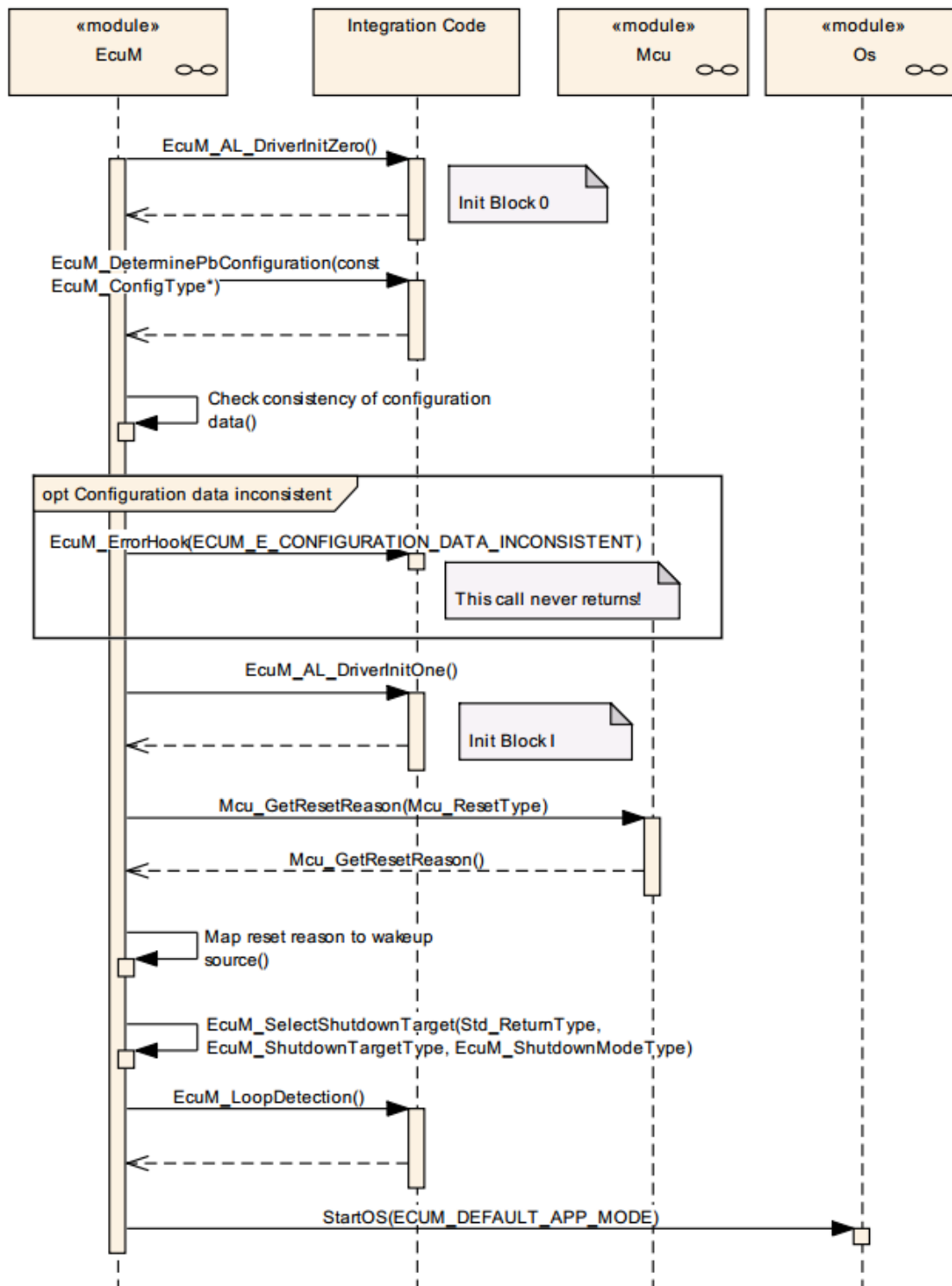


Assignment System and OS stack(part 1)

1. PreOs sequence

- 1.1. Callout Ecum_AL_SetProgrammableInterrupts
 - 1.1.1. On ECUs with programmable interrupt priorities, these priorities must be set before the OS is started.
- 1.2. Callout Ecum_AL_DriverInitZero
 - 1.2.1. 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.(DET,DEM)
- 1.3. Callout Ecum_DeterminePbConfiguration
 - 1.3.1. 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.
- 1.4. Check consistency of configuration data
 - 1.4.1. If the check fails the Ecum_ErrorHook is called.
- 1.5. Callout Ecum_AL_DriverInitOne
 - 1.5.1. Init block I The callout may not only contain driver initialization but any kind of pre-OS, low level initialization code.
- 1.6. Get reset reason
 - 1.6.1. The reset reason is derived from a call to Mcu_GetResetReason and the mapping defined via the EcumWakeupSource configuration containers.
- 1.7. Select default shutdown target
- 1.8. Callout Ecum_LoopDetection
 - 1.8.1. If Loop Detection is enabled, this callout is called on every startup.
- 1.9. Start OS
 - 1.9.1. Start the AUTOSAR OS



2. Off PreOS sequence

- 2.1. De-init BSW Mode Manager
- 2.2. De-init BSW Scheduler
- 2.3. Check for pending wakeup events
 - 2.3.1. Purpose is to detect wakeup events that occurred during shutdown
- 2.4. Set RESET as shutdown target, if wakeup events are pending (default reset mode of *EcuMDefaultResetModeRef* will be used)
 - 2.4.1. This action shall only be carried out when pending wakeup events were detected to allow an immediate startup
- 2.5. ShutdownOS
 - 2.5.1. Last operation in this OS task

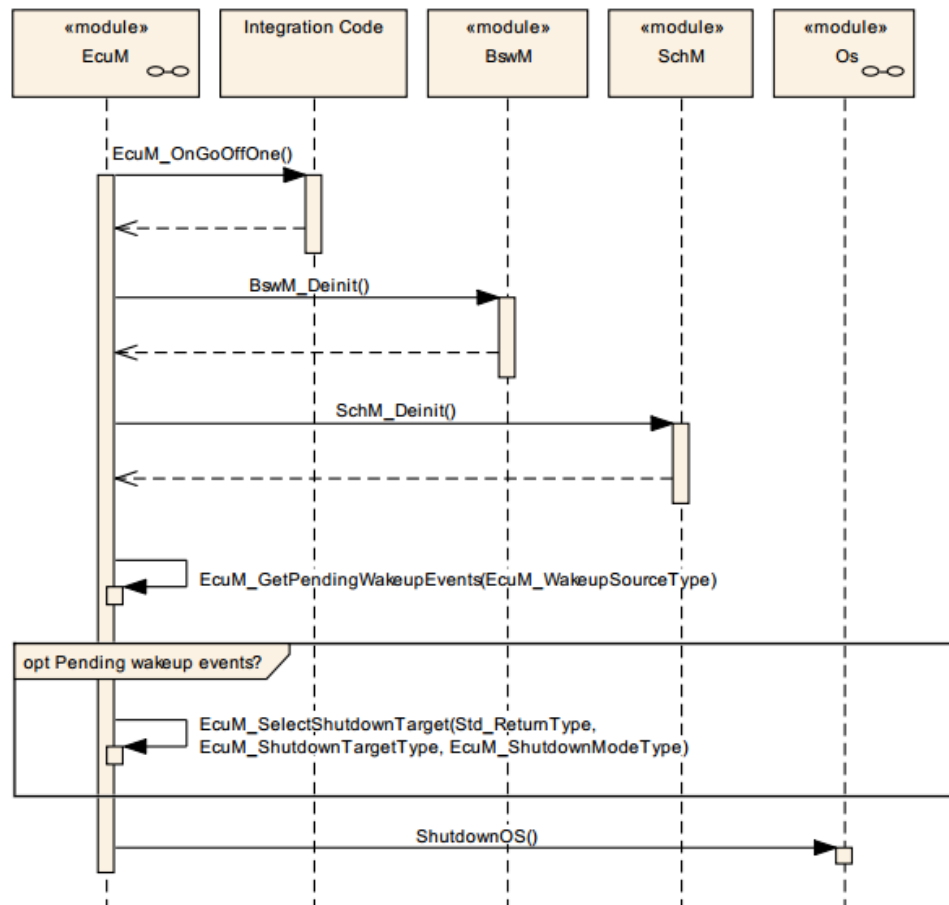


Figure 8 – OffPreOS Sequence