

Solution Brief

Incorta Intelligent Ingest for Azure Synapse

Incorta slashes the time, effort, and investment needed to bring Oracle application data to Azure Synapse Analytics.

UNLOCKING CUSTOMER DATA LOCKED IN ORACLE APPLICATIONS

For Azure Synapse Analytics customers who wish to provide business intelligence for Oracle E-Business Suite and Oracle ERP cloud, the road from data to insights can be long and expensive.

Most of these users are migrating from Oracle EBS to Oracle Applications Cloud, which is neither seamless nor straightforward, and presents formidable challenges for analytics and reporting.

- Existing data warehouses and reporting must be rebuilt
- Phased migrations require simultaneous reporting from EBS and ERP Cloud
- Historical, transactional data typically won't be migrated
- Oracle Cloud doesn't provide public APIs for bulk data extracts

Given current market realities, and the need for agility and efficient decision-making, the existing ETL solutions are too costly and take too much time to implement.

RAPID ORACLE IMPLEMENTATIONS WITH INCORTA INTELLIGENT INGEST

Incorta Intelligent Ingest for Azure Synapse accelerates enterprise data to analytics by connecting to enterprise applications (some of which don't have APIs), defining the relationships and logic needed for business users to utilize that data, and loading it into Azure Synapse via the Azure Data lake

This allows customers to skip all the data modeling and transformations done with the traditional ETL/ELT processes. By leveraging Incorta Blueprints, customers gain rapid access to enterprise data, and are able to reduce implementation time by as much as 85 percent.

Incorta makes Synapse the indisputable EDW choice in a complete solution by providing a way to go from POC to full production in only a couple of weeks versus the traditional way that can take 12 to 24 months.

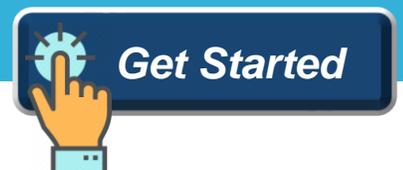
In Short...

Incorta rapidly ingests data from Oracle Applications and automatically established the logic required to prep the data for complex analytics by leveraging its innovative "direct data mapping" technology and proprietary "blueprints". Enabling customers to go from raw-data to conducting complex analytics with Azure Synapse in *weeks, not months/years.*

Incorta is the "go to" data and analytics solution for customers with..

- Oracle e-Business Suite
- Oracle ERP Cloud
- Oracle Netsuite
- Oracle JD Edwards

Incorta and Azure Synapse share a common data lake format for seamless integration.



HOW DOES IT WORK?

The pipeline starts with **Data Connectors** which are responsible for extracting data from source systems and applications, providing schema information, and standardizing the data structures. There are over 40 connectors available today, and an expanding ecosystem of connectors being developed by Incorta and its partners.

The **Data Loader** handles scheduling, orchestration, data management, metadata management, compaction, and logging. Data is written to Parquet files onto Azure Data Lake Storage Gen 2. When Incorta is configured onto a cluster, Data Loading can occur in parallel.

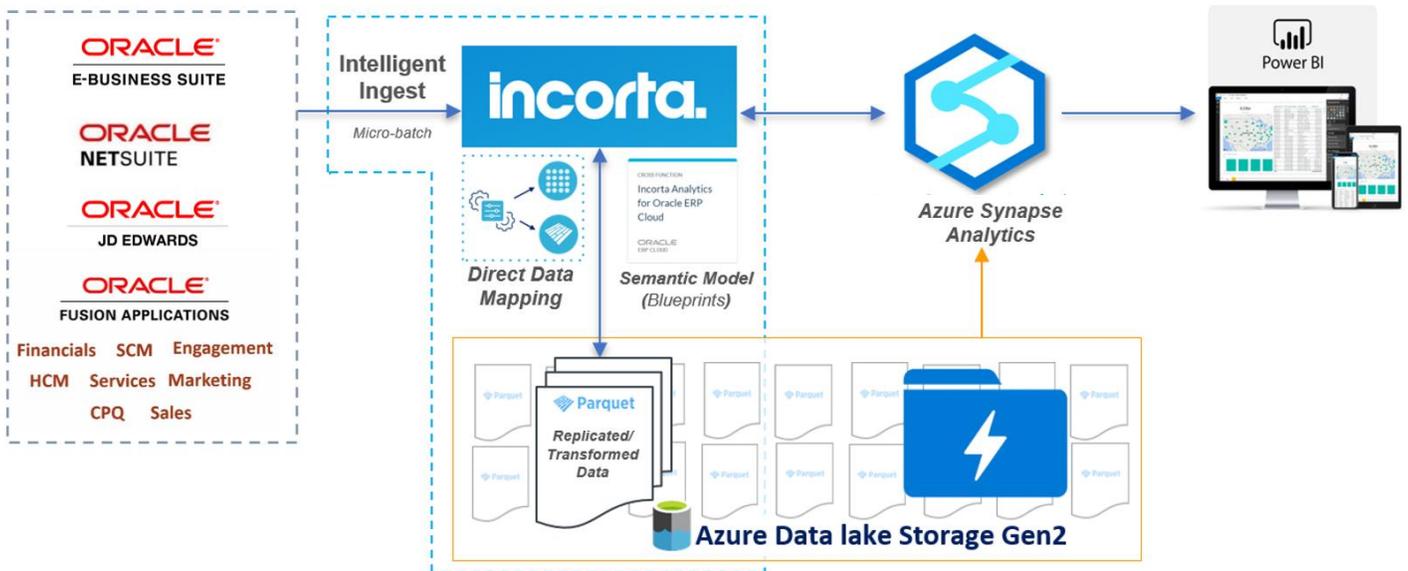
The **Schema** is metadata about the properties of each physical source table and includes the source or location for the data, the table columns, data types, joins between tables, formula columns (computed and persisted columns), and runtime security filters.

Incorta Blueprints capture best practices and pre-built content for accessing, organizing, and presenting data from popular business solutions. Blueprints contain data connection properties, physical schema descriptions, business views, materialized views, and sample queries.

Pre-built metrics answer real-world questions like "What's my cash conversion cycle?", "How many payments to our key supplier groups are overdue?" or "What is our current asset value?" Blueprints slash the time and effort required to bring enterprise application data to Azure Synapse users.

Microsoft Azure Synapse reads the prepared and user-friendly Parquet files from the shared data lake, making the data available for analytics users.

Since the data lake consists of standard Parquet files, companies can optionally access the data from other 3rd party tools, such as Databricks to implement Machine Learning on Spark.



The **Business Schema** is a logical grouping of one or more physical tables and a subset of physical columns. It is used to create a business semantic layer, or business view, and provides end-users with an intuitive entry point into the data.

Materialized Views persist the business views to the data lake. They can also implement complex transformation logic in Scala, R, SQL and Python. Materialized Views are written and debugged in a notebook interface and can read from multiple data sources and include arbitrarily complex logic including Machine Learning algorithms. MVs with complex logic are also persisted to the data lake.

INCREDIBLE CUSTOMER OUTCOMES!

- **Faster, Easier Migration**
 - Leverage pre-defined Semantic Model/Business Views proven with F100 customers
 - Rapidly migrate all data with inherent logic
- **Reduced Complexity and Enhanced Insights**
 - No Risk of Data Fidelity and Reporting Accuracy
 - Drill Down to the Granular, Transactional Layer
- **Reduced Project Cost**
 - Less Scripting/ Overhead Support
- **Enhanced Customer Value and ROI**
 - Enable True Self-Service for the LOB