#### Toward a stand alone distributed management system

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# Generalization of SuperB distributed production system as stand alone, general purpose infrastructure to accomplish small and medium VO requirements

let's talk about:

- WebUI development :

- user Idap groups vs. webui permissions : how could Idap groups be changed to reach a better generalization
- bug-fixing on several pages
- Full Simulation :
  - FullSim "draft" version
  - how show a large number of job parameters
    - introducing sub-parameters
- TIMELINE



Now there are the following LDAP groups:

- webui
- webuiFastProdMgr
- webuiFullProdMgr
- webuiShift
- WebUiDeveloper

which assign different privileges on webui users, this privileges are:

- init\_full
- init\_fast
- init\_shift
- shift\_monitor
- view\_monitor
- create\_production
- create\_request

In a generic <session oriented> project these groups and privileges are not enough

the proposal is to introduce following LDAP groups and privileges:

Idap groups:	privileges:		uo	production	uction	est	uest	est	L		
webui_%SESSIONNAME%_ShifterUser	delete production create request	groups	create session	create prod	delete production	create request	validate request	delete request	view monito	shift init	expert init
webui_%SESSIONNAME%_User	validate request delete request	webui_SessionMgr									
	view monitor	webuiProductionMgr									
WebUI Smarty now works with	shift init expert init	webuiExpertUser									
these		webuiShifterUser									
	webuiUser										
NFN	4										
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WebUI devel works with these

#### WebUI Development - bug-fixing and improvements



- When a user creates a new production, an associated test production is created
- User can delete a production (main + test) when both main and test production has no jobs
- It's possible to re-open a close production
- When a user creates a new production request, an associated test request is created
- It's possible to delete only production requests that have no jobs
- If a user deletes a production request, the test request associated is cleared only if has no jobs, otherwise the test request "survives" while main request is cleared
- ...so it's possible to have on db a test request and not the main request (in fact, by Expert-Init it's possible to create a new test request through a job submission)
- target-sites specified on creating a production requests are virtually "shared" with the associated test request: the changements on main target sites are copied to the test request
  - there is the possibility that test request has some jobs while main request is still open: it means that jobs already submitted had, as target site, the site specified in the main request; also, if there is a changement on target sites (because status is still open!), from that moment on all test jobs will be move output files to the new target sites



## TO DO

• on expert init interface, if the user defines a new test request, not only minrunnum has to be asked but also one or more target-sites



- SBK4 FullSim tables created!
- Home Sessions FastSim FullSim
- FullSim Job Parameters:

Generator, Geometry, Symtype, PL, Geant4 Version, Min. Delta E, PDG Code, Theta min, Theta max, Phi min, Phi max,

Energy min, Energy max. (any other?)

	Type:	
CIPE 🔹	fullsim	PL: QGSP_BERT
	PDG Code: 999	Theta min.:
	Phi max.:	Energy (GeV) min.:
	1	2
	2	999

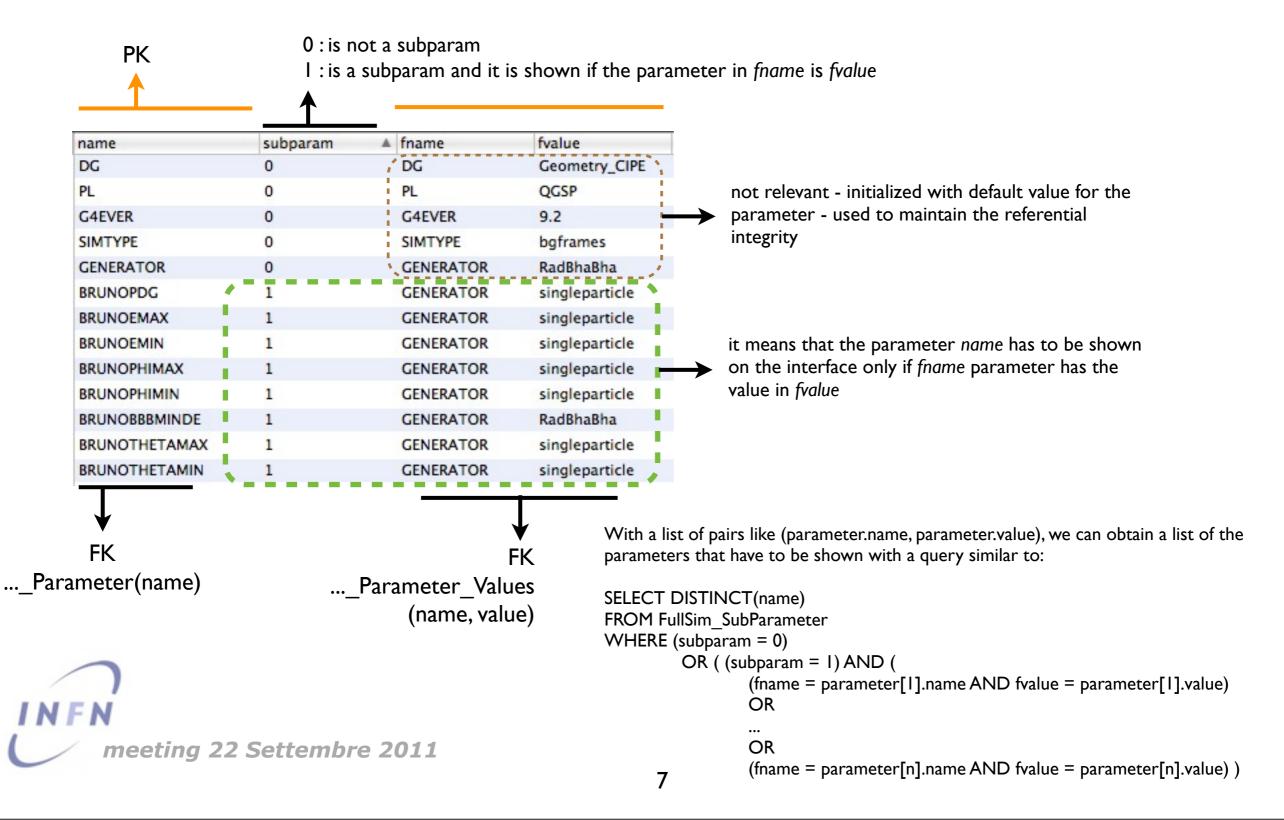
• problems:

<ul> <li>how to hide/show sub-parameters (like in webui devel) when selecting the generator and</li> </ul>			
• Now to hide/show sub-parameters (like in webui devel) when selecting the generator and	name		
how to show in a better way some job parameters (ranges for example)	Generator		
	Geometry		
solution #1- SuperBVO members has a custom view of job parameters (simple but not generic)	🗹 Туре		
solution #2- Elaborate a valid and not too much complex way to implement subparameter or dependencies	PL		
$\square$ solution $\#2^2$ Liaborate a valid and not too much complex way to implement subparameter of dependencies			
(complex but generic)	🖂 Min. Delta E		
	PDG Code		
<ul> <li>large number of parameters = large number of columns on monitors</li> </ul>	🗌 Theta min.		
• colution adding a new field on * Peremotor table, hide an menitor, as assain manager can hide column /a by	Theta max.		
<ul> <li>solution: adding a new field on *_Parameter table: hide_on_monitor , so session manager can hide column/s by</li> </ul>	🗌 Phi min.		
default on monitors and then, through the datatables col-vis plugin, show hidden columns if necessary o	🗌 Phi max.		
· · · · · · · · · · · · · · · · · · ·	Energy (GeV) min.		
Generator Geometry Type PL Geant4 Min. PDG Theta Theta Phi Phi Energy Energy req.events evt/job #jobs minrunnum status	Energy (GeV) max.		
version Delta E Code min. max. min. max. (GeV) min. (GeV) max.	req.events		
No data available in table	🗹 evt/job		
	🗹 #jobs		
	priority		
FN	Minrunnum		
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	🗹 uid		
6	the second se		

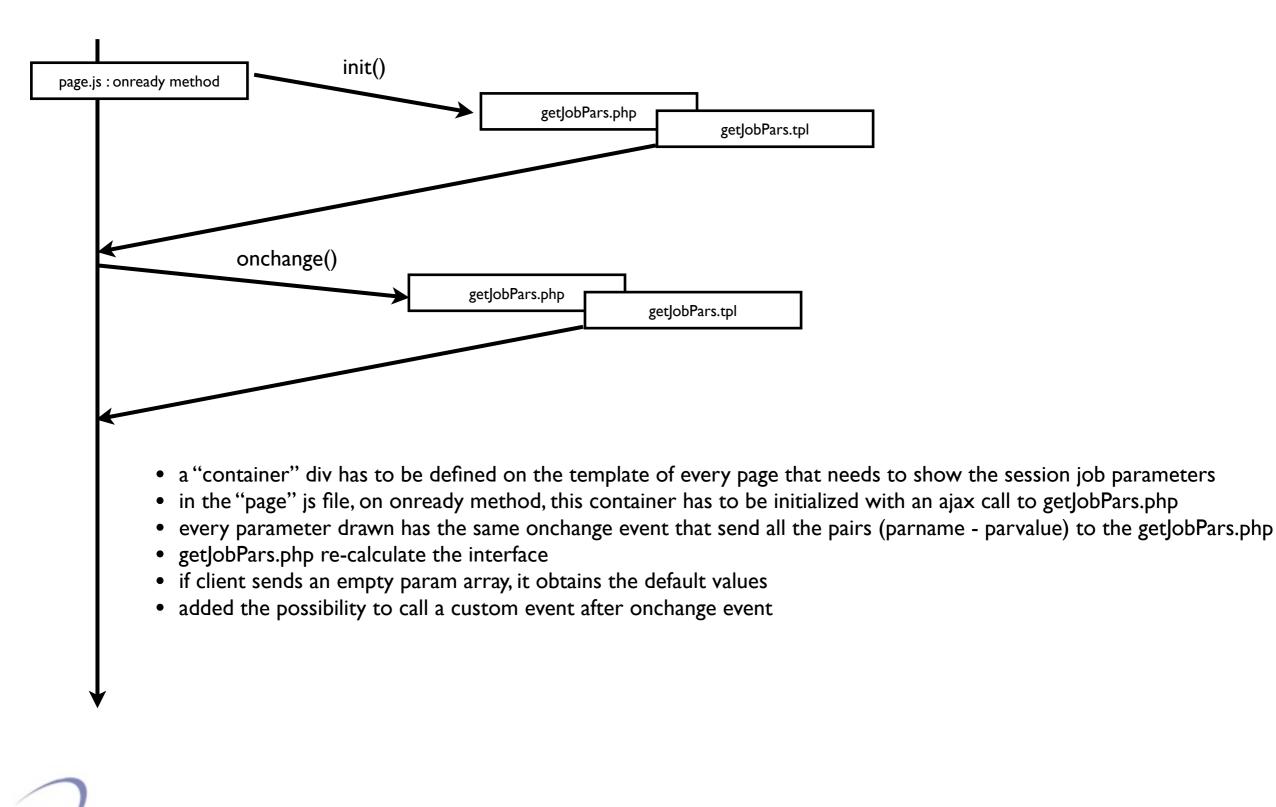
#### WebUI Development - Parameters and Sub-Parameters

Parameters and Sub-Parameters

- there was a not used "[session\_name]\_Enable" on db, designed to obtain a "tree" of dependencies for Job Parameters =
   DELETED
- new "[session\_name]\_SubParameter" designed as follow: (case FullSim\_SubParameter)



#### Parameters and Sub-Parameters



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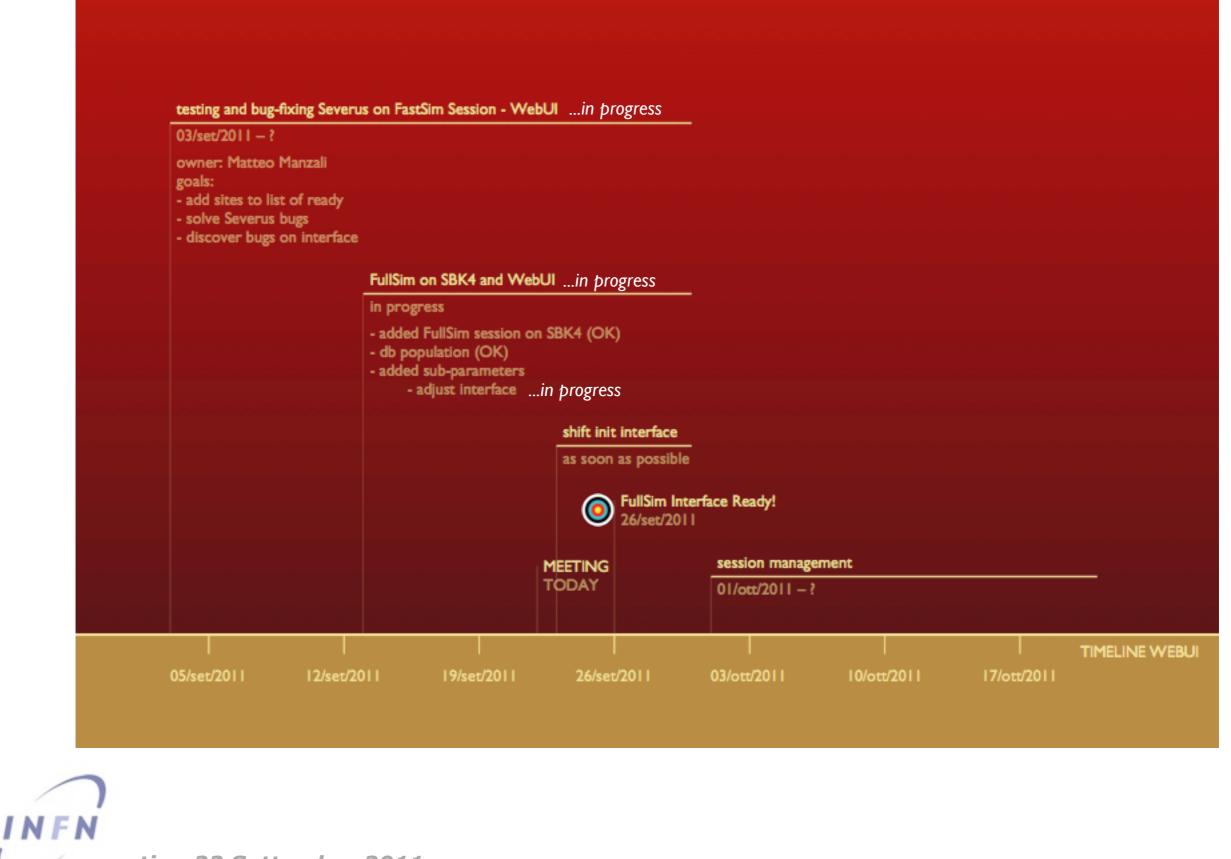
### Parameters and Sub-Parameters

#### after init :

Senerator:	Geometry:	Type:		PL:		Geant4 version:		Min. Delta E:	
RadBhaBha	Geometry_CIPE	fullsim	•	QGSP_BERT	•	9.2	\$	0.1	
Production Request with	the selected parameters already	exists							
change "Gene	erator": Generator	the second s							
0	RadBhaBh								
	RadBhaBh								
	SinglePart	icle							
nerator:	Geometry:	Type:		PL:		Geant4 version:		PDG Code:	
ngleParticle	Geometry_CIPE	fullsim	•	QGSP_BERT	\$	9.2	\$	999	
ta min.:	Theta max.:	Phi min.:		Phi max.:		Energy (GeV) min.:		Energy (GeV) max.:	
	1	0		1		2		2	
roduction Request with t	the selected parameters doesn't	exists and will be created	2						
				check	, if that r	equest exists - a met	hod a	provided to the	
						•			
				onchange event check this!					

>> now REQUEST\_NAME has to be created with the MD5 of the enabled job parameters!





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