

SMART DATABASE REPLICATION — SMF MODULE FACTSHEET

Replication that runs quietly in the background.

Reliable, auditable delta replication between Netezza systems, for disaster recovery, reporting offload, and multi-appliance synchronisation. Configured once, monitored continuously from SMF Control Studio.

Minutes

Recovery time, not hours, with a live standby

Delta-only

Replicates only what has changed

Self-healing

Resumes automatically after any outage

Full audit

Every run logged: rows, timing, status

HOW IT WORKS

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Smart Database Replication is a module within Smart Management Frameworks (SMF) that handles delta replication between Netezza systems in a controlled, repeatable, and auditable way. It keeps a target appliance or database continuously in sync with your source, without manual intervention.

Replication jobs are defined through SMF Control Studio, where engineers configure source and target connections, schedule windows, and alerting thresholds, without writing bespoke shell scripts or maintaining fragile extract pipelines. When replication fails or lags, SMF raises an alert automatically; there is no need to check whether last night's job ran.

CAPABILITIES

What Smart Database Replication does

▪ Netezza-to-Netezza delta replication

Replicates incremental changes from a source appliance to one or more targets, keeping secondary systems current without full nightly refreshes.

▪ Fault tolerant and self-recovering

Survives interruptions. When an outage clears, replication resumes automatically from the point of failure, with alerts rather than silent gaps.

▪ Web-based management

Configure, monitor, and control every replication job from the SMF Control Studio web application. No command line required.

▪ Configurable schedule

Run on a fully configurable schedule, hourly, nightly, or tailored to avoid contention with peak workloads.

▪ Full audit log

Every run is recorded: start time, end time, row counts, and status. Queryable through SMF Control Studio and reportable for compliance.

▪ Multiple concurrent targets

Replicate from one source to several target appliances at once, for example a DR standby and a dedicated reporting instance from a single job.

Included in SMF Enterprise. Smart Database Replication ships as part of the SMF Enterprise tier, alongside Access Control synchronisation and Data Governance. See the Smart Management Frameworks factsheet for full tier pricing, or visit smart-associates.biz/products/smf.

WHEN TO USE IT

Common replication scenarios

▪ Disaster Recovery & Failover Readiness

Keep a warm standby continuously updated with production data, so the secondary can be promoted quickly without manual reconciliation.

▪ Multi-Site Data Distribution

Distribute specific datasets from a central instance to regional systems or downstream platforms.

▪ Reporting & Analytics Offload

Replicate to a dedicated reporting instance so analysts get near-real-time data without competing with production workloads.

▪ Cross-Platform Migration

Replicating to Databricks, Snowflake, or another non-Netezza platform is handled by Smart Data Frameworks (SDF), our dedicated cross-platform migration product.

Talk to an Engineer



Tell us about your source and target environments. We will assess the setup and confirm whether Smart Database Replication is the right fit. smart-associates.biz/solutions/smart-database-replication

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