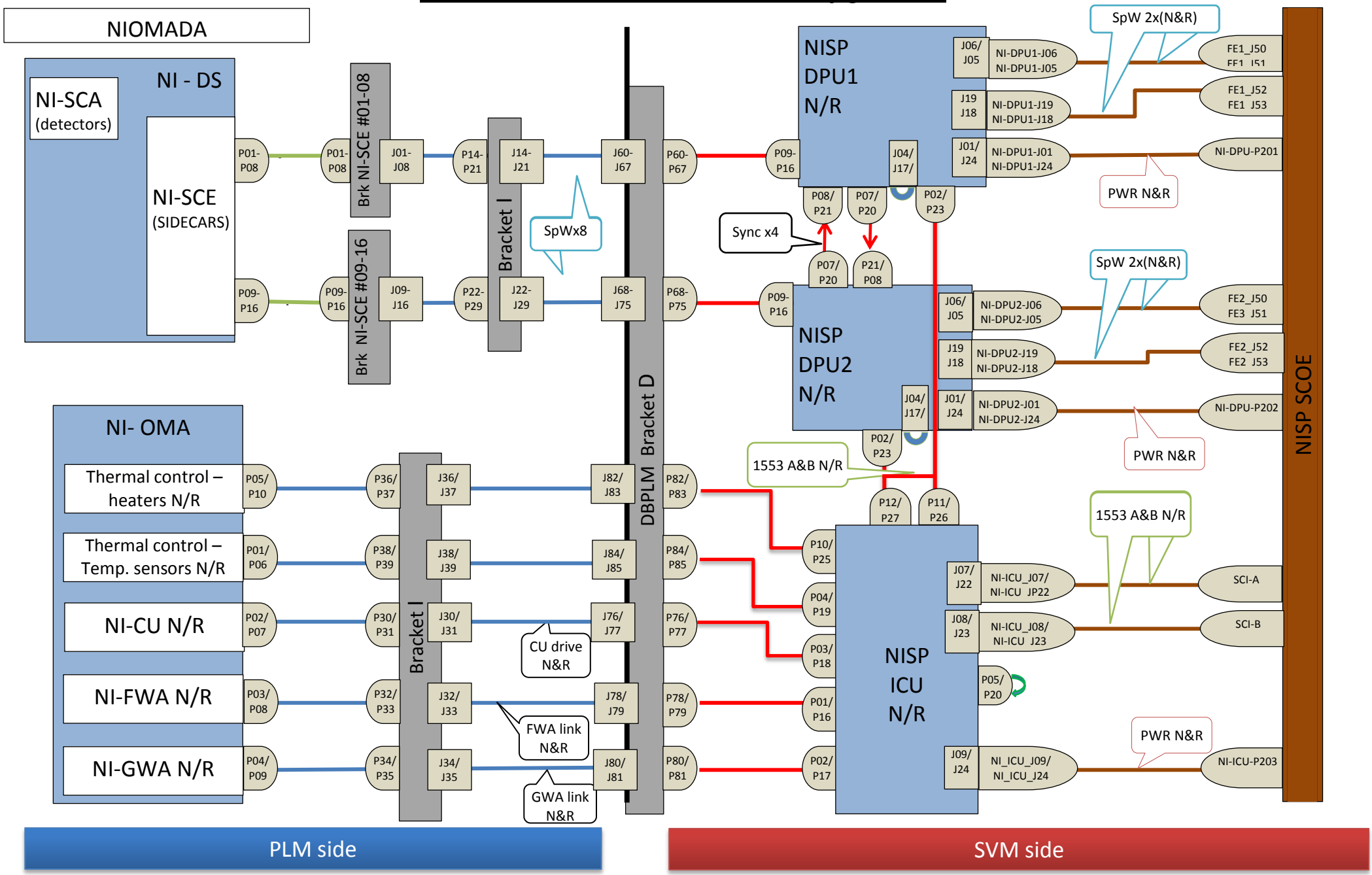
NISP E/FM SerVice Module (SVM) harness

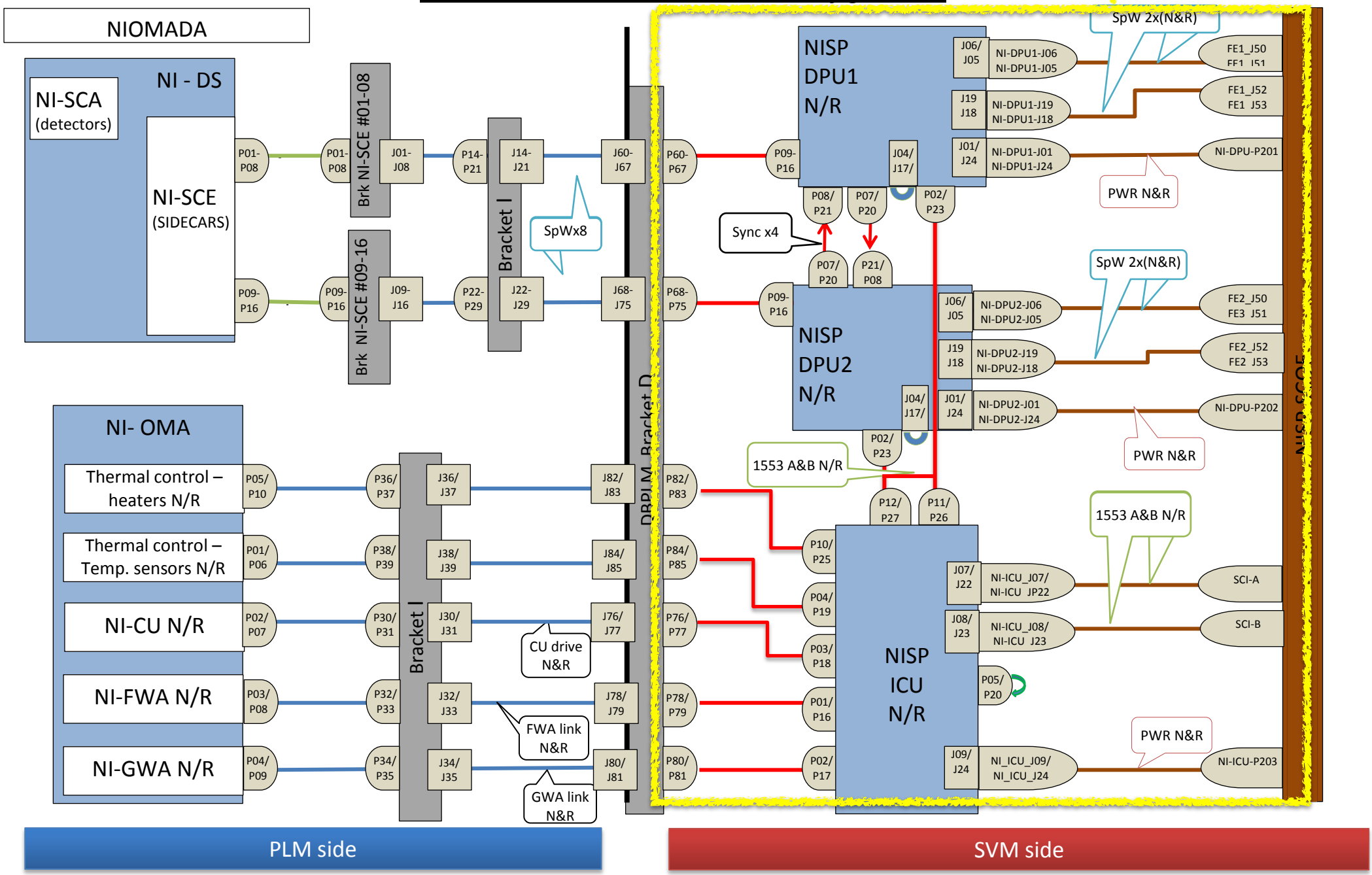
S.Dusini

NISP Harness connection -- EFM configuration



SVM Harness

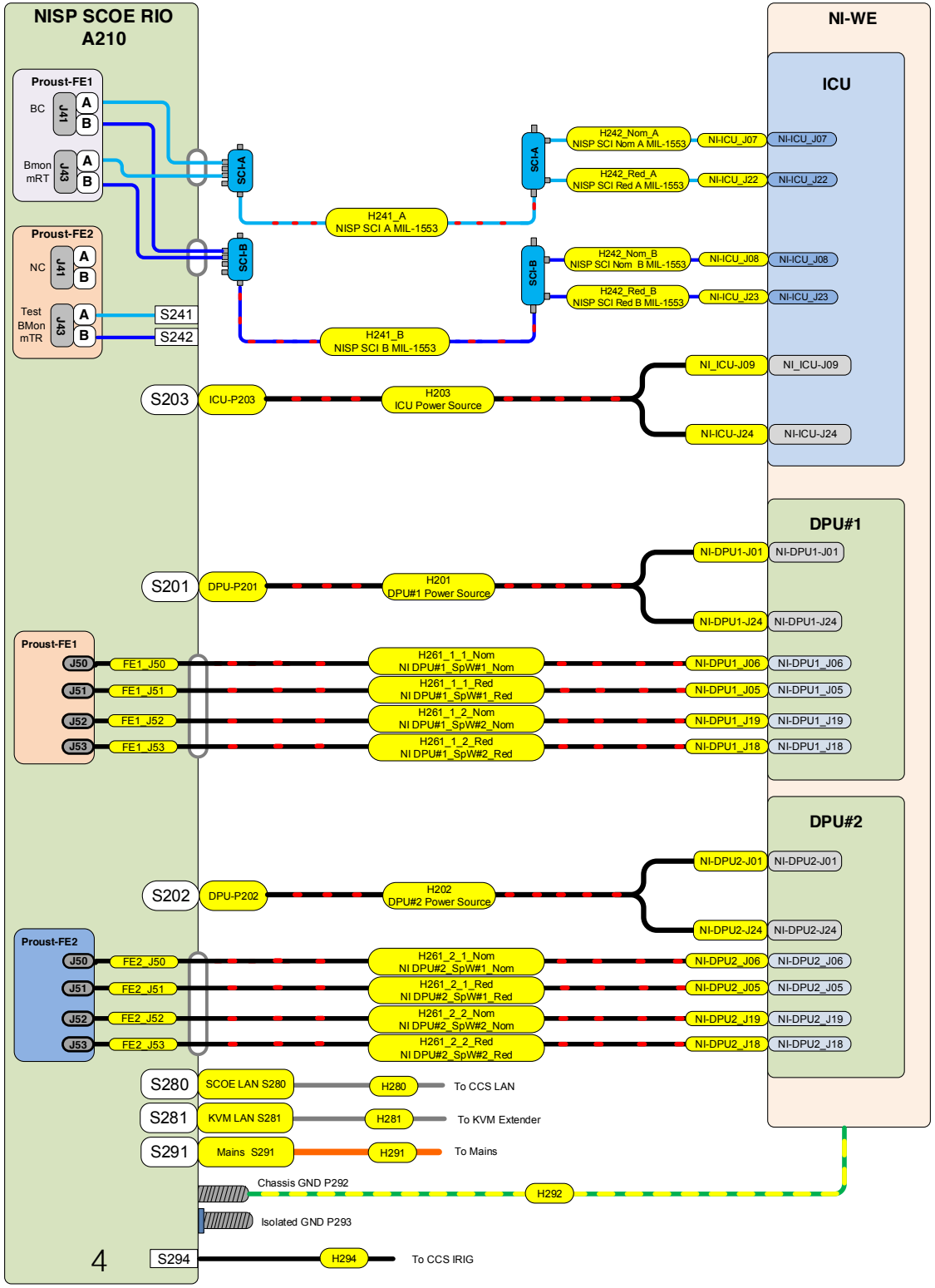
NISP Harness connection -- EFM configuration

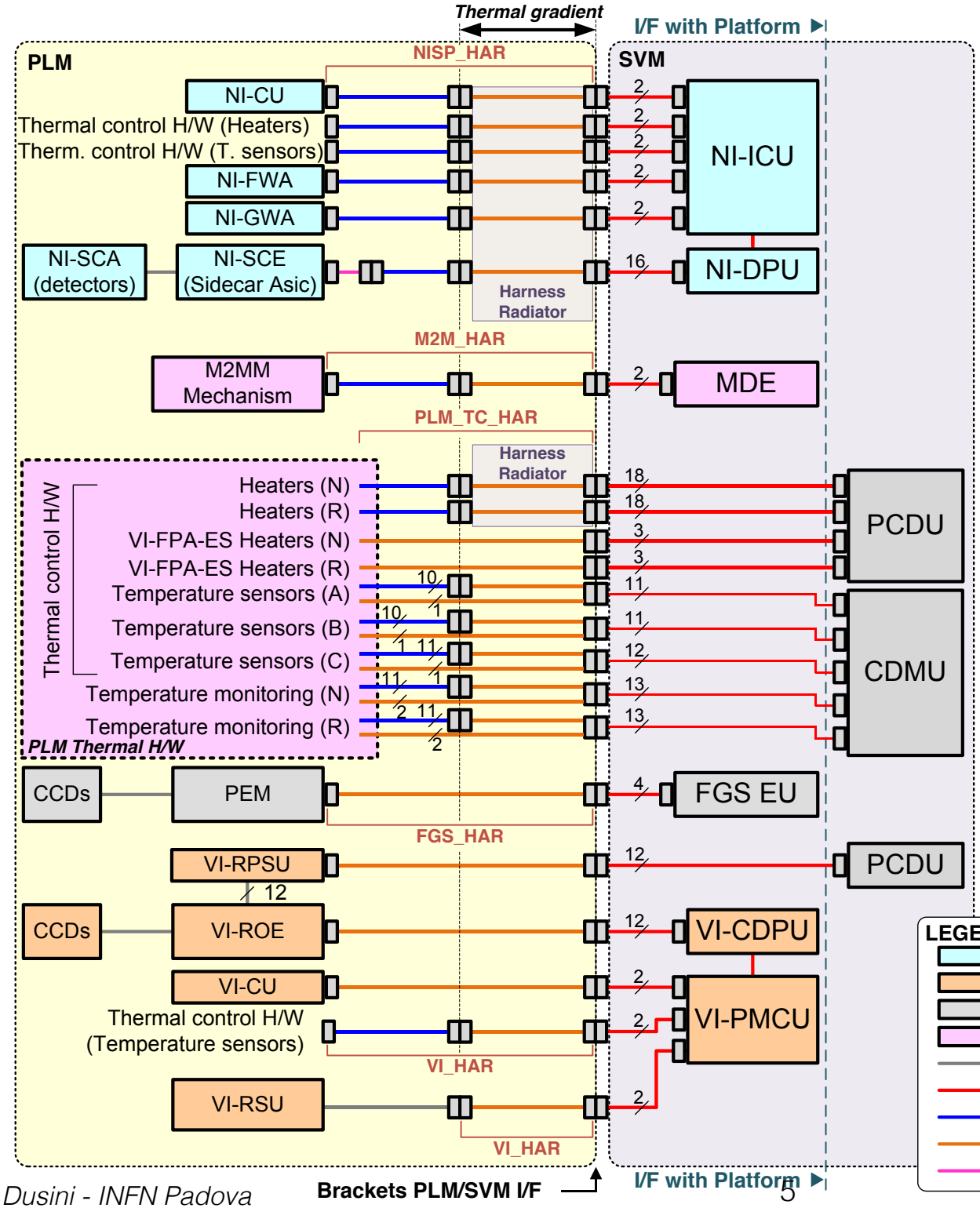


Details of the SCOE to WE harness

ICU:
- 2 Power Line
- 2 1553 bus

DPU:
- 4 SpaceWire per DPU
- 2 Power Line per DPU





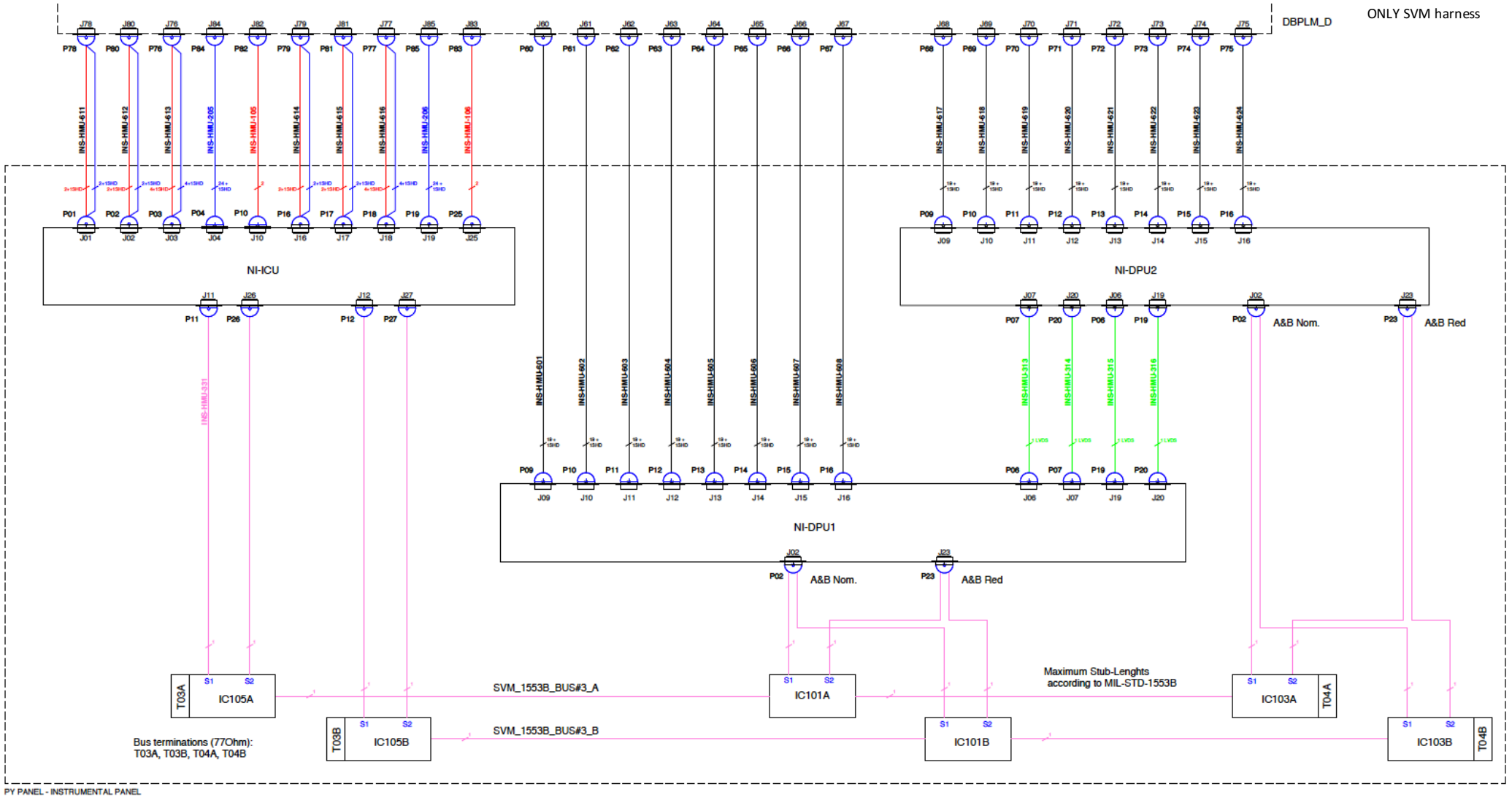
The SVM harness include also the connections

- from the WE to the PLM/SVM Brackets D
- from the ICU to DPU (1553)
- Sync cable between the two DPUs

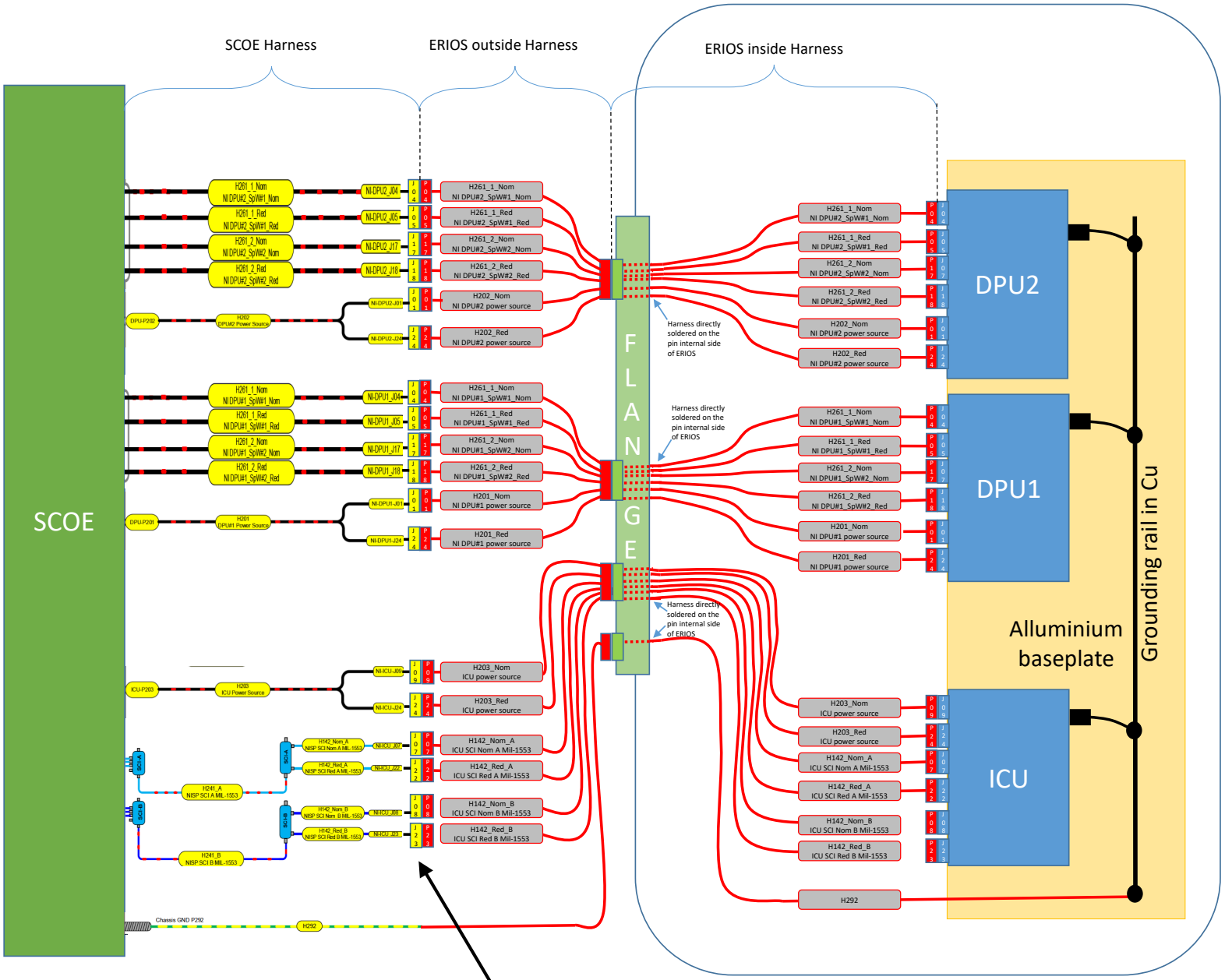
LEGEND

- Customer furnished instrument NISP (from Agency)
- Customer furnished instrument VIS (from Agency)
- Customer furnished items (from Spacecraft Prime contractor)
- PLM instrument development and procurement
- Harness delivered with CFI instruments and FGS
- Harness: warm isothermal section
- Harness: cold isothermal section (**section 1**)
- Harness: thermal gradient section (**section 2**)
- Nano-D to Sub-D HD Adaptor

ICU to DPU 1553 bus + DPU sync. cable

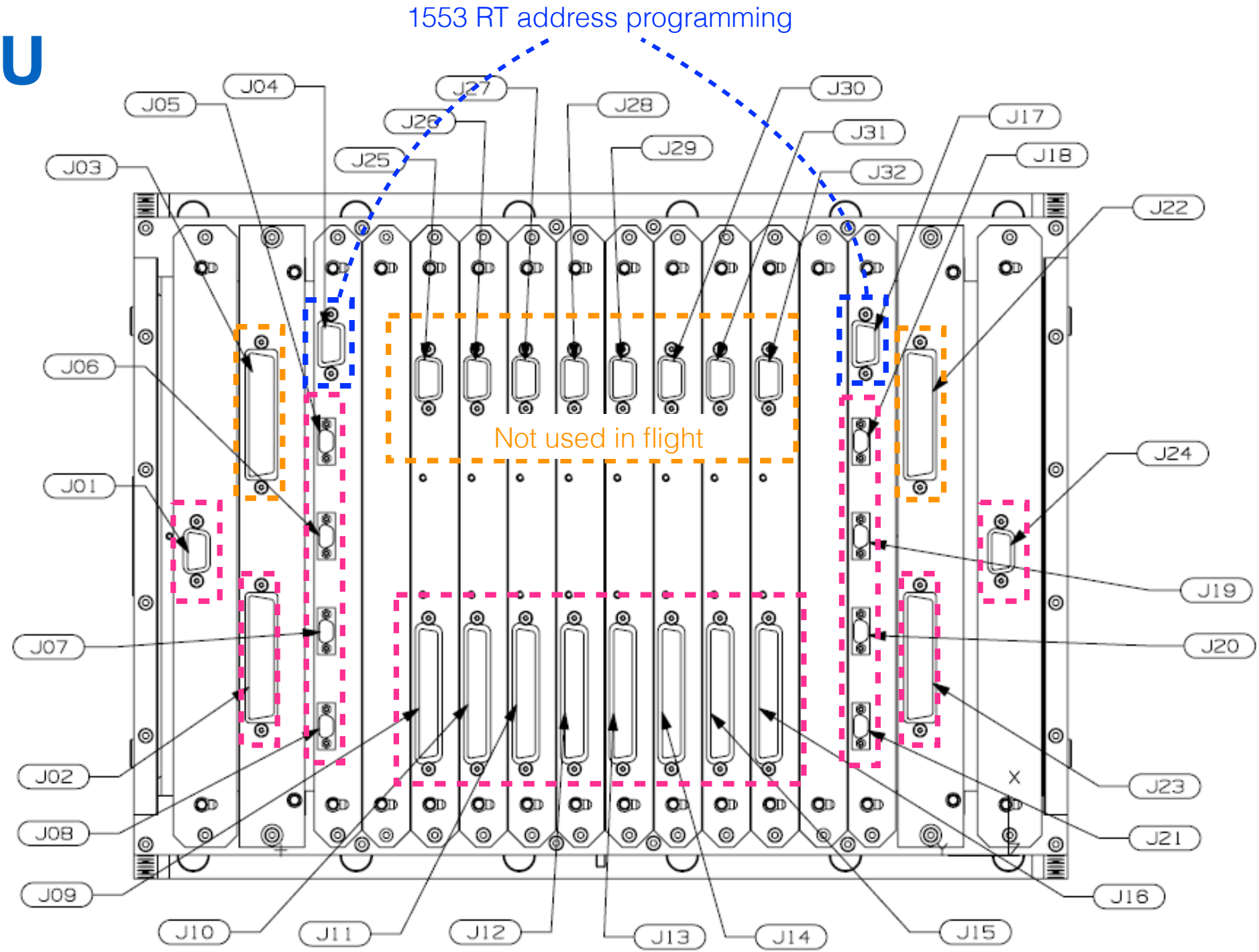


The EFM SVM harness will be reused for the test @ LAM to connect SCOE to the brackets outside ERIOS



Wrong labels !!!

DPU



Connected to SVM harness

ICU

1553 RT address programming ?

Connected to SVM harness

	CONNECTOR ID	FUNCTION	TYPE	SECTION	MODULE	EMC Class (**)
ICU-to-S/C I / F	J09	N_PWR_SUP	DEM15-P	N	LVPS	3
	J07	N_SC_1553_A	DEM9-S		CDPU	3
	J08	N_SC_1553_B	DEM9-S		CDPU	3
	J05	N_SC_1553_RT	DEM9-P		CDPU	3
	J24	R_PWR_SUP	DEM15-P	R	LVPS	3
	J22	R_SC_1553_A	DEM9-S		CDPU	3
	J23	R_SC_1553_B	DEM9-S		CDPU	3
	J20	R_SC_1553_RT	DEM9-P		CDPU	3
Intra-instrument I / F	J11	N_DPU_A_1553	DEM9-S	N	LVPS	3
	J12	N_DPU_B_1553	DEM9-S		LVPS	3
	J03	N_CU	MDM25-P		DAS	3
	J01	N_FWA	MDM21-P		DAS	3
	J02	N_GWA	MDM21-P		DAS	3
	J10	N_NIOMA_HEAT	DAM-15S		DAS	3
	J04	N_NIOMA_SENS	DCM-62S		DAS	3
	J26	R_DPU_A_1553	DEM9-S	R	LVPS	3
	J27	R_DPU_B_1553	DEM9-S		LVPS	3
	J18	R_CU	MDM25-P		DAS	3
	J16	R_FWA	MDM21-P		DAS	3
	J17	R_GWA	MDM21-P		DAS	3
	J25	R_NIOMA_HEAT	DAM-15S		DAS	3
	J19	R_NIOMA_SENS	DCM-62S		DAS	3
	J06	N TEST PORT (*)	DAM26-S	N	CDPU	3
	J21	R TEST PORT (*)	DAM26-S	R	CDPU	3

Table 13. ICU Electrical Interface connectors.

- EFM SVM harness va gestito in camera pulita anche se al LAM e' previsto che lo SCOE stia nel seminterrato (TBV).
- Harness e' ancora nel imballaggio e nei prossimi verra portato in camera pulita e faremo incoming inspection. (
  - Ho richiesto dettagli sulla procedura ad ESA, ancora nessuna risposta.
  - Guizzo consiglia di testare i cavi —> breakout box ?
- TASI vorrebbe indietro la cassa con e' stata fatta la spedizione. Temo che i costi di spedizione siano a nostro carico (spedizione non assicurata —> quindi spero nessun problema amministrativo)
- Per le future spedizioni (DPU a CGS, Harness al LAM, CCS ecc…) dobbiamo organizzarci amministrativamente.