complete data accuracy, and supported smooth scalability for future growth. With automation and real-time validation in place, the client now benefits from faster insights and increased confidence in their data.

About Ahana Systems and Solutions

Ahana Systems & Solutions is a leading IT services provider specializing in Digital Transformation and Data Management. With expertise spanning Cloud, Data Warehousing, BI & Analytics, RPA, and Application Development, we empower over 100 clients worldwide to achieve operational excellence and business agility.

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