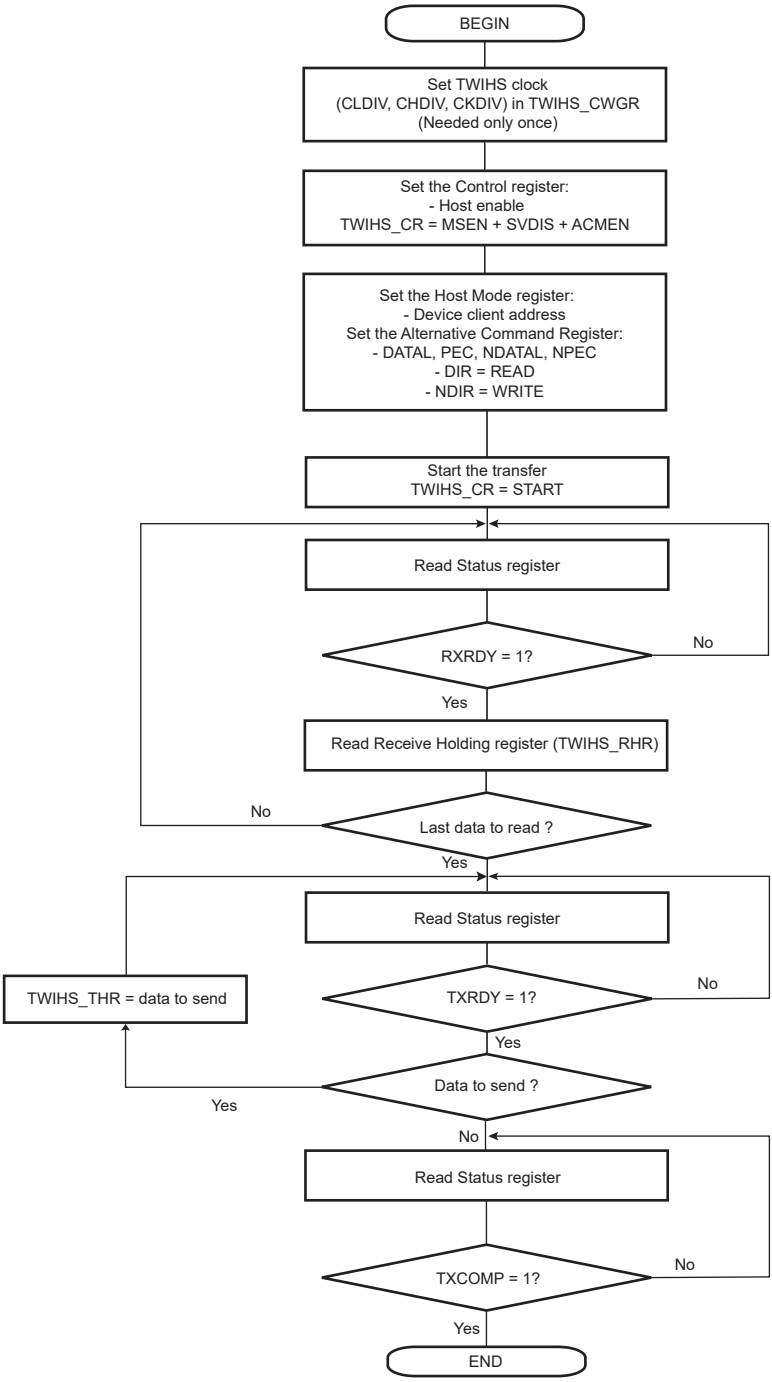
BEGIN
Set TWIHS clock
(CLDIV, CHDIV, CKDIV) in TWIHS_CWGR
(Needed only once)
Set the Control register:
- Host enable
TWIHS_CR = MSEN + SVDIS + ACMEN
Set the Host Mode register:
- Device client address
Set the Alternative Command Register:
- DATAL, PEC, NDATAL, NPEC
- DIR = READ
- NDIR = WRITE
Start the transfer
TWIHS_CR = START
Read Status register
RXRDY = 1?
No
Yes
Read Receive Holding register (TWIHS_RHR)
Last data to read ?
No
Yes
Read Status register
TXRDY = 1?
No
Yes
TWIHS_THR = data to send
Data to send ?
Yes
No
Read Status register
TXCOMP = 1?
No
Yes
END