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Progress® OpenEdge® Pro2: Unlock the Full Potential of Your OpenEdge Data

Steve Harmelin

Resource Manager, Progress Professional Services Worldwide
Pro2 and QAD

Satya Prasad – QA Engineer, Principal 3



Agenda

- Why OpenEdge Pro2?
- OpenEdge Pro2 Benefits
- Pro2 – Infrastructure
- Pro2 – Process
- Demo
- Pro2 – Business Cases
- Q&A

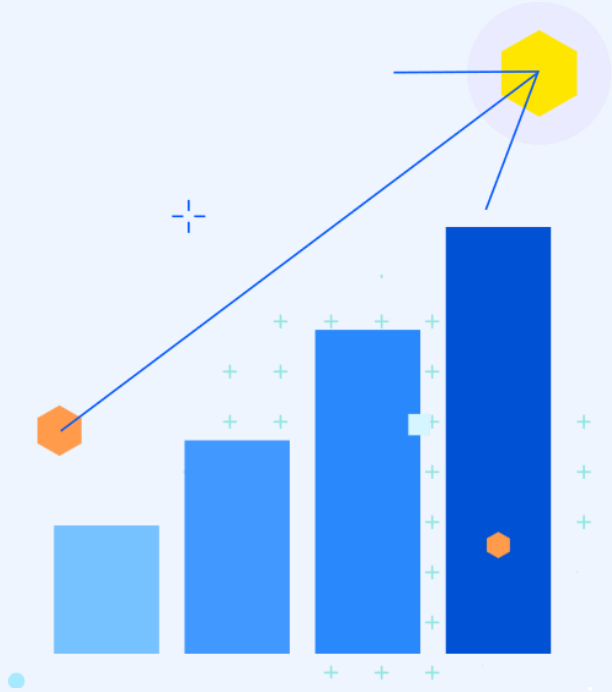
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Why OpenEdge Pro2 & Its Benefits

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Why OpenEdge Pro2?



- **Business Intelligence (BI) has become an integral part of daily business operations**
- **BI is a $41B+ per year business and growing, with large companies investing millions yearly in BI reporting tools**
  - Power BI, BI360, Tableau, Metabase, BlazeSQL, Domo, Sisense, ThoughtSpot and more
  - These tools are used to easily create and modify reports for running your business without having to write code
- **Pro2 extracts specific data you choose from your OpenEdge database, then transforms and replicates it to an MS-SQL or Oracle database**

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Why Not Replicate the Data Yourself?

BI systems are only as good as the last batch of data

- Old data can misrepresent current business operations
- Good business decisions don’t come from stale data

Application-level real-time data replication is difficult

- Managing different data types, data structures and external data targets can be challenging
- Maintaining continuous, secure connectivity is difficult to do without impacting database performance

Replicated data creates compliance challenges

- Exported personal data must be tightly controlled
- Unencrypted data transfers (i.e., via ASCII files) are not permitted

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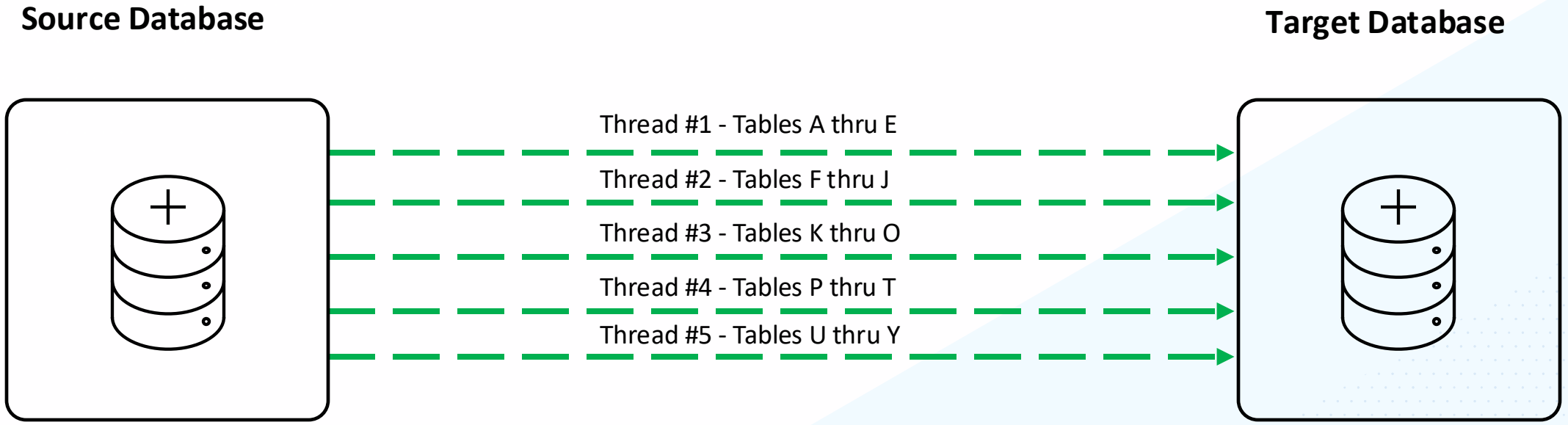
OpenEdge Pro2 Benefits

- Replaces the need for nightly data exports (i.e., stale data) with a near-real-time data replication solution for OpenEdge users
- Gathers changed data, transforms it and replicates it to a SQL or Oracle database automatically
- Uses multi-threaded data replication
- Complies with data transfer regulations
- Offloads the reporting overhead from the OpenEdge production application to mitigate interruptions and performance loss
- Supports applications using Progress OpenEdge 10.x through OpenEdge 13.x



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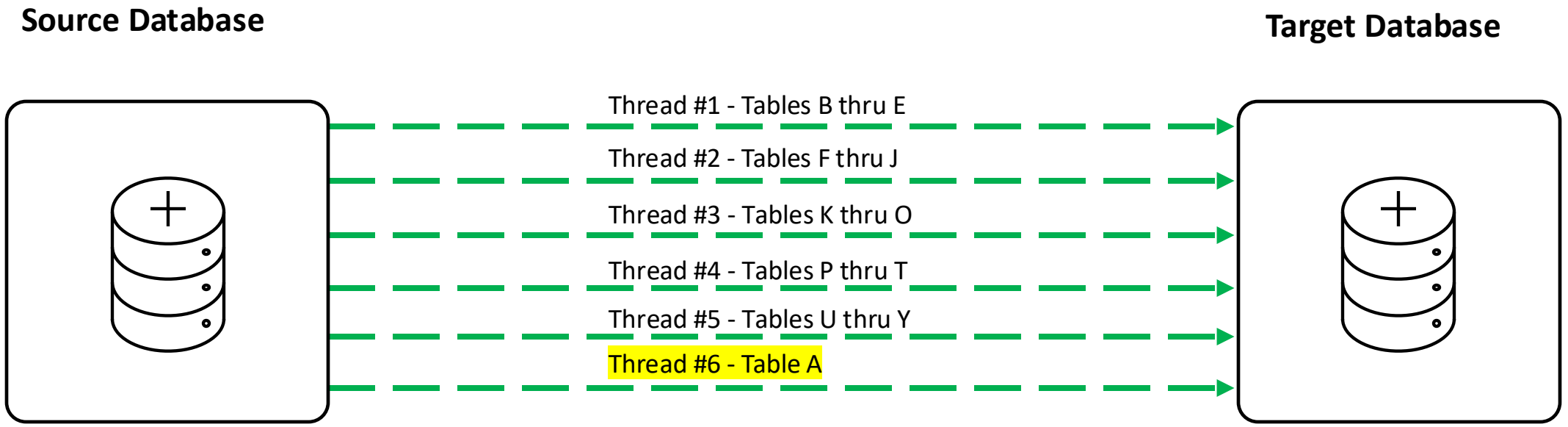
Initial Table to Thread Replication Configuration



- SQL/Oracle DataServers (a.k.a. Threads)
- Standard Pro2 License – 5 Threads
- Enterprise (Site) License – 30 Threads

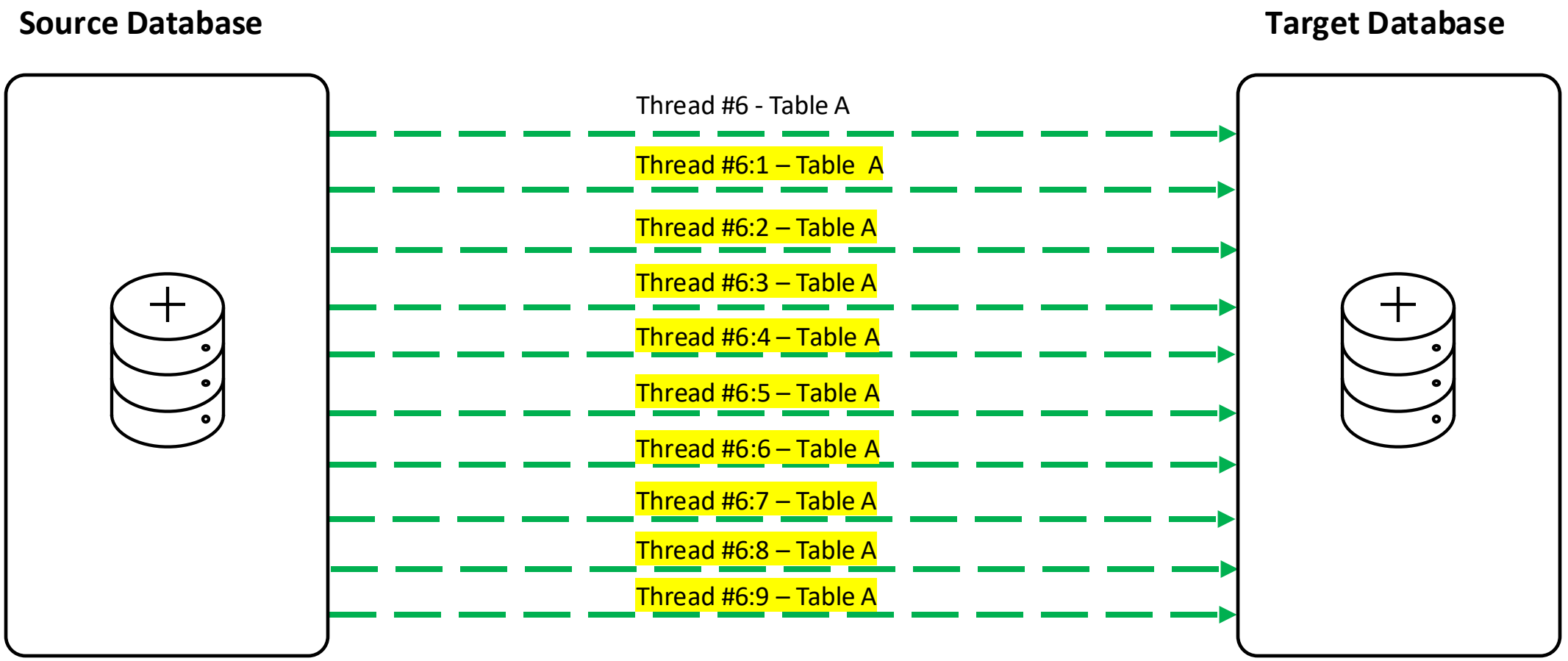
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Table “A” Moved to New Replication Thread



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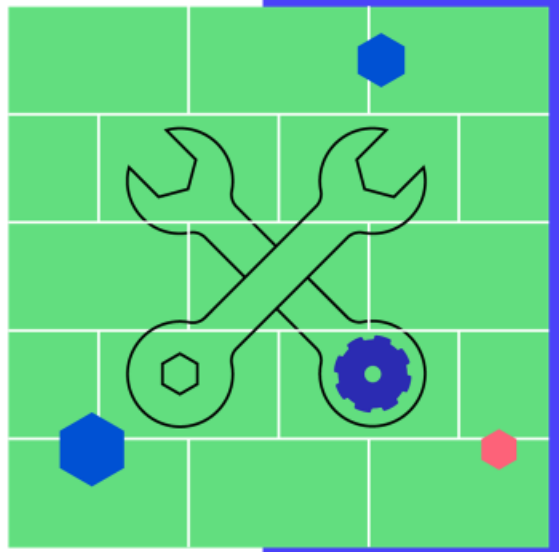
Thread Split to a Maximum of 10 Split Threads



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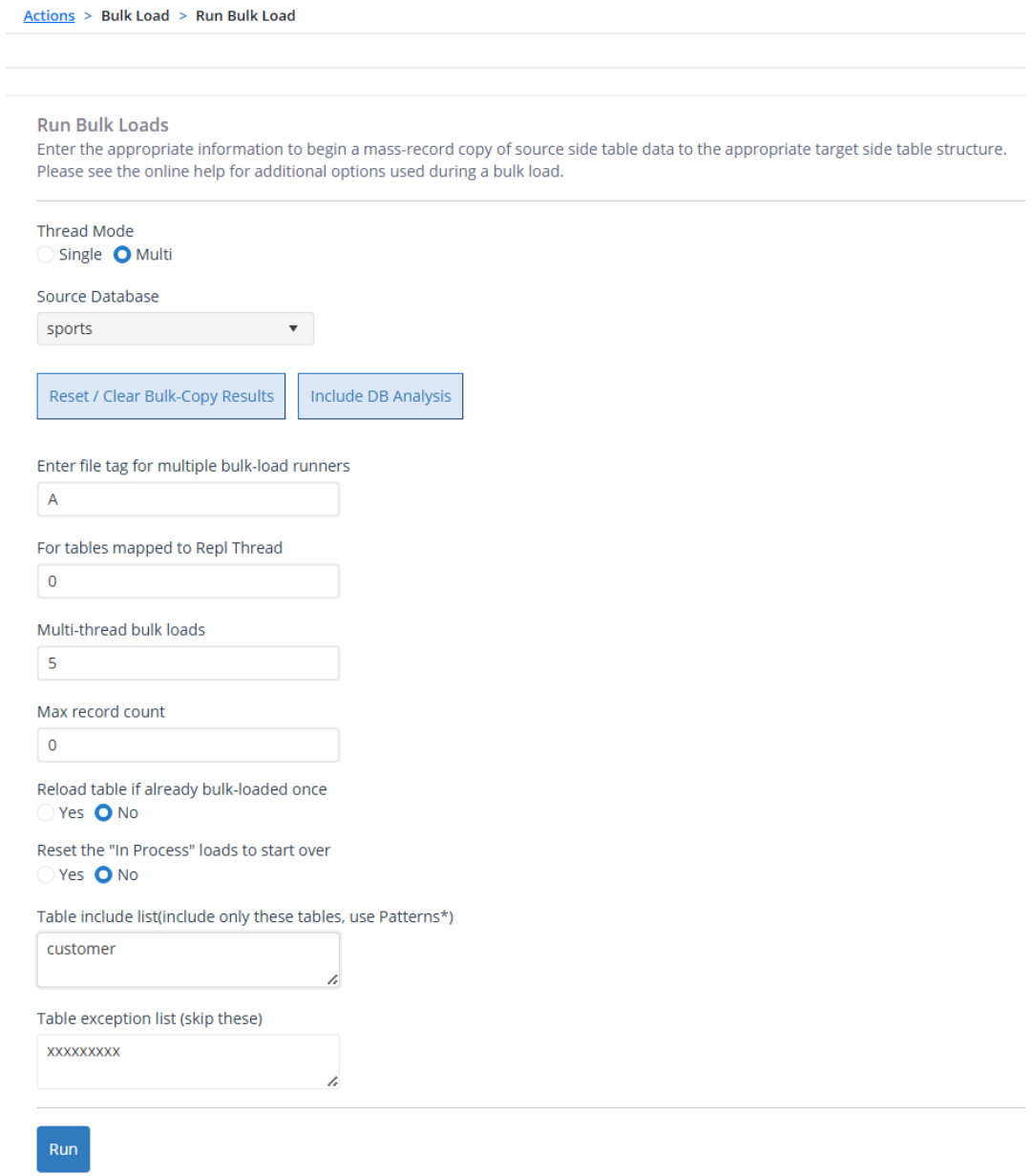
Pro2 v6.5.2 vs v6.5.3 Enhancements

- Split-threaded bulk loading
- Additional security hardening
- Improved
  - Hung thread handling
  - CDC & replication performance
  - Maintainability & reliability

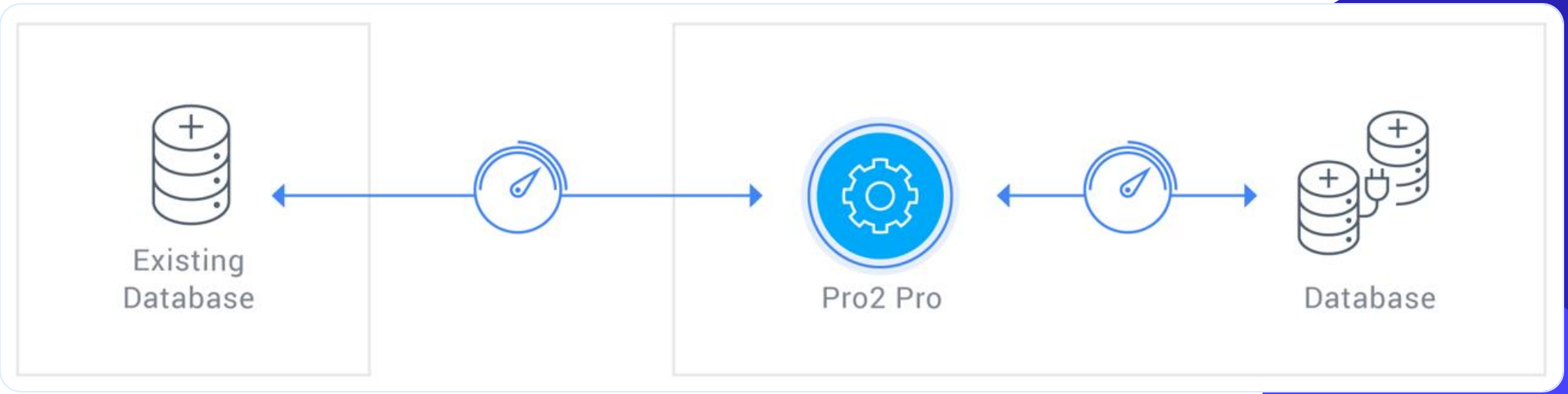


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New Feature: Split-Threaded Bulk Load



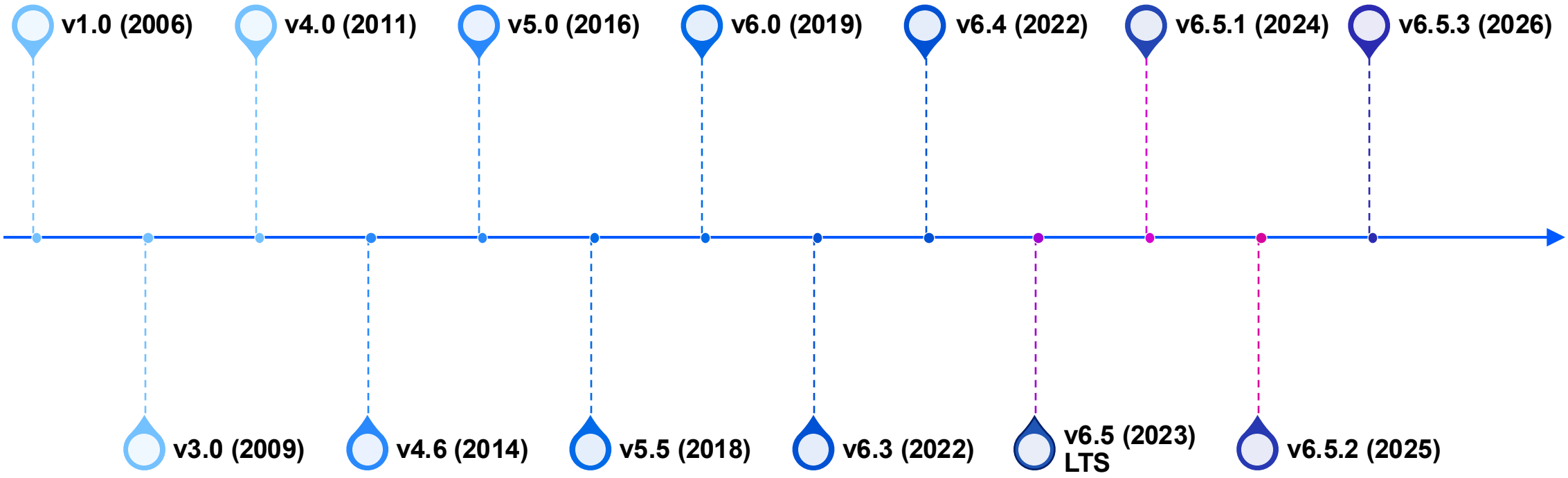
OpenEdge Pro2Pro – Server Migration



- OpenEdge database to OpenEdge replication
- Migrate from one platform type to another
- Dump & load alternative
- Minimal production downtime

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Maturity is Key



300+

Customers Worldwide

750+

Implementations

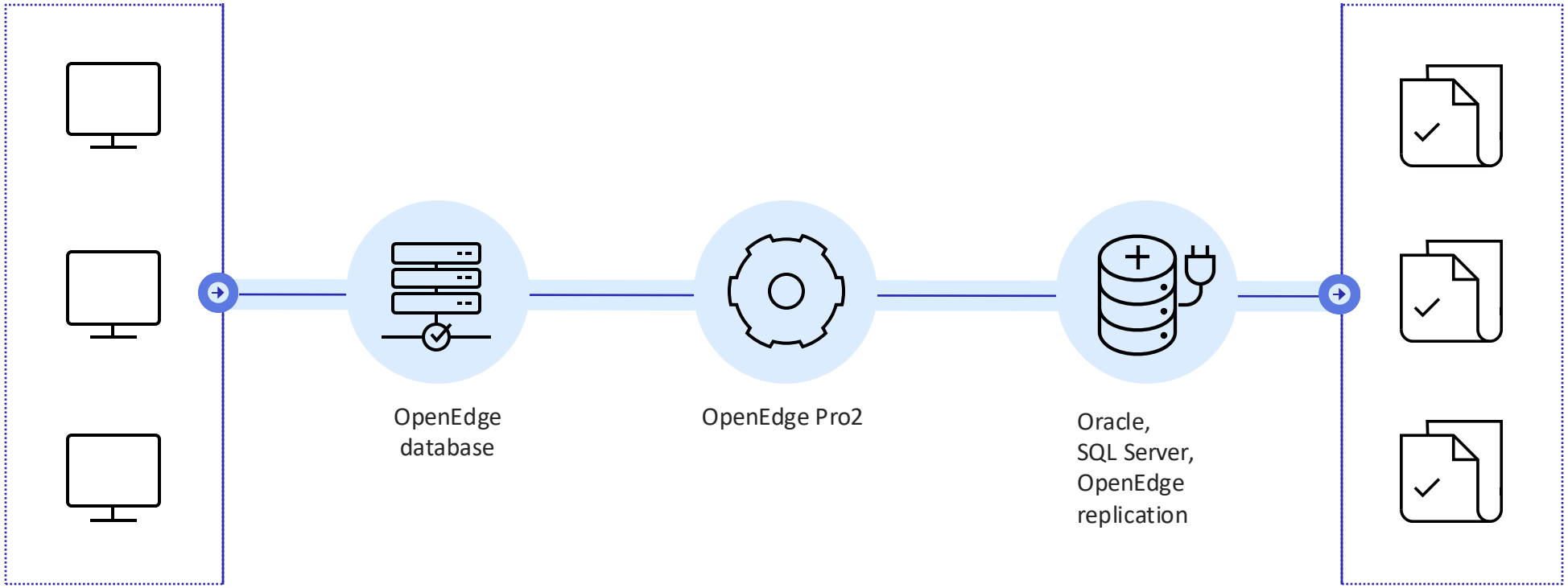
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Pro2 - Infrastructure

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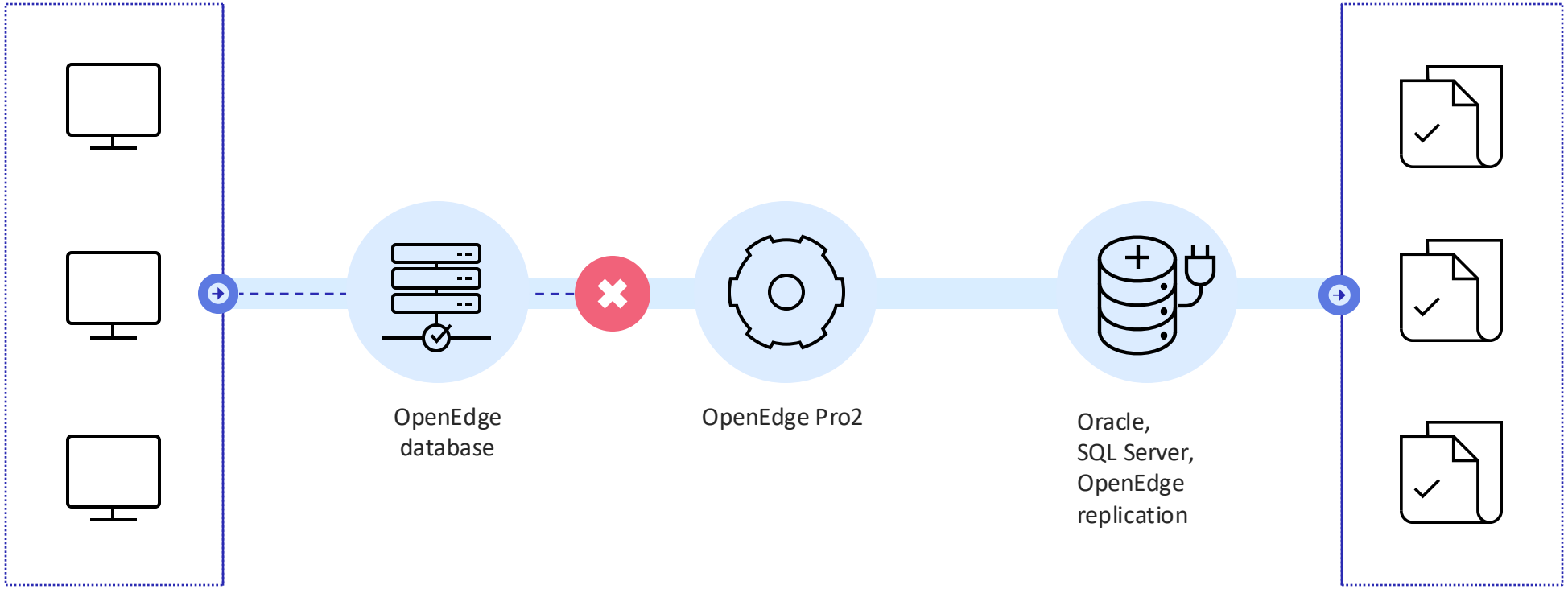
OpenEdge Pro2

- A near real-time data replication solution for OpenEdge users
- ×□□↓…□oMathrctrlPrmcmcsborderBoxaccfeqArrgroupChrfunclimUpplimLownarymradphantsSub database



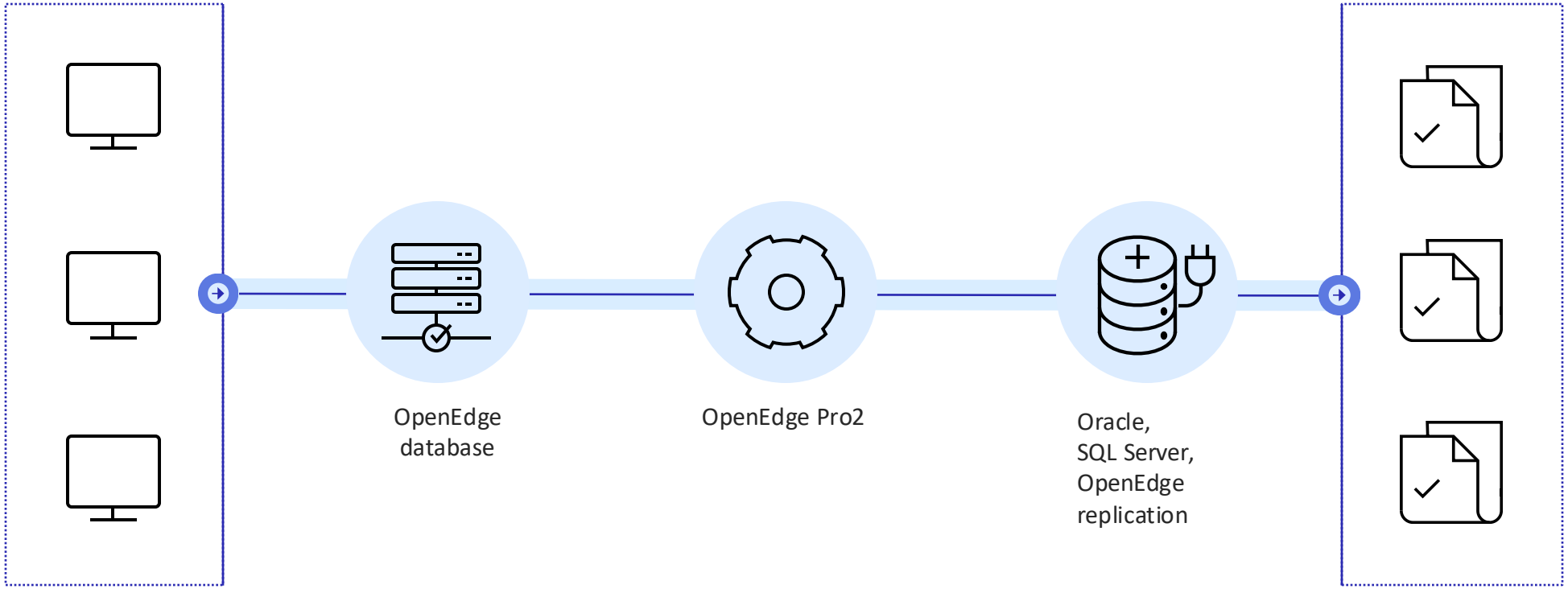
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Network Interruption



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Network Connection Restored

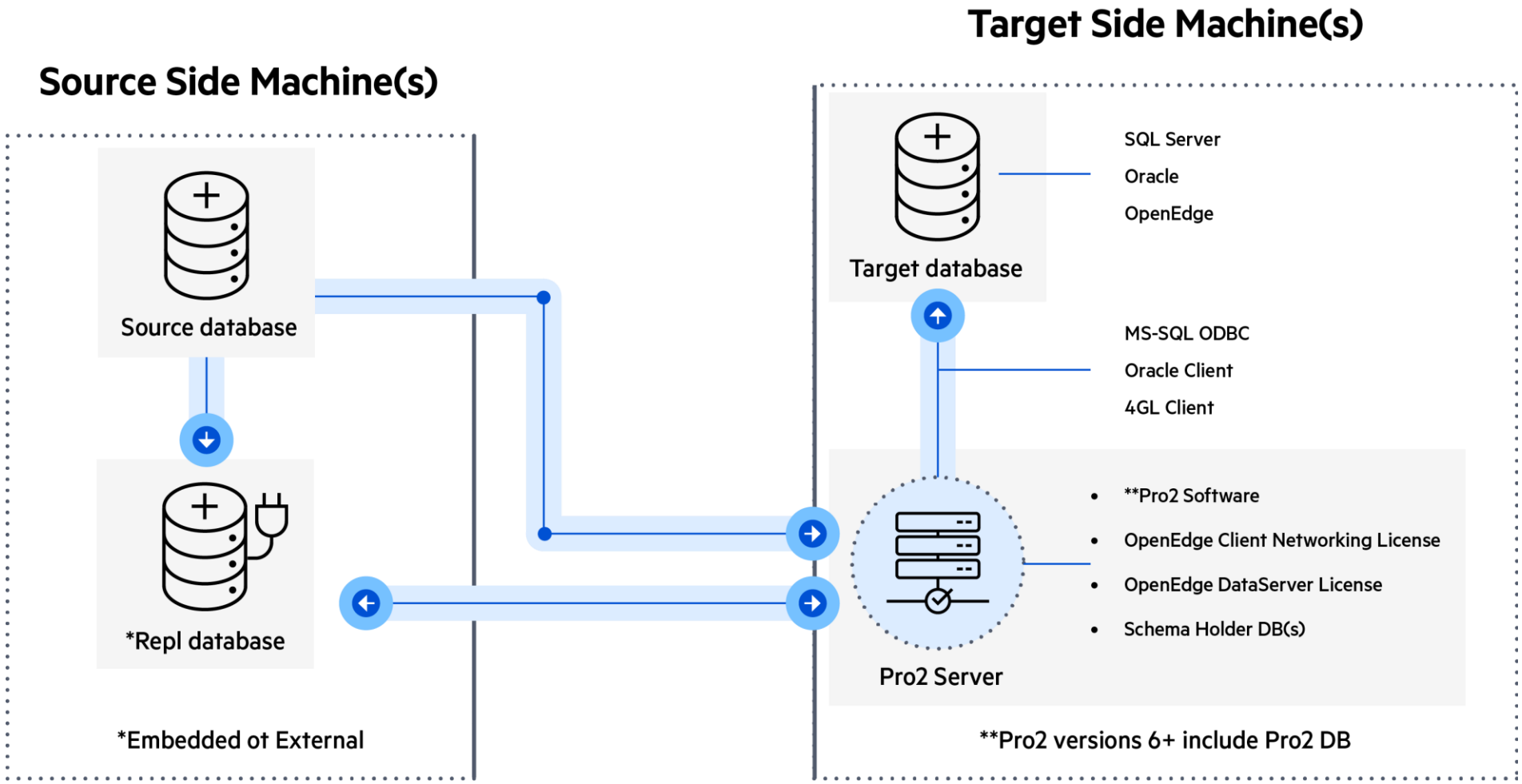


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Pro2 - Process

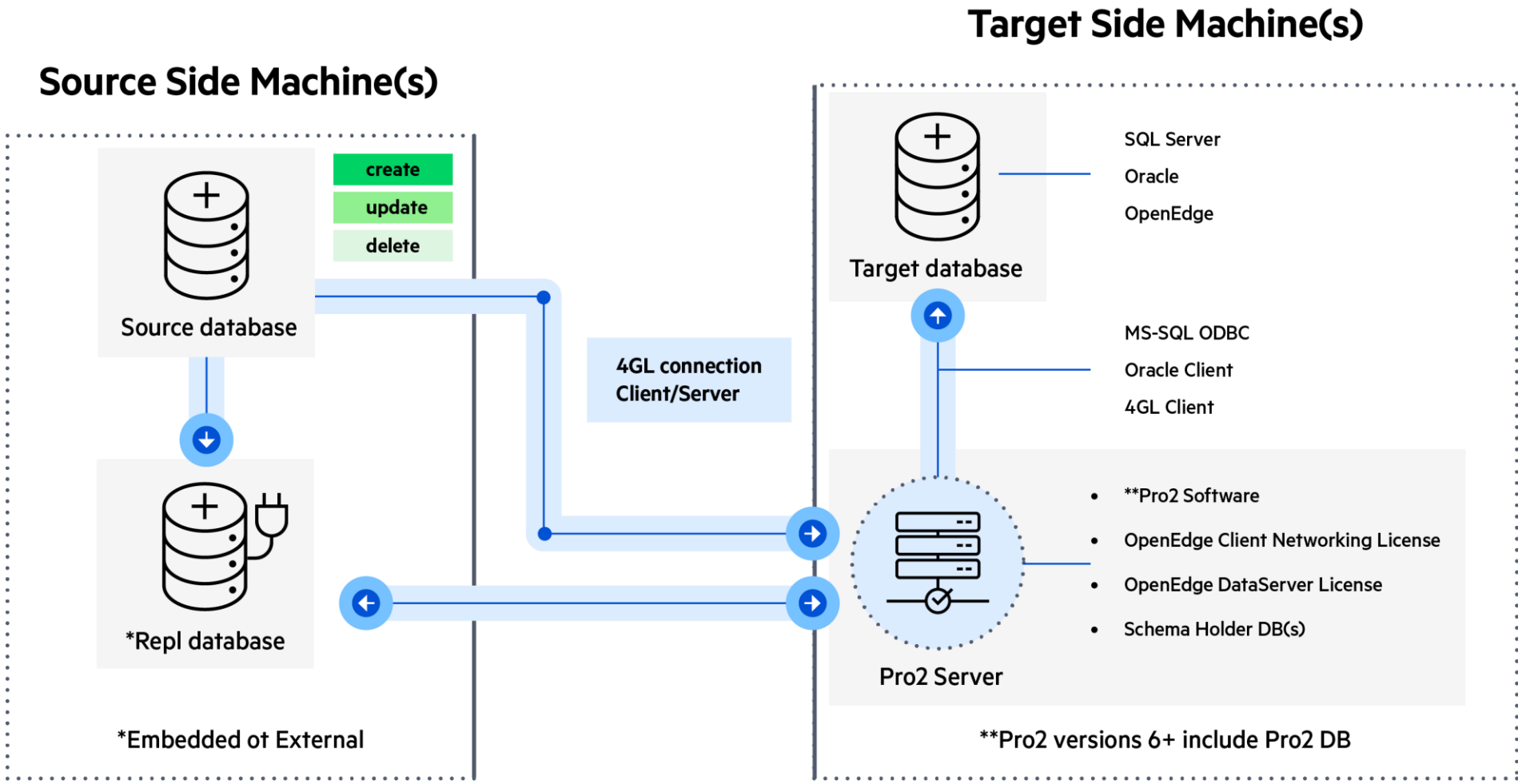
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Network Layout - LAN



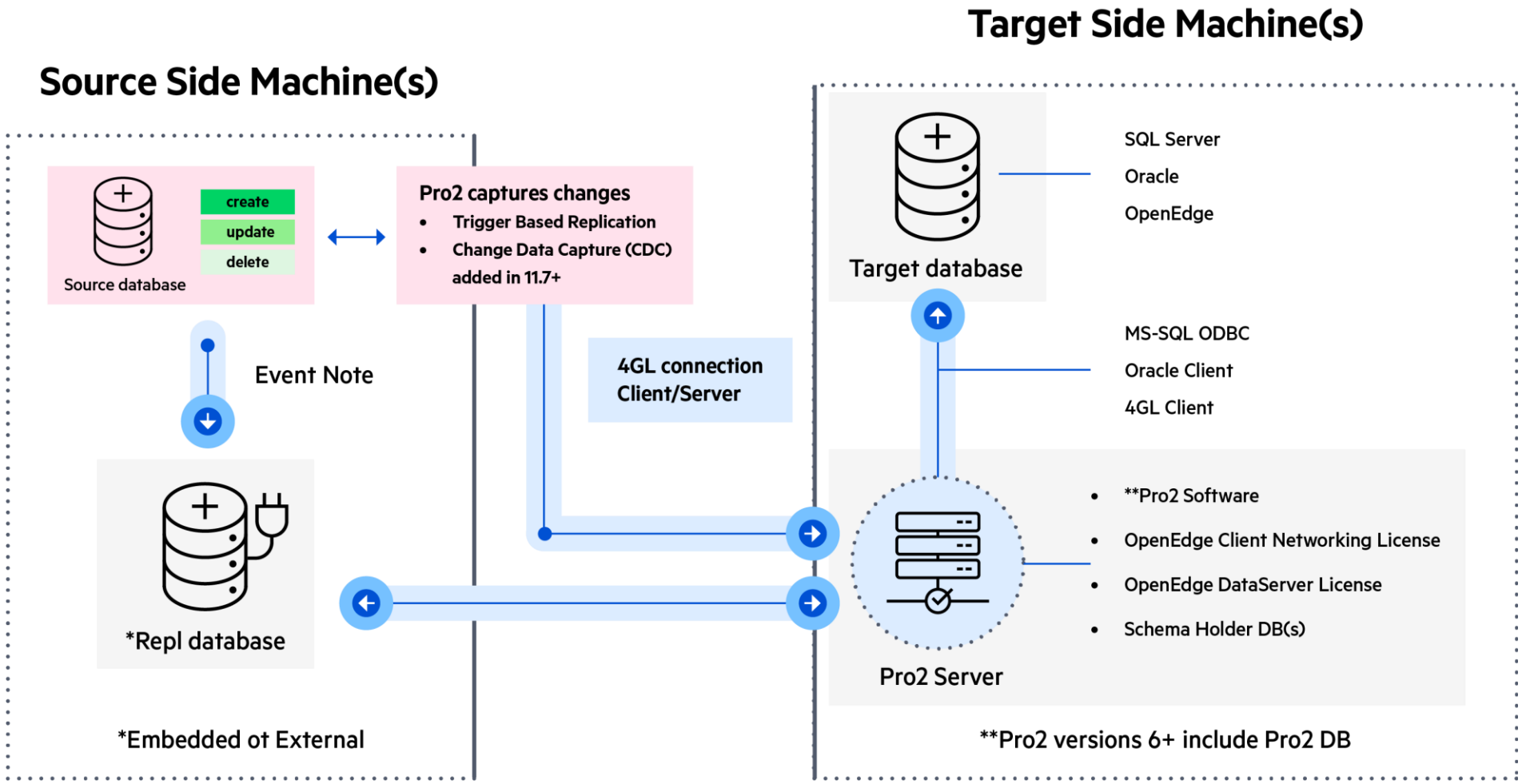
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Pro2 Process



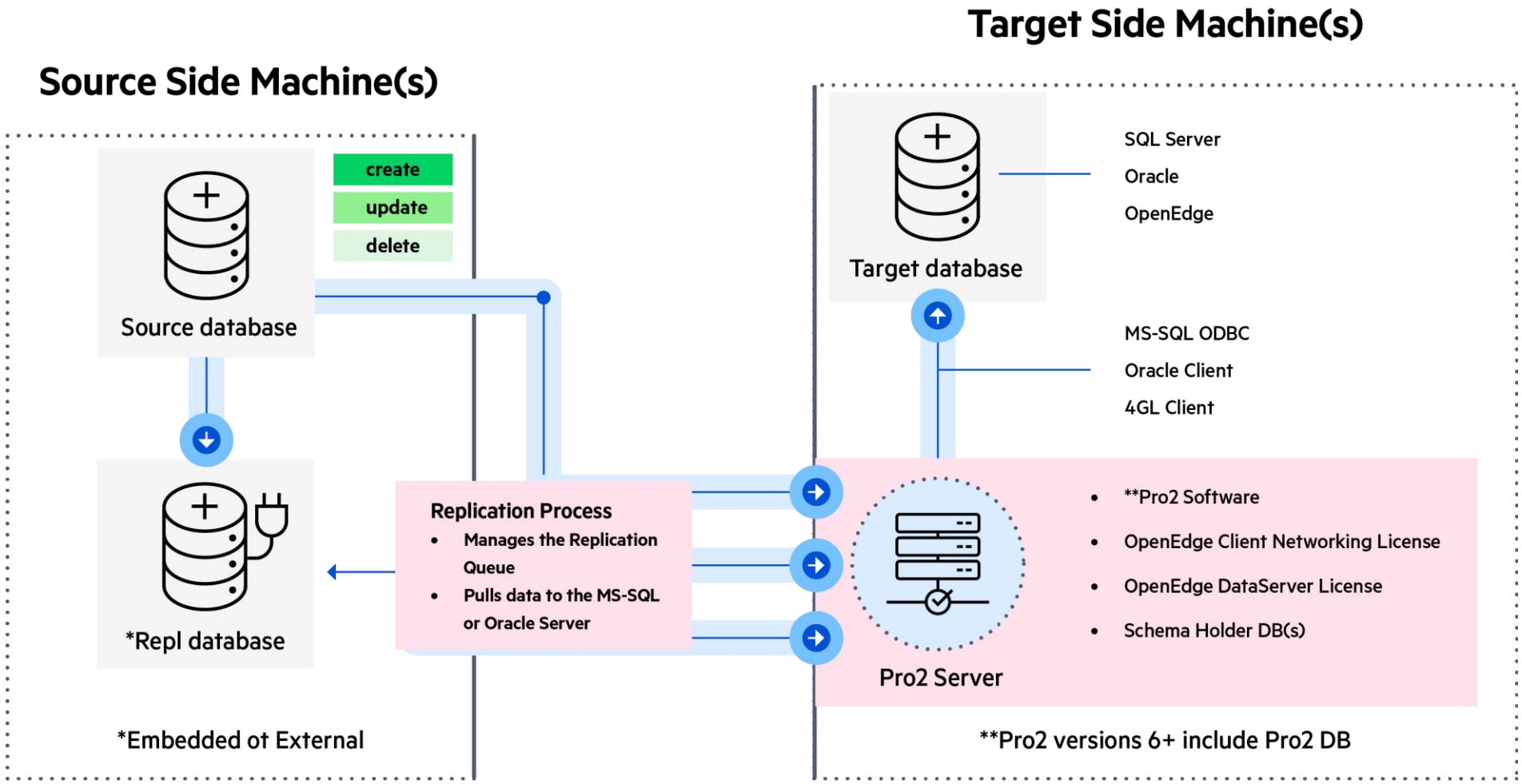
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Pro2 Process



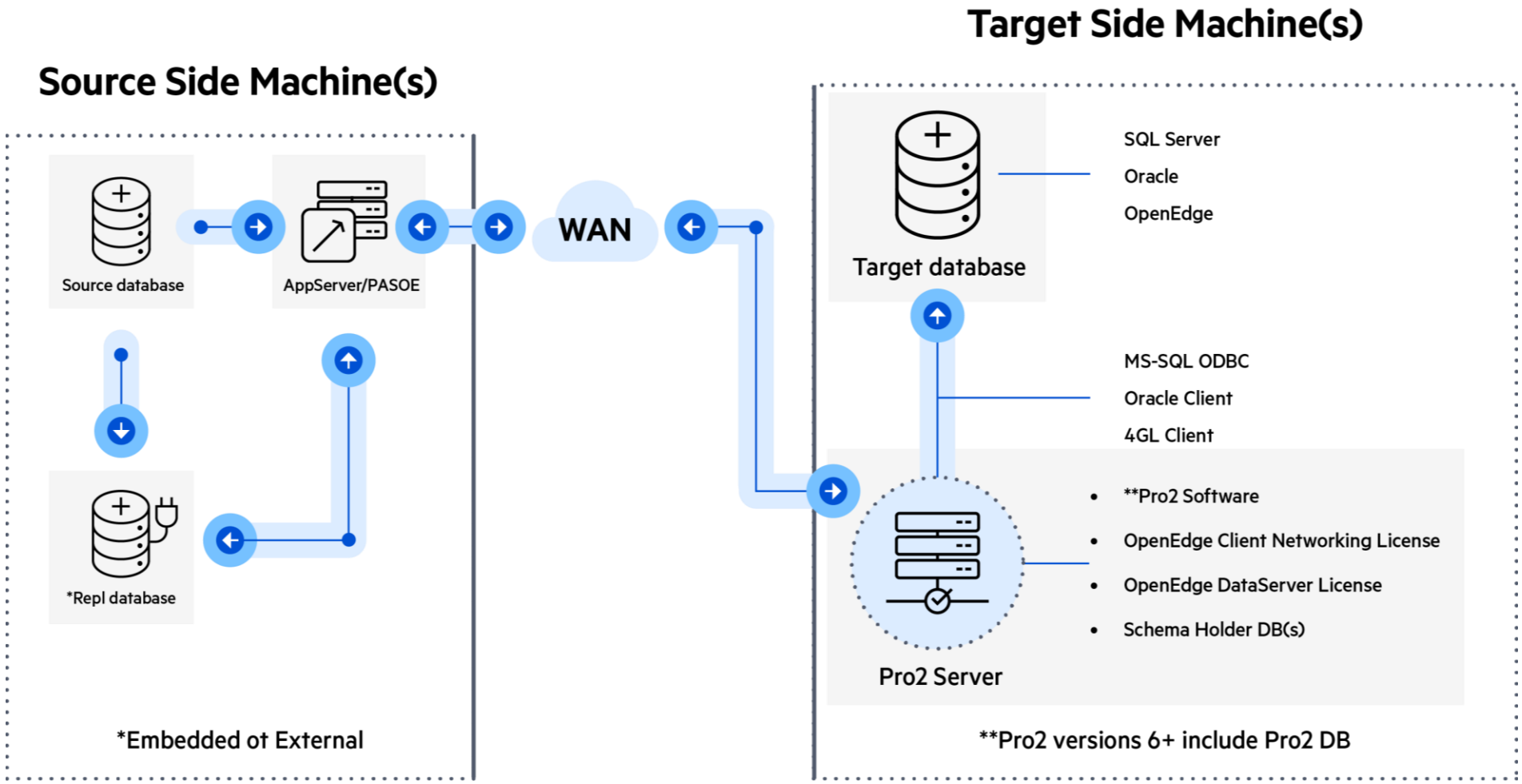
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Pro2 Process



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Network Layout - WAN



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Demo

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Pro2 Process - Data Transformation

- Make as many **ADDITIONAL INDEXES** as you want
  - Must be non-unique indexes
- Transform the **SCHEMA**
  - By default, hyphens “-” are converted to underscore “_”
    - This allows SQL queries to run without quotes
  - EXTENT fields (arrays) are changed to field##1, field##2, …
- Transform the **DATA**
  - All ABL code, with a facility to do custom data transformation

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Target Table Added Fields

- Includes **ADDITIONAL FIELDS**
  - Source ROWID
  - Created_Date – Date/time
  - Modified_Date – Date/time
  - Source Database
- Allows you to see what has **CHANGED**
  - Useful for showing net change times in the BI tooling

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Pro2 – Business Cases

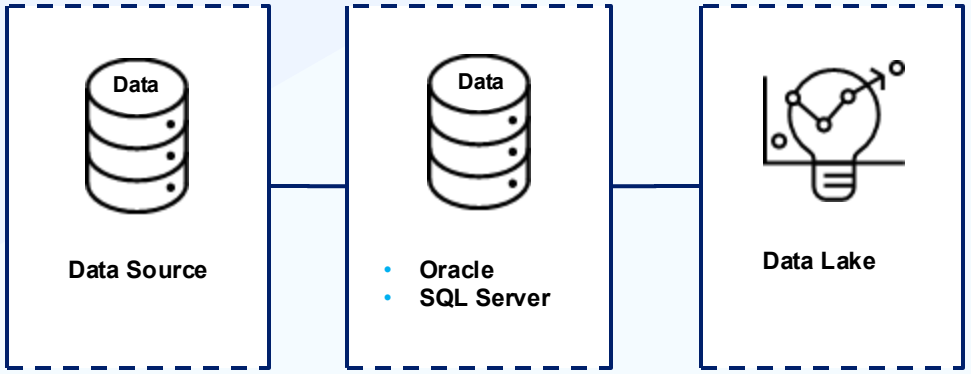
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Pro2 Business Case #1

Single source DB environment to a single target DB

Goal

- Target database is used for reporting
- Target database is a staging area for BI, etc.



Result

- Implemented Pro2 to a single SQL Server target
- Target could be used for reporting directly
- Target could be used for a staging area for BI or transitioning to a data lake

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Pro2 Business Case #2:

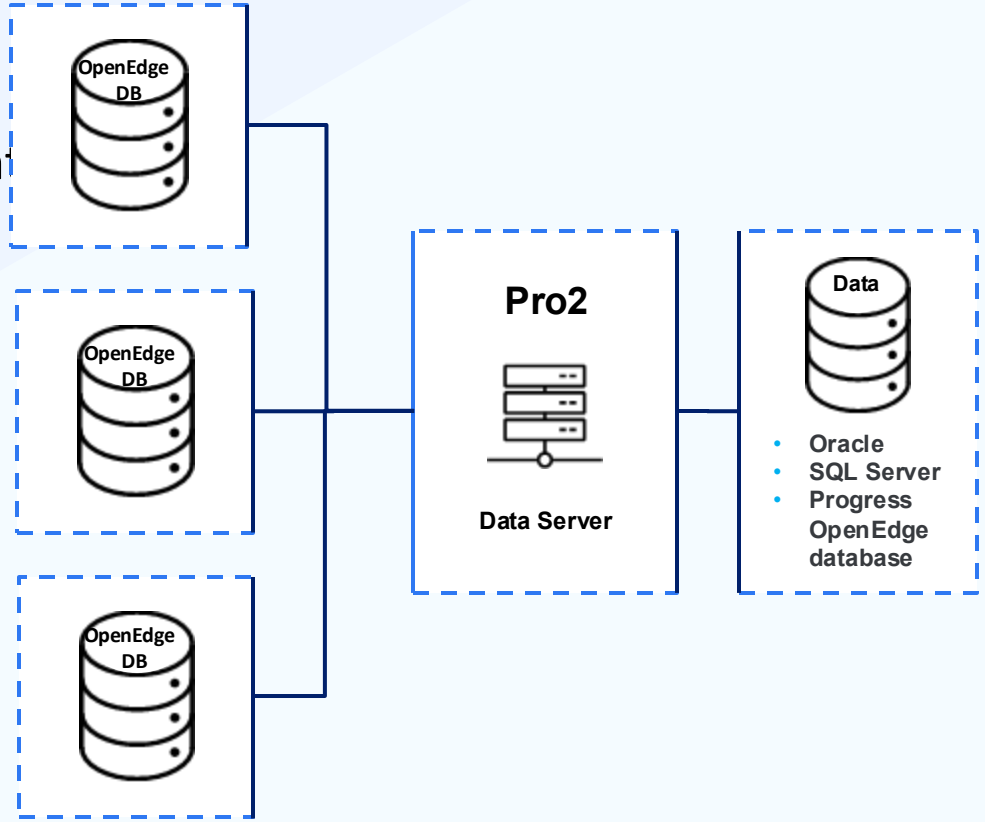
Multiple sources rolled up into a single environment

Opportunity

- An organization with a multitude of office locations want a single repository to report on all

Result

- Pro2 was implemented and all the separate databases were rolled into a single SQL server
- Each row had an identifier indicating which source database the row originated from



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Pro2 Business Case #3:

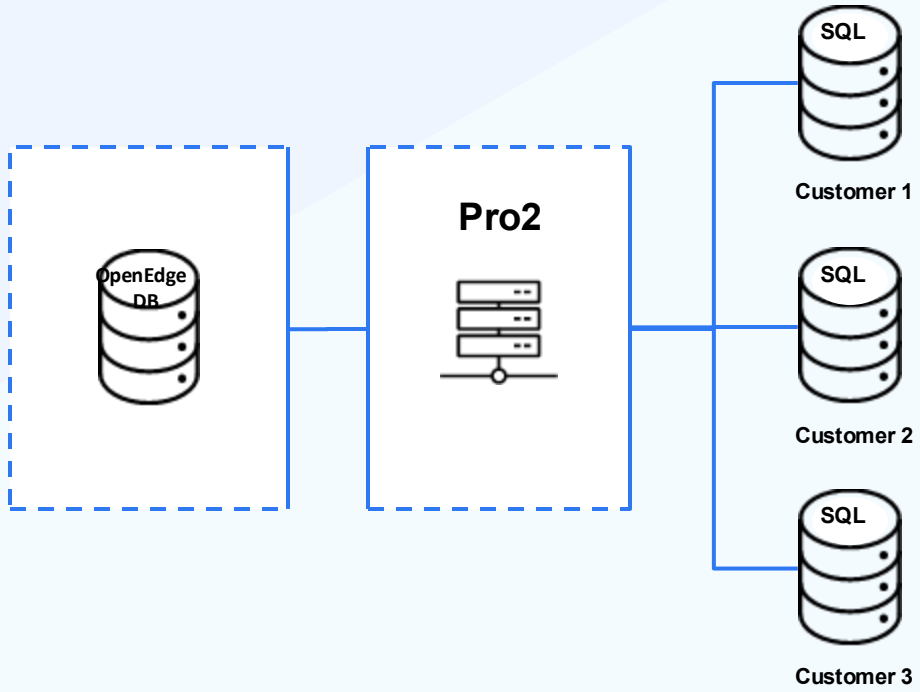
Exposing segments of data

Opportunity

- Customer wanted to expose ERP data individually to each vendor
- Challenge: Customer did not want vendor information to be viewable by other vendors

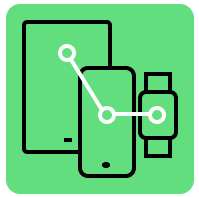
Result

- Pro2 was installed for several SQL databases
- Used a field to identify which SQL server database the row was replicated to

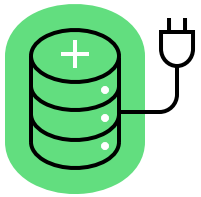


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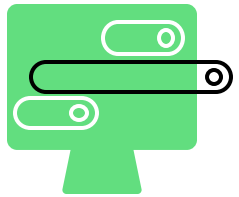
Summary



Near-Real-Time Replication for Reporting Your Data, Your Way



Plugs into Any Existing Reporting Solution



Low Overhead & Easy Administration



Mature Product

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Q&A

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