Transfer of handle to database connection (Databases and Database Tables)

Transfer of handle to database connection between the running ESL scripts

A transfer of handle to database connection between ESL scripts may be done by RPC procedures. In declaration of RPC procedure, you have to tag the parameter that represents the handle to database connection by enumerated type **DB_HANDLE**. An algorithm is contingent on the existence of database connection. If handle to database connection is an invalid value or it points to missing database connection, the algorithm ends with error.

The enumerated type **DB_HANDLE** is INT.

RPC procedure declaration:

RPC PROCEDURE ProcName [([IN] DB_HANDLE _db_handle[,_db_handle2, ...] [IN] DB_HANDLE _db_handle3]...)]

;actions

END ProcName

_db_handle that can be transferred between ESL scripts is created by these actions: DB_CONNECT, PG_DISCONNECT, SQL_CONNECT, DB_TRANS_ OPEN.

Notes:

- The owner of data container can be only one ESL script, which also ensures the cancelling of this handle.
- Handle to database connection **can not** be transferred between ESL scripts of different processes.
- When calling RPC procedure, if you use the value that is not a handle to database connection on the place for a formal parameter DB_HANDLE, ESL script will search handle according to an input value:
 - 1. If database connection, tagged by input value, exists, the script transfers it.
 - 2. If database connection, tagged by input value, does not exist, ESL script displays an error.

```
INT _db_handle
_db_handle := 5
CALL [objIdent] INSERT (_db_handle) ON procIdent
```

3. If the input value, representing handle, is invalid, the calling Esl script ends with RunTime error.

If the calling of RPC procedure is **asynchronous**, the database connection is terminated in this script. Then ESL script that has been called becomes the owner of this connection:

• If the calling RPC procedure is synchronous, there are two options:

1. If the formal parameter, which represents DB_HANDL, is tagged by the key word IN, when calling the RPC procedure, the ESL script containing the declaration of called RPC procedure will be **permanently** the owner of handle to database connection.

2. If the formal parameter, which represents DB_HANDLE, is not tagged by the key word IN, when calling RPC procedure, ESL script containing the declaration of called RPC procedure will be the **temporal** owner of handle to database connection. After finishing the called RPC procedure, the script, from which the RPC procedure has been called, will become the owner.

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