

1- StartPreOs Sequence:

StartPreOS Sequence		
Initialization Activity	Comment	Opt.
Callout <code>EcuM_AL_SetProgrammableInterrupts</code>	On ECUs with programmable interrupt priorities, these priorities must be set before the OS is started.	yes
Callout <code>EcuM_AL_DriverInitZero</code>	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 <code>EcuM_DeterminePbConfiguration</code>	This callout is expected to return a pointer to a fully initialized <code>EcuM_ConfigType</code> 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 <code>EcuM_ErrorHook</code> is called. See 7.3.4 Checking Configuration Consistency for details on the consistency check.	no
Callout <code>EcuM_AL_DriverInitOne</code>	Init block 1 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 <code>Mcu_GetResetReason</code> and the mapping defined via the <code>EcuMWakeupSource</code> configuration containers. See 8.4.1.2 <code>EcuM_SetWakeupEvent</code> and 8.3.5.3 <code>EcuM_GetValidatedWakeupEvents</code> (see [SWS_EcuM_02830])	no
Select default shutdown target	See [SWS_EcuM_02181]	no
Callout <code>EcuM_LoopDetection</code>	If Loop Detection is enabled, this callout is called on every startup.	yes
Start OS	Start the AUTOSAR OS, see [SWS_EcuM_02603]	no

Table 7.1: StartPreOS Sequence

2- OffPreOs Sequence:

OffPreOS Sequence		
Shutdown Activity	Comment	Opt.
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 <code>EcuMDefaultReset-ModeRef</code> 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

Table 7.4: OffPreOs Sequence