### BOOT\_ChooseAndLoadSW

#### BOOT\_CLSW\_LoadSW\_Load\_LoadAndTestLUD

This function checks the state of the LUD file and the operational condition of the Load status.

Prototype:

void BOOT\_CLSW\_LoadSW\_Load\_LoadAndTestLUD(

const TS\_FileInfo\* const p\_FileInfo,

uint32\_t\* p\_NumberOfSecondaryLoads,

TS\_SecondaryLoadInfo\* p\_SecondaryLoadsInfo,

boolean\_t\* p\_FlashReadFailed,

ts\_LoadStatus\* p\_LoadStatus)

Parameters:

Function return : Not used

p\_FileInfo (R) : File Info

p\_NumberOfSecondaryLoads (R/W): The number of secondary loads

p\_SecondaryLoadsInfo (R/W) : The secondary loads info

p\_FlashReadFailed (W) : Read failure status

p\_LoadStatus (W) : load status

Calls:

BOOT\_CLSW\_LoadSW\_Load\_LoadAndTest

LIBUTI\_CMN\_ParseLUD

Preconditions:

None

##### Input Data

Data:

None

Preconditions:

None

##### Output Data

Data:

None

##### Requirements

REQ\_SDDD\_BOOT\_000xx-0x

*[REQ\_BOOT\_SRD-00095]*

BOOT\_CLSW\_LoadSW\_Load\_LoadAndTestLUD

|  |  |  |  |
| --- | --- | --- | --- |
|  | Causes | | |
| Effects | **[**Check the state of ARINC665 files**]** | | |
| [The FLASH read is not successful] OR [The load status is corrupted] | [The FLASH read is successful] AND [The load status is not corrupted] | |
| Exit the function | [The number of secondary loads is different from 0] AND [The secondary loads info is different from 0] | [The number of secondary loads is equal to 0] AND [The secondary loads info is equal to 0] |
| **[**Check the LUD file operational condition and the load status**]** | Set {p\_LoadStatus->OutOfOperationalCondition} to TRUE |

**[**Check the state of ARINC665 files**]** corresponds to the following call:

**BOOT\_CLSW\_LoadSW\_Load\_LoadAndTest**

* **Function return:** Not used
* **IN:** {p\_FileInfo}
* **OUT:** {p\_FlashReadFailed}
* **OUT:** {p\_LoadStatus}

[The FLASH read is not successful]: {p\_FlashReadFailed} is different from FALSE.

[The load status is corrupted]: {p\_LoadStatus->Corrupted} is different from FALSE.

[The FLASH read is successful]: {p\_FlashReadFailed} is equal to FALSE.

[The load status is not corrupted]: {p\_LoadStatus->Corrupted} is equal to FALSE.

[The number of secondary loads is different from 0]: {p\_NumberOfSecondaryLoads} is different from 0.

[The secondary loads info is different from 0]: {p\_SecondaryLoadsInfo} is different from 0.

[The number of secondary loads is equal to 0]: {p\_NumberOfSecondaryLoads} is equal to 0.

[The secondary loads info is equal to 0]: {p\_SecondaryLoadsInfo} is equal to 0.

**[**Check the SUP file operational condition and the load status**]** corresponds to the following call:

**LIBUTI\_CMN\_ParseLUD**

* **Function return:** Not used
* **IN:** {p\_FileInfo->Address}
* **IN:** {C\_BOOT\_MAX\_NUMBER\_OF\_SECONDARY\_LOAD}
* **IN/OUT:** {p\_NumberOfSecondaryLoads}
* **IN/OUT:** {p\_SecondaryLoadsInfo}
* **OUT**: The address of the {p\_LoadStatus->OutOfOperationalCondition}

Traceability: Refined

Rationale:

Mean of verification: Test

[END\_REQ\_SDDD\_BOOT\_CLSW\_LoadSW\_Load\_LoadAndTestLUD\_00xxx-0x]