GetCallChain

%GetCallChain function

Fu nc tion	The function gets back complete series of callings (CALL actions) that caused its execution.
| De cla rat ion | ```
TEXT %GetCallChain()
``` |
| Pa ra m et ers | None. |

Example	The example shows the return value of the function (in the procedure *Procx* of the script *E.C3*) when calling remote procedures from the scripts *E.C1*, *E.C2* and *E.C3*. Execution of the procedures begins in the initialization part of the script *E.C1*.

```
;****************** E.C1 ******************
PROCEDURE Proc1x
  CALL [E.C2] Proc2 ON SELF.EVH ; line 3
END Proc1x

PROCEDURE ProcB
  CALL Proc1x ; line 7
END ProcB

BEGIN
  CALL ProcB ; line 11
END

;*********************************************
```

```
;*********** Server event: E.C2 *************
RPC PROCEDURE Proc2
CALL [E.C3] Proc3 ON SELF.EVH ; line 3
END Proc2

BEGIN
END
;*********************************************
```

```
;*********** Server event: E.C3 *************
PROCEDURE Procx
TEXT _callChain
_callChain := %GetCallChain() ; line 4.
END Procx

RPC PROCEDURE Proc3
CALL Procx ; line 8
END Proc3

BEGIN
END
;*********************************************
```

The value of local variable *_callChain* of procedure *Procx* in script *E.C3*.

```
Procx: 4
SELF.EVH;E.C3( 24791) 1438;Proc3: 8
SELF.EVH;E.C2( 24792) 1439;Proc2: 3
Proc1x: 3
ProcB: 7
SELF.EVH;E.C1( 1325457) 2207;: 11
```

Each line in the value of variable *_callChain* (except for the first one) identifies the line in ESL script with CALL action.

For example a dump:
SELF.EVH;E.C3(24791) 1438;Proc3: 8

represents line 8 in the script of the object of name *E.C3*. Line 8 is in the context of procedure *Proc3*. The script was performed on process *SELF.EVH*. HOBJ of object *E.C3* is 24791 and the unique identifier of the running script is 1438 (this value is generated at each start of the arbitrary script and it is univocal within the process which interprets the scripts).
The mentioned line contains *CALL Procx* action calling the procedure *Procx* within the script.
As the script was not changed, the previous line (in the value of variable *_callChain*) contains only the procedure name and number of rows.

This way allows to find out following information from the value of variable *_callChain* (described bottom-up):
The action executing starts in script *E.C1* (on the process *SELF.EVH*), there is the procedure call *ProcB* on the line 11, there is procedure call *Proc1x* on line 7 and there is RPC procedure call *Proc2* on line 3 in the script *E.C2* within the same process of *SELF.EVH*. In the procedure (*Proc2*) there is RPC procedure call *Proc3* on line 3 in the script *E.C3* within the same process *SELF.EVH*.
There is a procedure called *Procx* on line 8 in the script *E.C3* and the call of function *GetCallChain* was performed on line 4.

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