### BOOT\_ChooseAndLoadSW\_CLSW

#### BOOT\_CLSW\_LoadSW\_Load\_LoadAndTestSIF\_SHA\_ENVM

This function retrieves the SHA256 of the SIF Header from the PLD Compagnon ENVM.

Prototype:

void BOOT\_CLSW\_LoadSW\_Load\_LoadAndTestSIF\_SHA\_ENVM(

const uint32\_t p\_ENVMAddress,

ts\_BOOT\_Data\* p\_BootData,

boolean\_t\* p\_FlashReadFailed)

Parameters:

Function return : Not used

{p\_ENVMAddress} (R) : eNVM address

{p\_BootData} (R/W) : BOOT data

{p\_FlashReadFailed} (W) : Read failure status

Calls:

LIBBSP\_ENVM\_Open

LIBBSP\_ENVM\_Read

LIBBSP\_ENVM\_Close

Preconditions:

None

##### Input Data

Data:

None

**Preconditions:**

None

##### Output Data

Data:

None

##### Requirements

REQ\_SDDD\_BOOT\_CLSW\_LoadSW\_Load\_LoadAndTestSIF\_SHA\_ENVM\_000xx-0x

*[COV.* *REQ\_BOOT\_SRD-00169]*

***BOOT\_CLSW\_LoadSW\_Load\_LoadAndTestSIF\_SHA\_ENVM***

|  |  |  |  |
| --- | --- | --- | --- |
|  | Causes | | |
| Effects | **[**Open the access to ENVM of PLD COMPAGNON**]** | | |
| [The access to ENVM of PLD COMPAGNON is not successful] | [The access to ENVM of PLD COMPAGNON is successful] | |
| Set {p\_FlashReadFailed} to TRUE | **[**Retrieve the SHA256 stored in the SIF file from the PLD COMPAGNON ENVM**]**  **[**Close the access to ENVM of PLD COMPAGNON**]** | |
| [An error is detected] | [No error detected] |
| Set {p\_FlashReadFailed} to TRUE | No effect |

**[**Open the access to ENVM of PLD COMPAGNON**]:** corresponds to the following call:

**LIBBSP\_ENVM\_Open**

* **Function return:** {access status}
* **IN**: {E\_LIBBSP\_ENVM\_COMPAGNON}

[The access to ENVM of PLD COMPAGNON is not successful]: {access status} is not equal to {E\_LIBBSP\_ENVM\_OK}.

[The access to ENVM of PLD COMPAGNON is successful]: {access status} is equal to {E\_LIBBSP\_ENVM\_OK}.

**[**Retrieve the SHA256 stored in the SIF file from the PLD COMPAGNON ENVM**]**: corresponds to the following call:

**LIBBSP\_ENVM\_Read**

* **Function return:** not used
* **IN:** {E\_LIBBSP\_ENVM\_COMPAGNON}
* **IN:** {p\_ENVMAddress}
* **OUT:** {36}
* **OUT:** {p\_BootData}
* **IN/OUT:** the address of {access status}

The read from {p\_BootData} is done by 1byte

**[**Close The access to ENVM of PLD COMPAGNON**]:** corresponds to the following call

**LIBBSP\_ENVM\_Close**

* **Function return:** not used
* **IN:** {E\_LIBBSP\_ENVM\_COMPAGNON}

[An error is detected]: {access status} is different from {E\_LIBBSP\_ENVM\_OK}.

[No error detected]: {access status} is equal to {E\_LIBBSP\_ENVM\_OK}.

Traceability: Refined

Rationale:

Mean of verification: Test

[END\_REQ\_SDDD\_BOOT\_CLSW\_LoadSW\_Load\_LoadAndTestSIF\_SHA\_ENVM\_000xx-0x]