Coordinating maintenance tasks in a scientific facility as a synchrotron light generator is a basic task to optimize the resources available and meet planning

Computing Division

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Antoni Camps – CELLS ALBA - AMMW 2015 – 12/14 October 2015 DESY, Hamburg

INTERNAL ORGANIZATION (Coordination _ Introduction)

The challenge is the Coordination and Organization of the Maintenance tasks at the Alba Synchrotron

LBA





INTERNAL ORGANIZATION (Coordination _ Introduction)

All the institutions desire to be as much efficient as possible, optimizing the available resources

One of the activities that improves the efficiency, among others, is the Coordination that it should be imprescindible in the organization of any company

Before carry out any activity and in concrete the Coordination, we should answer some basic questions

Why?

Improve efficiency (at least avoid the chaos)

What?

Tasks

What for?

In order to avoid conflicts between tasks and within a task that it probably would reduce the efficiency

How?

Appoint responsibles and roles and define a procedure to follow

Where?

In all the sections of the company

When?

Always, because any activity well organized works better but mainly in shutdown periods

Who?

The Coordinators generate it and the rest applies it



INTERNAL ORGANIZATION (Coordination Procedure – Responsibles & Roles

HOW & WHO?

The Responsible of the Operation Meeting starts the mandate to elaborate the Coordination Plan of the Maintenance & Installation tasks of the year

Every **Section Coordinator** begins to **collect** the list of all the **tasks** to be done during the shut down periods of the Section

Every **Section Coordinator assigns** a **priority** for each task of the Section (Linac, Tunnel), (SA), (EA), (Building & Offices)

Every **Engineer Responsible** of each task has to prepare all the necessary **technical** and **operative documentation** to carry out the task of the Section

Every Section Coordinator with the Responsible Engineer for each task has to analyze the Safety issues and coordinates with the Safety section

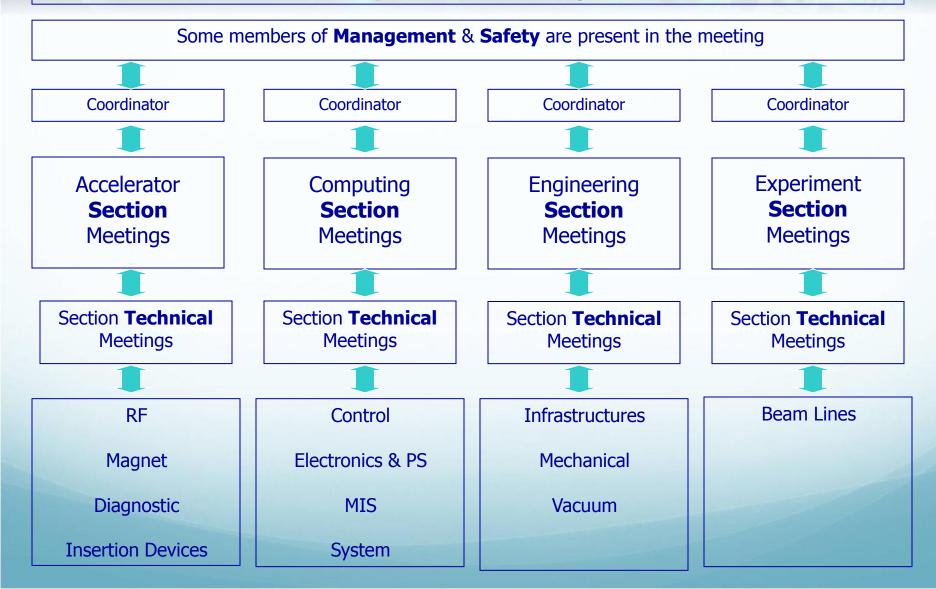
Every **Section Coordinator** prepares the **planning** of all the **tasks** of the Section

The Responsible of the Operation Meeting prepares the planning of all the tasks for all the Sections

INTERNAL ORGANIZATION (Coordination Meetings _ Planning phase)

Operation Meeting

LBA





INTERNAL ORGANIZATION (Coordination Meetings _ Planning phase)

(Operation Meeting)

At least participate a coordinator of each Division, Safety, Management and the Responsible of the Operation Meeting During Operation time the **planning** of **all** the **sections** are collected and during shutdown period the **tracking** data are collected **The goal** is to avoid any blocking between tasks from different Sections (same resource, space-time, task concatenation,...) and establishing of priorities The **output** is a Planning with all the tasks to be performed from all the Sections

(Section Meeting)

Engineers and technicians involved All the details of each task of the Section are collected The **goal** is to decide the tasks to be done and the priorities The **output** is a planning with all the tasks and technicians of the Section to be done during the shut down period

(Technical Meetings)

Usually, several of them are held with different attendants (Engineers and Technicians involved) It is a detailed level Meeting. The **goal** is to describe all the aspects of each task in detail (safety, resources, documents, tools, timing,...) The **output** is a document with the detailed plan for each task

INTERNAL ORGANIZATION (Coordination Meetings _ Planning phase outputs)

(Operation Meeting) the **output** is a Planning with all the tasks to be performed from all the Sections

LBA

	Section 1	Section 2	Section 3	 Section N
Day 1	RT 1			
Day 2	RT 1	RT 2		 RT4
Day 3		RT 2		
Day N			RT3	

INTERNAL ORGANIZATION Coordination Meetings Planning & Shutdown phase outputs

(Section Meeting) The **output** is a planning with all the tasks and technicians of the Section to be done during the shut down period (and beam line period)

		Day 1			Day n	
	RT	Brief task description	Responsible	 RT	Brief task description	Responsible
Technician #1 / External Company 1						
Technician #N / External Company N						

INTERNAL ORGANIZATION

_(Coordination Meetings _ Planning & Shutdown phase outputs)

A key point during the execution of any Coordination Plan is to adjust the plan to the real execution of the tasks

We may combine the concepts of the overestimation (x%) and contingent bag of tasks during the performance of the planning

The idea is compensate the loose of efficiency due to apply the concept of overestimation with the contingent bag of tasks. It means that if the main planned task is finished and we can not start the next we can decide to resolve some tasks of the bag.

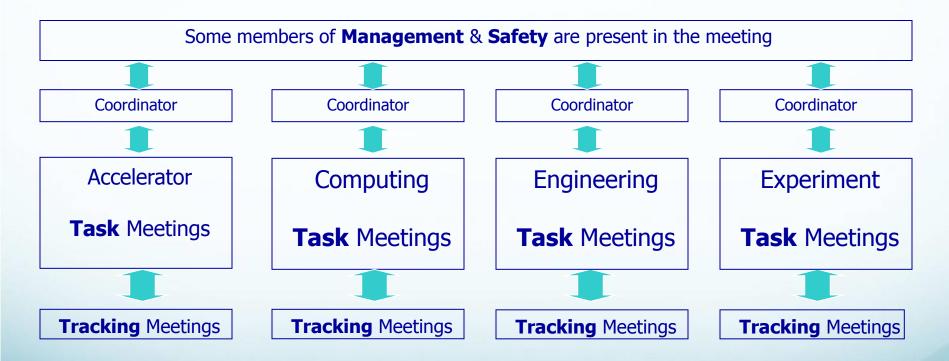
Usually these tasks should be resolved in a short period of time. This permit to comply the Planning and the efficiency is not reduced.

The result is that the Coordination Plan has not been broken

These concepts are usually applied only in the cases of Corrective Maintenance using Internal Staff.



Shutdown / Tracking Meeting





INTERNAL ORGANIZATION (Coordination Meetings _ Shutdown phase)

(Task Meetings)

Engineer Responsible and **Technicians** assigned for the task It is held just before the task is **started**. The **Goal** is that the Engineer explains and clarifies the doubts of the task to the Technicians The **Output** is the acknowledgement of the Technicians

(Tracking Meetings)

The **Leader** and the **Engineer** are in charge of the tracking of the tasks In this Meeting all the **tracking** data are collected.

The goal is to keep track of tasks, detect any possible problem of coordination and planning them again if necessary.

The **Output** is the planning updated (% of task done and pending) and a new version of the Planning if it is necessary

INTERNAL ORGANIZATION (Coordination Meetings _ Shutdown phase outputs)

(Section Meeting) The **output** is a planning with all the tasks and technicians of the Section to be done during the shut down period (and beam line period)

B

	TASK TECHNIC	IAN'S	DISTRIBUTION FROM 05	OCT1	5 / 13OCT15							
05May / 13oCT	Monday / 5 Oct	R	Tuesday / 6 Oct	R	Wednesday / 7 Oct	R	Thursday / 8 Oct	R	Friday / 9 Oct	R	Tuesday / 13 Oct	R
JOAN P.	RT54735 PSS corrective actions	٧L	RT54707, 54741, RT54895, RT54896 Optical chopper BL24	ARG	RT54707, 54741, RT54895, RT54896 Optical chopper BL24	ARG	RT 54806 BL24 UHV Chopper cabling installation	AF/AC	RT 48144 BL11 internal Network-1 cabling re-routing	AR	RT 48144 BL11 internal Network-1 cabling re-routing	AR
SERGI A.	Elec-Lab & SA RT 54798 FIU boards installation at SA	AS/OM	Elec-Lab & SA RT 54798 FIU boards installation at SA	AS/OM	RT 48132 EPS cabling and earthing cabling	AR	MIRAS trays	AR	MIRAS trays	AR	MIRAS trays	AR
XAVI F.	RT 53791 - eps SR02 MIRAS	ARG	RT 53791 - eps SR02 MIRAS	ARG	RT 53791 - eps SR02 MIRAS / Tunnel RT M1 thermocouplecabling assembly and installation	DA	RT 54806 BL24 UHV Chopper cabling installation / RT 53791 - eps SR02 MIRAS	AF/AC	BL29 Mares Motion-1 cabling Installation	XS/AC	BL29 Mares Motion-1 cabling Installation	XS/AC
BERN S.	RT 48833 BL24 Microliquids FAT / ADSC detector	AF/AC	RT 48833 BL24 Microliquids FAT / ADSC detector	AF/AC	ADSC detector	AF/AC	RT 54806 BL24 UHV Chopper cabling installation	AF/AC	ADSC detector / Change cPCI power supply in Racksof SA	AF/AC	Holidays	
ARUZ	BL01 Miras Cable Trays Installation		BL01 Miras Cable Trays Installation		BL01 Miras Cable Trays Installation		BL01 Miras Cable Trays Installation / SA RT 54468 Linac Rack03 re-cabling installation		BL01 Miras Cable Trays Installation / SA RT 54468 Linac Rack03 re-cabling installation		BL01 Miras Cable Trays Installation	
DSC	BL01 Miras Cable Trays Installation	AR	BL01 Miras Cable Trays Installation	AR	BL01 Miras Cable Trays Installation	AR	BL01 Miras Cable Trays Installation	AR	BL01 Miras Cable Trays Installation	AR	BL01 Miras Cable Trays Installation	AR

INTERNAL ORGANIZATION (Coordination Meetings _ Shutdown phase outputs)

(**Tracking Meetings**) The **Output** is the planning updated (% of task done and pending) and a new version of the Planning if it is necessary

_B/

	Day 1	Day 2	Day3	 Day n
RT Ticket #1				
RT Ticket #N				

INTERNAL ORGANIZATION (Alba's Calendar 2015)

WHEN?

Along the year specially during shut down periods

ALBA Operations Calendar, January 2015-December 2015

BL operation	BL	BL users and commissioning
Start-up	М	Start up of accelerators with beam
Warm-up	W	warm-up time Linac & RF & magnets & sub-systems optimisation
Shutdown	Off	Civil Engineering, Accelerators and BL maintenance with no beam, installations and upgrades
Public & CELLS holiday		

в

	January		February		March		April		May		June		July		August		September		October		November		December	
		Shift	<u> </u>	Shift		Shift	<u> </u>	Shift		Shift		Shift		Shift	-	Shift		Shift		Shift		Shift		Shift
Weekday	Day Week	MAN	Day Week	MAN	Day Week	MAN	Day Week	MAN	Day Week	MAN	Day Week	MAN												
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We							1	w w w			3	BL BL BL	1	BL BL BL			2	M M W					2	BL BL BL
Th	1	w w w					2	www			4	BL BL BL	2	BL BL BL			3	M M M	1	BL BL BL			3	BL BL BL
Fr	2	www					3	www	1	BL BL BL	5	BL BL BL	3	BL BL BL			4	M M M	2	BL BL BL			4	BL BL BL
Sa	3	www					4	www	2	BL BL BL	6	BL BL BL	4	BL BL BL	1	Off Off Off	5	ммм	3	w w w			5	BL BL BL
Su	4	w w w	1	BL BL BL	1	w w w	5	www	3	w w w	7	BL BL BL	5	BL BL BL	2	Off Off Off	6	м м м	4	w w w	1	M M M	6	BL BL BL
Mo	5 2	w w w	2 6	M M M	2 10	м м м	6 15	w w w	4 19	w w w	8 24	МММ	6 28	м м м	3 32	Off Off Off	7 37	МММ	5 41	w w w	2 45	mmm	7 50	M M M
Ти	6	www	3	BL BL BL	3	M M M	7	www	5	w w w	9	BL BL BL	7	BL BL BL	4	Off Off Off	8	M M M	6	www	3	m m m	8	BL BL BL
We	7	w w w	4	BL BL BL	4	BL BL BL	8	M M M	8	w w w	10	BL BL BL	8	BL BL BL	5	Off Off Off	9	BL BL BL	7	w w w	4	BL BL BL	9	BL BL BL
Th	8	w w w	5	BL BL BL	5	BL BL BL	9	м м м	7	w w w	11	BL BL BL	9	BL BL BL	8	Off Off Off	10	BL BL BL	8	w w w	5	BL BL BL	10	BL BL BL
Fr	9	w w w	8	BL BL BL	6	BL BL BL	10	BL BL BL	8	w w w	12	BL BL BL		BL BL BL	7	Off Off Off		BL BL BL		w w w	6	BL BL BL	11	BL BL BL
Sa	10	w w w	7	BL BL BL	7	BL BL BL	11	BL BL BL	9	w w w	13	w w w	11	BL BL BL	8	Off Off Off	12	BL BL BL	10	w w w	7	BL BL BL	12	BL BL BL
Su	11	www	8	BL BL BL	8	BL BL BL	12	BL BL BL	10	w w w	14	w w w	12	BL BL BL	9	Off Off Off	13	BL BL BL	11	w w w	8	BL BL BL	13	MMM
Mo	12 3	www	9 7	MMM	9 11	м м м	13 16	ммм	11 20	MMM	15 25	w w w	13 29	ммм	10 33	Off Off Off	14 38	ммм	12 42	M M M	9 46	M M M	14 51	BL BL BL
Ти	13	www	10	BL BL BL	10	BL BL BL	14	BL BL BL	12	ммм	16	www	14	BL BL BL	11	Off Off Off	15	BL BL BL	13	M M M	10	BL BL BL	15	BL BL BL
We	14	www	11	BL BL BL	11	BL BL BL	15	BL BL BL	13	BL BL BL	17	w w w	15	BL BL BL	12	Off Off Off	16	BL BL BL	14	BL BL BL	11	BL BL BL	16	BL BL BL
Th	15	www	12	BL BL BL	12	BL BL BL	16	BL BL BL	14	BL BL BL	18	w w w	16	BL BL BL	13	Off Off Off	17	BL BL BL	15	BL BL BL	12	BL BL BL	17	BL BL BL
Fr	18	www	13	BL BL BL	13	BL BL BL	17	BL BL BL	15	BL BL BL	19	www	17	BL BL BL	14	Off Off Off	18	BL BL BL	18	BL BL BL	13	BL BL BL	18	BL BL BL
Sa	17	www	14	BL BL BL	14	BL BL BL		BL BL BL	18	BL BL BL	20	w w w	18	BL BL BL	15	Off Off Off	19	BL BL BL	17	BL BL BL	14	w w w	19	w w w
Su	18	w w w	15	ммм	15	BL BL BL	19	BL BL BL	17	BL BL BL	21	www	10	ммм	16	Off Off Off	20	BL BL BL	18	BL BL BL	15	w w w	20	w w w
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Su	25	MMM		w w w		ммм		MMM		BL BL BL	28	BL BL BL		Off Off Off		w w w		ммм		BL BL BL		w w w	27	w w w
Mo	26 5	MMM		SPR W W		BL BL BL		BL BL BL		M M M	29 27	M M M		Off Off Off		w w w		BL BL BL		MMM		ммм	28 53	w w w
Ти	27	BL BL BL		SPR W W		BL BL BL		Off Off Off		w w w		BL BL BL		BL BL BL		MMM	29	w w w						
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Th	29	BL BL BL		w w w		BL BL BL		BL BL BL		BL BL BL				Off Off Off		w w w			29	BL BL BL		BL BL BL	31	w w w
Fr	30	BL BL BL		w w w		BL BL BL			29	BL BL BL				Off Off Off		PSS W W			30	BL BL BL		BL BL BL		
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SOFTWARE TOOLS

(Management, Coordination, Organization & Control)

Other MIS App

ineering Internal Order Workflow

Applicant Camps Giménez, Antor

Order Date 23/09/2013

Urgency LOW 💌

☐ Applicant

E Workshop

Safety Tickets

Internal Order

Supervisor Matilla Barceló, Oscar Luis

T 🗙

Requested deadline

Type

Delivery Date

Attached Docs

from: 8:00 V

15/10/2013

no ~ to: 8:30 🗸

Maintenance

Over Time & Absences

acamps, you have 6.0 normal holidays available. You can take these holidays until the 15th of January 2014

All day All day

We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu

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oose the type and the day of your absence (or the first day and the last day if several days)

If you want to **delete** some of your absences or **view** all your past absences, click here CHECK YOUR ABSENCES

Holidays or special absences 📕 Work absences 📕 Common holidays 📲 Company days

Take absences

u can have a look on the different absences types

457

23 24 25 26 27 28 29 28 29 30 31

Browse...

View absences of someone: Choose a name: Camps Giménez Antonio

Ticket's type		×		you are here: home →	intranet → mi
Date when issue was detected					
Date when issue is closed or expected of	dowd			Engineering	Interna
Requested by		Camps Giménez, Antonio acamps@cells.es			
Responsible					
Location of risk		×			
Element		×		Create a new	Order
Description of risk			×		Applicant Order Date 2
Justify the modification					Urgency L
Inventory number		NAV		Add Item	
People to inform		CSS Delegates		N° Description	
		Álvarez Arias, Marc			
Inform CSS Delegates		Bahi (Yawaka, Ban Benadest, Gabriele Rus Bedma, Alberto Márnaj Morano, Carme Pontajella Cilleo, Jos Manuel		Extra info	
		Nicolás Román, Josep		Material	E Ap
	Add uzer			supplied by	ΕW
		User	Actions		
Attached documents				Back	Save as Draft

LBA

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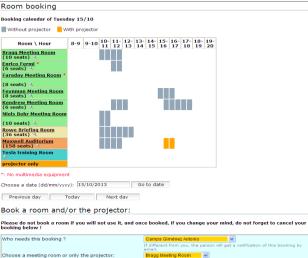
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	· •	Without projector 🗧 With projector
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-		Bragg Meeting Room (10 seats)
September 2013 October 2013	November 2013 December 2013 O Legend	Enrico Fermi * (6 seats)
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	1 2 3	(8 seats) 🦄
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16 17 18 19 20 21 22 2 1 22 23 24 25 26 27	18 19 20 21 22 23 24 16 17 18 19 20 21 22 Afternoon: 15h00 a 23h00	Kendrew Meeting Room (6 seats)
23 24 23 26 27 28 29 28 29 28 30 31 30	23 26 27 28 29 50 22 24 23 26 27 28 29 Hight: 23h00 a 07h00	Niels Bohr Meeting Room
-		(10 seats) 🔧
today		Rowe Briefing Room (36 seats)
	•	Maxwell Auditorium (158 seats)
1y Requests		Tesla training Room
# Access Date Access Time Time Needed	Applicant Supervisor Division # People Approved Done	projector only
licant	Camps Giménez, Antonio 💌	": No multimedia equipment
uest Date	23/09/2013	Choose a date (dd/mm/yyyy): 15/10/2013 Go to date
ess Date		Previous day Today Next day
rmany people will be in the tunnel (applicant ided)	On restricted dates the maximum number allowed to 12	Book a room and/or the projector:
o Noodod		Please do not book a room if you will not use it, and once booked booking below !
ess Time	v v	Who needs this booking ? Camps G
cription / Reason	10 20	If different email.
nel Status needed		Choose a meeting room or only the projector: Bragg Me
d a copy to		Day: If you book a room, do you need the projector for the meeting ?
s your request need a safety ticket?	No 💌	Recurrent booking ? no

Applie Reque Acces How r Includ Time I Acces

Tunn

Meeting Room Booking

Send to Supervisor



E-purchasing

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23 24 25 26 27 28 2 30 31

Home	New	Requisition	Orders	Reports	Deliveries	Help	н. — — — — — — — — — — — — — — — — — — —		
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SOFTWARE TOOLS (RT System _ task organization)

				Logged in a	is acamps Preferences Logo
Home	ALBA	#54960: Installation of cPCI + ADC in AMA		New ticket in Beamlines-tech -	Search
	Display · History · Basi	s · Dates · People · Links · Reminders · Jumbo			
Simple Search Tickets New Search Edit Search Advanced #54960 Tools Preferences Approval	Ticket meta Ticket meta The Basi Id: 5496 Status: new Priority: 40/f Queue: Elect	data cs 0 0 onics	Reminders New reminder: Subject: Owner: Antonio Camps Giménez Due: Calendar Save	Open Cr	omment · Reply · Resolve · ά
	Priviliged Serv	torNolfidations (<i>no value</i>) Tickettype: User request ser notfication: (<i>no value</i>) oe (Electorios): Unit: Accelerators Inica Tech Ticket: (<i>no value</i>) RCA: (<i>no value</i>)	Dates Created: Fri Oct 02 16:34:29 2015 Starts: Not set Started: Not set Last Contact: Not set Due: Fri Oct 16 16:34:29 2015 Closed: Not set Updsted: Wed Oct 07 11:48:05 2015 by acamps		
	Requestors: n Cc: A A A AdminCc: J AdminCc: J A C C AdminCc: S C C C C C C C C C C C C C C C C C C	ntonio Camps Giménez ayala@celis.es ntonio Camps Giménez bel Fontsere Recuenco berto Ruz Bedmar omingo Alioza Castilio se Avila Abelan se Avila Abelan sear Luis Matilia Barceló oberto Arturo Petrocelii avier Serra Galifía	Links Depends on: (Create) Depended on by: (Create) Parents: (Create) Children: (Create) Refers to: (Create) Referred to by: (Create)		
		gnatureSmall.jpg 02 16:34:29 2015 (8.24) by nayala			

(There is an internal evaluation for a possible migration to JIRA)

SOFTWARE TOOLS

Alba CCDB Mis App _ Equipment & cabling organization)

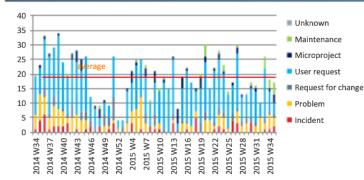
(Statistics)

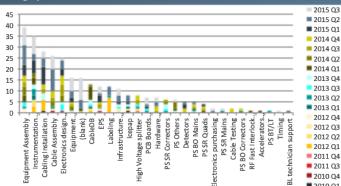
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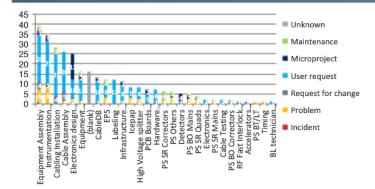
Electronics

Weekly New Requests

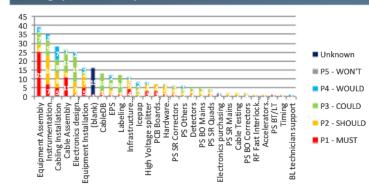




Backlog by Service and Type



Backlog by Service and Importance



Backlog by Service and Creation Date

Malysa Martin

Computing NOST Review

В

2010 Q1

August 31st, 2015

SOFTWARE TOOLS (Alba CCDB Mis App _ Equipment & cabling organization)

$\land LB \land$					10 States
Equipment ID .	Rack Code	Sort in Hutch	Serial Number	Description	Type
SR-RF-HVPS-RKA10A02-02	SR-RF-RKA10A02				THOMSON HVPS

LBA

	CableId 🔺	EquipmentA	ChannelA	TermA	Conf Code	EquipmentB	ChannelB	TermB	TermColor	TermType	RetColor	RetType
1	29986	SR-RF-HVPS-RKA10A02-02	WFM	A1	SMW2-11	SR-RF-PAPA-A10-15	WF_HV2	B1	None	None	None	
2	27087	SR-RF-HVPS-RKA10A02-02	wт	A	SMW4-6	SR-RF-PAPA-A10-15	WT_HV2	в	White	1 PT+	Brown - Green	3 PT-(a) - 4 PT-(b)
з	18616	SR-RF-HVPS-RKA10A02-02	HVENA	в	SMW2-18	SR-RF-PAPA-A10-15	ENA_HV2	A	White	DI (EN_HV)	Brown	+24V
4	47635	SR-RF-HVPS-RKA10A02-02	MAINS_IN1	в	SMW2-71	SR-RF-IOT-RKA10A04-02	MAINS_DT1	Α	None	None	None	None
5	47636	SR-RF-HVPS-RKA10A02-02	MAINS_IN2	в	SMW9-2	SR-RF-IOT-RKA10A04-02	PLC_CTRL1	Α	None	None	None	None
6	47637	SR-RF-HVPS-RKA10A02-02	MAINS_IN3	в	SMW9-3	SR-RF-IOT-RKA10A04-02	PLC_CTRL2	Α	None	None	None	None
7	47638	SR-RF-HVPS-RKA10A02-02	MAINS_IN4	в	SMW9-4	SR-RF-IOT-RKA10A04-02	PLC_CTRL3	A	None	None	None	None
8	47639	SR-RF-HVPS-RKA10A02-02	MAINS_IN5	в	SMW9-5	SR-RF-IOT-RKA10A04-02	PLC_CTRL4	Α	None	None	None	None
9	47640	SR-RF-HVPS-RKA10A02-02	MAINS_IN6	в	SMW9-6	SR-RF-IOT-RKA10A04-02	MAINS_DT2	Α	None	None	None	None
10	47717	SR-RF-HVPS-RKA10A02-02	PSM_CAB1	в	COAXHV-11	SR-RF-IOT-RKA10A04-02	HV_DECK1	Α	None	None	None	None
11	47718	SR-RF-HVPS-RKA10A02-02	PSM_CAB2	в	COAXHV-11	SR-RF-IOT-RKA10A04-02	HV_DECK2	Α	None	None	None	None

		SR-RF-HVPS-	RKA	10A02-02]	SR-RF-PAPA-A10-15 :: ALBA SRTX PAPA								
Channel Id	Connector Code			Config Id				Term. name	Equip. Code			Channel Id	Connector Code			
HVEna	BLDXMX		9	<u>SM</u> W2-18	в			→ A	SR-RF-PAPA-A10-15	٩	• 🗐	TXST1	BLDXMX			
νт	BLDXMX		•	SMW4-6	А						4	TXST2	BLDXMX			
VFM	CRC05F1		-	SMW2-11	A1	•				\	4	ENA_IOT1	BLDXMX			
MAINS_IN1	BLDXMX		9	<u>SMW2-71</u>	в	9					(• 🗐	ENA_IOT2	BLDXMX			
AINS_IN2	BLDXMX		•	SMW9-2	в	•					<u> </u>	ENA_HV1	BLDXMX			
AINS_IN3	BLDXMX		•	5MW9-3	в) 🛁	ENA_HV2	BLDXMX			
MAINS_IN4	BLDXMX		9	SMW9-4	в						4	ASWCACO	BLDXMX			
AINS_IN5	BLDXMX		•	SMW9-5	в							ST_CIRC	BLDXMX			
AINS_IN6	BLDXMX		•	3M W9-6	в	•					4	STCACO	BLDXMX			
AINS_IN7	BLDXMX		9	SMW5-2	в	9					. • 🐗	WT_HV1	BLDXMX			
AINS_IN8	BLDXMX		•	STP4-11	в	9					• 🗐	WT_HV2	BLDXMX			
SM_CAB1	RNGXM5		•	COAXHV-11	в						• 🗐	WT_IOT1	BLDXMX			
SM_CAB2	RNGXM5	- (he)	9	COAXHV-11	в	9					4	■ WT_IOT2	BLDXMX			
ARTH	UNKNOWN						-				4	WT_CIRC	BLDXMX			
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											• 📹	WF_HV1	BLDXMX			
											• 剩	WF_HV2	BLDXMX			
											• 📹	WF_IOT1	BLDXMX			

SOFTWARE TOOLS

CCDB for Cabling & Equipments: Equipment Template

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		EQ	JIPMENT C	HANNELS CONF	IGUR.	ATION					
	Chann el ID	Maong Co (Raw M		Mat. Connector (ALEA Code)	(ALBA Code) Side Chann & Description						
1	ETHA	RJ	15	RJASHD	E		nn.	Port Boa	rd A		
			~	112 40442		EmernetCo					
2	ETHS	RJ		RJ 45MD	F	EtternetCo			rd B		
	ETH8 ETHC		45				omm .	Port Boa			
2		RJ	15 15	RJ45MD	F	EtternetC	omm.	Port Boa Port Boa	rdC		
2	ETHC	RJ RJ	15 15 15	RJ45MD RJ45MD	F	EtternetC EtternetC	omm. omm.	Port Boa Port Boa Port Boa	rd C rd D		
2 3 4	ETHC ETHD ETHE ETHCM	RJ RJ RJ	15 15 15 15	RJ45MD RJ45MD RJ45MD	F	EtternetCo EtternetCo EtternetCo	omm . omm . omm . omm .	Port Boa Port Boa Port Boa Port Boa	rd C rd D rd E		
2 3 4 5 8 7	ETHC ETHD ETHE ETHCM RXUPA	RJ RJ RJ LC Optical P	45 45 45 45 45 45	RJ45M0 RJ45M0 RJ45M0 RJ45M0 RJ45M0 F01CD1M	F F F F F	EtternetCo EtternetCo EtternetCo EtternetC Etternet Fan OrtA I	omm . omm . omm . Crafte UUX (Port Boar Port Boar Port Boar Port Boar Non Horis Channel I	nd C nd D nd E Ng Ng Ng		
2 3 4 5 8	ETHC ETHD ETHE ETHCM	RJ RJ RJ RJ RJ	45 45 45 45 45 45	RJ45MD RJ45MD RJ45MD RJ45MD RJ45MD	F F F R	EtternetCo EtternetCo EtternetCo EtternetC Etternet	omm . omm . omm . Crafte UUX (Port Boar Port Boar Port Boar Port Boar Non Horis Channel I	nd C nd D nd E Ng Ng Ng		
2 3 4 5 8 7	ETHC ETHD ETHE ETHCM RXUPA	RJ RJ RJ LC Optical P LC Optical P LC Optical P	45 45 45 45 45 45 45 45 45 45 45 45 45 4	RJ45M0 RJ45M0 RJ45M0 RJ45M0 RJ45M0 F01CD1M	F F F F F	EtternetCo EtternetCo EtternetCo EtternetC Etternet Fan OrtA I	omm . omm . omm . Crafte UUX (UUX (Port Boar Port Boar Port Boar Port Boar Non Hori Channel 10	nd C nd D nd E ng npit npit		
2 3 4 5 8 7 8	ETHC ETHD ETHE ETHCM RXUPA TXUPA	RJ RJ RJ LC Optical P LC Optical P	45 45 45 45 45 45 45 45 45 45 45 45 45 4	RJ45M0 RJ45M0 RJ45M0 RJ45M0 RJ45M0 FOLC01M FOLC01M	F F F F F F	EtternetCo EtternetCo EtternetCo EtternetC EtternetC Etternet Fan OrtA J	omm . omm . omm . Crate UUX (UUX (LUX (LUX (Port Boar Port Boar Port Boar Port Boar Non Horit Channel 1 Innel 1 Inp	nd C nd D nd E ng hpit npit		
2 3 4 5 8 7 8 9	ETHC ETHD ETHE ETHCM RXUPA TXUPA RX1A	RJ RJ RJ LC Optical P LC Optical P LC Optical P	45 45 45 45 45 45 45 49 51NGLE 149 51NGLE 149 51NGLE	RJ4500 RJ4500 RJ4500 RJ4500 RJ4500 FOLCD10 FOLCD10 FOLCD10	F F F F F F F	EtternetC EtternetC EtternetC EtternetC EtternetC EtternetC Fan OrtA J Fan OrtA J Fan OrtA J	omm . omm . omm . Crate UUX (UUX (UUX (Chan Chan	Port Boar Port Boar Port Boar Port Boar Port Boar Non Hori Channel 1 Innel 1 Inp nel 1 Ort	nd C nd D nd E lig light utput		
2 3 4 5 8 7 8 9 10	ETHC ETHD ETHE ETHCM RXUPA TXUPA RX1A TX1A	RJ RJ RJ LC Optical P LC Optical P LC Optical P LC Optical P	45 45 45 45 45 45 45 45 45 45 45 45 45 4	R14500 R14500 R14500 R14500 R14500 F010010 F010010 F010010 F010010	F F F F F F F	EtternetC EtternetC EtternetC EtternetC EtternetC Fan OrtA II Fan OrtA II Fan OrtA II Fan OrtA II	omm . omm . omm . Crafe UUX C UUX C IUX C IUX C IUX C I Chan	Port Boar Port Boar Port Boar Port Boar Illon forth Diannel 1 Incel 1 Orth Incel 2 hp	nd D nd D nd E ig ippit inpit out put		
2 3 4 5 8 7 8 7 8 9 10 71	ETHC ETHD ETHE ETHCM RXURA TXURA RX1A TX1A RX1A RX2A	RJ RJ RJ C Optical P LC Optical P LC Optical P LC Optical P LC Optical P	45 45 45 45 45 45 45 45 45 45 45 45 45 4	RJ45MD RJ45MD RJ45MD RJ45MD RJ45MD F0LC01M F0LC01M F0LC01M F0LC01M	F F F F F F F F F	EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo Fan OrtA II Fan OrtA II Fan OrtA II Fan OrtA Fan OrtA	omm . omm . omm . Crafe UUX C UUX C IUX C IUX C IUX C I C Ian C Ian	Port Boar Port Boar Port Boar Port Boar Illon forin Channel 10 Innel 10 Innel 20 Innel 20 Innel 20 Innel 20	nd D nd D nd E lig light unput out put		
2 3 4 5 8 7 8 7 8 7 8 9 10 11 12	ETHC ETHD ETHE ETHCM RXURA TXURA RX1A TX1A RX1A TX1A RX2A TX2A	RJ RJ RJ C Optical P LC Optical P LC Optical P LC Optical P LC Optical P LC Optical P	45 45 45 45 45 45 45 45 45 45 45 51 45 51 45 51 45 45 45 45 45 45 45 45 45 45 45 45 45	RJ4500 RJ4500 RJ4500 RJ4500 RJ4500 RJ4500 FOLC010 FOLC010 FOLC010 FOLC010 FOLC010	F F F F F F F F F	EtienetCo EtienetCo EtienetCo EtienetCo EtienetCo EtienetCo EtienetCo Fan OrtA IJ Fan OrtA IJ Fan OrtA IJ Fan OrtA Fan OrtA Fan OrtA	omm . omm . omm . omm . Crate UUX (UUX (UUX (UUX (Chan Chan Chan Chan A Cha	Port Boar Port Boar Port Boar Nort Boar Illon florit Channel 1 Incel 1 Ort Incel 2 hip Incel 2 Ort Incel 3 hip	nd C nd D nd E ng npit opt opt opt opt		
2 3 4 5 8 7 8 7 8 9 10 11 12 73	ETHC ETHD ETHE ETHCM RXURA TXURA RX1A TX1A RX2A TX2A RX2A RX3A	RU RU RU RU C Optical P LC Optical P	45 45 45 45 45 45 45 45 45 45 510 45 510 45 510 45 510 45 510 45 510 45 510 45 510 45 510 45 510 510 510 510 510 510 510 510 510 51	RJ4500 RJ4500 RJ4500 RJ4500 RJ4500 FOLC010 FOLC010 FOLC010 FOLC010 FOLC010 FOLC010	F F F F F F F F F	EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo EtternetCo	omm . omm . omm . Crate UUX C NOR Chan Chan Chan Chan Chan	Port Boa Port Boa Port Boa Port Boa Port Boa Illon Hort Claimel 1 In Rel 1 Ort Rel 1 Ort Rel 2 Ort Rel 3 Ort	nd C nd D nd E ng npit npit nit pit nit pit		
2 3 4 5 8 7 8 8 7 8 8 7 8 8 9 10 11 12 13 14	ETHC ETHD ETHC RXUPA TXUPA RX1A TX1A RX2A TX2A RX3A TX2A RX3A	RU RU RU LC Optical P LC Optical P	45 45 45 45 45 45 45 45 45 45 510 45 510 45 510 45 510 45 510 45 510 45 510 45 510 45 510 45 510 510 510 510 510 510 510 510 510 51	R 4580 R 45800 R 45800 R 45800 R 4580 R 4580 R 4580 R 4580 R 4580 R 4580 R 4580	F F F F F F F F F F F	EttenetC EttenetC EttenetC EttenetC EttenetC EttenetC EttenetC Fan OrtA J Fan OrtA J	omm . omm . omm . Crate UUX C A C ta A C ta C ta A C ta A C ta A C ta	Port Boa Port Boa Port Boa Port Boa Port Boa Illon forth Channel 1 In Intel 2 hp Intel 3 Orth Intel 3 hp Intel 3 Orth Intel 4 hp	nd C nd D nd E ag aput aput put put put put put		

B

[Chann el ID	Mating Connector (Raw Model)	Mar. Connector (ALEA Code)	PAF Sid e	Chann el Des cripti on
[18	TX5A	LC Optical Plug SINGLE	FOLCOIM	F	Fai OrtA Chaire 150 rp it
1	19	RX6A	LC Optical Plug SINGLE	FOLCOIM	F	Fai OxtA Chainel 6 lipit
- [20	TX6A	LC Optical Plug SINGLE	FOLCOIM	F	Fai OrtA Chairel 60 rp rt
1	21	RX7A	LC Optical Plug SINGLE	FOLCOIM	F	Fai OxtA Chainel 7 lipit
1	22	TX7A	LC Optical Plug SINGLE	FOLCOIM	F	Fan OrtA Channel 7 Ortpit
1	23	RXSA	LC Optical Plug SINGLE	FOLCOIM	F	Fan OxtA Channel 8 lip it
1	24	TX8A	LC Optical Plug SINGLE	FOLCOIM	F	Fan OrtA Channel 80 rip it
1	25	RXUPB	LC Optical Plug SINGLE	FOLCOIM	F	Fan OntB MUX Channel Input
1	28	TXUPB	LC Optical Plug SINGLE	FOLCOIM	F	Fai OitB IIUX Clanel Orbit
1	Ø	RX18	LC Optical Plug SINGLE	FOLCOIM	F	Fan Ort B Channel 1 Inprt
1	28	TX18	LC Optical Plug SINGLE	FOLCOIM	F	Fan Ort B Channel 10 rip it
	29	RX28	LC Optical Plug SINGLE	FOLCOIM	F	Fai Oită Cianiel 2 lipit
1	30	TX28	LC Optical Plug SINGLE	FOLCOIM	F	Fan Ort 8 Channel 20 riprt
	31	RDC38	LC Optical Plug SINGLE	FOLCOIM	F	Fan Ort B Channel 3 lip rt
	32	TX38	LC Optical Plug SINGLE	FOLCOIM	F	Fai Oită Claniel 30 ipit
1	33	RX48	LC Optical Plug SINGLE	FOLCOIM	F	Fan Oxt 8 Channel 4 lipst
	34	TX48	LC Optical Plug SINGLE	FOLCOIM	F	Fan Ort B Channel 4 Ortpot
	35	RXSB	LC Optical Plug SINGLE	FOLCOIM	F	Fan Ort B Channel Ship rt
	38	TX58	LC Optical Plug SINGLE	FOLCOIM	F	Fai Oită Claniel SOrpit
	37	RX68	LC Optical Plug SINGLE	FOLCOIM	F	Fan Ort B Channel 6 lip it
	38	TX68	LC Optical Plug SINGLE	FOLCOIM	F	Fai Oită Cianiel 60 ipit
- [39	RX78	LC Optical Plug SINGLE	FOLCOIM	F	Pan Ort B Channel 7 Inprt
	40	TX78	LC Optical Plug SINGLE	FOLCOIM	F	Fan Ort B Channel 7 Ortpit
	41	RX88	LC Optical Plug SINGLE	FOLCOIM	F	Fan Ort B Channel 8 lip it
[42	TX88	LC Optical Plug SINGLE	FOLCEIM	F	Fan Ort B Channel 80 rip it
	43	RXUPC	LC Optical Plug SINGLE	FOLCOIM	F	Fan OxtC MUX Channel Inpit
	44	TXUPC	LC Optical Plug SINGLE	FOLCOIM	F	Fai OrtC IIUX Chanel Orbit
	45	RX1C	LC Optical Plug SINGLE	FOLCOIM	F	Fai OrtC Claniel 1 lipit
	48	TX1C	LC Optical Plug SINGLE	FOLCOIM	F	Fai OrtC Claniel 10 rpit
[47	RX2C	LC Optical Plug SINGLE	FOLCEIM	F	Fai OrtC Chaniel 2 lipit
	48	TX2C	LC Optical Plug SINGLE	FOLCOIM	F	Fair OrtC Citainel 20 ripit
	49	RX3C	LC Optical Plug SINGLE	FOLCOIM	F	Fai OrtC Claniel 3 lipit
	50	TX3C	LC Optical Plug SINGLE	FOLCOIM	F	Fair OrtC Citainel 3 Ortpot
	51	RXIC	LC Optical Plug SINGLE	FOLCOIM	F	Fai OrtC Claniel 4 lipit
	52	TXIC	LC Optical Plug SINGLE	FOLCOIM	F	Fai OrtC Clainel 4 Ortpit
	53	RXSC	LC Optical Plug SINGLE	FOLCOIM	F	Fai OrtC Chaniel S lipit



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_	Equipment ID▲	Rack Code	Sort in Hutch	Serial Number	Description	Туре
1	SR-CT-CPCI-RKA09B06-02	SR-CT-RKA09B06				ALBA cPCI-52

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CCDB

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Equip Rack Cable Conn. Compatibility Conn. Types Families Eq. Type Cable Conf. Conn. Summary by Subsystem Plugs Rack Routing Doc. ALBA Codes



Computing division
ALBA Cable Pin-out Definition Document

CABLE PINOUT CONFIGURATION INFORMATION

This cable configuration consists of one Binder circular male plug connected with a square female connector using a multi-wire 6x0.34 mm² LIYCY cable.

It is used to connect:

 Sense input of Pfeiffer TGP261 Vacuum controller with Sense output of PRK261 Full Range Vacuum Gauge.

TERMINAL POINT A	TERMINAL POINT B	CABLE
CR C06M0	SQR06F0	MW0601S
1 (Id)	1 (Id)	White
2 (Supply Common, GND)	5 (Supply Common)	Grey
3 (Signal Input)	2 (Signal Output)	Brown
4 (Signal Common)	3 (Signal Common)	Green
5 (Screening)	6 (Screening)	Pink
6 (Supply, +24∨DC)	4 (Supply)	Yellow
SHELL	6 (Screening)	SHIELD
м	ANUFACTURING INFORMATI	ION

The wire to contact connections must be done using a suited crimping tool. Where is not possible to use crimped contacts due to the special connection pattern, soldered contacts may be allowed, but the solders must be protected with thermo-shrink insulator.

The shielding braid must be grouped forming a pigtail. The pigtail must be pressed between the connector shell and the cable hose to assure a good electrical contact. When the shielding pigtail has to be connected to any connector pin, the pigtail will be also protected with thermo-shrink insulator.

The cable must have several visible labels according to the ALBA cable label specification.

NOTE: This cable can be found commercially at Pfeiffer Vacuum with reference PT448250-T (in this example the length is 3m, for other lengths other references can be found).

Configuration	n Code:	SMW6-18 - Sense input of Pfeiffer TGP261 Vacuum	SMW6-18 - Sense input of Pfeiffer TGP261 Vacuum cor 🐱										
Cable Refere	nce:	MW0601S - multi-conductor, 6x0.34 mm2											
Signal Code:		C - Control (Digital signals: 24V, TTL, etc)											
Description: Status:		Sense input of Pfeiffer IGP261 Vacuum controller with Sense output of PRK261 Fu Range NOT - Not Assigned Yet											
Termination Name	Connector Code	Description	Term. Color	Term. Type	Return Color	Return Type							
А	CRC06M0	6 pin circular plug connector											
в	SQR06F0	HIRSCHMANN GO 6 WF black, 6 poles connector, DIN VDE 0627 / IEC 61984											

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you	u are	e nere:	nome -	→ Intra																			
Hor	_				Reports	Installatio																	CCDB
Equ	uip	Rack	<u>Cab</u>	<u>le</u> Ci	onn. Comp	atibility	Conn. Ty	pes I	Families	Eq.Type	Cable Co	onf. C	onn.	Sum	mary by :	Subsyste	m Plu	ugs Rad	k Routing	Doc. /	LBA Codes		
					Find C	able																	
					Locatio	on:				¥	Nur	mber: [~	,	Row I	d:	v F	Row Posi	tion:	~			
												L											
					Syster	n:						al Code:							*				
						ystem:					Configuration Code: SMW6-18 - Sense input of Pfeiffer TGP261												
					Family						Routing: ALL												
					Inside		L				Report Type: DETAILED												
					Cable	ID:																	
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		_			_			-						-		Real							
	^S	Sig.	Id	Equ	iip.A	RackA	ChA	T. Name	Conf Code	Pinout	Equip.B	RackB	ChB	T. Name	Len. (m)	Len. (m)	Tray	Routing	Comments	Status	Diameter	Hutch A	Hutch B
1	vc	с	045445	5 VGC	9-VC- T- 09A02-04	BL09-CT- RKX09A02	SEN	A	SMW6- 18		BL09-VC- FRG- EH01-01		SEN	в	22.0	22	S2			TO- Tested (Ok)	6.4		
							Tray														T	otal Area	(mm2)
							S2																40.96
							TOTAL																40.96
						Con	f Code+						Total I	Vum								Total Leng	th (m)
						SM	4W6-18							1									22.0
							TOTAL							1									22

SOFTWARE TOOLS CCDB for Cabling & Equipments App: Traceability & Stock Control by MIS

Currently CCDB functionalities under development

- •Traceability of each instantiated equipment (location)
- •Traceability of each equipment S/N
- •Traceability of each cabling ID (location)
- •Chronological logs of all changes
- •Stock Manager applying Poisson Distribution & using Kanban Cards

(when a kanban card is received from storage area indicates that there is a depletion of a part which it will trigger the replenishment purchasing order to maintain the stock quantity calculated with the Poisson Distribution Formula)

•Exportable

•It is being studied the best way to implement this functionalities linked with our current repository



•We need to improve the flow of the task's information from Technical Meetings to the Operation Meeting. Sometimes it arrives late, incomplete and inconcrete

(Improvements)

•There is an ongoing Project for the Computing Maintenance Contract which is expected to be open for a call for tender during the next year

•There is an internal evaluation for a possible migration to JIRA instead of RT

• Implement CCDB functionalities under development (luckily in the near future)



THANKS FOR YOUR ATTENTION

(The End)