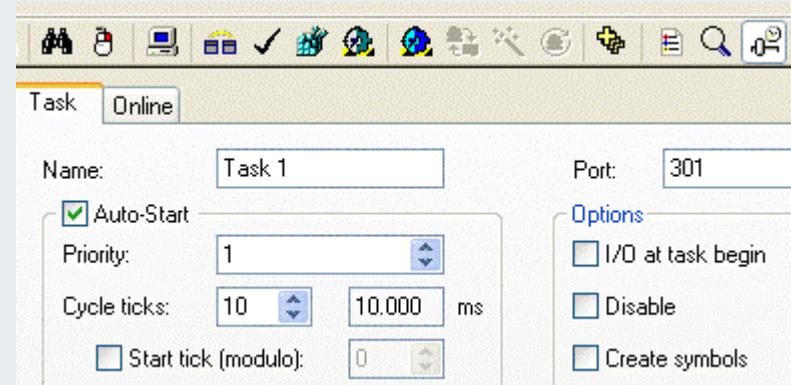
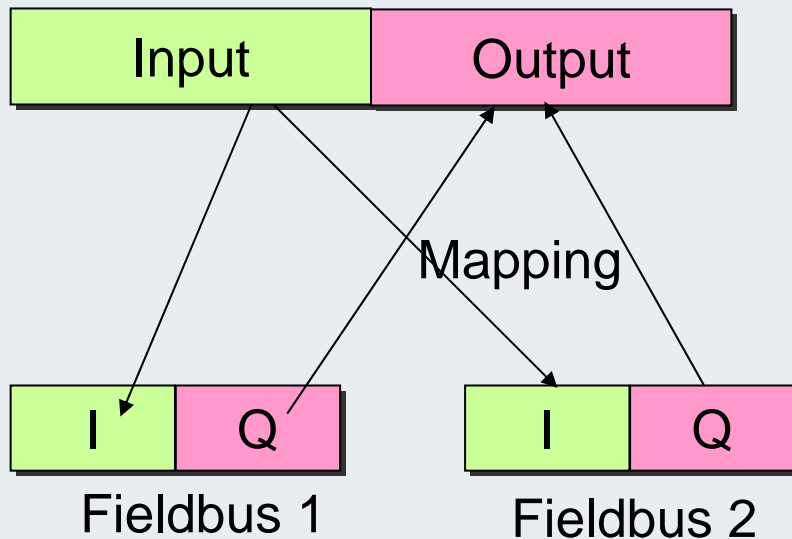
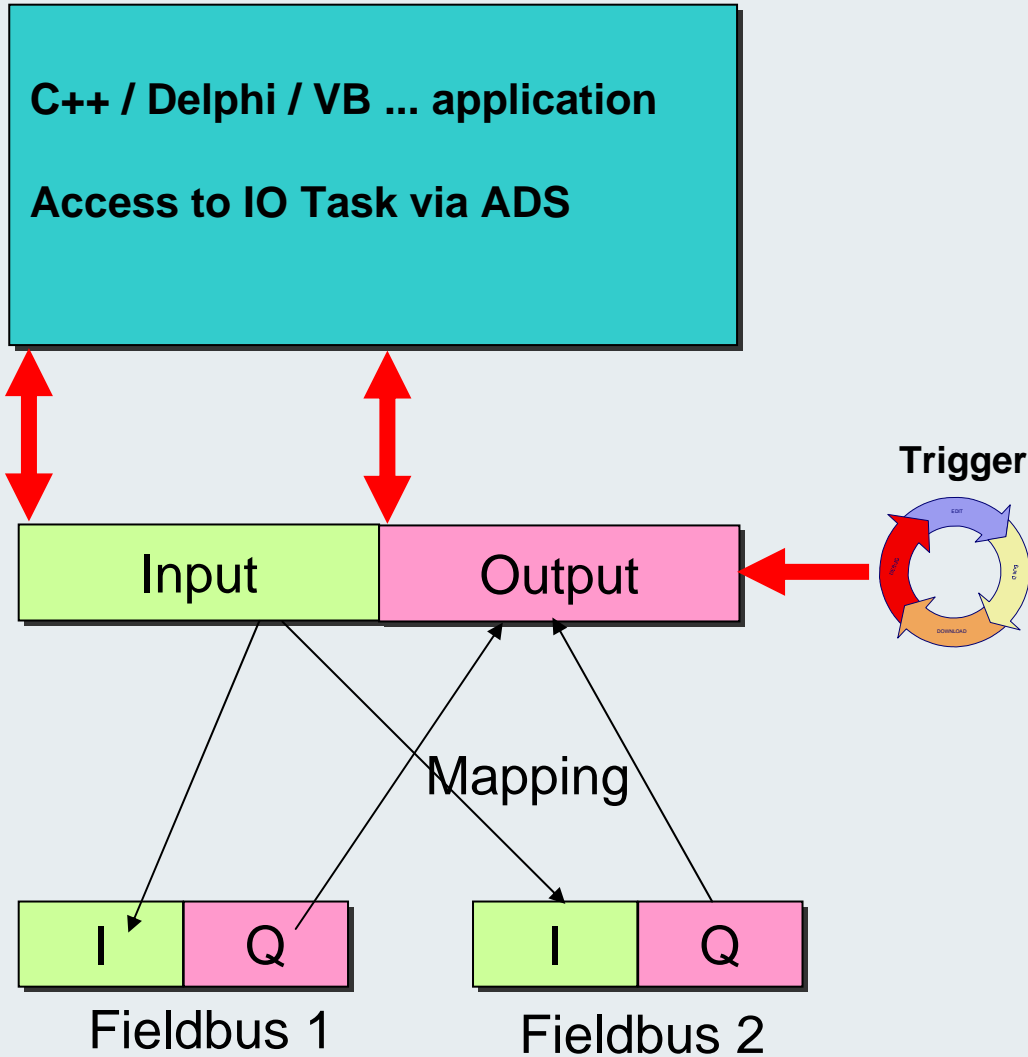


TwinCAT IO : Options on XP and CE

- Commercial :
 CE : TwinCAT IO is royalty free on BECKHOFF CE devices
 XP : TwinCAT IO cost royalties
- Technical : any difference ?



TwinCAT IO on Windows XP 1/2



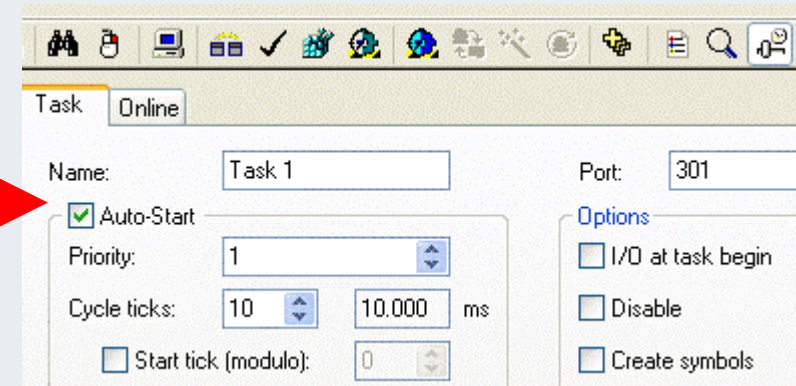
TwinCAT IO triggers the task
 → deterministic trigger

TwinCAT :

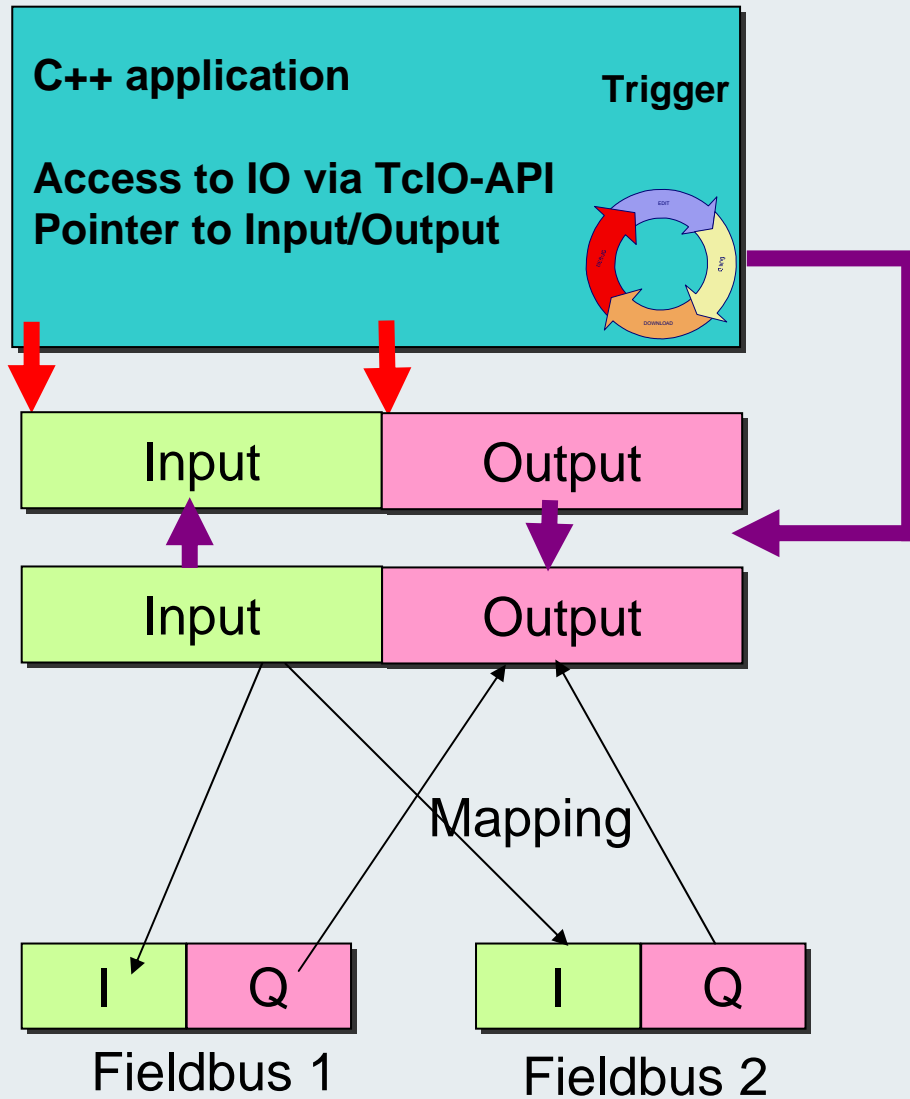
- deterministic cyclic to trigger task update to mapped IOs

User application :

- access process image via ADS
- asynchronous access to fieldbus



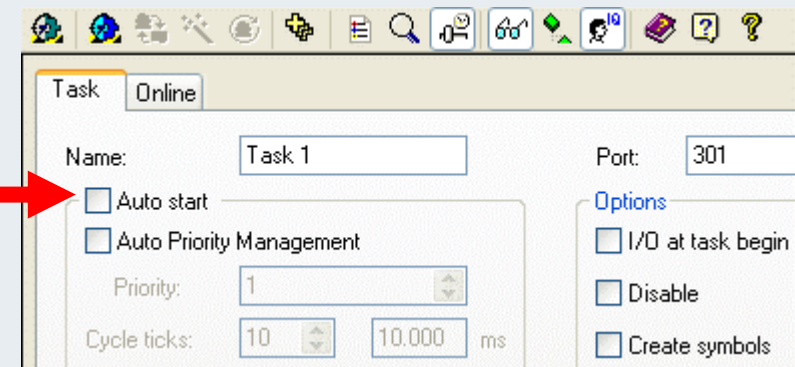
TwinCAT IO on Windows XP 2/2



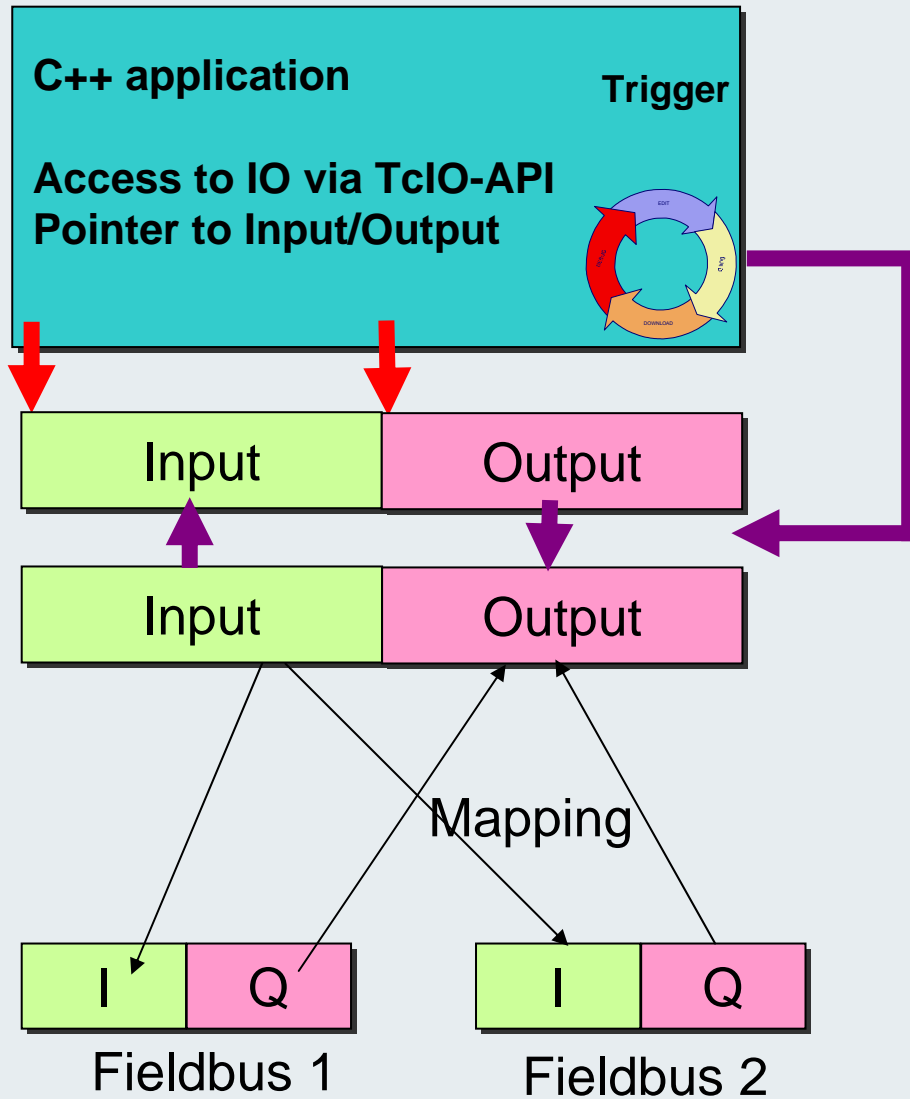
Application triggers the task
 → non deterministic trigger

TwinCAT :
 - no trigger !

User application :
 - access via pointer to IO-buffer in user-mode
 - trigger data exchange to IO-task
 - synchronous access to fieldbus



TwinCAT IO on Windows CE



Application triggers the task
 → deterministic trigger „TcTimer“

TwinCAT :

- no „AutoStart“ trigger in IO-task
- offers deterministic trigger „TcTimer“ for external use
- scalable down to 100µs
- royalty free

User application :

- access via pointer to IO-buffer
- trigger data exchange to IO-task
- synchronous access to fieldbus

