Why Enterprise Data Integration With UniConnect Is Like Magic...

Data Analysts

Combine 250+ data sources with a single query

Data Architects

Cut query response times from hours to minutes and seconds

IT Heads

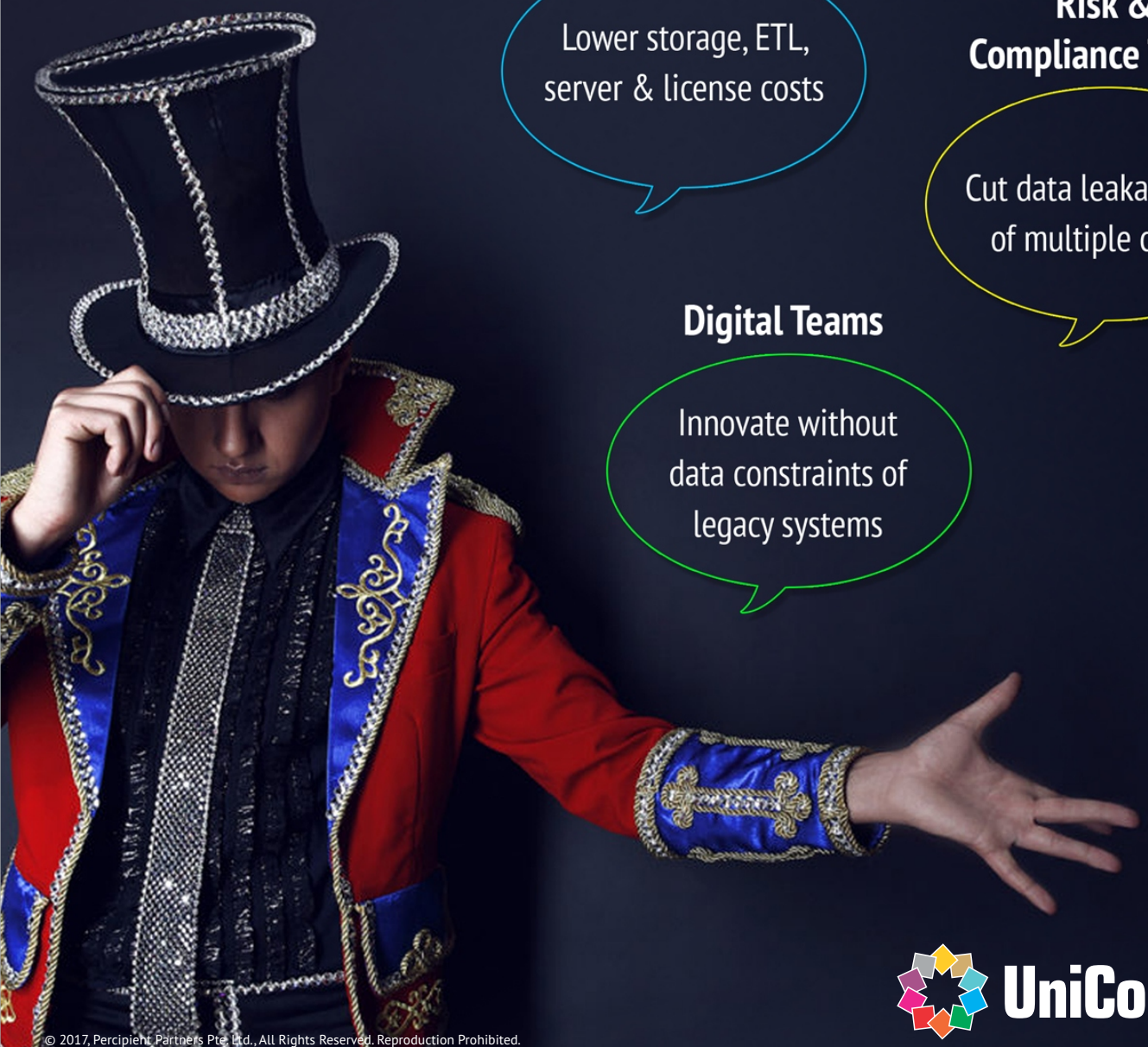
Lower storage, ETL, server & license costs

Risk & Compliance Teams

Cut data leakage risks of multiple copies

Digital Teams

Innovate without data constraints of legacy systems



UniConnect™
Data Connected©

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UniConnect© | Datasheet

Percipient
intelligent data engineering

Connecting The World's Data Sources

EASIER

- Write a single SQL query to combine multi-structured data
- Preserve all existing systems and technologies

FASTER

- Access and apply your data in real time
- End-of-Day batches become a thing of the past

CHEAPER

- Affordable storage
- Reduce ETL infrastructure
- Scale-out not Scale-up architecture

SAFER

- No physical data movement
- Cut risk of multiple copies of data

Next Gen Data Integration

The UniConnect platform is designed to unify data in a highly scalable and seamless manner, by building on an organisation's existing tools, processes and skills. It enables organisations to meet their most pressing data challenges, including those of cost and inefficiency, while ensuring that they are future-proofed for the revolutionary potential that big data can bring. UniConnect amalgamates, integrates with, and enhances select open source software, including Hadoop, Presto, Spark, Kafka and Cassandra, to deliver four key capabilities:

Data connectors

UniConnect enables interactive analytical querying of data where it lives, via a connector. In this way, multiple data tables, regardless of origination, format or type, can be accessed via a single UniConnect query. To date, the platform offers over 250 connectors including to all standard relational databases, traditional warehouses e.g. Teradata, data lakes e.g. Hive, analytic engines e.g. SAS, real time sources e.g. IoTs and social media, CSV files, blockchain, APIs, etc

In-memory processing

Unlike traditional data integrators, UniConnect unifies data in memory, that is on-the-fly, using a computer's main memory instead of its hard disk. There is no need for the data to be staged or centralised in a Data Warehouse. In memory processing is not only substantially faster, but more secure as data is not physically copied. No additional ETL tools are needed except for complex transformations.

SQL-based queries

UniConnect enables data to be accessed, explored and queried in memory via a single language (i.e. SQL) and a single screen (i.e. using UniConnect's own interface, or a third party analytics or BI interface via a JDBC connector. Data from multiple sources are joined at scale using intelligent predicate based filters, which is not possible with Open Source frameworks such as Spark.

Distributed data

In UniConnect, queries are parsed and then distributed among a cluster of compute nodes, rather than relying on a single centralised server. These nodes process their data in parallel, rather than sequentially, and the outcome is then reassembled for the final result. Distributed data processing delivers cost savings, reliability, and high performance even for large data volumes.

Data management solutions

UniConnect is integrated with a variety of open source data management tools including those for data cleaning, complex transformations, storage, governance, security, and scheduling. UniConnect's seamless integration with Spark enables analysts to access Spark's superior data analytics and machine learning capabilities. These help eliminate the need of traditional and expensive proprietary offerings from legacy vendors.

Here is a summary of UniConnect's key functionalities:

Business Requirements	UniConnect Functionalities
Operational Efficiency	• Unifies data across multiple sources without copying • Direct access to HDFS/Hive • Supports in-memory processing • Data compression and access to compressed data • Cloud based deployment for each LOB, if required
Scale-out Data Storage	• Scalable and expandable using commodity machines • Extensible licensing model
Data Security	• User restricted access • Maintains the user authorisation of the underlying platforms • Admin user interface supportive of audit protocols
Real-Time User Engagement	• Able to integrate real time messages with structured & unstructured data • Reads real-time URL data (JSON format)
Reporting & Advanced Analytics	• Supports SQL queries • Exposes APIs for external reporting applications • Integrated with Spark for processing power, machine learning algorithms and graph computations • Connectivity with R statistical computing and graphics environment • Data retrieval and ability to create tables from unified data

Today, the bulk of enterprise data remains trapped in legacy or spaghetti-like architecture. By unlocking data, UniConnect helps solve some of an enterprise's most complex, but also most rewarding, data challenges.

Data Unification	Real Time	High-Speed Processing	Storage Optimisation	No Data Replication	Machine Learning & AI
1	2	3	4	5	6
Better Dashboards	In-The-Moment Offers	Faster Analytics	Cost Savings	Multi-Agency Data Sharing	Customer Personalisation

UniConnect©

Data. Connected.

Faster

Cheaper

Safer

Easier

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