Data Path: Local UI custom configuration

Project TFS path: $/Firmware-SVI II AP FF/FD-SW

Project changeset version: 50828

Starting point: Local UI data delivery from FFP

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| --- | --- | --- | --- | --- |
| Containing file | | FD-SW/target/appl/fdev/src/ lui\_ipc\_variables.c | Review Date | Reviewer |
| Function or data | | cust\_conf\_enabled | 15-05-11 | AK |
|  | | | | |
| TFS wit |  | NO FINDINGS | | |
| Impact | |  | | |
| Resolution | |  | | |
| Additional | | Corresponding changes reviewed in:  FD-SW/target/appl/fdev/src/appl\_ptb.c  FD-SW/target/appl/fdev/inc/ lui\_ipc\_variables.h | | |
| Comment | | UI data is now set to send unconditionally, and cust\_conf\_enabled is eliminated along with accesses to it. All looks good | | |

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| Function or data | | bios\_GetAdRawData | 14-03-06 | JL |
|  | | | | |
| TFS wit |  | NO FINDINGS | | |
| Impact | |  | | |
| Resolution | |  | | |
|  | | | | |
| Function or data | | channel\_convert | 14-03-06 | JL |
|  | | | | |
| TFS wit |  | NO FINDINGS | | |
| Impact | |  | | |
| Resolution | |  | | |
|  | | | | |
| Function or data | | special\_channel\_convert | 14-03-06 | JL |
|  | | | | |
| TFS wit |  | NO FINDINGS | | |
| Impact | |  | | |
| Resolution | |  | | |
|  | | | | |
| Function or data | | bios\_WriteMeasureSequence | 14-03-06 | JL |
|  | | | | |
| TFS wit |  | ~~From line 205 to 213, if \*chk= END\_SEQ\_TWO, in next for loop, ad\_IsChannelPowered(\*chk) input would be over range. Because NUMBER\_OF\_AD\_CHANNELS = 13, but END\_SEQ\_TWO=0x20.~~ | | |
| Impact | |  | | |
| Resolution | | To avoid id=14, 15, 16…31, shall we change #define END\_SEQ\_TWO  0x20 To #define END\_SEQ\_TWO  NUMBER\_OF\_AD\_CHANNELS? | | |
| Comment | | An A/D sequence is one of the predefined constant arrays representing an unrolled sequence with stops and ending with stop/restart. The format is explained in the doc for bios\_WriteMeasureSequence(). The correctness can be established by examining the generating macros, or in the debugger’s Watch window by looking at sequences in adtbl.c.  Markers only need to be greater than all channels ids. This deserves a CONST\_ASSERT; so a bug should be entered for development branch. But nothing is broken yet.-------Ark  -------------------------------------------------------------------------------------------------------  Thanks, after watch the content of each item of adtbl\_seqTbl in adtbl.c, I got the key. And the bug has been created in item 20438.----------Jojo | | |
|  | | | | |
| Function or data | | bios\_MeasureAd | 14-03-06 | JL |
|  | | | | |
| TFS wit |  | Line 228, 229, 230, temp variable temp2/kt/sample could be defined just before usage. | | |
| Impact | |  | | |
| Resolution | | Put Line 228, 229, 230 to line 266, just before the do loop. | | |
| Comment | | Please fill the Impact line.  It would seem to me a better coding style but it is… just coding style. Unless JL wants to propose the rule for the coming coding standard, to which she is welcome☺  ☺ | | |
|  | | | | |
| TFS wit |  | ~~Line 240, why u8 lookaheadhannel = \*(seq + 1u);~~  ~~typedef struct ADSeqState\_t~~  ~~{~~  ~~const u8 \*measureSeqBase; //!< pointer to base of seq table (first fast channel)~~  ~~const u8 \*pSeq; //!< pointer to current channel~~  ~~u16 CheckWord;~~  ~~} ADSeqState\_t;~~  ~~seq+1u=?~~ | | |
| Impact | |  | | |
| Resolution | |  | | |
| Comment | | Looks like a typo deserving a bug. look\_ahead\_**c**hannel is the next A/D channel to convert. It is of course next in the list, and because of the test in line 296, is not outside of array boundary--------------Ark  ------------------------------------------------------------------------------------------------------  I missed \* in “const u8 \*pSeq; ” Thanks! This item is invalid! ----------Jojo | | |
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| TFS wit |  | ~~Line 321, NUMBER\_OF\_AD\_CHANNELS=13, but the comparison is END\_SEQ\_TWO. And END\_SEQ\_TWO=0x20.~~ | | |
| Impact | | Over range | | |
| Resolution | |  | | |
| Comment | | See comment above on the same issue | | |
|  | | | | |
| ~~Function or data~~ | | ~~ad\_GetTerminalDiagResult~~ | ~~14-03-06~~ | ~~JL~~ |
|  | | | | |
| ~~TFS wit~~ |  | ~~NO SIGNIFICANT FINDINGS~~ | | |
| ~~Impact~~ | |  | | |
| ~~Resolution~~ | | ~~diagResult is not checksum-protected, it should be.~~ | | |
| ~~Comment~~ | | ~~Note that this and below code is compiled out.~~ | | |
|  | | | | |
| ~~Function or data~~ | | ~~waste~~ | ~~14-03-06~~ | ~~JL~~ |
|  | | | | |
| ~~TFS wit~~ |  | ~~NO FINDINGS~~ | | |
| ~~Impact~~ | |  | | |
| ~~Resolution~~ | |  | | |
|  | | | | |
| ~~Function or data~~ | | ~~ad\_PerformTerminalBoardDiag~~ | ~~14-03-06~~ | ~~JL~~ |
|  | | | | |
| ~~TFS wit~~ |  | ~~Line 394, magic number 500.~~ | | |
| ~~Impact~~ | |  | | |
| ~~Resolution~~ | | ~~Change to macro definition with meaning.~~ | | |
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