# ATTUNITY

# Enabling SAP Analytics

## Challenges for today's SAP environments

Many of the world's largest enterprises run their critical business operations on SAP applications. Using one or more SAP applications such as ECC, HR and CRM, these organizations capture critical objects within SAP systems. Making this data available for business intelligence and analytics is a common need in order to support decisions and analytic processes that improve operations, optimize customer service and enable the company to compete more effectively. To do so, companies often look for ways to bring live SAP data into their analytics platform of choice, where they can merge the SAP data with other business information and serve a growing number of users. However, extracting this data from SAP, including the SAP HANA in-memory computing platform, can be challenging due to the underlying data model and complex data structures. The process can be manual, time-consuming, and prone to delays.

## Deliver SAP data to any platform— quickly, easily and in real time

Attunity Replicate for SAP is a high-performance, automated and easy to use data replication solution that is optimized to deliver SAP application data in real-time for Big Data analytics. It moves the right SAP application data easily, securely and at scale to any major database, data warehouse or Hadoop, on premises or in the cloud. This solution builds on Attunity's long history of integration with SAP applications, SAP HANA and now the SAP S/4 HANA suite.

Attunity Replicate for SAP is unique in that its innovative technology converts the complex data structure into an easily accessible data model. The solution moves SAP application data easily, securely and at scale to any major data platform, including modern data lake, streaming and/or cloud architectures. This empowers customers to turn a typical complex data model of thousands of tables into a data replication task at the business or transaction level, quickly and easily. The solution provides a unified means for replicating SAP documents, transactions and business data to a diverse ecosystem of analytics environments. By analyzing this data, enterprises can improve operations, capitalize on customer opportunities and compete more effectively.

Attunity Replicate for SAP automatically incorporates SAP text and descriptions into the target table and column names, simplifying user comprehension of target objects. Attunity Replicate for SAP copies documents, transactions or business data, from any standard SAP ERP module, including CRM, HR, SRM, or any industry specific module. Complex SAP structures such as pool and cluster tables are supported, as well as custom tables. Attunity Replicate for SAP also replicates external data into SAP HANA, creating additional analytics possibilities.

### BENEFITS

- ☐ **Easy external access to data from SAP and SAP HANA**
- ☐ **Broad heterogenous support**
- ☐ **Real-time integration**
- ☐ **Secure and high speed cloud data transfer**

### ENTERPRISE USE CASES

- ☐ **Integrate data in real-time with change data capture (CDC) technology**
- ☐ **Transfer SAP data off premises for cloud-based analytics**
- ☐ **Ingest SAP data into Hadoop Data Lakes**
- ☐ **Publish SAP transactions to a message stream such as Kafka, Kinesis or Azure Event Hub.**

**Broad Heterogeneous Support (including Hadoop and cloud).**

Leverage the industry's broadest support of targets. Easily integrate structured SAP data with unstructured data (from IoT, social media or other sources) in Hadoop for new insights. In addition, Attunity Replicate for SAP transfers external data from any major non-SAP source into SAP HANA.

**Real-time Integration with CDC**

Attunity Replicate for SAP change data capture (CDC) technology continuously updates targets to enable real-time insights. Data transfers are intentionally designed to maximize throughput and minimize latency.

Attunity Replicate for SAP can apply transactions or changes in order and in real time.

**Ease of Use and Automation**

Our intuitive web-based console makes it simple to configure, control and monitor replication tasks across all sources and targets. Execute bulk data loads, then transition automatically to continuous CDC for consistent updates. Attunity Replicate for SAP can also automatically generate target databases or tables based on metadata definitions in the source schema. Any DDL changes made to that schema, such as table/column additions or changes to data types, will be replicated dynamically to the target.

**Low Impact**

Replicate data from SAP production with zero downtime, with no additional hardware required on the SAP source. In addition, by identifying changes within source logs, Attunity Replicate CDC protects the performance and integrity ofproduction transactions.

**Secure and High Speed cloud Data Transfer**

Attunity Replicate for SAP compresses, encrypts and transfers data in parallel streams into, across and out of cloud architectures, including Amazon Web Services, Microsoft Azure and Google Cloud.

**CAPTURE AND TRANSFER COMPLEX SAP FORMATS FROM TABLES**
(POOL, CLUSTER, CUSTOM, ETC.)

**SAP HANA**

CDC

BATCH

**TRANSFER**

**IN-MEMORY**

FILTER  TRANSFORM

INCREMENTAL

BATCH

HADOOP

RDBMS

**DATA WAREHOUSE**

FILES

MAINFRAME

**PERSISTENT STORE**

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