# SDD Review Document

## Summary

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| --- | --- |
| **Date** | September 4th 2021 |
| **Effort** | 4 hrs |
| **Room/Location** | Continental |
| **Review Status** | Closed |
| **Review name** | SDD\_HwConfig.doc |
| **Method** | WT, DC, II |
| **Release** | September 3th 2021 |
| **Responsible** | Daniel Edgardo Ramirez Mendez |
| **Project** | Door Control Module |
| **Reason of Review** | General Review |

## Comment List

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| --- | --- | --- | --- | --- | --- |
| **No.** | **Reference** | **Comments / Actions** | **Classification (E)rror/Risk / (R)emark** | **Responsible person/Planned date for completion** | **Completion(Name/Date)** |
| 1 | SDD\_HwConfig | Some functions may need some statement diagram, but they’re very well described in functionality | N/A | Berenice Jimenez | Berenice Jimenez, September 6th 2021 |
| 2 | SDD\_HwConfig | Purpose can be explained in a better form | Remark | Berenice Jimenez | Berenice Jimenez, September 6th 2021 |
| 3 | SDD\_HwConfig | Jumpers are called J0 and J1 instead of J1 and J2 (in precondition at HwCongif\_Get() function) | Remark | Berenice Jimenez | Berenice Jimenez, September 6th 2021 |
| 4 | SDD\_HwConfig | HwConfig\_Get(), there are 5 values between 0 and 8 with just 2 Jumpers combination (could be between 0 and 4 and an unknown value at the beginning). | Remark | Berenice Jimenez | Berenice Jimenez, September 6th 2021 |

## Check List

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| --- | --- | --- | --- | --- | --- |
| No | Description | OK / NOK / NR | Comment | Responsible person /  Planned date for completion | Status |
| 1 | Does the design comply to the SW architecture? (interfaces, scheduling...) | OK | No comment to add | Berenice Jimenez | Closed |
| 2 | Are all requirements allocated to Desing elements? | OK | No comment to add | Berenice Jimenez | Closed |
| 3 | Are all operations described in an adequate detail and with the adequate notation? | NOK | Some functions may need statement diagrams | Berenice Jimenez | Closed |
| 4 | Is the coupling level between SW parts (internal or externals) reduced to the minimum?  Is the justification of all global data written in the design document? | OK | No comment to add | Berenice Jimenez | Closed |
| 5 | Is each data owned by one unit?  If a data is public (for read and/or for write operations), is its access made using a method provided by the owner?  (if a method is provided for read and write operations on the same pubilc data, the data has to be private) | OK | No Comment to add | Berenice Jimenez | Closed |
| 6 | How are the variables initialized? If not initialized, is the reason explained? | NOK | There’s no value initialized in any function | Berenice Jimenez | Closed |
| 7 | Is the mechanism to initialise the functionality (when needed) described?  (eg: function calls, data acquisition …) | OK | No comment to add | Berenice Jimenez | Closed |
| 8 | In case of global variable (shared or not shared) used in reentrance function (reentrance raised by an ISR), is there a mechanism to avoid data modification during its treatment? | NR | No global variables added or mentioned | Berenice Jimenez | Closed |
| 9 | Are Tasks, ISRs and event notification function kept as short as possible? | OK | No comment to add | Berenice Jimenez | Closed |
| 10 | Is the state variable only used in one single module?  (If the state variable needs to be visible from another module (to be avoided), indicate it in the design and use the mechanism of read copy on that variable). | OK | No comment to add | Berenice Jimenez | Closed |
| 11 | Is the event memorization (ex: flag) consumed at the end of each reccurence of a state machine?  Otherwise, the risk is to use an obsolete event (ex: event memorization consumption conditionned by a state transition). | OK | No comment to add | Berenice Jimenez | Closed |
| 12 | In case of asynchronous reception of the same event by several objects (ex: state machine, C function called periodicly…), has each object its own memorization mechanism (ex: separate flags). | NR | No asynchronous function mentioned in the document | Berenice Jimenez | Closed |