Data Path: HART Master error reporting and propagation

Project TFS path: $/FW SVI FF Releases/Release1/FD-SW

Project changeset version: 34719

Starting point: HART\_result

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Containing file | | FD-SW\target\appl\hm\src\hm\_task.c | Review Date | Reviewer |
|  | | | | |
| Function or data | | HART\_result | 14-02-27 | AK |
| TFS wit |  | Definition is NO\_INIT, should be initialized to an error | | |
| Impact | | Can it be accessed out-of-order? Probably, not, so we are likely OK. | | |
| Resolution | |  | | |
|  | | | | |
| Function or data | | hm\_start\_new\_cmd, HART\_result | 14-02-27 | AK |
| TFS wit |  | HART\_result is filled on any HART command in hm\_start\_new\_cmd but used only to populate HM\_acyc\_result | | |
| Impact | |  | | |
| Resolution | |  | | |
|  | | | | |
| Function or data | | task\_hm\_base\_routine | 14-02-27 | AK |
| TFS wit |  | HART\_ACY\_CMD\_END\_EVENT may not be accompanied by setting HART\_result; | | |
| Impact | | Async command will inherit the previous HART\_result | | |
| Resolution | | The bug is only partially masked by mn\_HART\_acyc\_cmd accounting for no response at all. Comm errors and such remain a bug.  See osif\_set\_event(HM\_TASK\_ID, HART\_ERROR\_EVENT):  /\* new command was started when a command is pending \*/  /\* there is no answer from HART device \*/  /\* response was failure \*/ | | |
|  | | | | |
| Containing file | | FD-SW\target\appl\hm\src\hm\_if.c | Review Date | Reviewer |
| Function or data | | HM\_acyc\_result, hm\_get\_acyc\_result | 14-02-27 | AK |
| TFS wit |  | NO FINDINGS | | |
| Impact | |  | | |
| Resolution | |  | | |
|  | | | | |
| Function or data | | HART\_acyc\_cmd | 14-02-27 | AK |
| TFS wit |  | NO FINDINGS | | |
| Impact | |  | | |
| Resolution | |  | | |
|  | | | | |
| Containing file | | FD-SW\target\appl\hm\src\hm.c | Review Date | Reviewer |
| Function or data | | HART\_DMAR\_handler | 14-02-27 | AK |
| TFS wit |  | If rcvErrors!=0 in the first phase, we may not go to the second phase because length is not reliable. | | |
| Impact | | HART may hang waiting for DMAR interrupt which will never come | | |
| Resolution | | Timer 11 to the rescue? | | |
|  | | | | |
| Function or data | | rcv\_msg | 14-02-27 | AK |
| TFS wit |  | NO FINDINGS | | |
| Impact | |  | | |
| Resolution | |  | | |
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