

```

VAR
Ping : SysIPReach; (* Ping FB *)
TimeBf : ARRAY[ 0..2 ] OF UDINT; (* Time buffer (uS) *)
PDelay : REAL; (* Ping delay (mS) *)
PTime : UDINT := 2000; (* Ping time (mS) *)
PError : UDINT; (* Ping error *)
POk : UDINT; (* Ping Ok *)
SRestart : BOOL; (* System restart *)
END_VAR

```

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1 (* ***** *)
2 (* PROGRAM "PingReboot" *)
3 (* ***** *)
4 (* Eseguo reboot sistema su errore Ping. *)
5 (* ----- *)
6
7 (* ----- *)
8 (* INIZIALIZZAZIONI *)
9 (* ----- *)
10 (* Eseguo inizializzazioni. *)
11
12 IF (SysFirstLoop) THEN
13     TimeBf[0]:=SysGetSysTime(TRUE); (* Time buffer (uS) *)
14 END_IF;
15
16 (* ----- *)
17 (* ESEGUO PING *)
18 (* ----- *)
19 (* Eseguo temporizzazione esecuzione comando Ping. *)
20
21 IF ((SysGetSysTime(TRUE)-TimeBf[0]) > (PTime*1000)) THEN
22     TimeBf[0]:=SysGetSysTime(FALSE); (* Time buffer (uS) *)
23     TimeBf[1]:=SysGetSysTime(TRUE); (* Time buffer (uS) *)
24     Ping.Enable:=TRUE; (* Ping enable *)
25 END_IF;
26
27 (* Eseguo ping. *)
28
29 Ping.PeerIP:='8.8.8.8';
30 Ping(); (* Ping FB *)
31
32 (* ----- *)
33 (* STATISTICHE PING *)
34 (* ----- *)
35 (* Controllo fine esecuzione ping. *)
36
37 IF (Ping.Done) THEN
38     Ping.Enable:=FALSE; (* Ping enable *)
39     PError:=0; (* Ping error *)
40     POk:=POk+1; (* Ping Ok *)
41     PDelay:=TO_REAL(SysGetSysTime(TRUE)-TimeBf[1])/1000.0; (* Ping delay (uS) (Attuale) *)
42 END_IF;
43
44 (* ----- *)
45 (* ESEGUO RESTART *)
46 (* ----- *)
47 (* Controllo errore ping. *)

```

Project : PingReboot	
PROGRAM : ST	
Release : PingReboot	Ver :1.00
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PROGRAM ST

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48
49 IF (Ping.Fault) THEN
50     Ping.Enable:=FALSE; (* Ping enable *)
51     PError:=PError+1; (* Ping error *)
52
53     IF (PError > 3) THEN
54         TimeBf[2]:=SysGetSysTime(FALSE);
55         NrOfRestarts:=NrOfRestarts+1; (* Number of restarts *)
56         SRestart:=TRUE; (* System restart *)
57     END_IF;
58 END_IF;
59
60 (* Se più di 3 errori di Ping consecutivi eseguo restart sistema. *)
61
62 IF ((SRestart) AND ((SysGetSysTime(TRUE)-TimeBf[2]) > 1000000)) THEN
63     WHILE (TRUE) DO END_WHILE;
64 END_IF;
65
66 (* [End of file] *)
67
68

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