StartPreOS Sequence

- Callout EcuM_AL_SetProgrammableInterrupts; on ECUs with programmable interrupts priorities, the priorities must be set before the OS is started.
- 2. Callout EcuM_AL_DriverInitZero; initialize block 0, default error tracer, Dem PreInit and any driver needs to access the post build configuriations.
- 3. Callout EcuM_DeterminePbConfiguratoin; return a pointer to fully initialized EcuM_ConfigType structure has the post build configuration data for the ECU manager module and BSW modules.
- 4. Check consistency of configuration data; if check fails the EcuM_ErrorHook is called.
- 5. Callout EcuM_AL_DriverInitOne; initialize block one, containing the MCAL drivers in preOS.
- Get reset reason; is derived from a call to Mcu_GetResetReason and mapping defined via the EcuMWakeupSource configuration containers.
- 7. Select default shutdown target; EcuM_SelectShutdownTarget.
- 8. Callout EcuM_LoopDetection; if loop detection is enabled, this callout is call on every startup.
- 9. StartOS; start the AUTOSAR OS.

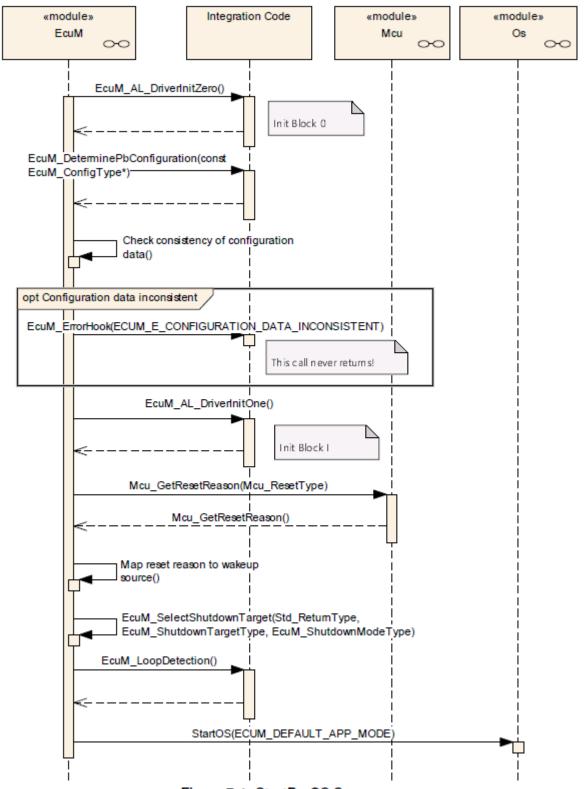


Figure 7.4: StartPreOS Sequence

OFFPreOS Sequence

- EcuM_OnGoOffOne()
- De_init BSW Mode Manager; BswM_Deinit()
- De_init BSW Scheduler; ShcM_Deinit()
- 4. Check for pending wakeup events, purpose is to detect wakeup events that occurred during shutdown; EcuM_GetPendingWakeupEvents()
- 5. EcuM_SelectShutdownTarget() or Set RESET as shutdown target, if wakeup events are pending (default reset mode of EcuMDefaultResetModeRef will be used; this action shall only be carried out when pending wakeup events were detected to allow an immediate startup.
- 6. ShutdownOS(); last operating in this OS task

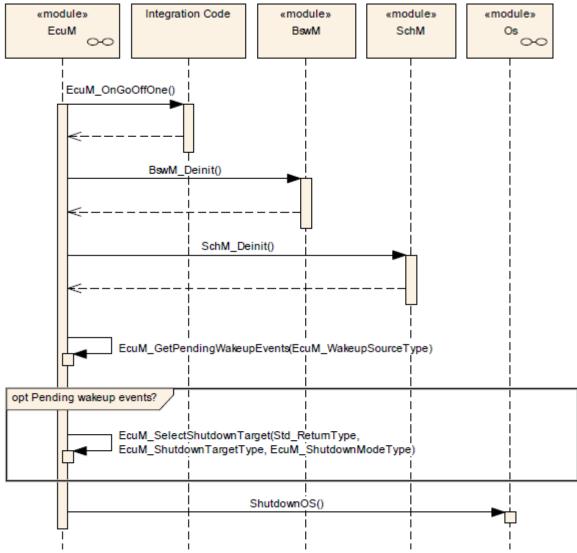


Figure 7.8: OffPreOS Sequence