Informatica Data Replication

Empower Business Decision Making with Quick Access to the Freshest Data

In today’s fast-paced business climate, your company needs to respond to events as they happen. You need not only agility but also visibility—into all kinds of activities to ensure that business processes are optimized for peak performance. Basing decisions on data that is even just a few hours old can cost your company revenue and customers. Your company needs the freshest, most current operational data to capitalize on emerging opportunities and build a sustainable competitive advantage.

However, current information architectures contain heterogeneous systems and lack standardized integration tools. Integrating data across a diverse IT landscape, using disparate tools, adds an unnecessary layer of complexity. This complexity delays the timeliness of data, which results in decisions based on outdated information. Business risks increase when enterprises struggle to get access to the right data at the right time to make the right decision.

IT departments are hard pressed to deliver current operational data that’s needed to support business intelligence, real-time analytics, operational synchronization, and continuous availability/uptime initiatives—all of which are necessary to keep up with today’s pace of business. To stay competitive in this highly volatile climate, access to fresh data is critical. Informatica® Data Replication provides this access, dramatically improving the availability of data across your organization.

Informatica Data Replication is heterogeneous, real-time transaction replication software that’s highly scalable, reliable, and easy to configure—without disrupting the performance of operational systems. It enables IT organizations to supply the business with access to the most current data irrespective of the complexity and diversity of the IT landscape.
Key Features

Intuitive, Easy-to-Use GUI
An intuitive GUI supports all aspects of design and deployment, including mapping among different data stores and datatypes. This GUI makes Informatica Data Replication easy to implement and administer. IT organizations can construct and deploy distributed topologies, as well as monitor the performance and other characteristics of the replication process—all from a centralized location. GUI-driven mapping, configuration, deployment, scheduling, and management capabilities eliminate the need for scripting. You can design once and deploy anywhere across a distributed landscape.

Unobtrusive Transactional Capture
Log-based change data capture (CDC) techniques detect changed transactional data and deliver it to target systems with low latency while maintaining the transactional integrity of the data. Because it uses log-based CDC technology, Informatica Data Replication extracts data with minimal impact on the performance of the operational source systems. It accesses database logs instead of using performance-impacting database resources such as triggers or direct SQL queries. Transactional changes are captured in real time, and the changes are applied to other databases, data warehouses, analytical appliances, or even portable format text files, using flexible delivery scheduling.

Heterogeneous Support and Database Independence
Informatica Data Replication is a database-agnostic technology. It works seamlessly with an ever-expanding range of traditional and emerging source and target systems, seamlessly delivering data to databases, warehouses, analytical appliances, and big data stores. As more organizations adopt analytical appliances for their reporting needs, Informatica Data Replication provides optimized

“Informatica Data Replication plays a vital role in helping Westlake increase profitability, by improving revenue management and delivering the full spectrum of lending to each and every automotive customer.”
– Henry Torres, Senior Linux Systems Administrator
Westlake Financial Services
Informatica Data Replication has been elegantly designed to promote loose coupling amongst its components to foster reliability and robustness support for high-performance, transactional direct-data delivery into data warehouses and appliances such as Teradata, Netezza, Exadata, Vertica, and Greenplum. It can even facilitate loading big data stores by extracting the changed transactional data into a flat file that can then be loaded into Hadoop. It can also load into messaging servers such as JMS.

Informatica Data Replication uses an optimized method for quickly loading the data into warehouses and analytical appliances. It can apply light transformations on data-in-motion by leveraging SQL or TCL scripting before delivering the data to the target system. It supports a full range of replication topologies (e.g., one-to-one, one-to-many, many-to-one, many-to-many, and bidirectional configurations). It promotes automatic cross-platform mapping and facilitates schema and DDL replication across different platforms or environments.

Enterprise-Class Scalability and Reliability

Informatica Data Replication’s multi-threaded architecture is backed with automatic intelligent parallelism that makes it easy to scale across large data volumes. It delivers transactional change data with high performance while maintaining the data’s consistency. In bidirectional replication scenarios, the software automatically detects and resolves transaction collisions with predetermined rules to allow continuous operation without compromising data integrity.

Informatica Data Replication guarantees reliability of data delivery. A unique check-point mechanism enables granular, component-level recoverability from exceptions that may disrupt or prevent data from being delivered to the target system.

End-to-End Integration

As a component of the Informatica Platform, Informatica Data Replication provides a complete suite of sophisticated data management capabilities. The software works in concert with the core platform to meet all the data integration, data movement, data quality, and data currency needs of an organization.

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Key Benefits

Enhance Agility in Making Business Decisions
In an era where business moves at a breakneck pace, basing decisions on data that’s even a few hours old leaves a company perpetually a few steps behind. IT organizations need to provide business executives and management with the freshest data possible so that they can report on the most current information and remain alert to the most recent changes in operations.

With Informatica Data Replication, business users have continuous access to the freshest data for reporting purposes. The software makes current data available in your reporting environment regardless of data volumes. When fresh data is used for reporting or business intelligence purposes, it improves the quality and accuracy of business decisions, enhancing agility and helping companies to maintain their competitive edge.

Boost IT Productivity with Technology that’s Simple to Use, Easy to Configure, and Quick to Deploy
Informatica Data Replication helps your IT organization to be more productive and efficient. With its GUI-based console, the software is quick and easy to configure, deploy, manage, and monitor for any topology—one-to-one, fully bidirectional, and multi-site. Even advanced functions—such as conflict-detection-and-resolution and DDL replication between heterogeneous databases—are easy to configure. The software significantly reduces complexity while delivering fast time to value.

Lower Total Cost of Ownership
Informatica Data Replication dramatically lowers the total cost of ownership by providing a robust database-independent technology to capture and deliver transactional data in real-time from across heterogeneous data stores. This eliminates the need to invest in multiple, disparate database-specific point solutions for data extraction and delivery. Moreover, Informatica Data Replication nicely complements the award-winning Informatica Platform to offer a comprehensive suite of data management capabilities. By standardizing on a single best-of-breed integration platform, your IT organization will lower costs, increase efficiency, and easily service all the data integration needs of your enterprise.

Reduce Risks to Data and Systems
Informatica Data Replication minimizes risk in several ways. Through its unique checkpoint mechanism, the software enables auto-recovery from exceptions that may arise during the data delivery process, reducing the risk of data loss during replication tasks. The product also ensures transactional integrity of the data during delivery, preventing inconsistent data from being stored in the target system. Next, Informatica Data Replication has minimal impact on the operational source system, eliminating unnecessary overhead and reducing risk of failure or performance degradation of the system. Finally, by providing robust support for heterogeneous platforms, it minimizes risks associated with using disparate integration technologies to combine isolated silos of data from heterogeneous platforms.

About Informatica
Informatica Corporation (NASDAQ: INFA) is the world’s number one independent provider of data integration software. Organizations around the world rely on Informatica for maximizing return on data to drive their top business imperatives. Worldwide, over 4,630 enterprises depend on Informatica to fully leverage their information assets residing on-premise, in the Cloud and across social networks.