Event Script Language (ESL)

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ESL is an easy procedural language adapted to work in the D2000 System environment. It allows implementing a wide scale of algorithms, which are necessary when creating the system application in a technological environment.

Basic features:

- own algorithm is expressed in text form, as a source text (script),
- basic (and integral) executive unit of the language is action,
- allows to implement and call procedures within one script,
- calling other scripts by means of the procedural method,
- error state handler,
- · starting external processes,
- declaration and use of global and local variables (within the frame of procedure),
- work with values of objects, using them in expressions, changing them,
- according to the context of script usage (Script, Active picture), it provides additional possibilities,
- use of system objects in a specific way:
 - o Historical value work with the archive (read, block read, write),
 - O Database access to SQL database (read, write, delete),
 - I/O tags reading, writing,
 - O Pictures, Graphs, Compositions to open, and close on the D2000 HI process's desktop,
 - O HI process communication with operator text messages, queries,
 - O Structured variable work with structure items,
 - o Alarms to block or to acknowledge,
 - o External function calling external functions implemented in DLL libraries,
 - Process communication with a process by means of text messages (COMMAND).