

Cutting-Edge Data Integration Delivered In The Cloud

An overview of Oracle Data Integration Cloud's capabilities

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More and more organizations are making forays to adopt the cloud as a platform (Platform as a Service, PaaS) to develop, deploy, integrate, or extend their applications. There is a long list of use cases in which organizations embrace cloud initiatives to save costs and to better adapt to changing business demands. They range from utilizing cloud-based solutions to bolster disaster recovery and backup strategies, create shared data repositories for distributed work groups, and further big data analytics projects, among others. However, a poorly executed cloud integration strategy often prevents them from succeeding. According to a 2015 study conducted by Unisphere Research among Oracle users, 42 percent of public cloud users cite application and data interoperability as one of the top three challenges of moving to cloud.

The Unified Cloud Platform Approach

Oracle helps organizations integrate on-premises and cloud data sources via real-time and bulk data movement, data enrichment, and data transformation capabilities delivered in the cloud. Oracle approaches its cloud strategy as a platform, allowing customers to assemble and build further applications, processes and technology on top of those offered by Oracle Data Integration Cloud. This approach allows customers the choice of multiple use cases and technologies for any of their business and technical data integration requirements.



Fig 1: Solutions provided by Oracle Data Integration Cloud

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Some of the most common use cases for Oracle Data Integration in the cloud are

- » Data Migrations with repeatable, proven automated data integration solutions without interrupting source systems availability,
- » Data warehousing & data consolidation from heterogeneous on premises and cloud databases for cloud based data warehousing as a service strategies,
- » Easily operating dev-test in the cloud with production-like data,
- » Data availability and reliability at exacting SLAs
- » Integrating with 3rd party cloud solutions

The components of the Oracle Data Integration Cloud

The need to have high and ubiquitous data availability to make every day and strategic decisions remains the same whether a business stores its data in the cloud or in its own data center. To support organizations with their move to the cloud and enable interoperability with existing on-premises and cloud data sources, Oracle Data Integration Cloud offers three main sets of product capabilities:

- Real-Time Data Replication – provided by the included Oracle GoldenGate Cloud Service. Customers can move data from Oracle and non-Oracle data sources with sub-second latency, security and reliability. Oracle delivers an industry first in its ability to replicate data in real-time or in batches from on-premise to the Cloud or from one Cloud to another.
- ETL and ELT Bulk Data – provided by the included Oracle Data Integrator Cloud Service. This unique capability can deploy ETL workloads across a wide variety of PaaS platforms including Oracle DBaaS, Oracle Big Data Cloud, and even non-Oracle DBaaS such as AWS Redshift. Oracle is the only vendor offering ETL capabilities that can shift the heavy workload among a variety of PaaS environments.
- Data Pipelines and Machine Learning – provided by the upcoming Oracle Dataflow ML streaming data pipeline service. Oracle can deploy Big Data pipelines in an elastic Spark pipeline using batch and stream processing at the same time. Customers can bring their own Spark programs, or build them in an intuitive Dataflow ML user interface. Integrated Apache Kafka components are used for data transport within Oracle Cloud.

Oracle's combination of PaaS and IaaS combined with SaaS provides customers with both the cloud environment along with the necessary software and technology to recreate and refine their data needs on the cloud.

Oracle Data Integration Cloud will come in two editions:

- Standard Edition –Offers data transformation, ETL, bulk data movement, and when available, the new data pipeline service.
- Enterprise Edition – Includes advanced real-time data replication capabilities in addition to those of the standard edition.

Oracle Data Integration Cloud provides a comprehensive technology platform to integrate data across on-premises and cloud environments seamlessly so that customers can focus on driving innovation.

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