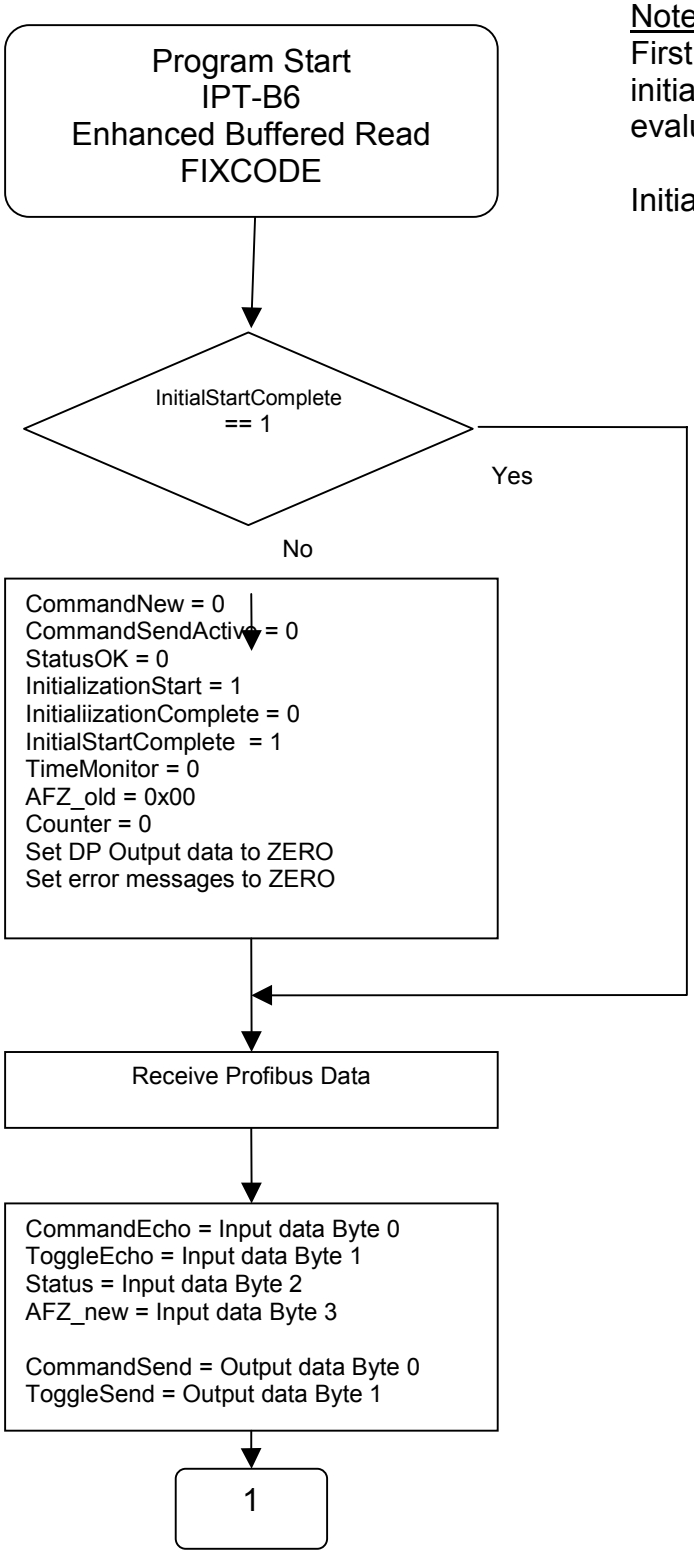
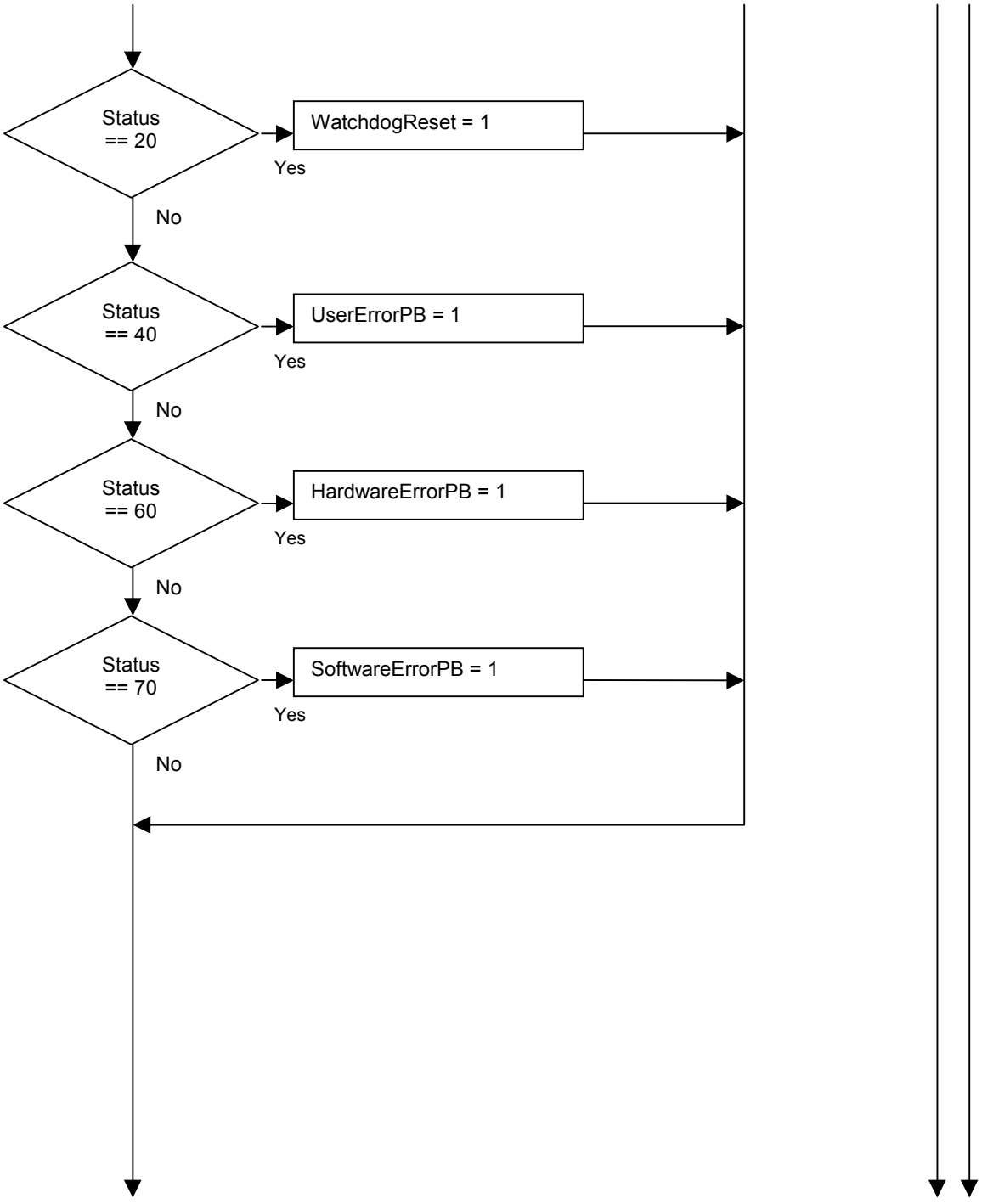
Programming Proposal
IPT-B6 in
Enhanced Buffered Read FIXCODE Mode

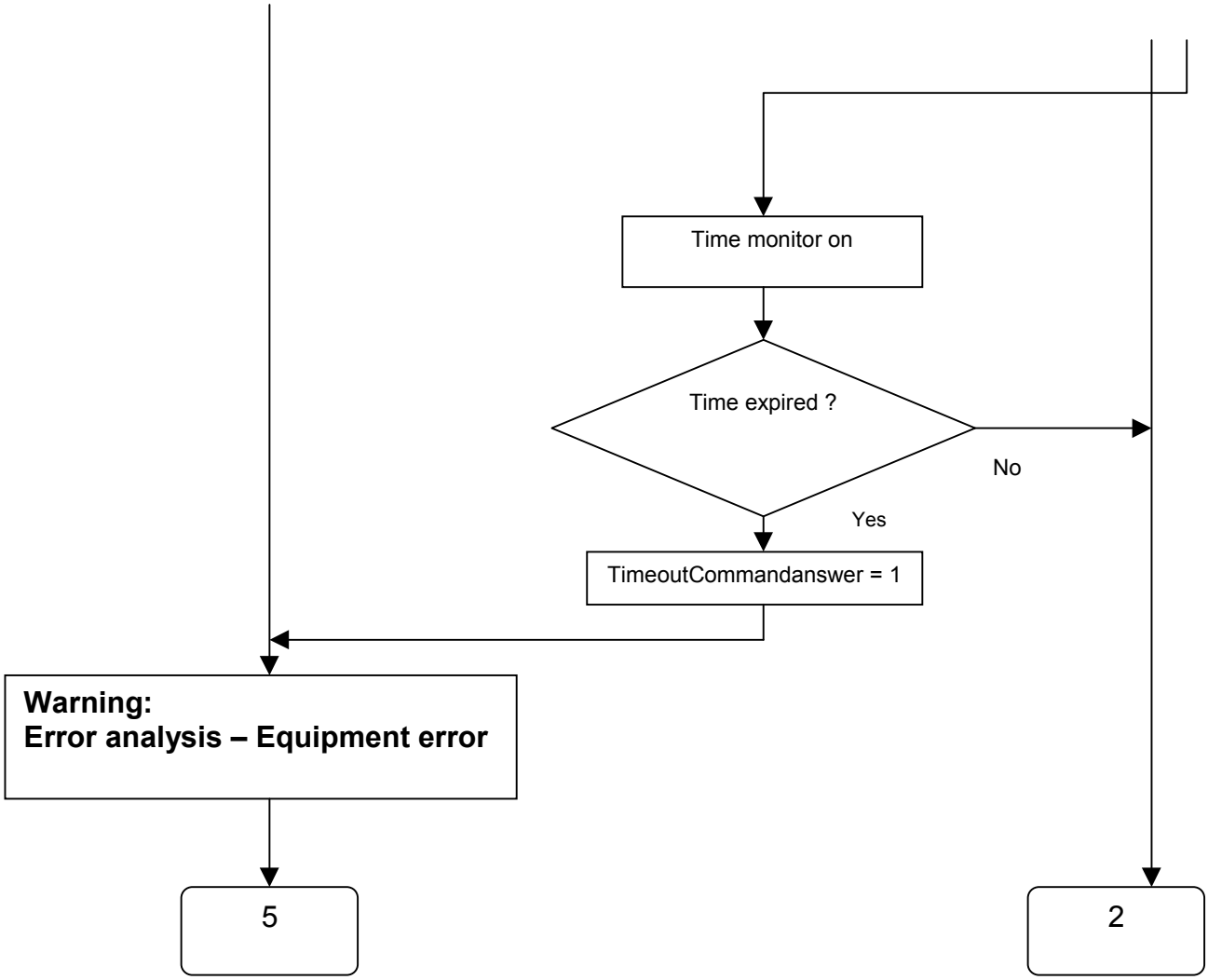


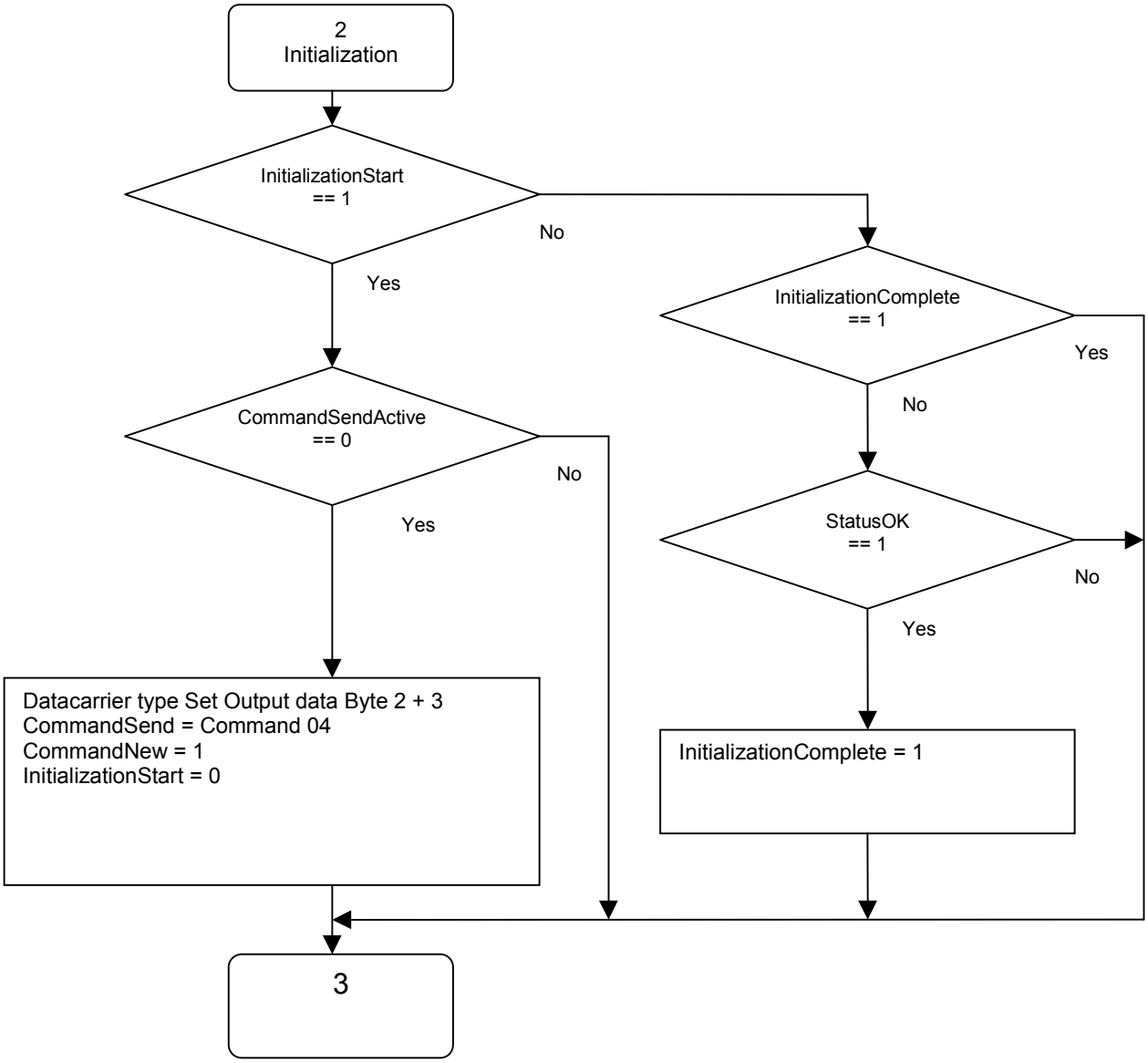
Note:
First initialization or initialization after an error evaluation by:

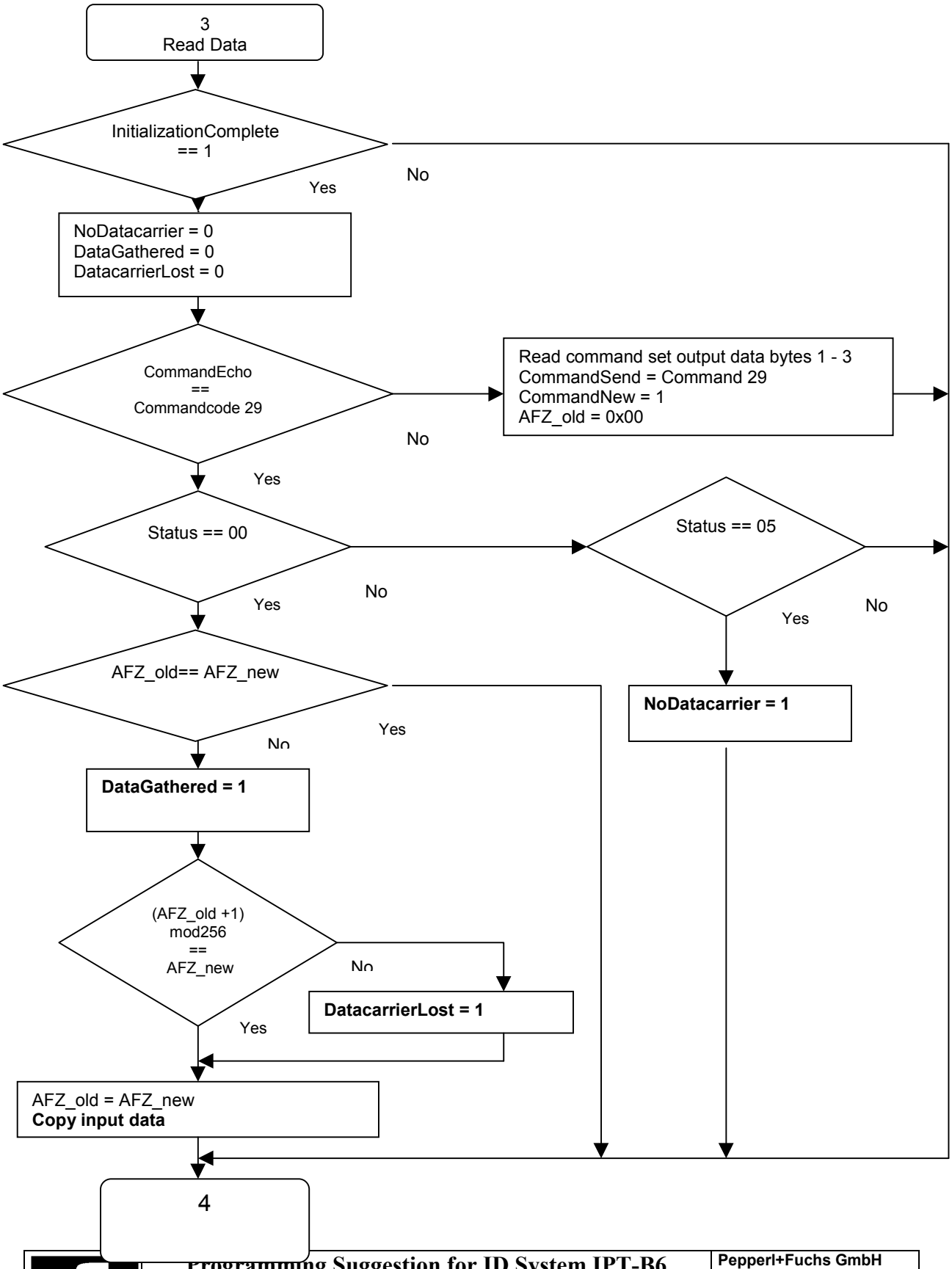
InitialStartComplete = 0

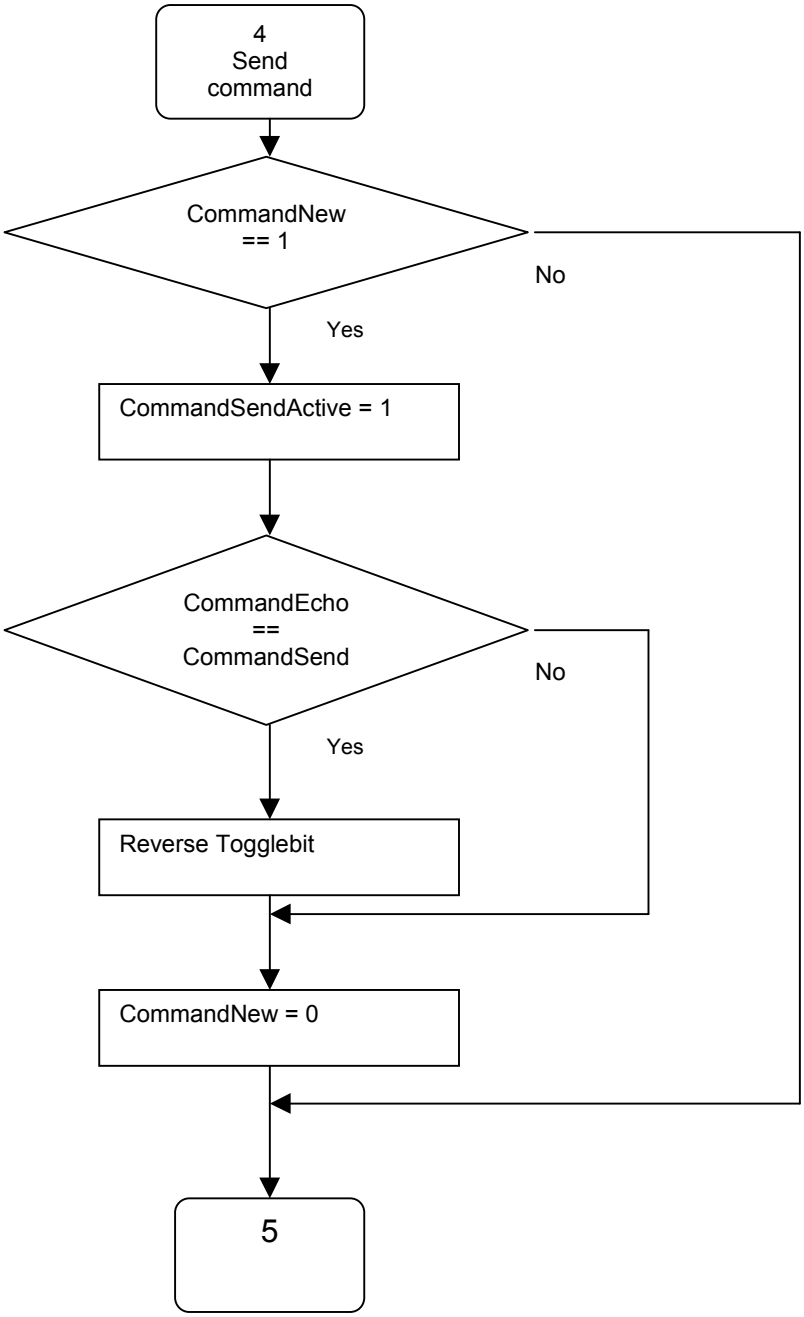
1
Evaluation Status
StatusOK = 0
CommandEcho == CommandSend
and
ToggelbitEcho == TogglebitSend
and
Status != 0xff
No
Status == 00
or
Status == 05
Yes
Counter = 0
Time monitor off
StatusOK = 1
CommandSendActive = 0
Timeout Command answer= 0
No
Status
== 04
Yes
Counter
> 3
No
CommandNew = 1
AFZ_old = 0x00
Counter +1
Yes
ErrorCommandSend = 1
No
Status
== 02
Yes
ResetIDCard = 1
No
Status
== 06
Yes
Hardware error ID = 1
No
Status
== 07
Yes
Software error ID= 1
No

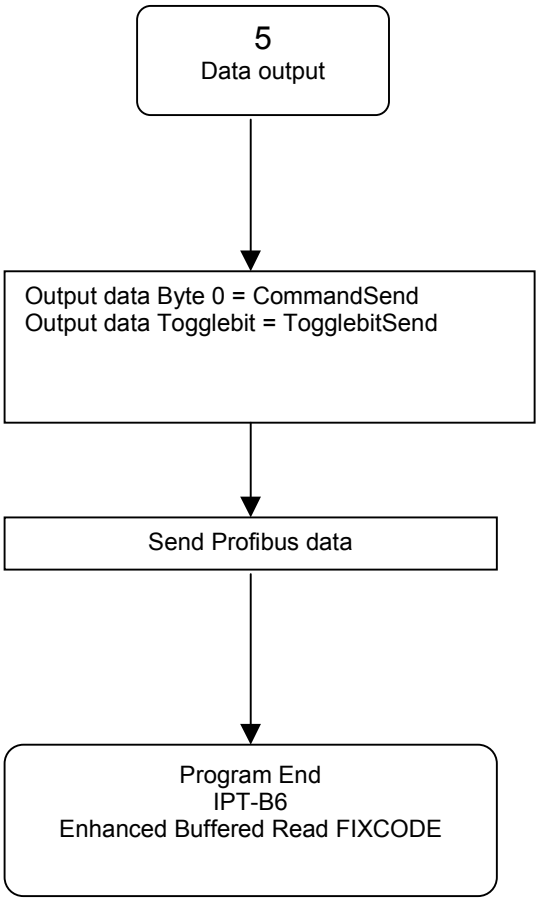

Status
== 20
WatchdogReset = 1
Yes
No
Status
== 40
UserErrorPB = 1
Yes
No
Status
== 60
HardwareErrorPB = 1
Yes
No
Status
== 70
SoftwareErrorPB = 1
Yes
No


Time monitor on
Time expired ?
No
Yes
TimeoutCommandanswer = 1
Warning:
Error analysis – Equipment error
5
2


2
Initialization
InitializationStart
== 1
No
Yes
InitializationComplete
== 1
Yes
No
CommandSendActive
== 0
No
Yes
StatusOK
== 1
No
Yes
Datacarrier type Set Output data Byte 2 + 3
CommandSend = Command 04
CommandNew = 1
InitializationStart = 0
InitializationComplete = 1
3


3
Read Data
InitializationComplete
== 1
No
Yes
NoDatacarrier = 0
DataGathered = 0
DatacarrierLost = 0
CommandEcho
==
Commandcode 29
Read command set output data bytes 1 - 3
CommandSend = Command 29
CommandNew = 1
AFZ_old = 0x00
No
Yes
Status == 00
Status == 05
No
Yes
No
Yes
AFZ_old== AFZ_new
NoDatacarrier = 1
Yes
No
DataGathered = 1
(AFZ_old +1)
mod256
==
AFZ_new
No
DatacarrierLost = 1
Yes
AFZ_old = AFZ_new
Copy input data
4


4
Send
command
CommandNew
== 1
No
Yes
CommandSendActive = 1
CommandEcho
==
CommandSend
No
Yes
Reverse Togglebit
CommandNew = 0
5


5
Data output
Output data Byte 0 = CommandSend
Output data Togglebit = TogglebitSend
Send Profibus data
Program End
IPT-B6
Enhanced Buffered Read FIXCODE