Local UI improvements

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

Project changeset version: 35590

Starting point: Local UI display of raw position

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| --- | --- | --- | --- | --- |
| Containing file | | FIRMWARE/interface/ui/glue/uicommon.c | Review Date | Reviewer |
| Function or data | | ui\_GetRawPosVal | 15-05-13 | AK |
|  | | | | |
| TFS wit |  | NO FINDINGS | | |
| Impact | |  | | |
| Resolution | |  | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Containing file | | FIRMWARE/services/calib.c | Review Date | Reviewer |
| Function or data | | DoHighLow | 15-05-13 | AK |
|  | | | | |
| TFS wit |  | NO FINDINGS | | |
| Impact | |  | | |
| Resolution | |  | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Containing file | | FIRMWARE/interface/ui/glue/uicommon.inc | Review Date | Reviewer |
| Function or data | | ui\_GetRawPosVal (wiring to UI graph) | 15-05-13 | AK |
|  | | | | |
| TFS wit |  | NO FINDINGS | | |
| Impact | |  | | |
| Resolution | |  | | |

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| --- | --- | --- | --- | --- |
| Containing file | | FIRMWARE/interface/ui/uinodedef.inc | Review Date | Reviewer |
| Function or data | | ui\_GetRawPosVal (wiring to UI graph) | 15-05-13 | AK |
|  | | | | |
| TFS wit |  | #MP condex(View\_RawPosVal)  #MP Endif ;FEATURE\_CPU\_...  Inclusion of this view is a general improvement and should not be conditional on CPU type/positioner project | | |
| Impact | | Portability | | |
| Resolution | |  | | |
|  | | | | |
| TFS wit |  | References to node val\_RawPos  Are unconditional but the availability of the node is conditional. Recommendation: make use of macro View\_RawPosVal unconditional at least for positioners. | | |
| Impact | | Reuse: the graph is too easy to break | | |
| Resolution | |  | | |

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| Containing file | | FIRMWARE/FFAPmncb\_FaultMatrix.xls | Review Date | Reviewer |
| Function or data | | UI labels for raw position | 15-05-13 | AK |
|  | | | | |
| TFS wit |  | Missing non-English labels  Are labels approved? | | |
| Impact | | User manual | | |
| Resolution | |  | | |

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

Project changeset version: 37493

Starting point: FFP variables availability status

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Containing file | | FIRMWARE/includes/ff\_devicevars.h  FIRMWARE/includes/ipcedefs.h FIRMWARE/interface/FF/devicevars.c | Review Date | Reviewer |
| Function or data | | IPC\_FFDeviceParams | 15-05-13 | AK |
|  | | | | |
| TFS wit |  | Object is checksum-protected but never tested. See also finding for ipc\_TimeStamp below | | |
| Impact | | User manual | | |
| Resolution | |  | | |
|  | | | | |
| TFS wit |  | GetDeviceVar is a non-compliant name for a public function | | |
| Impact | | Coding standard | | |
| Resolution | |  | | |
|  | | | | |
| TFS wit |  | Definitions of type and values are scattered between headers; should be kept together | | |
| Impact | | Code quality | | |
| Resolution | |  | | |

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| --- | --- | --- | --- | --- |
| Containing file | | FIRMWARE/interface/hart/hart\_ipc.c | Review Date | Reviewer |
| Function or data | | ipc\_TimeStamp | 15-05-13 | AK |
|  | | | | |
| TFS wit |  | static inline should not be used outside MN\_INLINE | | |
| Impact | | Coding standard | | |
| Resolution | |  | | |
|  | | | | |
| TFS wit |  | In IPC\_CheckTimeStamp (now IPC\_IpcMonitor), time difference should be computed by timer\_GetTicksSince | | |
| Impact | | Code duplication | | |
| Resolution | |  | | |
|  | | | | |
| TFS wit |  | In IPC\_CheckTimeStamp (now IPC\_IpcMonitor), storeMemberU8 shall not be used without a critical section, unless single-thread usage is guaranteed. | | |
| Impact | | Thread safety | | |
| Resolution | |  | | |

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| Containing file | | FIRMWARE/interface/ui/glue/ui\_ffinfo.c | Review Date | Reviewer |
| Function or data | | ui\_GetIpcTimeStampStatus | 15-05-13 | AK |
|  | | | | |
| TFS wit |  | IPC\_CheckTimeStamp is in a wrong place | | |
| Impact | | Potenially missing monitoring | | |
| Resolution | | Already corrected in a later version | | |
| Containing file | | FIRMWARE/interface/ui/glue/ui\_ffcustomvar.inc  FIRMWARE/interface/ui/glue/ui\_ffinfo.inc  FIRMWARE/interface/ui/uitable.u | Review Date | Reviewer |
| Function or data | | ui\_GetIpcTimeStampStatus wiring to UI graph | 15-05-13 | AK |
|  | | | | |
| TFS wit |  | NO FINDINGS | | |
| Impact | |  | | |
| Resolution | |  | | |

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

Project changeset version: 47229

Starting point: Local UI display texts

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| --- | --- | --- | --- | --- |
| Containing file | | FIRMWARE/FFAPmncb\_FaultMatrix.xls | Review Date | Reviewer |
| Function or data | | UI texts | 15-05-13 | AK |
|  | | | | |
| TFS wit |  | NO FINDINGS | | |
| Impact | |  | | |
| Resolution | |  | | |