

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



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 responsables 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 – Responsibilities & 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

Some members of **Management** & **Safety** are present in the meeting

Coordinator

Coordinator

Coordinator

Coordinator

Accelerator  
**Section**  
Meetings

Computing  
**Section**  
Meetings

Engineering  
**Section**  
Meetings

Experiment  
**Section**  
Meetings

Section **Technical**  
Meetings

Section **Technical**  
Meetings

Section **Technical**  
Meetings

Section **Technical**  
Meetings

RF

Magnet

Diagnostic

Insertion Devices

Control

Electronics & PS

MIS

System

Infrastructures

Mechanical

Vacuum

Beam Lines

### (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

	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	...	

**(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							



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

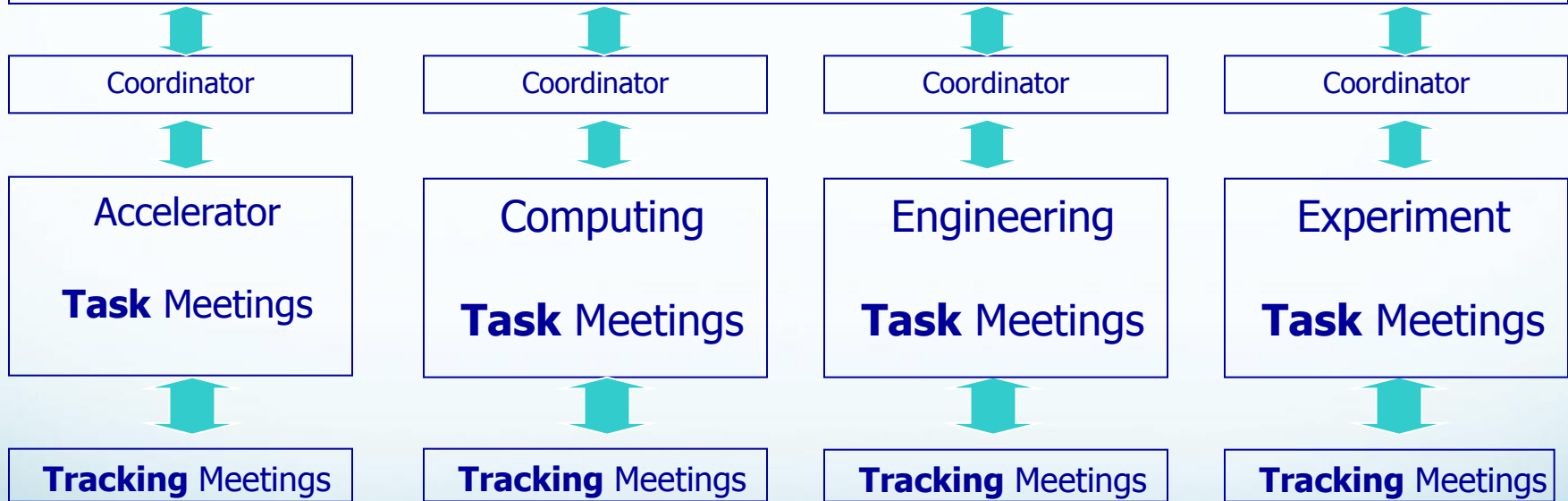
These concepts are usually applied only in the cases of Corrective Maintenance using Internal Staff.



# INTERNAL ORGANIZATION (Coordination Meetings \_ Shutdown phase)

## Shutdown / Tracking Meeting

Some members of **Management** & **Safety** are present in the 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



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

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





# SOFTWARE TOOLS (Management, Coordination, Organization & Control)

Other MIS App

## Safety Tickets

ALBA

you are here: home → intranet → mis applications → ceps

### Engineering Internal Order Workflow

**Create a new Order**

Applicant:  Supervisor:   
 Order Date:  Requested deadline:     
 Urgency:  Delivery Date:

Add Item Remove Last Item

Nº Description Attached Docs

1

Extra info

Material supplied by  Applicant  Workshop Type  Maintenance

## Internal Order

## Over Time & Absences

you are here: home → intranet → mis applications → ceps

### Take absences

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

Choose the type and the day of your absence (or the first day and the last day if several days). You can have a look on the different **absences types** here.

Type:   
 From:  To:   
 Comment (optional):

Your request will be sent to your supervisor.

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

**View absences of someone:**

Choose a name:

Holidays or special absences  Work absences  Common holidays  Company days

September 2013							October 2013							November 2013							December 2013						
No	Tu	We	Th	Fr	Sa	Su	No	Tu	We	Th	Fr	Sa	Su	No	Tu	We	Th	Fr	Sa	Su	No	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	1	2	3	4	5	29	30	1	2	3	4	5	29	30	1	2	3	4	5	29	30	1	2	3	4	5

## Tunnel & SA Access Request

you are here: home → intranet → mis applications → dar

### Tunnel and SA racks access request

Legend

- Operation Tunnel closed
- OFF - Out Down
- MW - Maintenance
- Rate requested
- Morning: 0700 a 1500
- Afternoon: 1500 a 2300
- Nights: 2300 a 0700

My Requests

#	Access Date	Access Time	Time Needed	Applicant	Supervisor	Division	# People	Approved	Done
1	23/09/2013			Camps Giménez, Antonio					

Request Date:   
 Access Date:   
 How many people will be in the tunnel (applicant included):   
 Time needed:   
 Access Time:   
 Description / Reason:   
 Tunnel status needed:   
 Send a copy to:   
 Does your request need a safety ticket?   
 Does your request need a Manipulation Order?

## Meeting Room Booking

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### Room booking

Booking calendar of Tuesday 15/10

Without projector  With projector

Room \ Hour	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20
<b>Braga Meeting Room (10 seats)</b>												
<b>Enrico Fermi (6 seats)</b>												
<b>Faraday Meeting Room (8 seats)</b>												
<b>Feynman Meeting Room (8 seats)</b>												
<b>Kendrew Meeting Room (6 seats)</b>												
<b>Niels Bohr Meeting Room (10 seats)</b>												
<b>Rovne Briefing Room (10 seats)</b>												
<b>Maxwell Auditorium (150 seats)</b>												
<b>Tesla Training Room</b>												
<b>projector only</b>												

\*: No multimedia equipment

Choose a date (dd/mm/yyyy):

**Book a room and/or the projector:**

Please do not book a room if you will not use it, and once booked, if you change your mind, do not forget to cancel your booking below!

Who needs this booking?   
 If different from you, the person will get a notification of this booking by email.

Choose a meeting room or only the projector:  
 Day:  from:  to:   
 If you book a room, do you need the projector for the meeting?   
 Recurrent booking?

## E-purchasing

you are here: home → intranet → mis applications → ceps

Supplier No.:  Purchase request No.:  Not yet assigned  
 Supplier name:  Status:   
 Contact person:  Esp. delivery date:   
 Cost center:  Computing Material?   
 Project:  Non ordinal payment date:   
 Description:  Payment type:   
 Delivery Place:  Justification:   
 Send order

Concept	Concept Name	Quantity	Un.Price	Un.Discount	TAX Code	TAX (%)	Total(LC)	Description
...	Clear lines	Load rows from CSV file						Browse...

Drafted by:  Total before TAX: 0.00 EUR  
 Requested by:  TAX: 0.00 EUR  
 Processed by:  Total payment due: 0.00 EUR  
 Proposed by:   
 Authorized by:  Save:   
 Remarks:  Save and send:

Attachments

No. File:



# SOFTWARE TOOLS

## (RT System \_ task organization)

Logged in as acamps | Preferences | Logout

- Home
- Simple Search
- Tickets
- New Search
- Edit Search
- Advanced
- #54960
- Tools
- Preferences
- Approval



#54960: Installation of cPCI + ADC in AMA

New ticket in Beamlines-tech  Search

Display - History - Basics - Dates - People - Links - Reminders - Jumbo

Open - Comment - Reply - Resolve -

### Ticket metadata

#### The Basics

**Id:** 54960  
**Status:** new  
**Priority:** 40/100  
**Queue:** Electronics

#### Custom Fields

**Importance:** P1 - MUST  
**Requestor/Notifications:** (no value)  
**Ticket type:** User request  
**Privileged user notification:** (no value)  
**Service (Electronic):** Instrumentation Support  
**on call:** (no value)  
**Unit:** Accelerators  
**Create Electronics Tech Ticket:** (no value)  
**RCA:** (no value)

#### People

**Owner:** Antonio Camps Giménez  
**Requestors:** nayala@cells.es  
**Cc:**  
Antonio Camps Giménez  
Abel Fontserre Recuenco  
Alberto Rubio García  
Alberto Ruz Bedmar  
Domingo Alloza Castillo  
**AdminCc:** Jose Avila Abellan  
Jorge Villanueva Cuenda  
Malysa Martín  
Oscar Luis Matilla Barceló  
Roberto Arturo Petrocelli  
Xavier Serra Gallifa

#### Attachments

ALBALogoSignatureSmall.jpg  
• Fri Oct 02 16:34:29 2015 (8.2k) by nayala

#### Reminders

**New reminder:**  
**Subject:**   
**Owner:** Antonio Camps Giménez  
**Due:**  Calendar

#### 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  
**Updated:** Wed Oct 07 11:48:05 2015 by acamps

#### Links

**Depends on:** (Create)  
**Depended on by:** (Create)  
**Parents:** (Create)  
**Children:** (Create)  
**Refers to:** (Create)  
**Referred to by:** (Create)

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





# SOFTWARE TOOLS

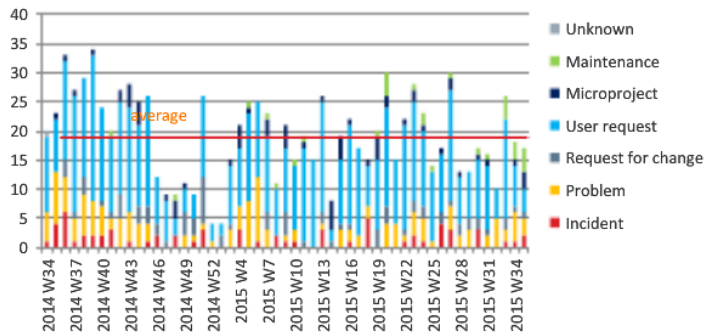
## Alba CCDB Mis App \_ Equipment & cabling organization)

### (Statistics)

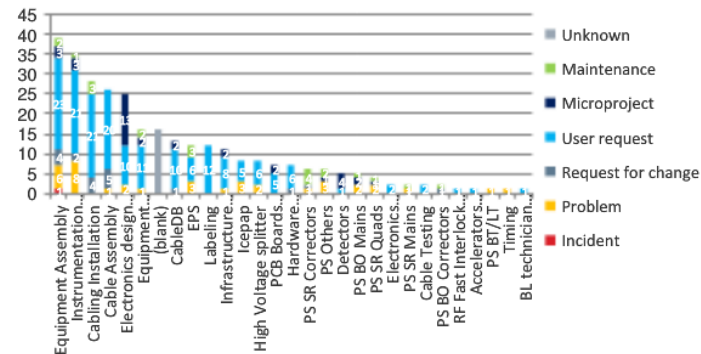


## Electronics

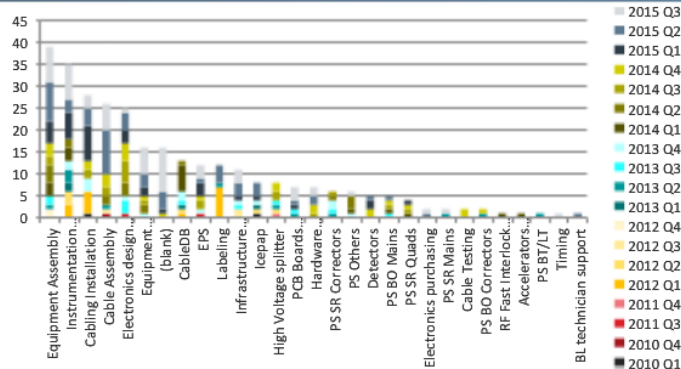
#### Weekly New Requests



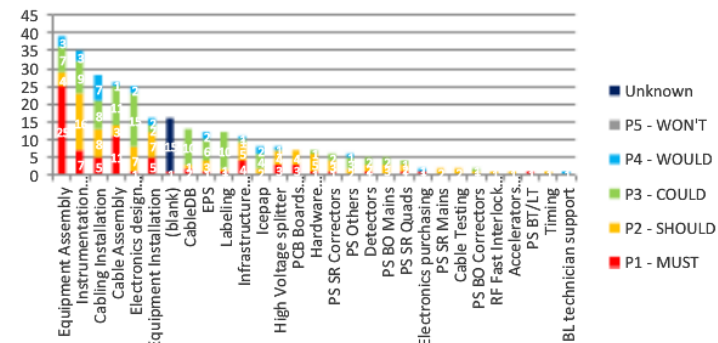
#### Backlog by Service and Type



#### Backlog by Service and Creation Date



#### Backlog by Service and Importance



# SOFTWARE TOOLS

## (Alba CCDB Mis App \_ Equipment & cabling organization)



Equipment ID▲	Rack Code	Sort in Hutch	Serial Number	Description	Type
SR-RF-HVPS-RKA10A02-02	<a href="#">SR-RF-RKA10A02</a>				<a href="#">THOMSON HVPS</a>

	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	WT	A	SMW4-6	SR-RF-PAPA-A10-15	WT_HV2	B	White	1 PT+	Brown - Green	3 PT-(a) - 4 PT-(b)
3	18616	SR-RF-HVPS-RKA10A02-02	HVENA	B	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	B	SMW2-71	SR-RF-IOT-RKA10A04-02	MAINS_DT1	A	None	None	None	None
5	47636	SR-RF-HVPS-RKA10A02-02	MAINS_IN2	B	SMW9-2	SR-RF-IOT-RKA10A04-02	PLC_CTRL1	A	None	None	None	None
6	47637	SR-RF-HVPS-RKA10A02-02	MAINS_IN3	B	SMW9-3	SR-RF-IOT-RKA10A04-02	PLC_CTRL2	A	None	None	None	None
7	47638	SR-RF-HVPS-RKA10A02-02	MAINS_IN4	B	SMW9-4	SR-RF-IOT-RKA10A04-02	PLC_CTRL3	A	None	None	None	None
8	47639	SR-RF-HVPS-RKA10A02-02	MAINS_IN5	B	SMW9-5	SR-RF-IOT-RKA10A04-02	PLC_CTRL4	A	None	None	None	None
9	47640	SR-RF-HVPS-RKA10A02-02	MAINS_IN6	B	SMW9-6	SR-RF-IOT-RKA10A04-02	MAINS_DT2	A	None	None	None	None
10	47717	SR-RF-HVPS-RKA10A02-02	PSM_CAB1	B	COAXHV-11	SR-RF-IOT-RKA10A04-02	HV_DECK1	A	None	None	None	None
11	47718	SR-RF-HVPS-RKA10A02-02	PSM_CAB2	B	COAXHV-11	SR-RF-IOT-RKA10A04-02	HV_DECK2	A	None	None	None	None

SR-RF-HVPS-RKA10A02-02			
Channel Id	Connector Code		Config Id
HVEa	BLDXMX		SMW2-18 B
WT	BLDXMX		SMW4-6 A
WFM	CRC05F1		SMW2-11 A1
MAINS_IN1	BLDXMX		SMW2-71 B
MAINS_IN2	BLDXMX		SMW9-2 B
MAINS_IN3	BLDXMX		SMW9-3 B
MAINS_IN4	BLDXMX		SMW9-4 B
MAINS_IN5	BLDXMX		SMW9-5 B
MAINS_IN6	BLDXMX		SMW9-6 B
MAINS_IN7	BLDXMX		SMW5-2 B
MAINS_IN8	BLDXMX		STP4-11 B
PSM_CAB1	RNGXM5		COAXHV-11 B
PSM_CAB2	RNGXM5		COAXHV-11 B
EARTH	UNKNOWN		

SR-RF-PAPA-A10-15 :: ALBA SRTX PAPA				
Term. name	Equip. Code		Channel Id	Connector Code
A	SR-RF-PAPA-A10-15		TXST1	BLDXMX
			TXST2	BLDXMX
			ENA_IOT1	BLDXMX
			ENA_IOT2	BLDXMX
			ENA_HV1	BLDXMX
			ENA_HV2	BLDXMX
			ASWCACO	BLDXMX
			ST_CIRC	BLDXMX
			STCACO	BLDXMX
			WT_HV1	BLDXMX
			WT_HV2	BLDXMX
			WT_IOT1	BLDXMX
			WT_IOT2	BLDXMX
			WT_CIRC	BLDXMX
			WTLoad	BLDXMX
			WF_HV1	BLDXMX
			WF_HV2	BLDXMX
			WF_IOT1	BLDXMX



# SOFTWARE TOOLS

## CCDB for Cabling & Equipments: **Equipment** Template

**Computing division**

**ALBA Equipment Type Definition Document**

Equipment Type Name ALBA cPCI-S2	Created: 11/22/2007 Updated: 03/12/2008	Responsible: -
Description of Equipment: Cable cPCI-S2 Cate 6418U User Manual.pdf + 4 items (view all items)	Version: 5	Subsystem: CT

**EQUIPMENT INFORMATION**

Equipment Family:	CPCI	Number of Equipment Connections:	4
Equipment Size (Rack Units):	4U 5BHP	Number of AC connectors:	2   Type: C
Associated Documentation:	ALBA cPCI-S2 Cate Configuration.txt ADLINK cPCIS-6418U Datasheet.pdf ADLINK cPCIS-6418U User Manual.pdf Micro-Research cPCI-FOUT-12 Technical Reference.pdf Micro-Research Finland 8 Way Fan-Out Concentrator Technical Reference.pdf		

**EQUIPMENT CHANNELS CONFIGURATION**

Chann # ID	Mating Connector (P2M Mated)	MFC Connector (ALBA Code)	R/SF Size	Chann # Description	
1	ETHA	RJ45	RJ45MD	F	EthernetConn. Port Board A
2	ETHB	RJ45	RJ45MD	F	EthernetConn. Port Board B
3	ETHC	RJ45	RJ45MD	F	EthernetConn. Port Board C
4	ETHD	RJ45	RJ45MD	F	EthernetConn. Port Board D
5	ETHE	RJ45	RJ45MD	F	EthernetConn. Port Board E
6	ETHF	RJ45	RJ45MD	R	EthernetConn. Mating
7	TX07A	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#1 Inpnt
8	TX07B	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC MUX Class#10 Inpnt
9	RX07A	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#1 Inpnt
10	TX08	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#1 Outpnt
11	RX08	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#12 Inpnt
12	TX09	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#12 Outpnt
13	RX09	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#13 Inpnt
14	TX0A	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#13 Outpnt
15	RX0A	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#14 Inpnt
16	TX0B	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#14 Outpnt
17	RX0B	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#15 Inpnt

Chann # ID	Mating Connector (P2M Mated)	MFC Connector (ALBA Code)	R/SF Size	Chann # Description	
18	TX0C	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#15 Outpnt
19	RX0A	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#16 Inpnt
20	TX0A	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#16 Outpnt
21	RX0A	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#17 Inpnt
22	TX0A	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#17 Outpnt
23	RX0A	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#18 Inpnt
24	TX0A	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#18 Outpnt
25	RX01F	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC MUX Class#1 Inpnt
26	TX01F	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC MUX Class#1 Outpnt
27	RX1B	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#1 Inpnt
28	TX1B	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#1 Outpnt
29	RX2B	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#2 Inpnt
30	TX2B	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#2 Outpnt
31	RX3B	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#3 Inpnt
32	TX3B	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#3 Outpnt
33	RX4B	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#4 Inpnt
34	TX4B	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#4 Outpnt
35	RX5B	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#5 Inpnt
36	TX5B	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#5 Outpnt
37	RX5B	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#6 Inpnt
38	TX5B	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#6 Outpnt
39	RX7B	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#7 Inpnt
40	TX7B	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#7 Outpnt
41	RX8B	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#8 Inpnt
42	TX8B	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#8 Outpnt
43	RX0PC	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC MUX Class#1 Inpnt
44	TX0PC	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC MUX Class#1 Outpnt
45	RX0C	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#1 Inpnt
46	TX0C	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#1 Outpnt
47	RX0C	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#2 Inpnt
48	TX0C	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#2 Outpnt
49	RX0C	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#3 Inpnt
50	TX0C	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#3 Outpnt
51	RX0C	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#4 Inpnt
52	TX0C	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#4 Outpnt
53	RX0C	LC Optical Pig SINGLE	FOLCDIM	F	Fan OptC Class#5 Inpnt

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### Find Equipment

Location:

Number:

Row Id:

Row Position:

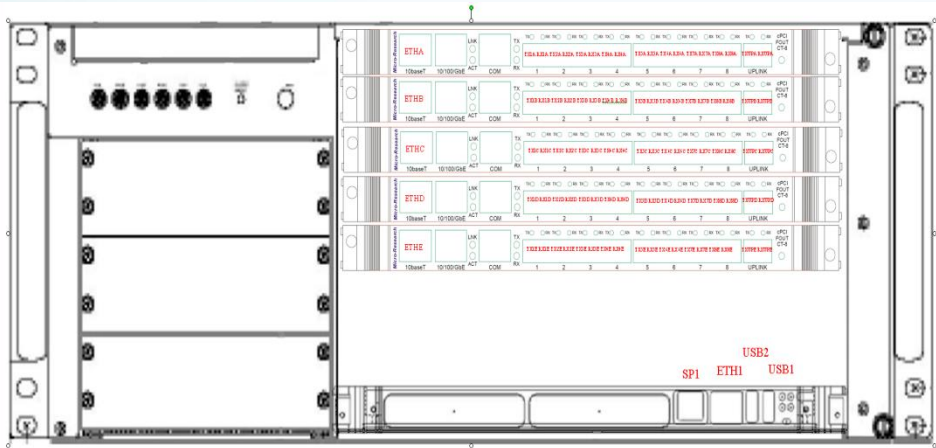
System:

Equipment Type:

Sub-System:

Family:

Equipment ID#	Rack Code	Sort in Hutch	Serial Number	Description	Type
1	SR-CT-CPCI-RXA09806-02	SR-CT-RXA09806			ALBA cPCI-S2



### Directory listing of /CELLS/Intranet/MISApps/cddb/LFS\_Equipment/66

Name	Last Modified	Size	Type
<a href="#">Parent Directory</a>			
<a href="#">ADLINK cPCI-6840 Datasheet.pdf</a>	17:16:50 2009/06/09	198.5 kB	application/pdf
<a href="#">ADLINK cPCI-6840 User Manual.pdf</a>	17:16:48 2009/06/09	451.7 kB	application/pdf
<a href="#">ADLINK cPCIS-6418U Datasheet.pdf</a>	17:16:51 2009/06/09	237.3 kB	application/pdf
<a href="#">ADLINK cPCIS-6418U User Manual.pdf</a>	17:16:52 2009/06/09	967.1 kB	application/pdf
<a href="#">ALBA cPCI-S2 Cate Configuration.txt</a>	17:16:52 2009/06/09	379 bytes	text/plain
<a href="#">ALBA cPCI-S2 v5.doc</a>	17:16:50 2009/06/09	1.8 MB	application/msword
<a href="#">Micro-Research Finland 8 Way Fan-Out Concentrator Technical Reference.pdf</a>	17:16:52 2009/06/09	57.7 kB	application/pdf
<a href="#">Micro-Research Finland cPCI-FOUT-12 Technical Reference.pdf</a>	17:16:48 2009/06/09	52.4 kB	application/pdf
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# SOFTWARE TOOLS

## CCDB for Cabling & Equipments: **Cabling** Template

**Computing division**

ALBA Cable Pin-out Definition Document

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**SMW6-18**
**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 mm<sup>2</sup> 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
<b>CRC06M0</b>	<b>SQR06F0</b>	<b>MW0601S</b>
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, +24VDC)	4 (Supply)	Yellow
<b>SHELL</b>	<b>6 (Screening)</b>	<b>SHIELD</b>
<b>MANUFACTURING INFORMATION</b>		

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).

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CCDB

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

**Cable Configuration**

Configuration Code: SMW6-18 - Sense input of Pfeiffer TGP261 Vacuum con

Cable Reference: MW0601S - multi-conductor, 6x0.34 mm2

Signal Code: C - Control (Digital signals: 24V, TTL, etc)

Description: Sense input of Pfeiffer TGP261 Vacuum controller with Sense output of PRK261 Full Range

Status: NOT - Not Assigned Yet

Termination Name	Connector Code	Description	Term. Color	Term. Type	Return Color	Return Type
A	CRC06M0	6 pin circular plug connector				
B	SQR06F0	HIRSCHMANN GO 6 WF black, 6 poles connector, DIN VDE 0627 / IEC 61984				

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CCDB

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

**Find Cable**

Location:  Number:  Row Id:  Row Position:

System:  Signal Code:

Sub-System:  Configuration Code: SMW6-18 - Sense input of Pfeiffer TGP261

Family:  Routing: ALL

Inside Rack: ALL Report Type: DETAILED

Cable ID:

Find

S	Id	Equip.A	RackA	CHA	T. Name	Conf Code	Pinout	Equip.B	RackB	ChB	T. Name	Len. (m)	Real Len. (m)	Tray	Routing	Comments	Status	Diameter	Hutch A	Hutch B				
1	VC C	BL09-VC-VIGCT-RKX09A02-04	BL09-CT-RKX09A02	SEN	A	SMW6-18		BL09-VC-FRG-EH01-01		SEN	B	22.0	22	S2			TC-Tested (Ok)	6.4						
																			<b>Tray=</b>		<b>Total Area (mm2)</b>			
																					S2		40.96	
																			<b>TOTAL</b>		<b>40.96</b>			
																			<b>Conf Code=</b>		<b>Total Num</b>		<b>Total Length (m)</b>	
																					SMW6-18		22.0	
																			<b>TOTAL</b>		<b>1</b>		<b>22</b>	

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



## (Improvements)

- 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
- 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)

(The End)



**THANKS FOR YOUR  
ATTENTION**