

# Oracle Insurance Analytics, Reporting and Integration Repository

Managing an insurance business has never been easy. With the regulatory environment continually changing and trying economic conditions, it has become harder for many carriers to be successful in the market. The challenge is to make better decisions than their competitors. Having immediate access to current information can make a huge difference in being able to respond quickly to market events and gain a competitive advantage. Many carriers are looking to leverage their policy data into actionable information by using data warehouse and Business Intelligence (BI) to analyze the policy data. Unfortunately, homegrown data warehouses sometimes need to directly access the policy production database and a poorly written query could bring the production environment to its knees and potentially cause other issues. Because of this, many carriers are looking for pre-built solutions that can dramatically reduce the risk while still having the ability to analyze the policy data.

## **Oracle insurance analytics, reporting and integration repository helps carriers access policy data without the risk**

Oracle Insurance Analytics, Reporting and Integration Repository (ARIR) is an operational data store add-on to Oracle Insurance Policy Administration (OIPA), a flexible, on premise solution that has been used by many leading carriers to manage customers' policies. OIPA is a rules-based system that is optimized to manage transactional activities and processing information for the policy life cycle. However, it is not directly optimized for extracting, reporting and analyzing of policy data for business and regulatory purposes. Therefore, Oracle offers Oracle Insurance Analytics, Reporting and Integration Repository to augment OIPA. ARIR provides a platform for analytics engines to point to and for business users to extract production data that can be used by downstream systems.

Oracle Insurance Analytics, Reporting and Integration Repository's data storage mirrors the OIPA production data and enables users to run reports without actually hitting the production database, thus reducing the security and performance risks. Users can periodically update ARIR and set the frequency of updates to once a day or multiple times a day depending on their needs.

### **Key Features**

- Moves data into staging area in real-time using Oracle GoldenGate
- Creates stored procedures to transform and move data from staging to target
- Generates ARIR Schema from OIPA configuration
- Automatically replicates OIPA data
- Uses OIPA services for security and data definitions

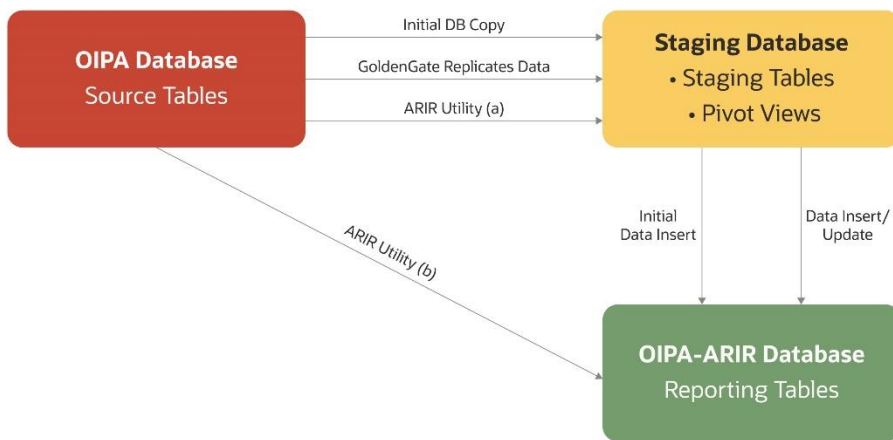


Figure 1. Oracle Insurance Analytics, Reporting and Integration Repository Process Flow

Setting up the Oracle Insurance Analytics, Reporting and Integration Repository is straight forward and requires little effort on the part of the customer. The ARIR schema is generated from OIPA configuration and the data is replicated automatically. Below is the high level process flow of setting up ARIR:

- User sets up the environment (i.e. database, users, Oracle GoldenGate, etc.)
- Initial DB copy (expdp, impdp)
- Oracle GoldenGate replicates data from OIPA database to Staging database
- ODS Utility:
  - Creates pivot views in Staging DB
  - Creates ARIR tables initial run
- Initial data inserts in ARIR tables
- Data insert/ update to maintain data integrity

### Oracle insurance analytics, reporting and integration repository is optimized for performance

The use of a data warehouse is typically the first step before carriers can start analyzing their policy data. Data is extracted periodically from multiple applications that support business processes. Once in data warehouse, the data is restructured, reformatted and supplemented with data from other sources. The resulting data warehouse becomes the main source of information for analysis and reporting. Unfortunately, since the generic data warehouse retrieves data from multiple applications, it is usually not optimized for all applications – it might be optimized for a single application and the others will play secondary roles. That means that during the implementation, carriers are forced to fit the data to whatever the model that primary data source uses. Additionally, when the source application has a new release, the carriers will need to update their schema and modify their internal data warehouse to accommodate this new release. So with generic data warehouses, maintenance becomes a hassle.

### Key Business Benefits

- Reduces the impact of integration and reporting on the OIPA transactional system
- Allows customer to seamlessly move with the new releases of OIPA
- Reduces OIPA data warehouse maintenance
- Faster ad-hoc query and improve reporting performance
- Reduces the risk of security and slow performance on the OIPA production system.

Oracle Insurance Analytics, Reporting and Integration Repository, on the other hand, is optimized to work with Oracle Insurance Policy Administration. Oracle has inherent knowledge on how OIPA tables are structured and knowing which tables need to be flattened allows Oracle to optimized ARIR. The denormalized structure of ARIR allows users to get ad-hoc query data quickly and deliver fast reporting. Additionally, there is automatic update on upgrade. ARIR will read the new OIPA configuration data from the carrier's implementation and update the ARIR schema as necessary, allowing customer to seamlessly move with the new releases of OIPA.

Oracle Insurance Analytics, Reporting and Integration Repository also provides other features such as:

- Scripts to generate a database schema from the existing OIPA data records and rules – The scripts to build and update the schema are logged and saved and are available to users.
- View to display records of the ARIR schema creation and update actions – The view includes number and names of ARIR tables created/updated as well as number of tables not created/data errors.
- View to display records added/updated to the ARIR database from OIPA – The view includes number of records loaded into each table as well as number of records rejected/failed data errors.
- View to allow user to set the ARIR refresh frequency with data from the source database instance – Users can set up the scheduling down to minutes interval.
- Dashboard to show all run statistics such as: run type, run status and time stamp.

## Summary

Carriers need to be able to respond quickly to market events, and they depend on data warehouse and business intelligence to turn the massive amount of data from operational systems into actionable information. However, homegrown and generic data warehouses have their own limitation and are not optimized for a particular application such as OIPA. Oracle Insurance Analytics, Reporting and Integration Repository allows users to run analytics and extract policy data without the need to access the OIPA production data. It reduces the risk of security and performance while optimizing the access to policy data. ARIR provides a solid platform for carriers to analyze current and long-term trends, alert them with opportunities and problems, and become more agile in the market.





## Related Products

- Oracle Insurance Policy Administration
- Oracle Insurance Data Foundation
- Oracle Insurance IFRS 17 Analyzer

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