

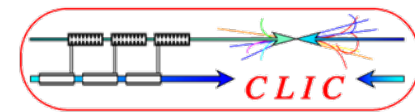
Beam Instrumentation Workshop, June 2-3, 2009

CLIC Project breakdown structure: organization, documentation and cost estimate

G. Riddone 03.06.2009



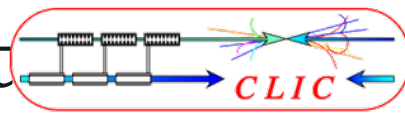
Content



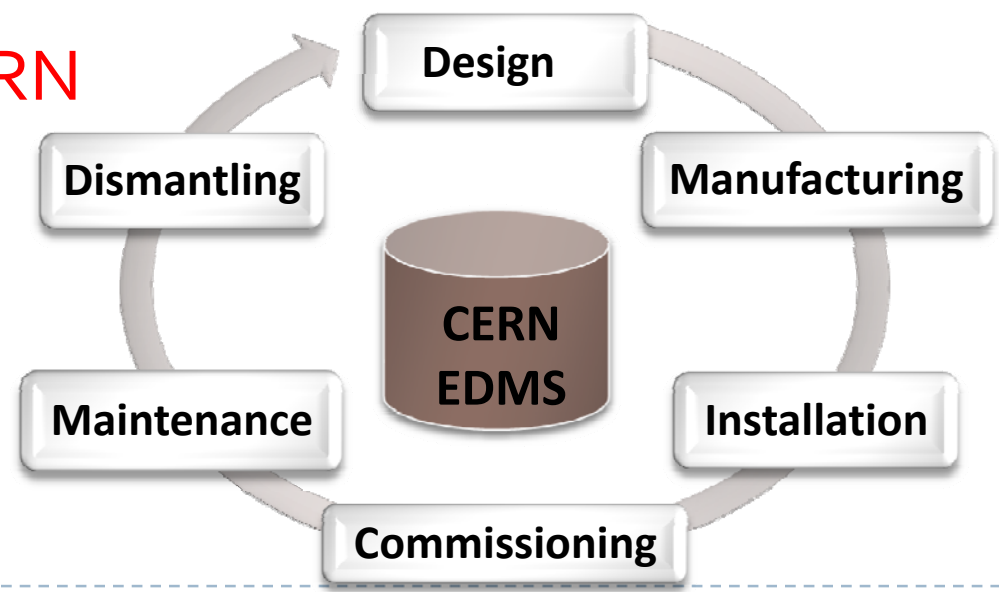
- ▶ Introduction to CERN Product Lifecycle Management
- ▶ CLIC Product Breakdown Structure
- ▶ CLIC Beam Instrumentation documentation
- ▶ Beam instrumentation cost estimate
- ▶ *Application and relevant EDMS features*
- ▶ Conclusions



Product Lifecycle Management (PLM)

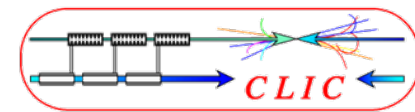


- ▶ Intention to build an integrated Product Lifecycle Management (PLM) platform
- ▶ Aim to link all the information related to one item/product to one common database
- ▶ Whole lifecycle can be followed
- ▶ **PLM = EDMS at CERN**
- ▶ Integration work under way





Overview of the CERN EDMS

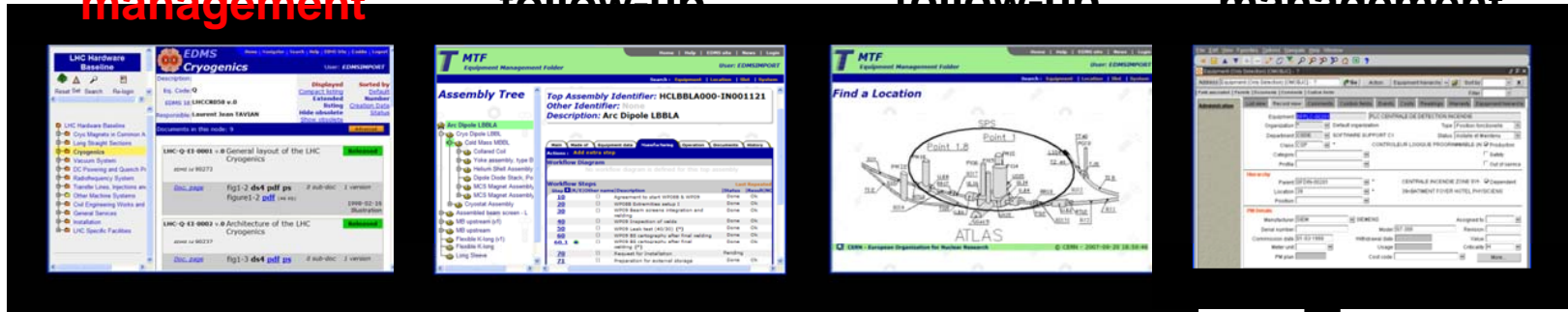


Design data management

Manufacturing follow-up

Installation follow-up

Maintenance management



CERN Engineering & Equipment Data Management System

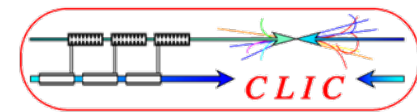
Agile PLM
Design data
Drawings & Documents

Infor EAM
Asset tracking
Work management

Other DBs
Layout databases
Production databases



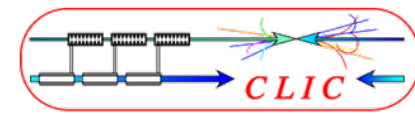
Introduction to EDMS



- ▶ EDMS (**Engineering and Equipment Data Management Service**) provides engineering and equipment data management capabilities. This implies providing a set of advanced information systems but also the development and the **formalization of methodologies and procedures** for the engineering and equipment data management processes.
- ▶ EDMS ensures that engineering and equipment data as well as documentation for projects and installations are safeguarded, organized, verified and remain retrievable on a **long-term basis**.
- ▶ **EDMS is used:**
 - ▶ for all technical data management and their associated work process
 - ▶ for information flow among different teams, including external suppliers/collaborators



EDMS – Web Interface



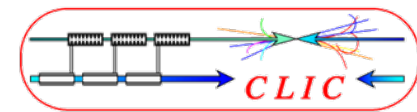
https://edms.cern.ch/cedar/plsql/cedarw.site_home

PROJECTS ▾	DOCUMENTS ▾	EQUIPME
Search		
Accelerators	CLIC	
CERN Board & Activities	CNGS Project	
CERN Departments	CTF3 Project	
Computing	HIE-ISOLDE	
Experiments	LINAC4	
LHC Machine	LINAC4 Hardware Baseline	
Operation	PAF	
Others	PS Complex Equipment Catalog	

DOCUMENTS ▾	EQUIPMENT ▾	SAFETY ▾
Search		
Register		
Approve	Start Approval Process	
CDD Home Page	Stop Approval Process	
	See Current Processes	
	Documents I Have to Comment	
	Manage my email distribution lists	



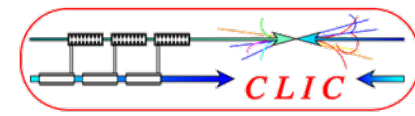
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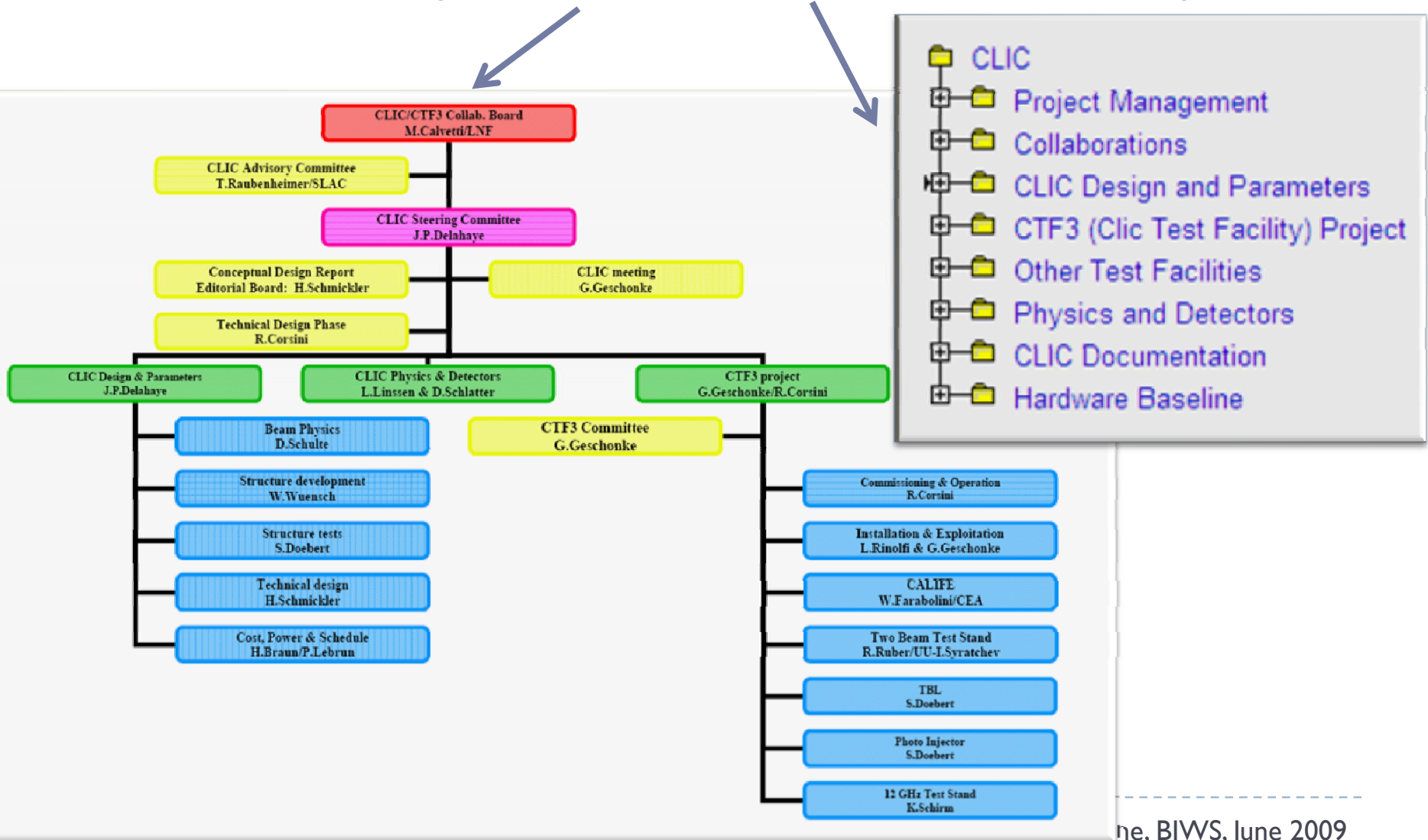
- ▶ Introduction to CERN Product Lifecycle Management
- ▶ **CLIC Product Breakdown Structure**
- ▶ CLIC Beam Instrumentation documentation
- ▶ Beam instrumentation cost estimate
- ▶ Application and relevant EDMS features
- ▶ Conclusions



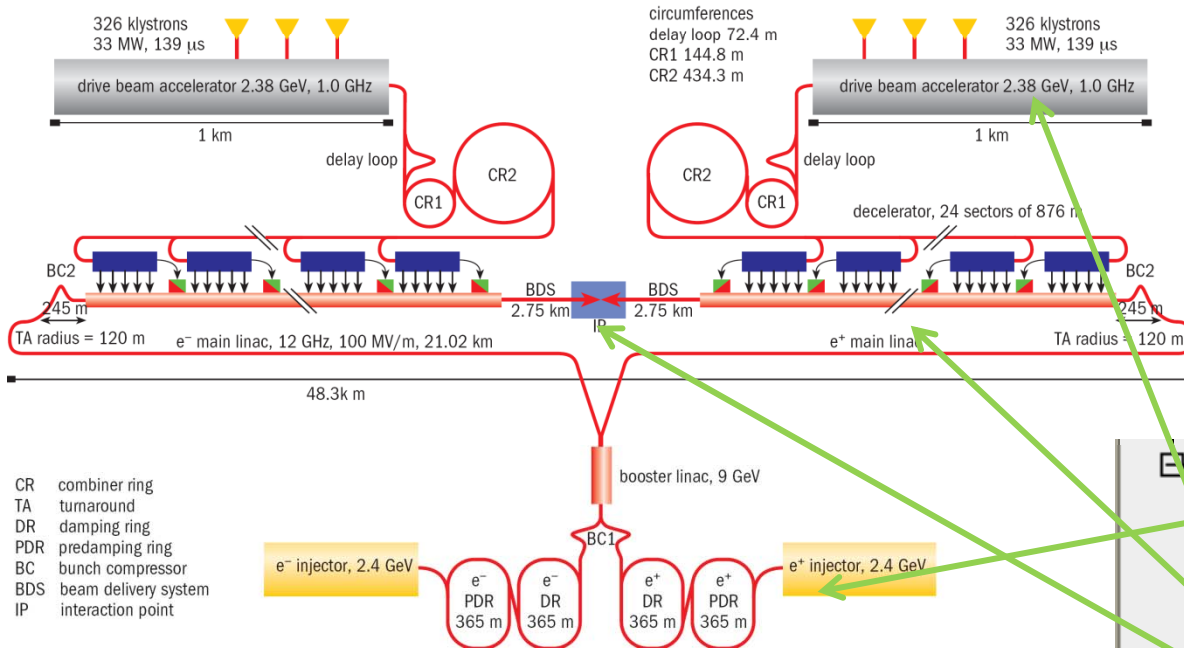
CLIC structure in EDMS -1



- ▶ Based on the CLIC organization chart, a structure in EDMS has been implemented



- ▶ The hardware baseline is based on CLIC PBS, which has been defined according to the CLIC layout



Tree structure

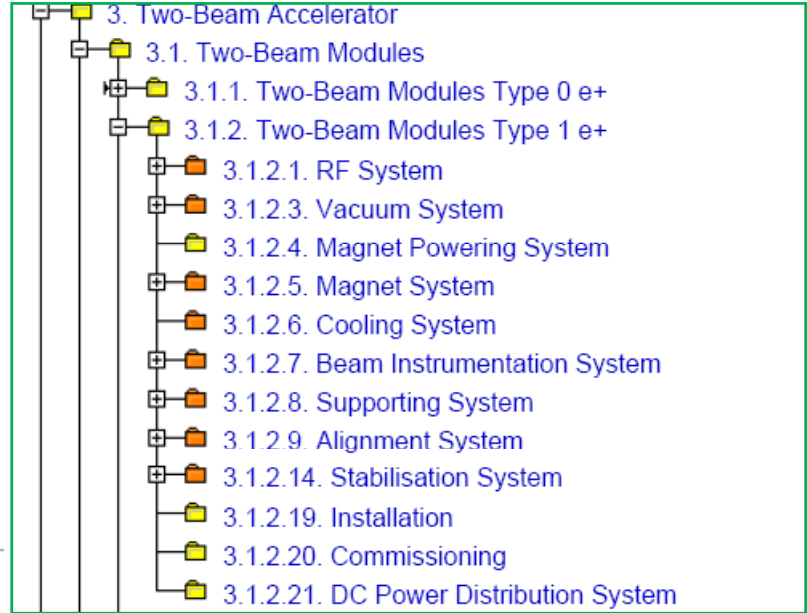
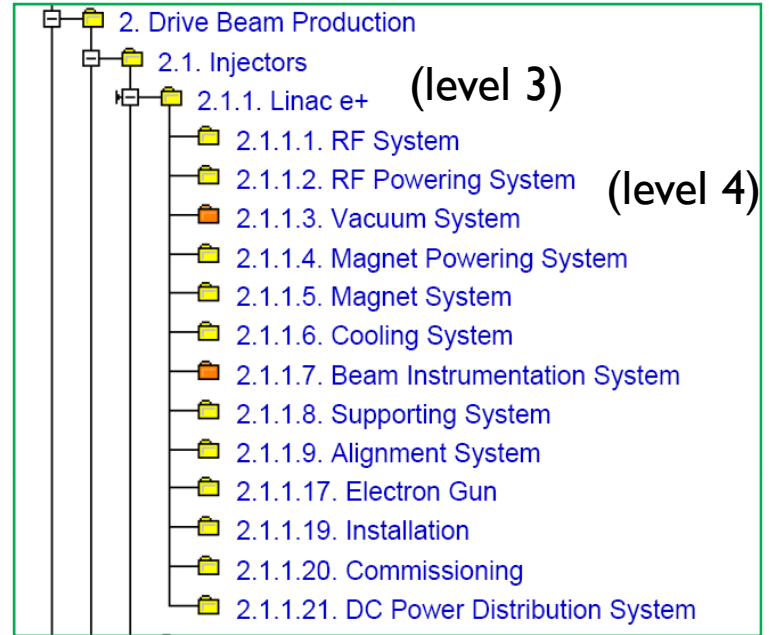
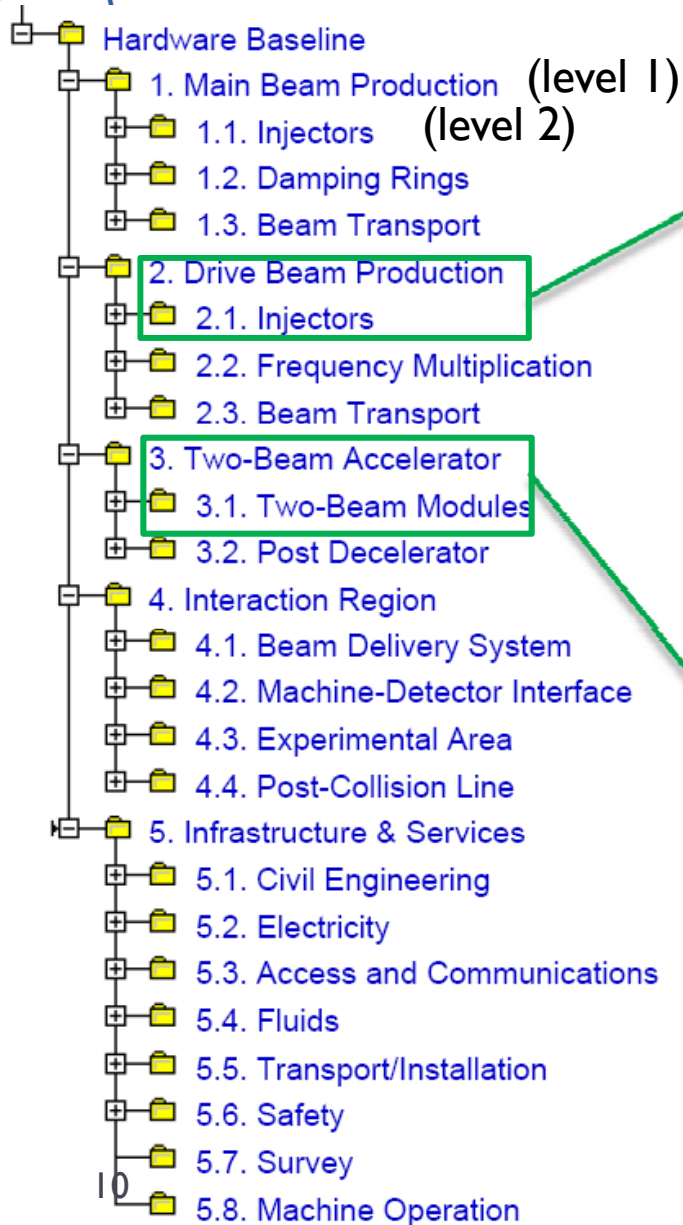
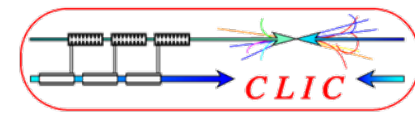
Hardware Baseline

1. Main Beam Production
2. Drive Beam Production
3. Two-Beam Accelerator
4. Interaction Region
5. Infrastructure & Services

The “hardware baseline” will contain all baseline documentation for the CLIC study :
Parameter Specifications, Functional Specifications, Engineering Specifications, Technical Specifications, Eng. Change Request, Eng. Change Order

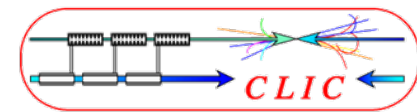


CLIC PBS (hardware baseline)

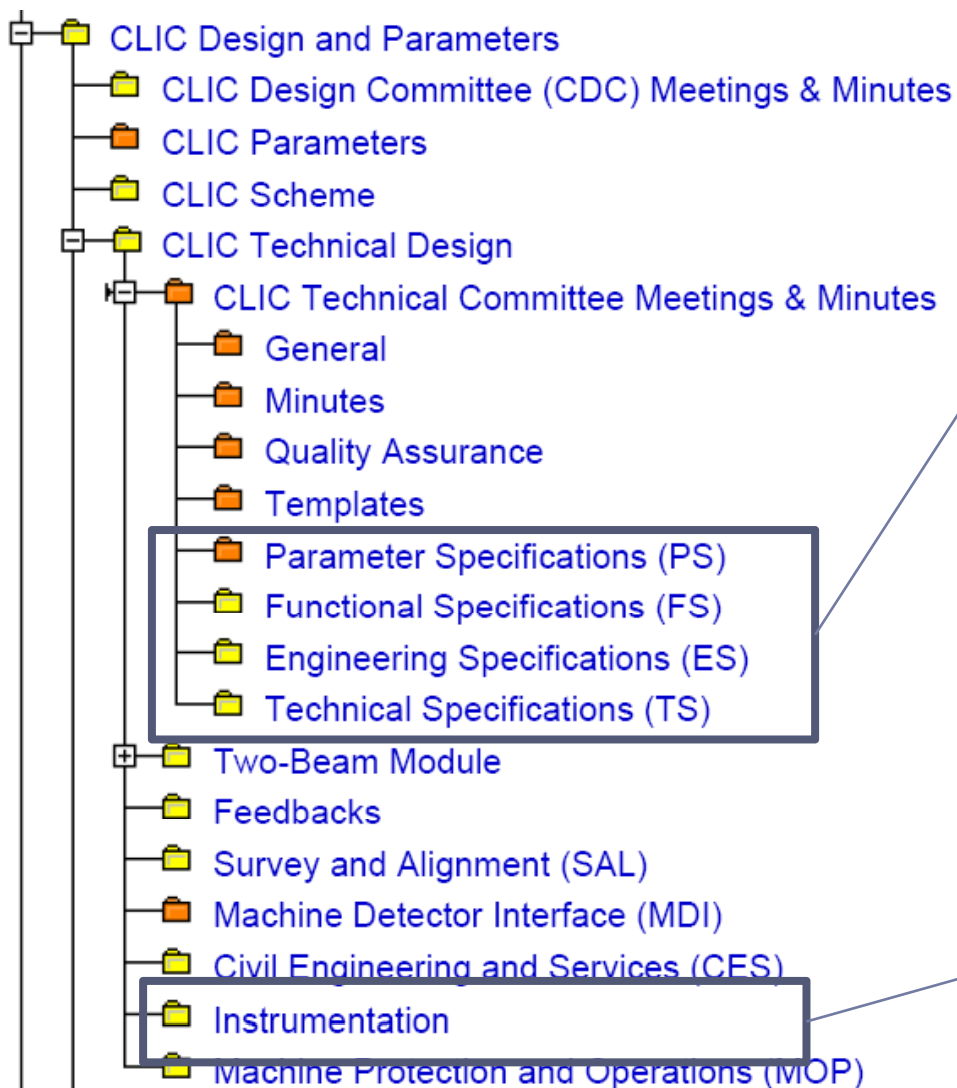
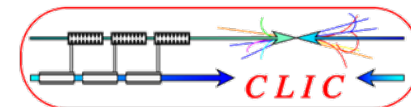




Content



- ▶ Introduction to CERN Product Lifecycle Management
- ▶ CLIC Product Breakdown Structure
- ▶ **CLIC Beam Instrumentation documentation**
- ▶ Beam instrumentation cost estimate
- ▶ Application and relevant EDMS features
- ▶ Conclusions



998580 v.1 CLIC Parameter Specification. Beam Instrumentation for the CLIC Thermoionic gun unpolarized e- **In Work**

EDMS id 998580
No description
[Doc. page](#) Instrumentation_specifications_1.1.1.7 0 sub-doc 1 version
[doc](#) (251 Kb) [Louis RINOLFI](#) 2009-05-07
Engineering Specification

998582 v.1 CLIC Parameter Specification. Beam Instrumentation for the CLIC Primary e- Beam Linac for e+ **In Work**

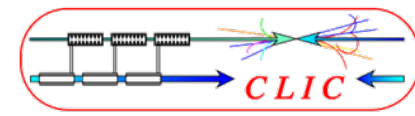
EDMS id 998582
No description
[Doc. page](#) Instrumentation_specifications_1.1.1.2.7 0 sub-doc 1 version
[doc](#) (263 Kb) [Louis RINOLFI](#) 2009-05-07
Engineering Specification

All CLIC specifications are collected in these nodes, and linked to the corresponding node in the HW baseline

Meetings
Workshops
Technical documents
Technical reports
Presentations
(Possibility to create links to Indico)



BI documentation -2



All technical documents are public

CLIC

Reset Set as Top Search Login
GUEST

- Other Test Facilities
- Physics and Detectors
- CLIC Documentation
- Hardware Baseline
 - 1. Main Beam Production
 - 1.1. Injectors
 - 1.1.1. Thermoionic gun unpolarized e-
 - 1.1.1.1. RF System
 - 1.1.1.2. RF Powering System
 - 1.1.1.3. Vacuum System
 - 1.1.1.4. Magnet Powering System
 - 1.1.1.5. Magnet System
 - 1.1.1.6. Cooling System
 - 1.1.1.7. Beam Instrumentation System
 - 1.1.1.8. Supporting System
 - 1.1.1.9. Alignment System
 - 1.1.1.19. Installation
 - 1.1.1.20. Commissioning
 - 1.1.1.21. DC Power Distribution System

EDMS
EDM

1.1.1.7. Beam Instrumentation System

Description: Eq. Code: EDMS Id: AB-002486 v.0 Responsible:	Displayed Compact listing Extended listing Hide obsolete Show obsolete	Sorted by Default Number Creation Date Status
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Documents in this node: 1 Advanced

998580 v.1
CLIC Parameter Specification. Beam Instrumentation for the CLIC Thermoionic gun unpolarized e-
In Work

EDMS Id 998580

No description

[Doc. page](#)

[Instrumentation_specifications_1.1.1.7 doc](#) (251 Kb)

0 sub-doc 1 version

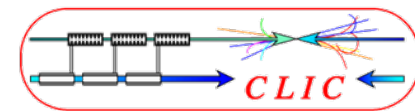
[Louis RINOLFI](#)
 2009-05-07
 Engineering Specification

PS attached to the dedicated HW baseline node
9.06.03 - 08:08:45

EDMS
CLIC @ EDMS



BI Par. Specifications

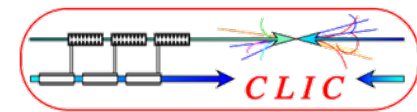


Beam Instrumentation						
CLIC/Two-Beam/Two-Beam Modules//Instrumentation	981987	E. Adli, D. Schulte, L. Søby	Parameter specification - CLIC beam instrumentation - Drive beam BPM	1	19.12.08	Released
CLIC/Two-Beam/Two-Beam Modules//Instrumentation	981988	E. Adli, D. Schulte, L. Søby	Parameter specification - CLIC beam instrumentation - Main beam BPM	1	19.12.08	Released
CLIC/Two-Beam/Two-Beam Modules//Instrumentation	981990	E. Adli, D. Schulte, L. Søby	Parameter specification - CLIC beam instrumentation - Main beam Wake Field Monitor (WFM)	1	19.12.08	Released
CLIC/Main Beam/ Injectors//Instrumentation	998580	Louis Rinolfi	CLIC Parameter Specification. Beam Instrumentation for the CLIC Thermoionic gun unpolarized e-	1	07.05.09	In work
CLIC/Main Beam/ Injectors//Instrumentation	998582	Louis Rinolfi	CLIC Parameter Specification. Beam Instrumentation for the CLIC Primary e- Beam Linac for e+	1	07.05.09	In work
CLIC/Main Beam/ Injectors//Instrumentation	998583	Louis Rinolfi	CLIC Parameter Specification. Beam Instrumentation for the CLIC e-/e+ Target	1	07.05.09	In work
CLIC/Main Beam/ Injectors//Instrumentation	998584	Louis Rinolfi	CLIC Parameter Specification. Beam Instrumentation for the CLIC Pre-injector Linac for e+	1	07.05.09	In work
CLIC/Main Beam/ Injectors//Instrumentation	998585	Louis Rinolfi	CLIC Parameter Specification. Beam Instrumentation for the CLIC DC Gun Polarised e-	1	07.05.09	In work

Complete list of PSs in EDMS: **927865**



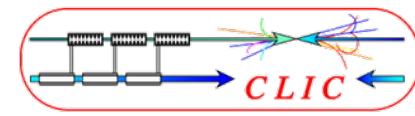
Content



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- ▶ Conclusions



PBS-based cost estimate



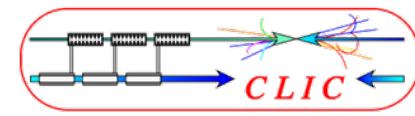
level 0	level 1	level 2	level 3
Project	Beam and Services	Domain	Coordinator
Subdomain 1	1 Main Beam Production	1.1 Injectors	1.1.1. Thermionic gun unpolarized e- 1.1.2. Primary e- beam linac for e+ 1.1.3. e-/e+ Target 1.1.4. Pre-injector Linac for e+ 1.1.5. DC gun Polarised e- 1.1.6. Pre-injector Linac for e- 1.1.7. injector Linac
		1.2 Damping rings	1.2.1. Pre-damping Ring e+ 1.2.2. Pre-damping Ring e- 1.2.3. Damping Ring e+ 1.2.4. Damping Ring e-
		1.3. Beam transport	1.3.1. Bunch Compressor #1 e+ 1.3.2. Bunch Compressor #1 e- 1.3.3. Booster Linac 1.3.4. Transfer to Tunnel e+ 1.3.5. Transfer to Tunnel e- 1.3.6. Long Transfer Line e+ 1.3.7. Long Transfer Line e- 1.3.8. Turnaround e+ 1.3.9. Turnaround e- 1.3.10. Bunch compressor #2 e+ 1.3.11. Bunch compressor #2 e-
	2 Drive Beam Production	2.1 injectors	2.1.1. Linac e+ 2.1.2. Linac e-
		2.2. Frequency Multiplication	2.2.1. Delay Loop e+ 2.2.2. Delay Loop e- 2.2.3. Combiner Ring #1 e+ 2.2.4. Combiner Ring #1 e- 2.2.5. Combiner Ring #2 e+ 2.2.6. Combiner Ring #2 e-
		2.3. Beam transport	2.3.1. Transfer to Tunnel e+ 2.3.2. Transfer to Tunnel e- 2.3.3. Long Transfer Line e+ 2.3.4. Long Transfer Line e- 2.3.5. Turnaround and Bunch Compressor e+ 2.3.6. Turnaround and Bunch Compressor e-
	3 Two-beam accelerator	3.1. Two-beam-modules	3.1.1. Two-Beam Modules Type 0 e+ 3.1.2. Two-Beam Modules Type 1 e+ 3.1.3. Two-Beam Modules Type 2 e+ 3.1.4. Two-Beam Modules Type 3 e+ 3.1.5. Two-Beam Modules Type 4 e+ 3.1.6. Two-Beam Modules Type 0 e- 3.1.7. Two-Beam Modules Type 1 e- 3.1.8. Two-Beam Modules Type 2 e- 3.1.9. Two-Beam Modules Type 3 e- 3.1.10. Two-Beam Modules Type 4 e-
		3.2. Post decelerator	3.2.1. Post Decelerator e+ 3.2.2. Post Decelerator e-
	4 Interaction Region	4.1. Beam Delivery Systems	4.1.1. Beam Delivery System e+ 4.1.2. Beam Delivery System e-
		4.2. Machine-Detector Interface	4.2.1. Experiment A 4.2.2. Experiment B
		4.3. Experimental Area	4.3.1. Common Facilities 4.3.2. Experiment A 4.3.3. Experiment B
		4.4. Post-collision line	4.4.1. Post-collision line e+ 4.4.2. Post-collision line e-
	5 Infrastructure and Services	5.1. Civil Engineering	5.1.1. Underground Facilities 5.1.2. Surface Structures 5.1.3. Site Development
		5.2. Electricity	5.2.1 AC network
		5.3. Access and Communications	5.3.1. Personnel Access Control 5.3.2. Global Accelerator Control 5.3.3. Industrial Control 5.3.4. Data Network
		5.4. Fluids	5.4.1. Water systems 5.4.2. HVAC 5.4.3. Cryogenics 5.4.4. Gas
		5.5. Transport / Installation	5.5.1. Surface and Vertical Shafts 5.5.2. Tunnels and Inclined Shafts
		5.6. Safety	5.6.1. Radiation Safety 5.6.2. Fire Safety
		5.7. Survey	5.7.1. Survey
		5.8. Machine Operation	5.8.1. Machine Operation

Coordinators per domain/subdomain

LEVEL 4 SYSTEM
1 RF System
2 RF Powering System
3 Vacuum System
4 Magnet Powering System
5 Magnet System
6 Cooling System
7 Beam Instrumentation System
8 Supporting System
9 Alignment System
10 Kicker system
11 Cryogenic system
12 Laser system
13 Collimation system
14 Stabilisation system
15 Absorbers
16 Damping system
17 Electron gun
18 RF deflector
19 Installation
20 Commissioning
21 DC Power Distribution System



CLIC study costing tool - 1



20924 modules

8374 type 0 e+ modules

Costing Tool v 0.2

Open | Use estimates from: Highest level possible | Lookup

PBS 3TeV 2007

- 2.5. Beam transport
 - 3. Two-beam accelerator
 - 3.1. Main linacs
 - 3.1.1. Two-Beam Modules Type 0 e+
 - 3.1.1.1. RF System
 - 3.1.1.2. n.a.
 - 3.1.1.3. Vacuum System
 - 3.1.1.4. Magnet Powering System
 - 3.1.1.5. Magnet System
 - 3.1.1.6. Cooling System
 - 3.1.1.7. Beam Instrumentation System
 - 3.1.1.7.1. Main beam BPM
 - 3.1.1.7.2. Drive beam BPM
 - 3.1.1.7.3. Beam loss monitors
 - 3.1.1.7.4. Main beam wakefield m
 - 3.1.1.8. Supporting System
 - 3.1.1.9. Alignment System

General | Input estimates

Domain: Main linacs

Sub-Domain: Two-Beam Modules Type 0 e+

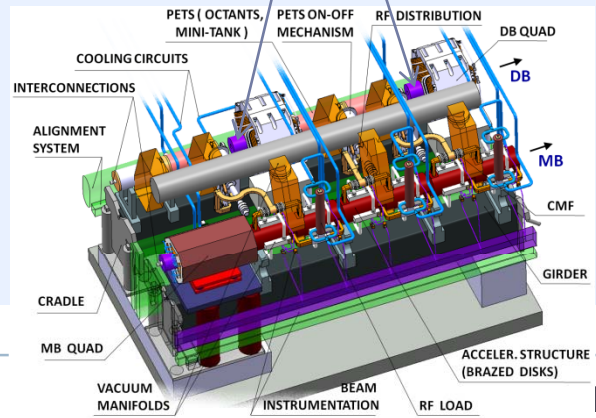
System: Beam Instrumentation System

Name: Drive beam BPM

Multiplicity: 2 **DB BPMs per Type 0 e+ module**

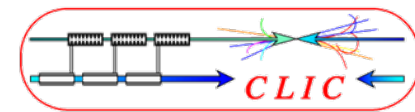
[EDMS Link to element documentation:](#)

Date of the estimate: 14/12/2007





CLIC study costing tool -2



Costing Tool v 0.2

Open Use estimates from: Highest level possible Lookup

PBS 3TeV 2007

Name

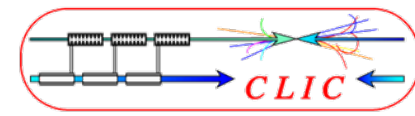
- 2.3. Beam transport
- 3. Two-beam accelerator
 - 3.1. Main linacs
 - 3.1.1. Two-Beam Modules Type 0 e+
 - 3.1.1.1. RF System
 - 3.1.1.2. n.a.
 - 3.1.1.3. Vacuum System
 - 3.1.1.4. Magnet Powering System
 - 3.1.1.5. Magnet System
 - 3.1.1.6. Cooling System
 - 3.1.1.7. Beam Instrumentation System
 - 3.1.1.7.1. Main beam BPM
 - 3.1.1.7.2. Drive beam BPM
 - 3.1.1.7.3. Beam loss monitors
 - 3.1.1.7.4. Main beam wakefield m
 - 3.1.1.8. Supporting System
 - 3.1.1.9. Alignment System
 - 3.1.1.10. n.a.
 - 3.1.1.11. n.a.

General **Input estimates**

Property	Unit	Estimate	Technica...	Comments / references
Duration	years	0.00		
Material cost	CHF	0.00		
Manpower - Tech.	man-years	0.00		
Manpower - Eng.	man-years	0.00		
Procurement				
Start date (relative to project start)	years	0.00		
Duration	years	0.00		
Fixed cost	CHF	0.00		
Proportional cost	CHF			
Manpower - Tech.	man-years	0.00		
Manpower - Eng.	man-years	0.00		
Reception				
Start date (relative to project start)	years	0.00		
Duration	years	0.00		
Fixed cost	CHF	0.00		
Proportional cost	CHF	0.00		
Manpower - Tech.	man-years	0.00		
Manpower - Eng.	man-years	0.00		



Input estimates

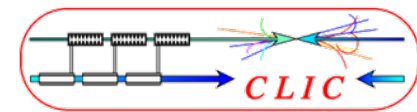


Input estimates		Estimate	Uncertainty	Comments/references
Industrialisation and tendering				
	Material cost	[currency]		
	Manpower - Tech.	[FTE]		
	Manpower - Eng.	[FTE]		
Procurement				
	Fixed cost	[currency]		
	Proportional cost	[currency]		
	Manpower - Tech.	[FTE]		
	Manpower - Eng.	[FTE]		
Reception				
	Fixed cost	[currency]		
	Proportional cost	[currency]		
	Manpower - Tech.	[FTE]		
	Manpower - Eng.	[FTE]		
Glossary				
Tendering: design, qualification tests prior to tech. specification, technical specification, tendering, contract adjudication				
Procurement: fabrication, including assembly and QA, of components. In case of doubt, please add cost estimates into the "procurement" category.				
Material: raw material				
Fixed cost: non-recurrent cost (buildings, tooling,...)				
Man-power - Eng. & Tech.: man-power provided by the laboratory				
Reception: activity done at CERN before installation				
Uncertainty categories				
C1:	known technology			
C2:	extrapolation from known technology			
C3:	R&D is required			

1. First round of updated cost estimate by end of 2009.
2. Input on schedule will be provided by T. Lefevre
3. T. Lefevre will collect all input for the BI cost estimate.
4. The domain/subdomain coordinators will put the values in the CLIC study costing tool



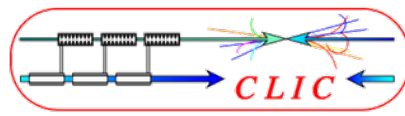
Content



- ▶ Introduction to CERN Product Lifecycle Management
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- ▶ Conclusions



Example of a EDMS document - 1



EDMS Web Navigator - Windows Internet Explorer provided by CERN

https://edms.cern.ch/cedar/plsql/navigation.select_tree?cookie=8059887&p_node_id=1053048241&p_open_node_id=...

File Edit View Favorites Tools Help

Google Search

EDMS Web Navigator

CLIC

Reset Set as Top Search Re-login
RIDDONE

EDMS Critical Items User: RIDDONE

Description:
Eq. Code:
EDMS Id: **AB-003143 v.0**
Responsible:

Displayed: Compact listing, Extended listing, Hide obsolete, Show obsolete
Sorted by: Default Number, Creation Date, Status

Documents in this node: 1 [Creates Doc.](#) [Advanced](#)

918791 v.6	LIST OF CRITICAL ISSUES	In Work
EDMS Id 918791		
No description		
Doc. page	list-open-points_all_CLIC_ver05012009	0 sub-doc 6 versions
	xlsx (20 Kb)	Germana RIDDONE
		2009-01-06
		Report - Technical

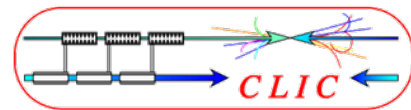
EDMS CERN EDMS 4.0 ©CERN - 2009.01.21 - 10:18:08

[CLIC @ EDMS](#)

- Critical Items
 - Related Documentation
 - CLIC Notes
 - Workshop
 - Conferences
 - Outreach
 - Hardware Baseline
 - 1. Main Beam
 - 1.1. Injectors
 - 1.1.1. Thermoionic gun unpola
 - 1.1.2. Primary e- Beam Linac
 - 1.1.3. e-/e+ Target
 - 1.1.3.1. Vacuum System
 - 1.1.3.2. Magnet System
 - 1.1.3.3. Powering System
 - 1.1.3.4. Cooling System
 - 1.1.3.5. Beam Instrumenta
 - 1.1.3.6. Supporting System
 - 1.1.3.7. Alignment System
 - 1.1.4. Pre-injector Linac for e+
 - 1.1.4.1. RF System
 - 1.1.4.2. RF Powering Syst
 - 1.1.4.3. Vacuum System



Example of a EDMS document -2



EDMS Document Information Page EDMS Portal | Navigator | Search | Help | Caddie | Logout
 User: RIDDONE

Number:	918791	ver. 6
EDMS Id:	918791	
In Work		

LIST OF CRITICAL ISSUES
[Germana RIDDONE](#)
 Report - Technical
 2009-01-06

PUBLIC

Summary | Sub-Documents | Approval & Comments | Used in | Access Rights | Versions & other info

Actions: [Edit](#) | [Put File](#) | [Set reservation](#) | [Delete File](#) | [Delete Doc.](#) | [Add to caddie](#) | [Notify](#) | [Clone](#)

Description, External Reference and Keywords

Description

External Reference

Keywords

Files of the Document

list-open-points_all_CLIC_ver05012009 [xlsx](#) (20 Kb)

Sub-Documents

Associated URL (CDD Drawing Folder, Library...)

Context

What's next ? Change Status action expected from the originator, once all the files have been uploaded.

Context CLIC-TC: CLIC Technical Committee Documents

Release Procedure Simple document release procedure

Equipment Code -

EDMS Hyperlinks

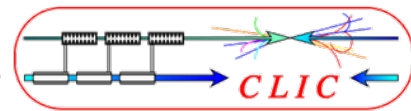
This page <https://edms.cern.ch/document/918791/6>

File(s) list-open-points_all_CLIC_ver05012009.[xlsx](#) https://edms.cern.ch/file/918791/6/list-open-points_all_CLIC_ver05012009.xlsx

Several files can be uploaded in a EDMS document (max 100 Mb)



Example of a EDMS document -3



Number:	918791	ver.6
EDMS Id:	918791	
In Work		

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Summary | Sub-Documents | Approval & Comments | Used in | Access Rights | Versions & other info

Actions: [New...](#) | [Detach](#) | [Add all to Caddie](#)

983763 v.1 CLIC Note 764 In Work

EDMS Id 983763

CLIC 2008 Parameters / Braun, H (CERN) ; Corsini, R (CERN) ; Delahaye, J P (CERN) ; de Roeck, A (CERN) ; Döbert, S (CERN) ; Ferrari, A (Uppsala U.) ; Geschonke, Günther (CERN) ; Grudiev, A (CERN) ; Hauviller, Claude (CERN) ; Jeanneret, B (CERN) et al.

[Doc. page](#) 0 sub-doc 1 version

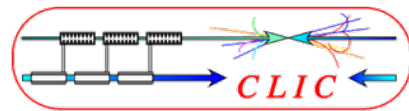
[CLIC NOTE 764 - Link to CDS](#)

[Germana RIDDONE](#)
2009-01-21
Report - Technical

Possibility to attach EDMS documents as sub-documents



Example of a EDMS document -4



EDMS Document Information Page EDMS Portal | Navigator | Search | Help | Caddie | Logout
 User: **RIDDONE**

Number:	918791	ver. 6
EDMS Id:	918791	
In Work		

LIST OF CRITICAL ISSUES
[Germana RIDDONE](#)
 Report - Technical
 2009-01-06

PUBLIC

- Summary
- Sub-Documents
- Approval & Comments
- Used in
- Access Rights
- Versions & other info

Actions: [Change Status](#) |

Current situation & next steps [Hide](#)

Current status of this Version is **In Work**.
 Change Status action expected from the originator, once all the files have been uploaded.
Note: the document cannot be released if one of the sub-documents is not released.

Files of the document and associated URL

list-open-points_all_CLIC_ver05012009 [xlsx](#) (20 Kb)

Status History & Comments

Created by Germana RIDDONE on 2009-01-06, 10:47

EDMS Hyperlinks

This page <https://edms.cern.ch/document/918791/6/TAB3>

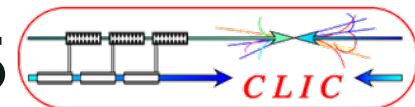
Documents have one life-cycle and depending on where they are in the life-cycle they have a corresponding status. The *standard* lifecycle for a document is

- In-Work
- Under-Approval
- Released and
- Obsolete

Once a document has been approved, it can be modified only via a versioning process
 Other lifecycles can be programmed if required.



Example of a EDMS document -5



Number:	918791	ver.6
EDMS Id:	918791	
In Work		

LIST OF CRITICAL ISSUES
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 2009-01-06

PUBLIC

Summary | Sub-Documents | Approval & Comments | Used in | **Access Rights**

View: **Overview** | Detailed rights | Basic rights

Read access granted to
 The whole World (public Document)

Write access granted to
 Owner of the Document
 Germana RIDDONE

Group CLIC-TC **Show**

Delete access granted to
 Owner of the Document
 Germana RIDDONE

Group CLIC-TC **Show**

Next Status change
 Persons allowed to perform the next change of Status **Show**

Disclaimer

*Access rights shown here depend on various parameters such as the Document Status.
 This information is valid only at the time indicated in the footer of this page and may evolve with the Document's lifecycle.*

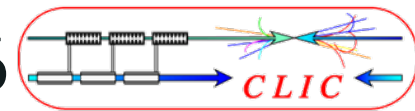
For all CLIC nodes (except nodes on cost and CSC)

- WRITE: CLIC meeting members (can be adapted)
- READ: public access

Nodes on cost and CSC: restricted read/write access



Example of a EDMS document -6



Number: 918791	ver.6	LIST OF CRITICAL ISSUES Germana RIDDONE	PUBLIC
EDMS Id: 918791	In Work		

Summary | Sub-Documents | Approval & Comments | Used in | Access Rights | **Versions & other info**

Versions of the Document

918791 v.6	LIST OF CRITICAL ISSUES	In Work
EDMS Id 918791		
No description		
Doc. page	list-open-points_all_CLIC_ver05012009	1 sub-doc 6 versions
	xlsx (20 Kb)	Germana RIDDONE 2009-01-06 Report - Technical
918791 v.5	LIST OF CRITICAL ISSUES	Obsolete
EDMS Id 918791		
No description		
Doc. page	list-open-points_all_CLIC_ver15102008	0 sub-doc 6 versions
	xlsx (20 Kb)	Germana RIDDONE 2008-10-28 Report - Technical

This tab shows the list of other existing versions of the document, and its full history, including notifications.

918791 v.4	LIST OF CRITICAL ISSUES	Obsolete
EDMS Id 918791		
No description		
Doc. page	list-open-points_all_CLIC_ver09102008	0 sub-doc 6 ver
	xlsx (20 Kb)	

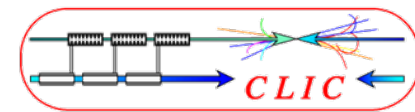
918791 v.1	LIST OF CRITICAL ISSUES	Obsolete
EDMS Id 918791		
No description		
Doc. page	list-open-points xlsx (18 Kb)	0 sub-doc 6 versions
		Germana RIDDONE 2008-05-20 Report - Technical

Full History of this version

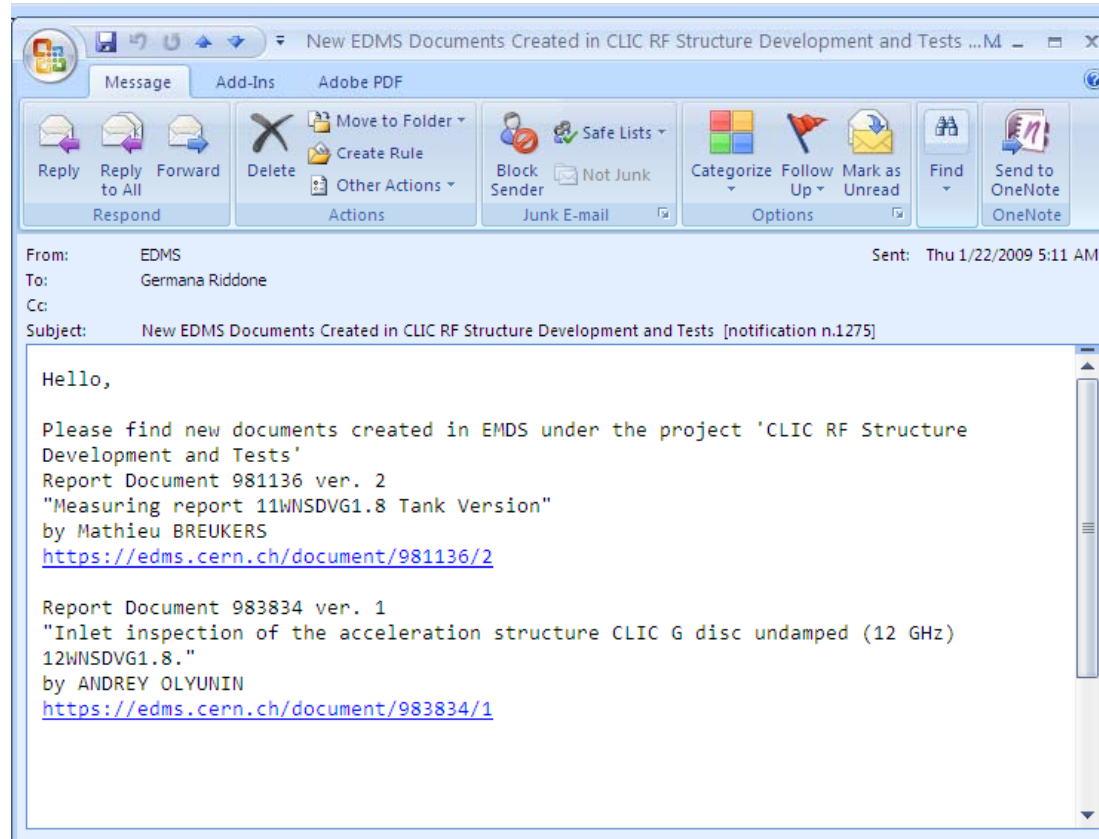
2009-01-06 10:47:32	Germana RIDDONE Document registration
2009-01-06 10:47:34	Germana RIDDONE simple update
2009-01-06 10:47:36	Germana RIDDONE Previous version set to old
2009-01-06 10:48:14	Admin EDMS delete list-open-points_all_CLIC_ver15102008.xlsx
2009-01-06 10:49:04	Germana RIDDONE initial check-in list-open-points_all_CLIC_ver05012009.xlsx
2009-01-06 10:49:05	Germana RIDDONE insert list-open-points_all_CLIC_ver05012009.xlsx
2009-01-22 05:24:08	Germana RIDDONE Notification Show



Notification e-mail list

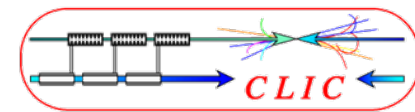


- ▶ Possibility to ask for e-mail daily notification list → list of EDMS documents created the day before





Conclusions



- ▶ We are getting organized towards a project-oriented structure
- ▶ EDMS as unique source of information
- ▶ Tree structure set-up for CLIC documentation in EDMS (can be used by CERN people and external collaborators)
- ▶ All BI documentation will be available in EDMS: all PS have been archived and the approval circuit will be soon launched (collaborators will be largely involved)
- ▶ Update cost estimate will be needed for CDR: first iteration by end of 2009 (still possibility to give feedback to technical systems)