![comforte logo]

comforte Escort SQL

Unleashing Mission Critical Data

Some of the leading challenges for IT organizations worldwide are acquiring top talent, plus leveraging skillsets and technologies across platforms to reduce costs, improve ROIs and speed time-to-market. The key factor in achieving these goals might surprise you, but it's your database. Data is the heart and foundation of your IT systems but whether your database is enabling or inhibiting your responsiveness is critical to your success.

Even though your proven applications may continue to function well, having the data held hostage inside legacy, proprietary file structures, limits every option you have as an IT executive. Top talent are not inspired by a legacy database which will severely restrict their use of tools and technologies. Development tools such as Eclipse and other cross platform solutions require an open database as their starting point… and that means you need SQL.

comforte Escort SQL quickly and easily converts even the largest and most complex Enscribe databases to NonStop SQL and using efficient intercept technology, legacy Enscribe applications can run transparently against the new NonStop SQL database. And it does all of this with absolutely no reprogramming required.
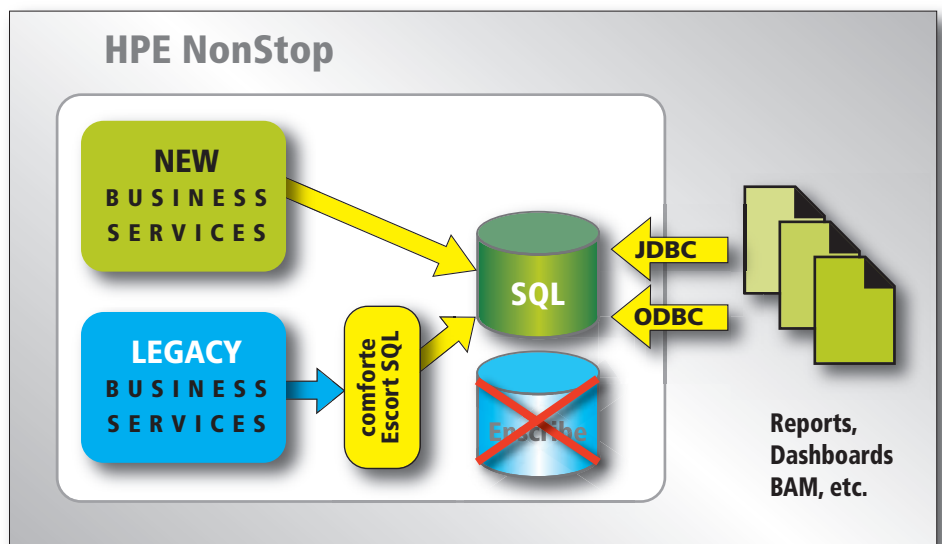
An important feature of comforte Escort SQL is that customers can convert from Enscribe to NonStop SQL incrementally, thus reducing risk and making your data useful more quickly. Because no change to programs or setup is required, you can choose to convert many files, or just one – it's completely transparent to the applications. The alternative is bleak: Without comforte Escort SQL, every program must be rewritten and retested when files – one or many – are converted. This significantly increases both the complexity of the conversion and the possibility of failure.

Approach

With comforte Escort SQL organizations can:
- Move strategic data from legacy Enscribe file structures to standard SQL databases in an easy, straightforward way with only one time effort.
- Intercept data access from applications to Enscribe files and redirect it to the SQL database. Using comforte Escort SQL as a layer underneath the application makes the interception transparent to the programs.

Architecture

System Requirements

- Any supported NonStop O/S release
- NonStop SQL (full license)
- TMF (included in O/S)

Migration Steps

comforte Escort SQL provides tools for the redesign and replacement of Enscribe files with NonStop SQL tables:

- Database redesign starts with the gathering of three types of information: Enscribe DDL, which describes the current format of Enscribe data; the Enscribe file attributes to ensure proper size, placement, partitioning, and security; and any other modifications the customer wishes to make in the layout, formatting, or normalization of the data as it will appear in SQL.
- Using the above information, comforte Escort SQL validates and stores the translation rules that map the old Enscribe view of the data to what the data will look like in SQL and creates the NonStop SQL tables.
- Using the stored mapping, comforte Escort SQL's high-speed, parallel database loader converts and loads the Enscribe data into the new SQL tables.
- comforte Escort SQL does not maintain dual Enscribe and SQL copies, so once data is loaded, the Enscribe files can be purged.
- Result: A redesigned and open database (within security constraints) for use by all platforms as well as third-party applications and tools, with no need to change your programs.

comforte Escort SQL provides translation between Enscribe programs and NonStop SQL databases, using interception technology:

- The comforte Escort SQL runtime component is implemented as an object-code plug-in, specifically as a DLL or User Library; no source code is used, and no modification or recompiles of your programs are required.
- All HPE NonStop operating system versions and hardware platforms are supported; there is no privileged code, SUPER.SUPER access, or ongoing operator intervention required.
- With the Enscribe data redesigned and loaded into SQL tables (as described in the steps above), it's time for the comforte Escort SQL runtime environment to play a role. The runtime plug-in intercepts Enscribe program calls directed to NonStop SQL tables, transparently translating the Enscribe calls into efficient SQL statements on behalf of the program.
- The Enscribe programs read and write to the SQL tables, completely unaware that their data has been transformed and made open, without adding overhead or processing delays.
- The comforte Escort SQL runtime plug-in is based on the same interception technology and library used by HPE's NonStop AutoTMF.

Benefits

- No code changes to application.
- Rapid conversion to SQL for strategic application subsystems.
- Enscribe files are decommissioned removing legacy barriers.
- Data in the SQL database can now be accessed with Open standards/tools including ODBC/JDBC.
- New functionality can be developed using SQL instead of legacy Enscribe.
- Investment Protection and smooth migration:
  - Legacy Enscribe API can still be used against SQL DB,
  - Attraction of top talent already trained on industry standard SQL-based tools,
  - Full support of incremental modernization and migration approach,
  - Availability of a great variety of SQL/ODBC/JDBC enabled cross-platform products.

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