1 Safelet Template

2 Mission Sequencer Template

3 Mission Template

```
{\bf channel set} \ {\it MissionAppSync} = =
\{|initializeCall, register, initializeRet, cleanupMissionCall, cleanupMissionRet|\}
\mathbf{channelset}\,\mathit{MissionAppChanSet} = =
\{ | initialize Call, initialize Ret, cleanup Mission Call, cleanup Mission Ret, < \# list schedulables Registers as Schedulable ID > note that the second s
process ${ProcessName}App =
Initialize \stackrel{\frown}{=}
        'initialize Call . \{MissionID\} \longrightarrow <\# listschedulablesRegistersasSchedulableID > register ! \{SchedulableID\}! \{MissionID\} \longrightarrow <\# list > initializeRet . \{MissionID\} \longrightarrow Silin
Clean Up \stackrel{\frown}{=}
        < getmethod > \\ < \# \ else > \\ \ cleanup Mission Call . \$\{Mission ID\} \longrightarrow \\ \ cleanup Mission Ret . \$\{Mission ID\} ! \ True \longrightarrow \\ \mathbf{Skip} \\ < / \# \ if > 
          ^{\prime}<\#\ ^{1}\!\!fclean up method is present>
Methods \stackrel{\frown}{=}
```

• $(Methods) \triangle (end_mission_app . \$\{MissionID\} \longrightarrow \mathbf{Skip})$

4 Handslers Template

```
\begin{aligned} & \textbf{process} \, \$ \{ ProcessName \} App \, \widehat{=} \\ & \textbf{Methods} \, \widehat{=} \\ & \textbf{handlerAsyncEvent} \, ; \, \, \textbf{Methods} \\ & \textbf{handlerAsyncEvent} \, \widehat{=} \\ & \begin{pmatrix} \textbf{handleAsyncEventCall} \, . \, \$ \{ SchedulableID \} \longrightarrow \\ & \textbf{handleAsyncEventRet} \, . \, \$ \{ SchedulableID \} \longrightarrow \\ & \textbf{Skip} \\ & \bullet \, \, (\textbf{Methods}) \, \triangle \, (\textbf{end} \, - \$ \{ \textbf{HandlerType} \} \textbf{EventHandler} \, - \textbf{app} \, . \, \$ \{ \textbf{SchedulableID} \} \longrightarrow \textbf{Skip}) \end{aligned}
```

5 Managed Thread Template

```
\begin{aligned} &\mathbf{process} \$ \{ ProcessName \} App \ \widehat{=} \\ &Methods \ \widehat{=} \\ &Run \ ; \ Methods \end{aligned} \begin{aligned} &Run \ \widehat{=} \\ & \left( runCall \cdot \$ \{ SchedulableID \} \longrightarrow \right) \\ &runRet \cdot \$ \{ SchedulableID \} \longrightarrow \right) \\ &\mathbf{Skip} \end{aligned} \bullet \ (Methods) \ \triangle \ (end\_managedThread\_app \cdot \$ \{ SchedulableID \} \longrightarrow \mathbf{Skip} )
```