

Atmel CryptoAuthLib
object design

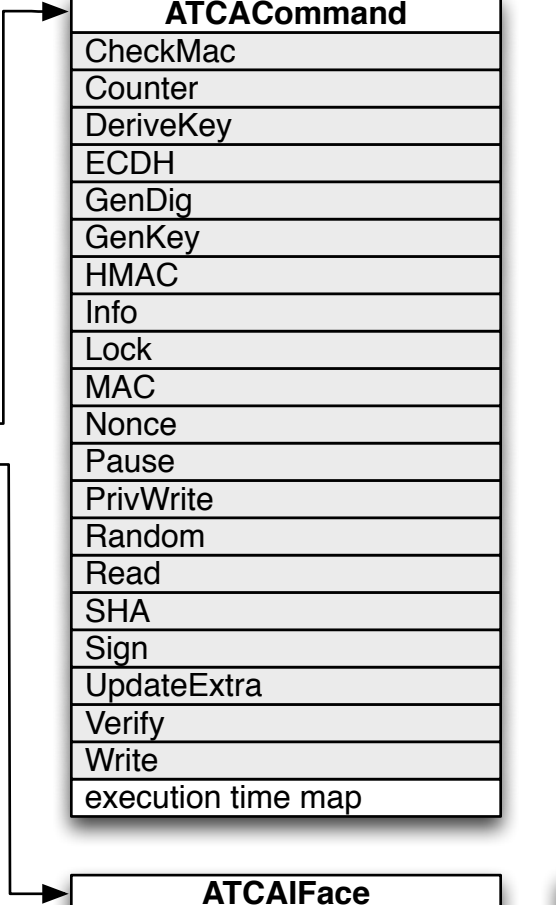
ATCADeviceType
ATSHA204A
ATECC108A
ATECC508A
ATAES132A
....

ATCADevice
ATCACommand
ATCAIFace

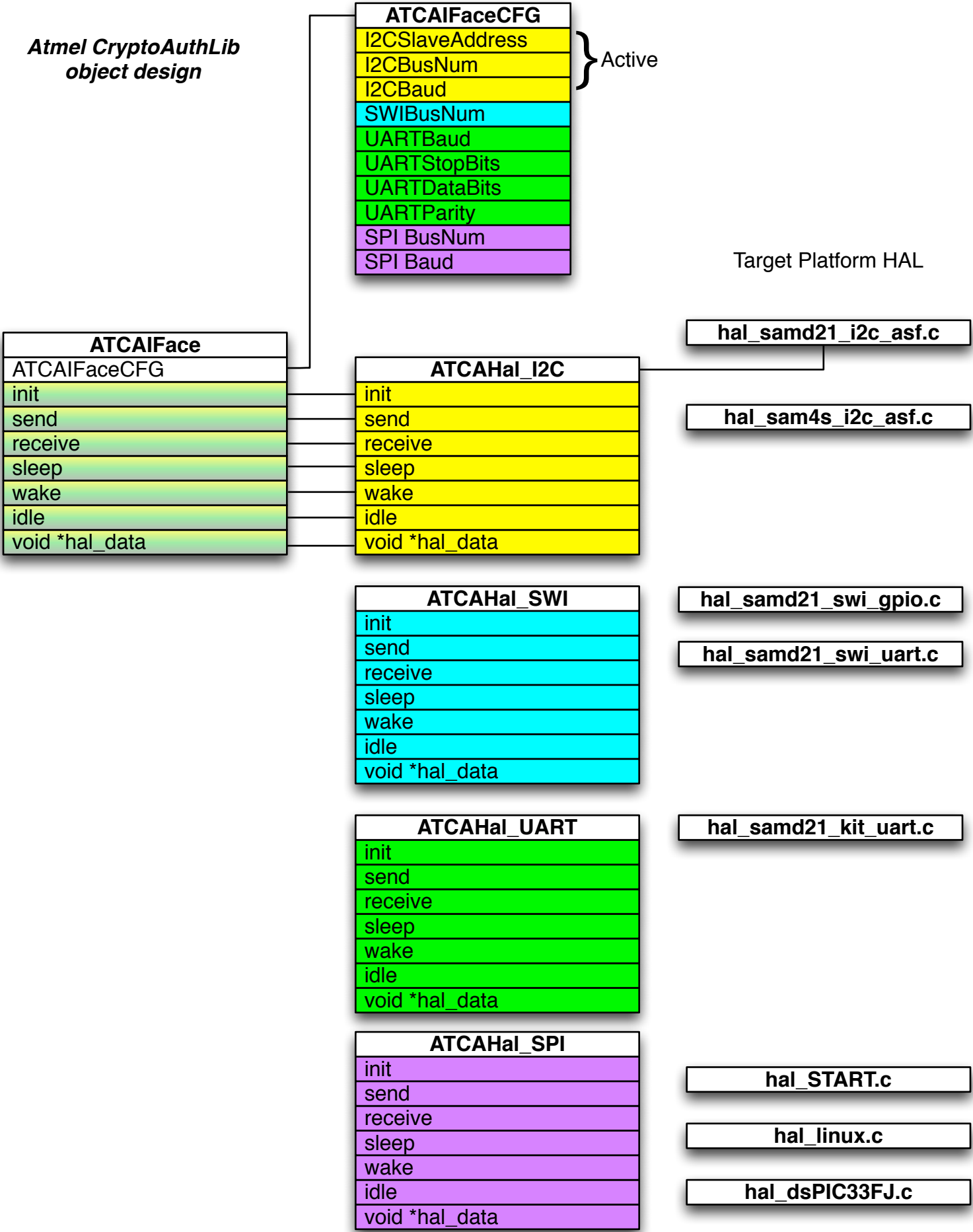
ATCACommand
CheckMac
Counter
DeriveKey
ECDH
GenDig
GenKey
HMAC
Info
Lock
MAC
Nonce
Pause
PrivWrite
Random
Read
SHA
Sign
UpdateExtra
Verify
Write
execution time map

ATCAIFace
ATCAIFaceCFG
init
send
receive
sleep
wake
idle
void *hal_data

ATCAIFaceCFG
device type
I2CSlaveAddress
I2CBusNum
I2CBaud
SWIBusNum
UARTBaud
UARTStopBits
UARTDataBits
UARTParity
SPIBusNum
SPIBaud



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Example showing how the HAL methods are initialized in the interface instance without having the HAL implementation bleed into the top layers.
 ATCAHAL is used temporarily as an intermediary object to facilitate the connection, then it can be deleted

