Guide: Serial number change for BLECF

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1. Discover the new serial

In general, the person responsible for the exchange of the card has the serial number since it is printed on the front panel.

As soon as the card is installed and starts transmitting data, we can double check. From the Status application we check that the serial read online from the card is correct, i.e. equal to the one installed.

NOTE: the example covers the exchange of the BLECF serial in the crate SR6.R and card 9 A

VCFV-SRE	5-BLMR - FI	BRE CONNEG	TIONS - St	atus														
Eile																		
	14.07.2011 10:50:56																	
Name	Dump A	Dump B	L1 CRC	L1 CRC	L2 CRC	L2 CRC	CRC Comp	CRC Comp	CID Comp	. CID Comp	FID Comp	. FID Comp	L1 Lost A	L1 Lost B	L2 Lost A	L2 Lost B	CID A	CID B
Card 01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	198	165
Card 02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	159	542
Card 03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	164	147
Card 04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	527	730
Card 05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	532	569
Card 06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	274	301
Card 07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	563
Card 08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	566	295
Card 09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	242	540
Card 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	234	555
Card 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	564	value = 242
Card 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	561
Card 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	565	210
Card 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154	356
Card 15	0	0	0	0	0	0	0	0	0	0	0	0	0	65535	0	65535	176	0
Card 16	Not Pres	Not Pres	Not Pres	Not Pres	Not Pres	Not Pres	Not Present	Not Pres	Not Pres	Not Pres	Not Pres	Not Pres	. Not Pres					
<u> </u>																		
																		7

2. Insert serial in the database

2.1. Internal parameters application

The internal parameters application allows the insertion of settings in the database.

a) Start the internal parameters application from the following url:

http://bdidev1/bdisoft/operational/applauncher.php?launch=BLMInternalParametersApp V2

b) First window asks to choose the database:



c) Select the "**Operational**" and choose the appropriate Access Role:



d) You need the MCS-BLMInternalPiquet selected only.

🕌 RBAC Role Picker	×
Select Roles You Want To Use:	
BI-BLM-EXPERT	Ì
MCS-BLMInternalPiquet	
MCS-BLMexpert	
MCS-BLMuser	
Clear Revert All Cancel	
Done	
20110	

Application starts and the interface present:

- tabs with groups of parameters,
- a set of buttons for the propagations between tables.

Note: the database uses staging for introduction of data.

BLM Internal Parameters	version: 2011	0310152403 *** OPERATI	DNAL *** DB						
File Help					🔟 🔻 RBA: czam				
Compare stage wi	th final	Stage -> Final		Final -> Master	Final -> Stage				
Accelerator Mode:		PROTPHYS		Beam 1 Present:	NO				
Beam Mode:		NOBEAM		Beam 2 Present:	NO				
Common parameters	arameters per IF	Parameters per Monitor	Serial Numbers	Master view					
Stage									
BLECS_FIRM_V	2685754	199							
BLETC_FIRM_V	2853522	202							
CONV_FACTOR_HV	.045776	3671874							
CONV_FACTOR_MOD_GAIN	1								
CONV_FACTOR_MOD_PERI	OD .002047								
CONV_FACTOR_MOD_PHA	SE 2								
CONV_FACTOR_MOD_VOL	TAGE 3.90666	666666666666666666666666666666666666666	3666666667E-02						
Final									
BLECS_FIRM_V	2685754	199							
BLETC_FIRM_V	2853522	35352202							
CONV_FACTOR_HV	.045776	3671874							
CONV_FACTOR_MOD_GAIN	1								
CONV_FACTOR_MOD_PERI	OD .002047	JU2041							
CONV_FACTOR_MOD_PHA	SE 2 TACE 2.00666		2000000075 00						
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Log									
[14-01-2011 10-42 Mm][CC	aumon paramete	raji roperty conte_i actort_i	100_1 E1100 MIGH 4	unic 1002041 was correctly apaared					
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[14-07-2011 10:42 AM]{Pai [14-07-2011 10:42 AM]{Pai	rameters per mor	itor}Reaung data rom Final t itor}done	aure						
		<i>,</i>			•				

- e) Press button "Final -> Stage"
- f) Choose "Serial Numbers" tab
- g) Select the crate

Com	pare stage with final		Sta	pe -> Final	Final -	> Master	Final > Stage
Accelerator Mode:		PROTE	IN	94	Ream 1 Drossed		NO.
Beam Mode:		NOBE	AM		Beam 2 Present		ND
Common parameters	Parameters per IP Para	meters per Monitor	Serial Numbers	Master view			
				earch Crate: NO BLM SRE	0		
C.BLM.SR6.C							
C.BLM.SR61							
IC.BLM.SR6.R							
C.RI M.SR7.C							
C BI M SR7 F							
C DI M SD71							
0.01.11.003.0							
Stage							
				BLECF1		BLECF2	BLETC
Card 1			198		165		7926335405143564033
Card 2			159		542		6701356306499622145
Card 3			164		147		7349874652840896257
Card 4			527		730		13114482175875650817
Card 5			532		569		6124895554196600577
Card 6			2/4		301		15348267591048020481
Gard 7			19		563		504403219237901825
Card 8			000		C95		113850599918961443329
Card 10			234		540		1369094347092030943
Card 10			2.34		657		7005717002051405125
Card 12			63		561		0646011345524087207
				BLECS: 6	124895551499711233		
Final							
				BLECF1		BLECF2	BLETC
Card 1			198		165		7926335405143564033
Card 2			159		542		6701356306499622145
Card 3			164		147		7349874652840896257
Card 4			527		730		13114482175875650817
Card 5			532		569		6124895554196600577
Card 6			2/4		301		15348267591048020481
Card 7			19		202		504403219237901025
Card 9			669		510		1150509910901445529
Card 10			234		666		9655717662051465729
Card 11			564		557		720576001351863041
Card 12			63		561		8646911345524087297
				BLECS: 6	124895551499711233		
Log							
Log 14-07-2011 10-45 AM 14-07-2011 10-45 AM	Centar Nambers (Herauling, Serial Nambers), Reading di Serial Nambers), John Serial Nambers (Final taxes), Serial Nambers (Reading, Serial Nambers), Reading, Serial Nambers), Reading, Serial Nambers), Reading Serial Nambers), Seriading di Serial Nambers), Seriading di Serial Nambers (Final taxbos).	sta from Stage table fo sta from Final table for done sta from Stage table fo sta from Final table for done	r crate: null crate: null r crate: HC.BLM.SRI crate: HC.BLM.SRB	IR			

h) Change the serial

File Help							* RBA: czał
Com	pare stage with final	s	age -> Final	Final-	> Master	Final → Stage	
Accelerator Mode:		PROTPHYS	S40	Beam 1 Present:	-	NO	
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Common parameters	Parameters per IP Parame	ters per Monitor Serial Numbers	Master view	train training			
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IC.BLM.SR6.C							
IC.BLM.SR61							_
AC DI M SPID P							-
AC DI M SD7 E							
AC RI M SR71							
10 01 11 00 10							
Stage							
profile.			BLECF1	T	BLECF2	BLETC	T
Card 1		198	ACR04 517.1	165	State of a	7926335405143564033	-
Card 2		159		542		6701356306499622145	
Card 3		164		147		7349874652840896257	
Card 4		527		739		131144821/56560001/	
Card 6		274		301		15348267591048020481	
Card 7		19		563		504403219237901825	
Card 8		566		295		11385099918961443329	
Card 9		242		540		1369094347692050945	-
Card 10		234		555		9655717662051465729	
Card 11		564		557		720576001351063041	
Cara 12			BLECS: 612	4895551499711233		1010311343321001207	-
Final							
			BLECF1		BLECF2	BLETC	
Card 1		198		165		7926335405143564033	-
Card 2		159		542		6701356306499622145	
Gard 3		104		147		7349574652540536257	
Card 5		532		569		6124895554196600577	
Card 6		274		301		15348267591048020481	
Card 7		19		563		504403219237901825	1.1
Card II		566		295		11385099918961443329	
Card 9		669		510		1369094347692050945	
Card 10		661		535		200576004064064064044	
Card 12		63		561		8646911345524087297	1 2
			BLECS: 612	4895551499711233			1
100							
14-01-2011 10.46 /081	oenal numbers). Heading data i	rom stage table for crate molt.					
14-07-2011 10:45 AM]	(Serial Numbers)done						i
[14-07-2011 10:46 AM]	Serial Numbers] Reading data f	from Final table for crate: null					
[14-07-2011 10:46 AM]	(Senal Numbers(Final Lable))dor (Senal Numbers (Reading	ne					
14-07-2011 10:46 AM1	Serial Numbers). Reading data f	rom Stage table for crate: HC BLM SI	76 R.				
14-07-2011 10:46 AM	Serial Numbers) .done	and the second second second second					
	Qarial Alumbara's Dasding data f		6 D				
14-07-2011 10:46 AM]	Consist retering to 1. To barrent A martine	tom Final table for crase. HC BLW SH	(J),F3				
14-07-2011 10:46 AM] 14-07-2011 10:46 AM]	Serial Numbers (Final table))dor	rom Final table for crase: HC.BUM SH në	0.N_				

ile Help			🔯 * RB
Compare stage with final	Stage -> Final	Final -> Master	Final > Stage
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Beam Mode:	NOBEAM	Beam 2 Present	NO
Common parameters Parameters per IP Paramete	rs per Monitor Serial Numbers Master view		
	Search Crate: HC B	MEDER	
C RI M SR6 C			
CBLMSR61			
CBLMSRER			
C.BLM.SR7.C			
C.BLM SR7.E			
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0.01 11 0.00 0			
Slans			
araña			1 (P) (P) (P)
And A	BLECFT	BLECF2	BLETC
Card 1	199	192	7926335405143564033
Card 1	155	942	7340874652840896257
Card A	527	730	13114482175875650817
Card 5	532	569	6124095554196600577
Card 6	274	301	15348267591048020481
Card 7	19	563	504403219237901825
Card 8	566	295	11385099918961443329
Card 9	242	540	1369094347692050945
Card 10	234	555	9655717662051465729
Card 11	564	557	720576001351863041
Card 12	63	561	8646911345524087297
	80	ECS: 6124895551499711233	
Final	21 F0 F0		
Caul 1	BLEUFI	SLEUF2	2036396106119621033
Card 7	100	542	6701356306400622145
Card 3	164	147	7349874652840896257
Card 4	527	730	13114482175875650817
Card 5	532	569	6124895554196600577
Card 6	274	301	15348267591048020481
Card 7	19	563	504403219237901825
Card B	566	295	11385099918961443329
Card 9	669	540	1369094347692050945
Card 10	234	555	9655717662051465729
Card 11	564	557	720576001351863041
Card 12	63	561	8646911345524087297
Card 12	63 90+	561 ECS: 61248965651499711233	8646911345524087297
Log [14/07/2011 10:46 AM [[OBINI NUMBERS], JUNE			
14.07-2011 10:45 AM [Genial Numbers]. Reading data for 14.07-2011 10:45 AM [Genial Numbers(Final tatxo)]dono 14.07-2011 10:45 AM [Genial Numbers]Reading 14.07-2011 10:45 AM [Genial Numbers].Reading data for 14.07-2011 10:45 AM [Senial Numbers]Reading data for	m Final table for crate: null m Stage table for crate: HC.BLM.SRG.R m Final table for crate: HC.BLM.SRG.R		

INFO: The new value should appear marked in blue colour as well as in the log panel.

- i) Press button "Stage to Final" to propagate the value in the FINAL LSA tables
- j) Press button "Final to Master" to propagate the value in the MASTER LSA tables

Accelerator Mode:					1 11 11 11 11 11 11 11 11 11 11 11 11 1	80/304/01	I IIIII JANIPA	
Accelerator Mode:								_
Charles and the state		PROTE	Hrs		Beam 1 Present:		NO	_
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Common parameters	Parameters per av	Parameters per Monitor	Serva Numbers	Master New		1.1		_
			s	earch Crate: HC BLM SR6.	R			
IC.BLM.SR6.C								
IC.BLM.SR61								
C.BLM.SR6.R								
C.BLM.SR7.C								
C.BLM.SR7.E								
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Stage								
				BLECF1		BLECF2	BLETC	
Card 1			198		165		7926335405143564033	
Card 2			159		542		6701356306499622145	
Card 3			164		147		7349874652840896257	
Card 4			527		730		131144821/58/565081/	
Card 6			274		201		1534893534198849377	
Card 7			19		563		504403219237901825	
Card 8			566		295		11385099918961443329	_
Card 9			242		540		1369094347692050945	
Card 10			234		555		9655717662051465729	
Card 11			564		557		720576001351863041	
Card 12			63		561		8646911345524087297	-
				BLECS: 6	124895551499711233			
Final								
			11 50005	BLECF1		BLECF2	BLETC	100
Card 1			198		165		7926335405143564033	
Card 2			159		512		6/01356306499622145	_
Card A			637		230		1349574032040630237	
Card E			572		660		6437005554406500577	
Card 6			274		301		15348267591048020481	
Card 7			19		563		504403219237901825	
Card B			566		295		11385099918961443329	
Card 9			242		510		1369094347692050945	
Card 10			234		555		9655717662051465729	
Card 11			564		557		720576001351863041	
Card 12			63		561		8646911345524087297	
				BLECS: 6	124895551499711233			
Log								
14-07-2011 11-02 AM1	Parameters per monito	Reading data from Stone	table for monitor no					
14/07/2011 11/02 AM	Parameters per monitor		reache for monitor nu					
14-07-2011 11:02 AM	(Parameters per monito) (Parameters per monito)	1. Reading data from Einst	table for monitor rol					
14-07-2011 11:02 AM1	Parameters per monito	readion(Einal table)), done	Cabile for information room					
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14.07.301111102 AM1	format reamingly breath	ion data from Diana (chi - f-	Contactulo DI M COR	P				
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INFO: the database changes have now been completed. Next steps are to Generate the Settings and Drive them to the electronics.

3. Generate and Drive the settings

The generation application collects the data from the multiple tables and produces groups of those data per crate signed with a private key calculated by the user role.

The drive application is used to send and flash the parameters on each crate. The front-end receives the data and distributes them per card's flash memory.

Note: after the send to final action the timestamps for the data stored in the DB have been changed, therefore it is necessary to re-generate and drive the settings for both the BLECS and BLETC modules.

3.1. Generation application

a) Start the generation application from the following url:

http://slwww.cern.ch/%7Epcrops/releaseinfo/pcropsdist/lsa/lsa-app-generation/NEXT/lsaglobal-generation-3t.jnlp?accelerator=LHC&contextfamily=beamprocess&lsa.server=lhc

b) Choose the appropriate Access role (RBAC): MCS-BLMexpert

🕌 RBAC Role Picker	×
Select Roles You Want To Use:	
BI-BLM-EXPERT	
MCS-BLMInternalPiquet	
MCS-BLMexpert	
MCS-BLMuser	
	1
Clear Revert All Cancel	
Done	

- c) Choose tab "Generate Settings"
- d) From the "Beam Process" (left) panel select "_NON_MULTIPLEXED_LHC"
- e) From the "System" panel select "BLM"
- f) From the "Type Groups" select "BLMLHC_2:BLECSFlash"
- g) From the "Parameters" press the "Select All" button.
- h) Press the (large) button "Generate Selected Parameters/Sub contexts"

💰 Generation Application							
Image: Text of the second s							
Generate Contexts Generate Settings View Settings Edit types Actual Settings Incorporat	tion Hyp	erCycle Management Resid	ent C	Context Manager			
Beam Processes		Parameter selection - LHCR	NG				
Filter:	(?)	System		Type Groups		Param	eters
NON MULTIPLEXED THC	▲	ABORTGAP CLEANER	-	LHC BLMMONITOR FACTOR	Filtor		0
BI-START-SQUEEZE-2011-ACTUAL		ADT-DSPU		BLMLHC 2/BLECSFlash	Lic Di	M CD4 C DI FCC	1 Inch
DISCRETE_LHCRING_ADTDSPU_50ns		ALL MAGNETS		BLMLHC 2/BLETCFlash	HC.BL	M.SR1.U/BLEUS	sriasn
DISCRETE_LHCRING_INJ_KICKER_V1		ATS AX CORRECTION		-	HC.BL	M.SR1.L/BLECS	Hash
RAMP_FAST_2011_JULY@0_ISTART]	=	ATS CHROMATICITY			HC.BL	M.SR1.R/BLECS	Flash
ADT-TEST_V1		ATS COUPLING			HC.BL	M.SR2.C/BLECS	Flash
CollimatorBP-450GeV_V1@16		ATS IP KNOBS			HC.BI	.M.SR2.L/BLECS	Hash
CollimatorBP-450GeV_V1@2	-	ATS SPURIOUS DISPERSION			HC.BL	.M.SR2.R/BLECS	Flash
LoninfactorBP-4500eV_V1@60_END]		ATS TUNE TRIM			HC.BL	.M.SR3.C/BLECS	Flash
PHYSICS.2011 MD2		B2			HC.BL	.M.SR3.L/BLECS	Flash
PHYSICS-2011 MD2@56 [END]		B3			HC.BL	.M.SR3.R/BLECS	Flash
PHYSICS-2011 MD2 NOM		P4			HC.BL	.M.SR5.C/BLECS	Flash
PHYSICS-2011_MD2_NOM@56_[END]		P5			HC.BI	.M.SR5.L/BLECS	Flash
PHYSICS-2011_MD2_NOM@56_[END]_Fill(1917)_2011-07-01_23:21:16		DEAM DUMD			HC.BL	.M.SR5.R/BLECS	Flash
PHYSICS-2011_V3		DETA DEATING		-	HC.BL	.M.SR6.C/BLECS	Flash
PHYSICS-2011_V3@56_[END]		BETA-BEATING			HC.BI	.M.SR6.L/BLECS	Flash
PHYSICS-2011_V3@56_[END]_Fill(1901)_2011-06-28_01:54:04		BETA-STAR	- 11		HC.BI	.M.SR6.R/BLECS	Flash
PHYSICS-2011_V3@56_[END]_Fill(1901)_2011-06-28_02:06:36		BLM			HC.BL	M.SR7.C/BLECS	Flash
PHYSICS-2011_V3@56_[END]_Fill(1930)_2011-07-10_04:31:40		BLM IQC REF			HC.BL	.M.SR7.E/BLECS	Flash
PHTSLS-2011_U3@50_ENDJ_FIII(1931_2011-07-12_0):57:38		CHROMATICITY			HC.BL	.M.SR7.L/BLECS	Flash
PHTSICS-2011_V3@56_[END]_FIII(1932)_2011-07-12_14:18:59 DEVSICS 2011_V3@56_[END]_FIII(1935)_2014_07_13_05:26:32		CHROMATICITY_REF			HC.BL	M.SR7.R/BLECS	Flash
PHT3IC3-2011_03@50_L100j_10(1935_201107-13_032032		COLLIMATORS			HC.BL	M.SR8.C/BLECS	Flash
PHYSICS.2011 V3@56 [END] Fill(1940) 2011.07.14 02:20:25		COUPLING			HC.BI	M.SR8.L/BLECS	Flash
PRECYCLE-FIS FAST		IP_ANGLE			HC BI	M SR8 R/BI FCS	Flash
PRECYCLE 10Aps V1		IP_CROSSING			HC BI	M SX4 C/BLECS	Flash
PRECYCLE_10Aps_V1@0_[START]		IP_OFFSET			HC BI	M SX41/BLECS	Flash
RAMP&SQUEEZE_2011_V1		IP_SEPARATION				M SVA D/DI ECS	Elach
RAMPDOWN_10Aps_PRECYCLE_COMBO_V2		IP_SPECTROMETER			IIC.DI	.m.3A4.IVDLLC3	n idəli
RAMPDOWN_10Aps_PRECYCLE_COMBO_V2@0_[START]		IQC BPM REF					
RAMPDOWN_7TeV_test		IQC BPM TRANSFER					
RAMP_71eV_test		IQC PHASEERR REF					
RAMP_AIS_3.516V_2011_V1		LANDAU DAMPING					
RAMP_ATS_3.5TeV_2011_V1@00_START]		LHC COLLIMATORS	-			Falaa	-+ AU
RAMP_ATS_3.5TeV_2011_V1@1020_END] RAMP_ATS_3.5TeV_2011_V1@1020_END] Fill(1902) 2011.06.28 19:56:39				<u> </u>		Selec	
RAMP ATS 3.5TeV 2011 V1@1020 [END] Fill(1903) 2011-06-29 06:06:28	-	Select All		Select All		Hierarchy	Show Field(s)
OPERATIONAL	-	Search parameter by name:					0
Generate Settings with Value Generators						Generate Se	ettings from CSV File
Propagate to all dependants							
Remove Correction from dependants Generate	Selected F	arameters/Sub contexts				Generate	settings from file
Generate Zero settings							
Console Running tasks							
12:04:48 - New login context created, loginPolicy: EXPLICIT 12:04:48 - Login policy = EXPLICIT 12:04:55 - Role change successful, new RBA credentials obtained appToken PBAToken[serial=0x0re70d7dcd;authTime=2011-07-14012:04:55;endTime=2011-07-1 masterToken RBAToken[serial=0x013746ce;authTime=2011-07-14012:04:50;endTime=2011-07-1 12:04:55 - Mew login context created, loginPolicy: DEFAULT	14020:03: 14020:04:	55;application=AppPrincip 50;application=AppPrincip	al[r al[r	name=Generation, critical=fa name=Generation, critical=fa	lse, tim lse, tim	eout=-1];loca eout=-1];loca	ation=LocationPi ation=LocationPi
							•
11:30:00 - Generation completed			_				

- i) Continue with the generation of the BLETC module parameters:
- j) From the "Type Groups" select "BLMLHC_2:BLETCFlash"
- k) From the "Parameters" press the "Select All" button.
- I) Press the (large) button "Generate Selected Parameters/Sub contexts"

Generation Application					
Image: Constant of Const	oration Huma	rCycle Management	Desident (ontext Manager	
Generate contexts Generate Settings View Settings Luk types Actual Settings Incorp.	oration hype	December coloction		ontext manager	
Beam Processes		Parameter selection - I	ncruno	T 0	0
Filter:	0	ADODTCAD CLEANED		Type Groups	Parameters
NON_MOLTIPLEXED_LHC	^	ABURIGAP_CLEANER	-	DIMUG 2015051-1	Filter:
BI-START-SQUEEZE-ZUTT-ACTUAL DISCRETE LHCRING ADTDSDIT 50mg		AUT-DSPU		BLMLHC_2/BLECSHash	HC.BLM.SR1.C/BLETCFlash
DISCRETE LHCRING IN L KICKER V1		ALL MAGNETS		BLMLFIC_2/BLETCHASH	HC.BLM.SR1.L/BLETCFlash
RAMP FAST 2011 JULY@0 ISTARTI	_	ATS AX CORRECTION			HC.BLM.SR1.R/BLETCFlash
ADT-TEST V1		ATS CHROMATICITY			HC.BLM.SR2.C/BLETCFlash
CollimatorBP-450GeV_V1@16		ATS COUPLING			HC.BLM.SR2.L/BLETCFlash
CollimatorBP-450GeV_V1@2		ATS IP KNOBS			HC.BLM.SR2.R/BLETCFlash
CollimatorBP-450GeV_V1@60_[END]		ATS SPURIOUS DISPER	SION =		HC.BLM.SR3.C/BLETCFlash
InjectionTrim_V1		ATS TUNE TRIM			HC.BLM.SR3.L/BLETCFlash
PHYSICS-2011_MD2		82			HC.BLM.SR3.R/BLETCFlash
PHYSICS-2011_MD2(0:05)_END]		B3			HC.BLM.SR5.C/BLETCFlash
DEVSICS 2011_MD2_NOM		B4			HC.BLM.SR5.L/BLETCFlash
PHYSICS-2011 MD2_NOM@56_[END] Eil/(1917) 2011-07-01 23:21:16		B5			HC.BLM.SR5.R/BLETCFlash
PHYSICS-2011 V3		BEAM DUMP			HC.BLM.SR6.C/BLETCFlash
PHYSICS-2011 V3@56 [END]		BETA-BEATING			HC.BLM.SR6.L/BLETCFlash
PHYSICS-2011_V3@56_[END]_Fill(1901)_2011-06-28_01:54:04		BETA-STAR	_		HC.BI M.SR6.R/BI FTCFlash
PHYSICS-2011_V3@56_[END]_Fill(1901)_2011-06-28_02:06:36		BLM			HC.BI M.SR7.C/BI ETCElash
PHYSICS-2011_V3@56_[END]_Fill(1930)_2011-07-10_04:31:40		BLM IQC REF			HC BLM SR7 F/BLETCElash
PHYSICS-2011_V3@56_[END]_Fill(1931)_2011-07-12_05:57:38		CHROMATICITY			HC BLM SR7 L/BLETCElash
PHYSICS-2011_V3@56_[END]_Fill(1932)_2011-07-12_14:18:59		CHROMATICITY_REF			HC BLM SR7 B BL ETCElash
PHYSICS-2011_V3@56_[END]_FIII(1935)_2011-07-13_05:26:32		COLLIMATORS			
PHYSICS-2011_V3@56_[END]_FIII(1936)_2011-07-13_09:16:57		COUPLING			UC DI M SD9 I /DI ETCElach
PRESCS-2011_V3@30_LENDJ_FIII(1940)_2011-07-14_02.20.25		IP_ANGLE			HC BLM SR8 P/BL FT/Flash
PRECYCLE 10Aps V1		IP_CROSSING			HC DI M SV4 C/DI ETCElash
PRECYCLE 10Aps V1@0 [START]		IP_OFFSET			HC DLM SV41 DLETCElach
RAMP&SQUEEZE_2011_V1		IP_SEPARATION			HC DI M SYA DDI ETCElach
RAMPDOWN_10Aps_PRECYCLE_COMB0_V2		IP_SPECTROMETER			IIC.DEM.SX4.IVDEETCH05II
RAMPDOWN_10Aps_PRECYCLE_COMBO_V2@0_[START]		IQC BPM REF			
RAMPDOWN_7TeV_test		IQC BPM TRANSFER			
RAMP_/TeV_test		IQC PHASEERR REF			
KAMP_AIS_3.516V_2011_V1		LANDAU DAMPING			
RAMP_ATS_5.516V_2011_V1@00_ISTARTI		LHC COLLIMATORS	-		Enlant All
RAMP_ATS_3.5TeV_2011_V1@1020_END1_ENU(1902)_2011_06.28_19:56:39			•		Select All
RAMP ATS 3.5TeV 2011 V1@1020 [END] Fill(1903) 2011-06-29 06:06:28	-	Select All		Select All	Hierarchy Show Field(s)
OPERATIONAL	-	Search parameter by na	ame:		0
Generate Settings with Value Generators					Generate Settings from CSV File
Propagate to all dependants					
Remove Correction from dependants	rate Selected Pa	arameters/Sub contexts			Generate settings from file
Generate Zero settings					Constato Cottango it citi mo
Console Running tasks					
12:04:48 - New login context created, loginPolicy: EXPLICIT 12:04:48 - Login policy = EXPLICIT 12:04:55 - Role change successful, new RFA credentials obtained appToken RFATOken[serial=0xe70d7dcd;authTime=2011-07-14912:04:55;endTime=2011-0 masterToken RFATOken[serial=0xd13746ce;authTime=2011-07-14912:04:50;endTime=2011-0 12:04:55 - New login context created, loginPolicy: DFFAULT	07-14020:03:5 07-14020:04:5	5;application=AppPri 0;application=AppPri	ncipal[n ncipal[n	ame=Generation, critical=fal ame=Generation, critical=fal	se, timeout=-1];location=LocationPi se, timeout=-1];location=LocationPi
					¥
11:30:00 - Generation completed.					∇

INFO: In the console part of the window the log will have similar to the following messages:

11:25:34 - Generating settings for '_NON_MULTIPLEXED_LHC'

11:25:36 - Generation completed..

11:26:06 - Generating settings for '_NON_MULTIPLEXED_LHC'

11:30:00 - Generation completed..

INFO: Generation of Settings has now been completed ----

3.2. Drive Application

a) Start the Drive application from the following url:

<u>http://slwww.cern.ch/%7Epcrops/releaseinfo/pcropsdist/lsa/lsa-app-trim/PRO/lsa-drive-hardware-3t.jnlp?accelerator=LHC&contextfamily=beamprocess&lsa.server=lhc</u>

b) Choose the appropriate Access role (RBAC): MCS-BLMexpert

🛃 RBAC Role Picker	×
Select Roles You Want To Use:	
BI-BLM-EXPERT	
MCS-BLMInternalPiquet	
MCS-BLMexpert	
MCS-BLMuser	
Clear Revert All Cancel	
Done	

- c) Choose tab "Drive"
- d) From the "Beam Process" (left) panel select "_NON_MULTIPLEXED_LHC"
- e) From the "System" panel select "BLM"
- f) From the "Type Groups" select "BLMLHC_2:BLECSFlash"
- g) From the "Parameters" press the "Select All" button.
- h) Press the (large) button "Send to Hardware"

🕌 Drive Hardware				
💿 LHC 🔻 🕼 OP 👻 😁 BP 👻 🤄 🚺 🔻 RBA: czan	n			
Drive Settings viewer	1			
Beam Processes	Parameter selection - LHCRING			
Filter: 0	System	Type Groups	Paramete	rs
_NON_MULTIPLEXED_LHC	ABORTGAP_CLEANER	LHC_BLM/MONITOR_FACTOR	Filter:	(?)
BI-START-SQUEEZE-2011-ACTUAL	ADT-DSPU	BLMLHC_2/BLECSFlash	HC BLM SR1 C/BLECSElash	▲
DISCRETE_LHCRING_ADTDSPU_50ns	ALL MAGNETS	BLMLHC_2/BLETCFlash	HC BLM SR11/BLECSFlash	
DISCRETE_LHCRING_INJ_KICKER_V1	ATS Ax CORRECTION		HC BLM SR1 R/BLECSFlash	
RAMP_FAST_2011_JULY@0_[START]	ATS CHROMATICITY		HC BLM SR2 C/BLECSFlash	
	ATS COUPLING		HC BLM SR2 L/BLECSFlash	
	ATS IP KNOBS		HC BLM SR2 R/BLECSFlash	
	ATS SPURIOUS DISPERSION		HC BLM SR3 C/BLECSFlash	
	ATS TUNE TRIM		HC BLM SP3 L/BLECSFlagh	
	B2		HC BLM SR3 R/BI ECSElash	
	B3		HC BLM SR5 C/BLECSFlash	
	B4		HC DI M SD5 I /DI ECSElach	=
	B5		HC BLM SR5 R/BI ECSFlash	
	BEAM DUMP		HC BLM SR6 C/BLECSFlash	
	BETA-BEATING		UC DI M SD6 I /DI ECSElach	
	BETA-STAR		HC BLM SR6 R/BI ECSElash	
	BLM		HC BLM SR7 C/BLECSFlash	
	BLM IQC REF		UC DI M SD7 E/DI ECSElach	
	CHROMATICITY		HC BLM SR7 L/BLECSHash	
	CHROMATICITY_REF		HC BLM SR7 P/BLECSFlash	
	COLLIMATORS		UC DI M SD9 C/DI ECSElach	
	COUPLING		HC BLM SR81/BLECSHash	-
	IP_ANGLE		HC BLM SP8 D/BLECSFlash	
	IP_CROSSING		HC BLM SYA C/BLECSFlash	-
	IP_OFFSET		Select A	
	Select All	Select All	Hierarchy	Show Field(s)
OPERATIONAL 🔽	Search parameter by name:			
11:33:04 - Succeeded to drive 1925 parameters to the hardware				7

- i) Continue with the drive of the BLETC module parameters:
- j) From the "Type Groups" select "BLMLHC_2:BLETCFlash"
- k) From the "Parameters" press the "Select All" button.
- I) Press the (large) button "Send to Hardware"

INFO: Drive of Settings has now been completed.

4. Final steps

- a) Close all applications especially the database access and expert applications.
- b) Request from the operators to execute the Sanity checks from the sequencer.