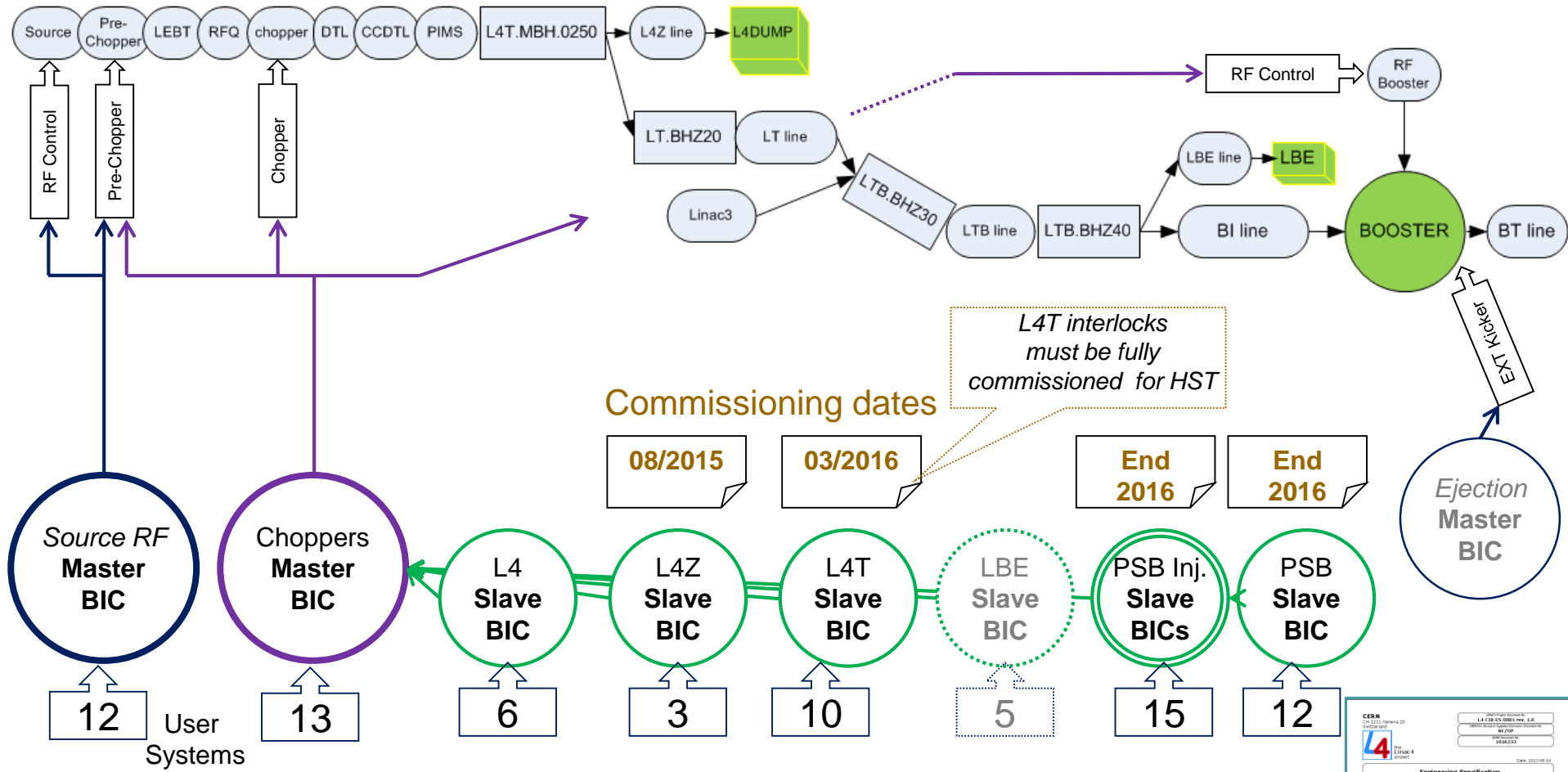


**Quick status about of the needs  
to complete cables request  
for the Beam Interlock System**

# SIMPLIFIED LAYOUT OF THE BEAM INTERLOCK SYSTEM FOR LINAC4, TL & BOOSTER



more details in  
Engineering Specification  
[EDMS#1016233](#)

Engineering Specification																																	
<b>BEAM INTERLOCK SPECIFICATIONS FOR LINAC4, TRANSFER LINES AND PS BOOSTER WITH LINAC4</b>																																	
<p>The beam interlock system for Linac4 and PS Booster from the PSB will be based on a model system developed before the start of the PSB design phase. The model system will be used to define the interlock system for the PSB design phase. The model system will be used to define the interlock system for the PSB design phase. The model system will be used to define the interlock system for the PSB design phase.</p>																																	
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**Missing information about the following connections :  
( per location)**

BIC name	User Permit (short name)	System	Group	Contact person
L4 Transfer Line	AQN LT.BHZ20	Power Converter	TE/EPC	David Nisbet (*)
	AQN LT.BHZ30	Power Converter	TE/EPC	David Nisbet (*)
	WIC LT + LTB	Magnet Interlocks	TE/MPE	Richard Mompo
PSB injection	BI WD	Watch Dog	BE/BI	Franco Lenardon
	BLMs in BI line + PSB injection	BLM	BE/BI	Christos Zamantzas
	Injection Foil Status	charge-exchange injection foil	TE/ABT	Pietre Van Trappen
	WIC BI Line	Magnet Interlocks	TE/MPE	Richard Mompo
	H0/H- dumps OK	Dumps	EN/STI	Christophe Mitifiot
	Head & Tail dumps OK	Dumps	EN/STI	Christophe Mitifiot
PSB (rings)	BLMs in PSB extraction/transfert	BLM	BE/BI	Christos Zamantzas

(\*) formally in charge of

**Missing information about the following connections :  
( per group)**

User System	Group	Contact person	User Permit (short name)	BIC name
Watch Dog	BE/BI	Franco Lenardon	BI WD	PSB injection
BLM	BE/BI	Christos Zamantzas	BLMs in BI line + PSB injection	PSB injection
			BLMs in PSB extraction/transfert	PSB (rings)
Dumps	EN/STI	Christophe Mitifiot	H0/H- dumps OK	PSB injection
			Head & Tail dumps OK	PSB injection
charge-exchange injection foil	TE/ABT	Pietre Van Trappen	Injection Foil Status	PSB injection
Magnet Interlocks	TE/MPE	Richard Momo	WIC LT + LTB	L4 Transfer Line
			WIC BI Line	PSB injection
Power Converter	TE/EPC	David Nisbet (*)	AQN LT.BHZ20	L4 Transfer Line
			AQN LT.BHZ30	L4 Transfer Line

(\*) formally in charge of

End

## Beam Interlock System:

- ❑ For the time being, **no showstopper concerning the readiness of the BIS**
  - In Linac4, the system will be increasingly deployed along to different commissioning phases.
  - For the TL, the injection region and the PSB rings, it will be done in accordance with the (new) schedule
  - Note: the PSB Ejection BIC is operational since end of 2012
  
- ❑ The BIS will be fully Operational if **all connected systems** (i.e. “*User Systems*”) will be able to **correctly and safely provide their interlock signals**.
  - The latter point is to some extent outside of the BIS team responsibility.
  - As a reminder, the Interlock team is responsible for:
    - Providing and installing the User interface box (CIBU) in the *User System’s* rack
    - Ordering the pulling of cables between User racks and the Beam Interlock Controllers (BIC)
    - Proposing a commissioning date for the *User System* connection to the CIBU