

Project Convert Control

Nirmal Krishnan, Tuomas Simula

Our project

- Work as part of the TE-EPC-CCS team (converter control software section)
- Design the UI for the FortLogs archive browser of the PowerSpy application
 - Save data from FGCs (function generator controller) and project MIDAS
 - FGCs control the power converters of the magnets in the particle accelerators
 - MIDAS is an API used to acquire data from various instruments
 - PowerSpy is a tool for visual analysis of FGC data
- Our tools
 - regular pen and paper
 - Figma interface design software

Delete
Export Logs

Add Signals

FGCs MIDAS Acquisitions Archive

User Procedure Period Tag

Results Search Add Selected Order by

Calibrate Temperature @ 18/06/2019 - 17h36	annie	Nightly test during LS2, ran at 300 K for FGC in room 866-1-A	LS2	...
✓ Calibrate Zenner				
✓ read dvm				
● streaming				
Calibrate Temperature @ 18/06/2019 - 17h32	nulauren			
✓ Calibrate Zenner				
✓ read dvm				
✓ streaming				
Calibrate Temperature @ 18/06/2019 - 12h47	nulauren			
✓ Calibrate Zenner				
✓ read dvm				
✓ streaming				
Calibrate Temperature @ 18/06/2019 - 12h47	nulauren			
✓ Calibrate Zenner				
✓ read dvm				
✓ streaming				
Calibrate Temperature @ 18/06/2019 - 12h47	nulauren			
✓ Calibrate Zenner				
✓ read dvm				
✓ streaming				
Calibrate Temperature @ 18/06/2019 - 12h47	nulauren			
✓ Calibrate Zenner				
✓ read dvm				
✓ streaming				

Date
Name
Tag
User

⌵

Calibra Tempera...
Rearm Function
Zenner Cal
Zenner Test

annie
bob
chris
dean

Last 24h
1 Week
2 Weeks
1 Month
3 Months
6 Months
Custom Range

LS1
LS2
CMS

Add Logs



Browse Devices

Search Results

Search device (regex)



ADE	▶	▶	Calibration	▶	▶	cfc-866-reth1	▶	▶	RFMAG.866.19.ETH1	▶	▶	❌	▶	▶	ACQ	▶
CCR	▶	▶	FGC2	▶	▶	cfc-866-reth2	▶	▶	RFNA.866.01.ETH1	▶	▶	❌	▶	▶	ACQ_FLTR	▶
CPS	▶	▶	FGC3	▶	▶		▶	▶	RFNA.866.02.ETH1	▶	▶	❌	▶	▶	TIMING	▶
Development	▶	▶	FGCD	▶	▶		▶	▶	RFNA.866.03.ETH1	▶	▶	✅	▶	▶	MEAS	▶
ELENA	▶	▶	FGClite	▶	▶		▶	▶	RFNA.866.04.ETH1	▶	▶	✅	▶	▶	FAST_MEAS	▶
ISOLDE	▶	▶	ISEG	▶	▶		▶	▶	RFNA.866.05.ETH1	▶	▶	❌	▶	▶	I_EARTH	▶
LEIR	▶	▶	Mugef	▶	▶		▶	▶	RFNA.866.06.ETH1	▶	▶	✅	▶	▶	TEMP	▶
LHC	▶	▶		▶	▶		▶	▶	RFNA.866.07.ETH1	▶	▶	✅	▶	▶	ST_FLTS	▶
LHC_Calibration	▶	▶		▶	▶		▶	▶	RFNA.866.08.ETH1	▶	▶	❌	▶	▶	SUB1	▶
LN4	▶	▶		▶	▶		▶	▶	RFNA.866.11.ETH1	▶	▶	❌	▶	▶	SUB2	▶
NORTH	▶	▶		▶	▶		▶	▶	RFNA.866.12.ETH1	▶	▶	✅	▶	▶	EVENTS	▶
PSB	▶	▶		▶	▶		▶	▶	RFNA.866.14.ETH1	▶	▶	❌	▶	▶	CONFIGURATION	▶
SPS	▶	▶		▶	▶		▶	▶	RFNA.866.18.ETH1	▶	▶	❌	▶	▶		▶
SVC	▶	▶		▶	▶		▶	▶	RFNA.866.22.ETH1	▶	▶	❌	▶	▶		▶
Test_EPC	▶	▶		▶	▶		▶	▶	RPAAL.866.17.ETH1	▶	▶	❌	▶	▶		▶
Test_Magnet	▶	▶		▶	▶		▶	▶	RPAAO.866.09.ETH1	▶	▶	❌	▶	▶		▶
Test_Reception	▶	▶		▶	▶		▶	▶	RPADO.866.16.ETH1	▶	▶	❌	▶	▶		▶
Validation	▶	▶		▶	▶		▶	▶	RPAGM.866.21.ETH1	▶	▶	✅	▶	▶		▶
									RPAGC.866.25.ETH1	▶	▶	❌	▶	▶		▶

Selected Logs: 0

Clear

Add

user
useless,
can be
searched?

Add Signals

FGCS |
 MIDAS Acquisitions |
 Archive

User ▼ Procedure ▼ Period ▼ Tag ▼ Order by ▼

▼ Calibrate	temperature	@ 73/06/2019-77h36	annie	comment...	tag	...
▼ Procedure		time	user	comment...	tag	...
▲ Procedure		time	user	comment	tag	...
~ Calibrate	Zenner			comment		
~ read dvm				comment		
~ streaming						
▼ ● Procedure		time	user	comment	tag	...
▲ ● Procedure		time	user	comment	tag	...
~ calibrate	Zenner					
~ read dvm						
● streaming						
▼ Procedure		time	user(me)	<input type="button" value="add comment"/>	<input type="button" value="add tag"/>	...

Selected signals: 0

Search by

- users
- comments
- tag
- time
- use regex

lisättyinä oikeudet kertova merkki → write jne

Filter

PowerSpy | **Logger** | Midas

Device

Buffer

User

From

To

Tags

Search

Filter

PowerSpy | **Logger** | Midas

Device

Buffer

Fault Type

From

To

Tags

Search

Filter

PowerSpy | **Logger** | Midas

Script

Buffer

User

From

To

Tags

Search

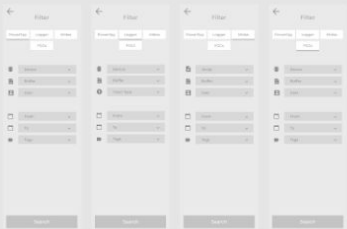
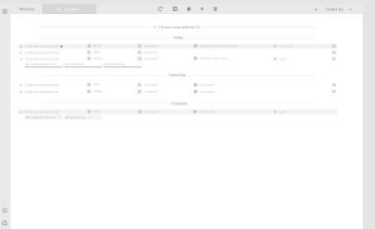
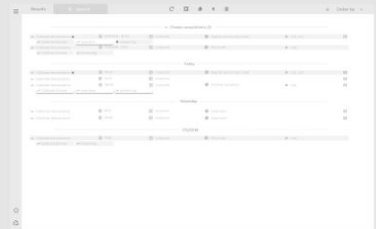
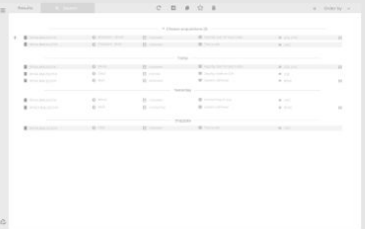
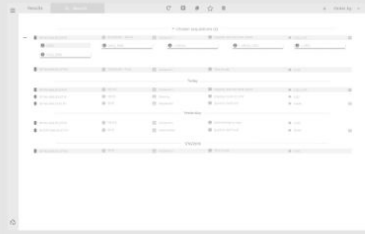
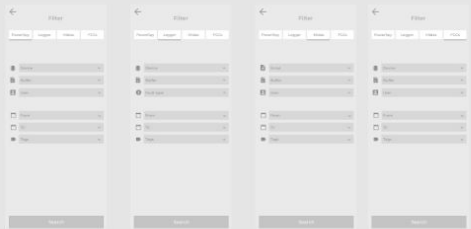
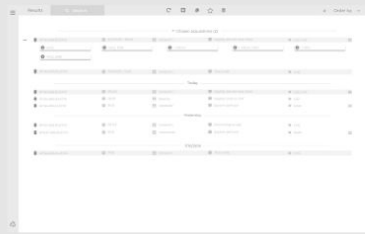
Results

Search Order by

Chosen acquisitions (1)

RFNA.866.01.ETH1	16N43	mlulauren	Nightly test for test crate	LS2.LHC	
Today					
RFNA.866.03.ETH1	13N21	jberniq	Deploy code to GW	LS2	
RFNA.866.12.ETH1	9N21	kekessler	System defined	RAW	
Yesterday					
RFNA.866.01.ETH1	16N43	mlulauren	Something to say	LHC	
RPZET.866.20.ETH1	9N21	cmwischer	System defined	RAW	

- 1. Home
- 2. Home
- 3. Home
- 4. Home
- 5. Home
- 6. Home
- 7. Home
- 8. Home
- 9. Home
- 10. Home
- 11. Home
- 12. Home
- 13. Home
- 14. Home
- 15. Home
- 16. Home
- 17. Home
- 18. Home
- 19. Home
- 20. Home
- 21. Home
- 22. Home
- 23. Home
- 24. Home
- 25. Home
- 26. Home
- 27. Home
- 28. Home
- 29. Home
- 30. Home
- 31. Home
- 32. Home
- 33. Home
- 34. Home
- 35. Home
- 36. Home
- 37. Home
- 38. Home
- 39. Home
- 40. Home
- 41. Home
- 42. Home
- 43. Home
- 44. Home
- 45. Home
- 46. Home
- 47. Home
- 48. Home
- 49. Home
- 50. Home
- 51. Home
- 52. Home
- 53. Home
- 54. Home
- 55. Home
- 56. Home
- 57. Home
- 58. Home
- 59. Home
- 60. Home
- 61. Home
- 62. Home
- 63. Home
- 64. Home
- 65. Home
- 66. Home
- 67. Home
- 68. Home
- 69. Home
- 70. Home
- 71. Home
- 72. Home
- 73. Home
- 74. Home
- 75. Home
- 76. Home
- 77. Home
- 78. Home
- 79. Home
- 80. Home
- 81. Home
- 82. Home
- 83. Home
- 84. Home
- 85. Home
- 86. Home
- 87. Home
- 88. Home
- 89. Home
- 90. Home
- 91. Home
- 92. Home
- 93. Home
- 94. Home
- 95. Home
- 96. Home
- 97. Home
- 98. Home
- 99. Home
- 100. Home



Dashboard view showing a list of tasks with columns for Name, Status, and Priority. The tasks are: 'Check system logs', 'Update software', 'Review user feedback', 'Test new feature', 'Deploy to production', 'Monitor server health', 'Backup data', and 'Review analytics'. Each task has a status icon and a priority indicator.

Dashboard view showing a list of tasks with columns for Name, Status, and Priority. The tasks are: 'Check system logs', 'Update software', 'Review user feedback', 'Test new feature', 'Deploy to production', 'Monitor server health', 'Backup data', and 'Review analytics'. The 'Review analytics' task is highlighted in blue.

Dashboard view showing a list of tasks with columns for Name, Status, and Priority. The tasks are: 'Check system logs', 'Update software', 'Review user feedback', 'Test new feature', 'Deploy to production', 'Monitor server health', 'Backup data', and 'Review analytics'. The 'Review analytics' task is highlighted in blue.

Dashboard view showing a list of tasks with columns for Name, Status, and Priority. The tasks are: 'Check system logs', 'Update software', 'Review user feedback', 'Test new feature', 'Deploy to production', 'Monitor server health', 'Backup data', and 'Review analytics'. The 'Review analytics' task is highlighted in blue.

Dashboard view showing a list of tasks with columns for Name, Status, and Priority. The tasks are: 'Check system logs', 'Update software', 'Review user feedback', 'Test new feature', 'Deploy to production', 'Monitor server health', 'Backup data', and 'Review analytics'. The 'Review analytics' task is highlighted in blue.

Dashboard view showing a list of tasks with columns for Name, Status, and Priority. The tasks are: 'Check system logs', 'Update software', 'Review user feedback', 'Test new feature', 'Deploy to production', 'Monitor server health', 'Backup data', and 'Review analytics'. The 'Review analytics' task is highlighted in blue.

Dashboard view showing a list of tasks with columns for Name, Status, and Priority. The tasks are: 'Check system logs', 'Update software', 'Review user feedback', 'Test new feature', 'Deploy to production', 'Monitor server health', 'Backup data', and 'Review analytics'. The 'Review analytics' task is highlighted in blue.



Dashboard view showing a list of tasks with columns for Name, Status, and Priority. The tasks are: 'Check system logs', 'Update software', 'Review user feedback', 'Test new feature', 'Deploy to production', 'Monitor server health', 'Backup data', and 'Review analytics'. The 'Review analytics' task is highlighted in blue.

Dashboard view showing a list of tasks with columns for Name, Status, and Priority. The tasks are: 'Check system logs', 'Update software', 'Review user feedback', 'Test new feature', 'Deploy to production', 'Monitor server health', 'Backup data', and 'Review analytics'. The 'Review analytics' task is highlighted in blue.

Dashboard view showing a list of tasks with columns for Name, Status, and Priority. The tasks are: 'Check system logs', 'Update software', 'Review user feedback', 'Test new feature', 'Deploy to production', 'Monitor server health', 'Backup data', and 'Review analytics'. The 'Review analytics' task is highlighted in blue.

Search

Device ▾

Buffer ▾

User ▾

2019 / 10 / 01 - 2019 / 10 / 16

Calendar for Oct 2019 showing dates from 1 to 31. The 1st is highlighted in red. Navigation arrows are visible at the top of the calendar.

Search

Chosen acquisitions (1)

✓ Calibrate temperature ●
🕒 16/10/2019 - 16h45 👤 nulauren 🟢 LS2, LHC 🟢 *Nightly test for test crate* ▾

Today

📄 Calibrate temperature ●
🕒 8h43 👤 nulauren 🟢 LS2, LHC 🟢 *Another comment* ▾

📄 Calibrate temperature
🕒 12h12 👤 nulauren ▾

Yesterday

📄 Calibrate frequency
🕒 9h15 👤 nkrishna 🟢 *Morning test* ▾

📄 Testing ultraheavy isotopes
🕒 16h45 👤 tsimula 🟢 ISOLDE, REX ▾

13/10/2019

📄 Calibrate temperature
🕒 16h20 👤 rrouvinen 🟢 AD, LEP 🟢 *Testing antimatter drives* ▾

📄 Calibrate temperature
🕒 16h20 👤 rrouvinen 🟢 AD, LEP 🟢 *Testing antimatter drives* ▾

Thank you

supervisor Joni Herttuainen

Nuno Mendes

rest of the TE-EPC-CCS team