Activation of a node

|  |  |
| --- | --- |
| Created by: | Michael Geisinger |
| Reviewed by: | Enter name of reviewer. |
| Status: | Ready for review |
| Last modified: | 2012-02-14 |

|  |  |
| --- | --- |
| Unique identifier: | Enter unique identifier for this scenario. |
| Rationale: | This scenario describes the activation sequence of components on a node. The necessity of this scenario is obvious. |
| Example: | (not applicable) |
| Components: | * XME Core * Node component list * HAL components * Resource Manager |
| Preconditions: | The node hardware has just been turned on and the CPU starts executing the XME Core initialization routine. |
| Course of events: | 1. HAL interfaces must be initialized (e.g., synchronization, memory, network, and interface manager backends). 2. Resource Manager must be initialized.    1. Component concept must be established.       1. Port concept must be established.       2. DCC and RR concepts must be established.       3. Thread local storage for component context must be allocated.    2. Primitive and advanced components must be created (according to the order in the node component list). 3. Resource Manager must be activated.    1. Primitive and advanced components must be activated (according to the order in the node component list). |
| Postconditions: | Components on node component list are all initialized and activated. |
| Exceptions: | (none) |
| Limitations: | Depending on the number and type of components, timing of initialization and activation might differ. Hence, no hard time bound can be established in general. |
| Test cases: | * List the test cases that prove correctness of the implementation. |
| Design decisions: | * List design decisions that have been made/assumed in this scenario. |
| System states: | * System states are not yet available during this scenario. |
| Illustration: |  |
| Predecessor scenarios: | * List the scenarios that need to be designed or implemented before this one becomes relevant. |
| Related scenarios: | * HAL interface initialization |
| Successor scenarios: | * List the scenarios that require this scenario to be designed or implemented first. |
| Comments and open questions: | * Comment on this scenario. |