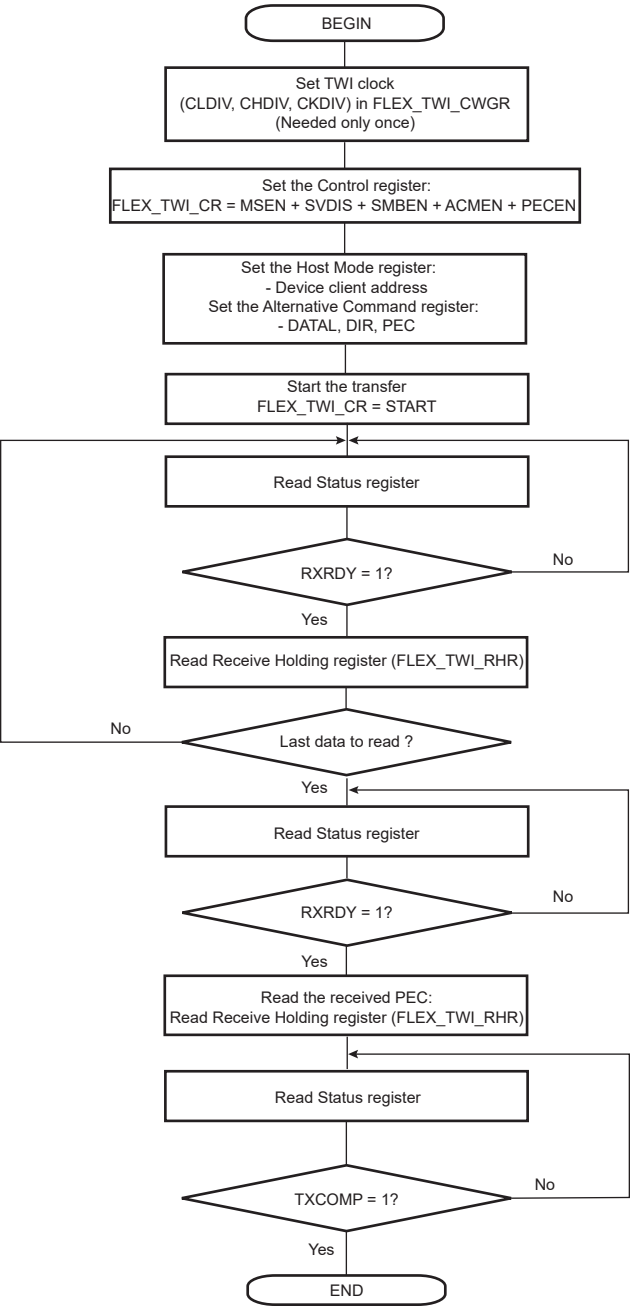
BEGIN
Set TWI clock
(CLDIV, CHDIV, CKDIV) in FLEX_TWI_CWGR
(Needed only once)
Set the Control register:
FLEX_TWI_CR = MSEN + SVDIS + SMBEN + ACMEN + PECEN
Set the Host Mode register:
- Device client address
Set the Alternative Command register:
- DATAL, DIR, PEC
Start the transfer
FLEX_TWI_CR = START
Read Status register
RXRDY = 1?
No
Yes
Read Receive Holding register (FLEX_TWI_RHR)
Last data to read ?
No
Yes
Read Status register
RXRDY = 1?
No
Yes
Read the received PEC:
Read Receive Holding register (FLEX_TWI_RHR)
Read Status register
TXCOMP = 1?
No
Yes
END