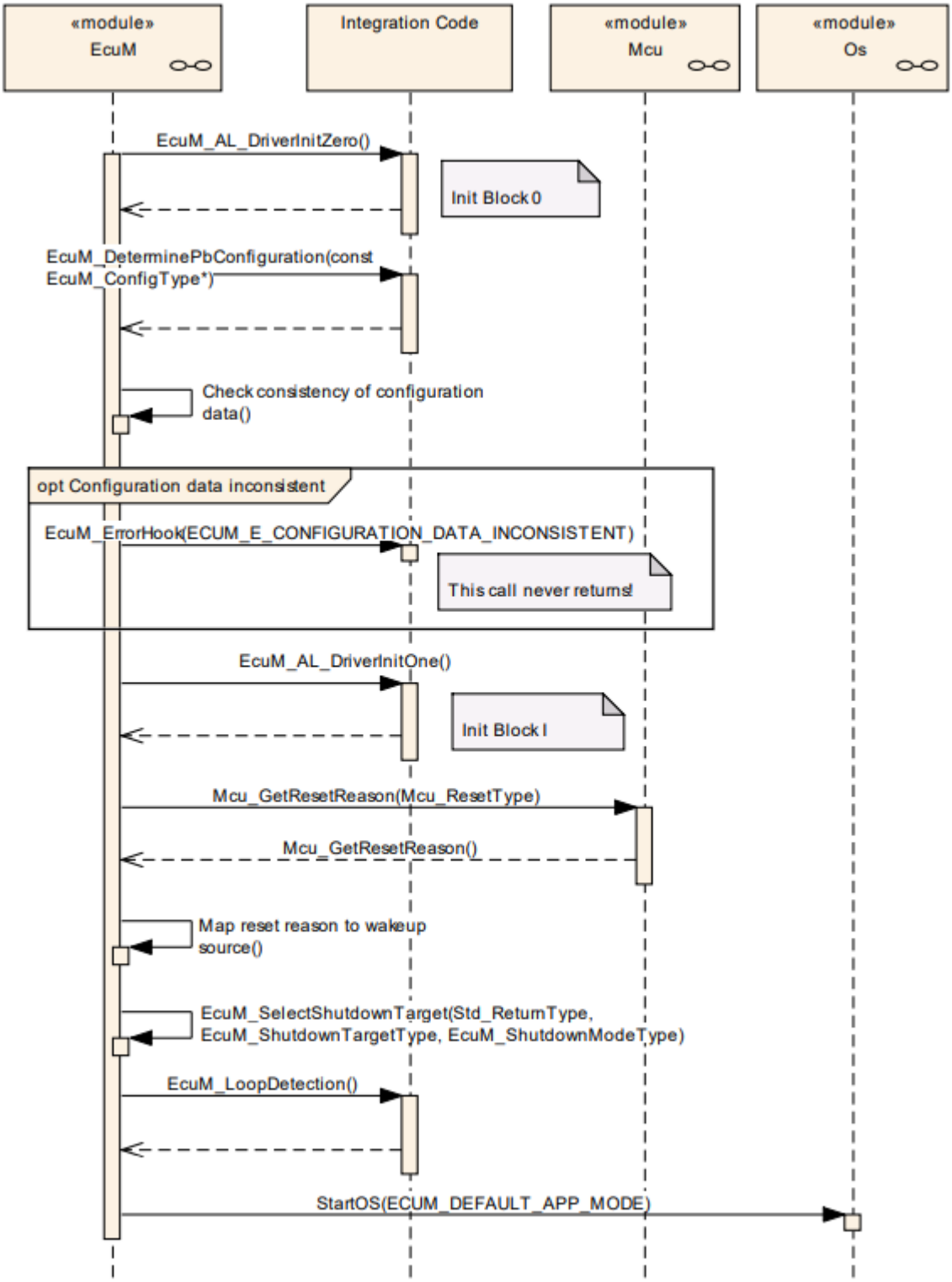
EcuM Exercise

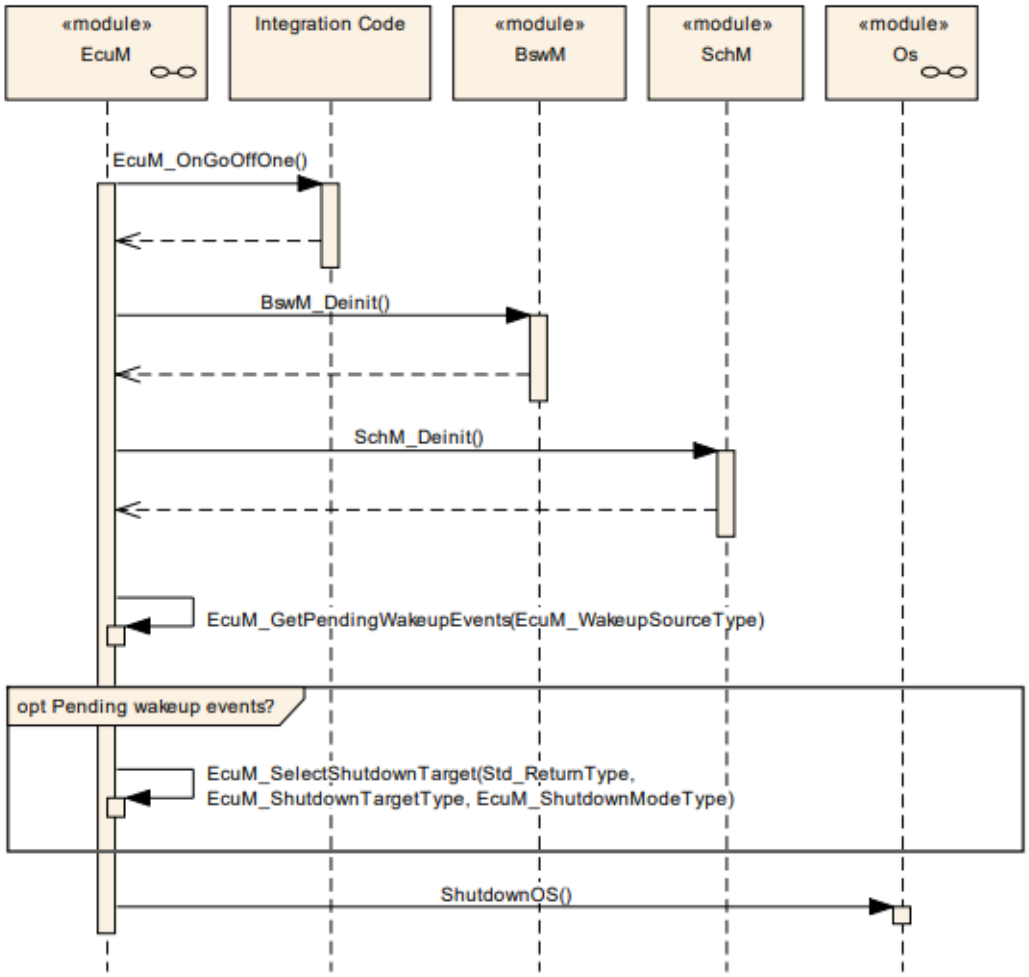
1 – StartPreOS Sequence



1.1 Actions Done by EcuM in preOS Sequence

StartPreOS Sequence			
	Initialization Activity	Comment	Opt.[4]
	Callout EcuM_AL_SetProgrammableInterrupts	On ECUs with programmable interrupt priorities, these priorities must be set before the OS is started.	yes
	Callout EcuM_AL_DriverInitZero	Init block 0 This callout may only initialize BSW modules that do not use post-build configuration parameters. The callout may not only contain driver initialization but also any kind of pre-OS, low level initialization code. See 7.3.5 Driver Initialization	yes
	Callout EcuM_DeterminePbConfiguration	This callout is expected to return a pointer to a fully initialized EcuM_ConfigType structure containing the post-build configuration data for the ECU Manager module and all other BSW modules.	no
	Check consistency of configuration data	If check fails the EcuM_ErrorHook is called. See *7.3.4* Checking Configuration Consistency for details on the consistency check.	no
	Callout EcuM_AL_DriverInitOne	Init block I The callout may not only contain driver initialization but any kind of pre-OS, low level initialization code. See 7.3.5 Driver Initialization	yes
	Get reset reason	The reset reason is derived from a call to `Mcu_GetResetReason` and the mapping defined via the `EcuMWakeupSource` configuration containers. See 8.5.1.2 EcuM_SetWakeupEvent and 8.3.5.3 EcuM_GetValidatedWakeupEvents (see SWS_EcuM_02830)	no
	Select default shutdown target	See SWS_EcuM_02181	no
	Callout EcuM_LoopDetection	If Loop Detection is enabled, this callout is called on every startup.	yes
	Start OS	Start the AUTOSAR OS, see SWS_EcuM_02603	no

2.2 – OffPreOS Sequence



2- Activities in the OffPreOS Sequence

OffPreOS Sequence			
	Shutdown Activity	Comment	Opt.[9]
	De-init BSW Mode Manager		no
	De-init BSW Scheduler		no
	Check for pending wakeup events	Purpose is to detect wakeup events that occurred during shutdown	no
	Set RESET as shutdown target, if wakeup events are pending (default reset mode of *EcuMDefaultResetModeRef* (ECUC_EcuM_00205) will be used)	This action shall only be carried out when pending wakeup events were detected to allow an immediate startup	no
	ShutdownOS	Last operation in this OS task	no