

Genus High Speed Data Connectivity Infrastructure (HSDCI)

Overview

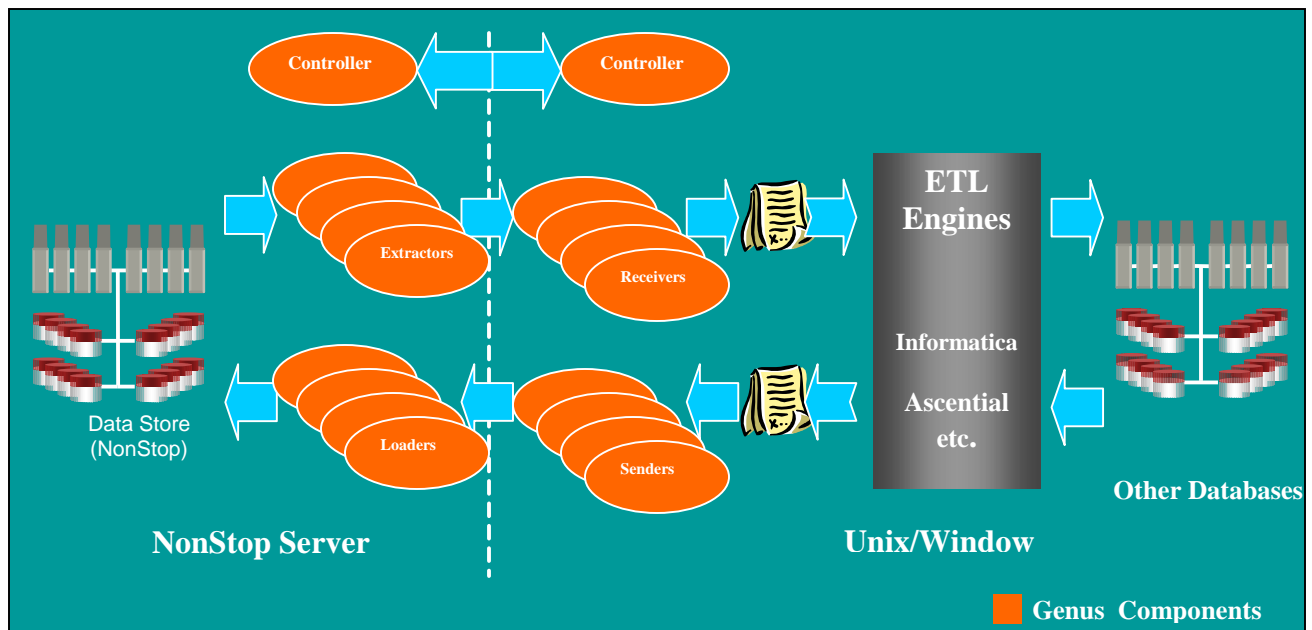
Genus High Speed Data Connectivity Infrastructure contains rich, easy and convenient toolkit to move data into and out of NonStop Server fast, efficiently and in parallel without disrupting other online applications. HSDCI has two major pieces:

Genus Data Extraction Tool

Provides lenient, efficient way to transfer large data sets from NonStop SQL to destination systems such as Unix or Windows.

Genus Data Loading Tool

Provides simple, effective way to transfer large data from systems such as Unix or Windows to the NonStop SQL on NonStop Server.



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Features

Optimized Extraction

Genus Data Extraction Tool retrieves data efficiently from the NonStop SQL database by spawning the processes on the processors where the SQL partitions reside. The tool can spawn the extraction processes on remote node as well, to reduce the message traffic on one system and make the complete transfer faster. The extraction processes generate optimized query predicates to limit the data to the partition and achieve the high performance.

High Volume Loading

Genus Data Loading Tool spawns the insertion processes on the processors where the SQL partitions reside including remote nodes. It uses row set (array binding) feature to insert the data at the faster rate.

Various Loading Operations

Genus Data Loading Tool supports following insert operations

Incremental Insert: Allows data to be inserted incrementally into NonStop SQL tables that are not empty.

Update: Allows updates of the existing records of NonStop SQL tables

Upsert: Allows data to be inserted incrementally and updates if the records already exist.

Bulk Insert: Allows faster inserts into NonStop SQL tables when the table is empty.

Reliable Transport Mechanism

Genus Data Extraction Tool and Genus Data Loading Tool optionally compresses the data before transmitting it on the network. It allows sending multiple streams simultaneously to achieve parallelism and avoid the network bottleneck. Both tools also assure the data correctness using checksum facility.

Various Job Triggering Mechanism

There are various ways user can initiate the extraction job

Transfer Client on Remote System: Genus Data Extraction Tool and Genus Data Loading Tool provide simple and lenient command-based utility to initiate the job from the ETL tool or from the Unix shell/ Windows command prompt.

Web GUI: Genus Data Extraction Tool provides easy and convenient way to initiate the job from the web-browser.

Transfer Initiator on NonStop Server: Genus Data Extraction Tool provides handy command-based utility to initiate the job from OSS shell. It can also be useful to schedule the jobs with other scheduling applications on NonStop Server.

Effective Process Control

Genus Data Extraction Tool and Genus Data Loading Tool give the flexibility for the user to choose the process priorities to keep the other online applications undisturbed.

Multiple Platform Support

Genus Data Extraction Tool and Genus Data Loading Tool works on all flavors of Unix (e.g. HP-UX, Alpha Tru64, Sun Solaris) and Windows (NT, 2000 and XP).

Standard Data Formats Support

Genus Extraction Tool can output the data either as an ASCII (Delimited or Fixed Width) or as a SAS dataset. Genus Data Loading Tool can read the Delimited or Fixed Width format data.

Robust Error Handling

Genus Data Loading Tool allows user to set a threshold for the number of rows rejected, which allows data to be loaded in spite of errors.

Better Manageability

Genus Extraction Tool provides convenient way to schedule the extraction jobs for later date or time and the easy way to monitor the execution status. User can also preview the data set to be transferred using the web GUI.

Ordering Information

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