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# The LCG port table

This tables are created from the CVS original [↗](#).

## The experiment's software port list (gLite 3.0)

Experiment	Node	From	Port	To	Port	Service
<b>ALICE</b>	WN	localhost	*	lxn1175.cern.ch	8084	Cluster Monitor (CM)
			*	aliendb1.cern.ch	8080	DB Proxy (DB).
			*	aliendb2.cern.ch	8083	(May see traffic only under error conditions. Not required)
			*	lxn1175.cern.ch	8092	LCG Alien-SE Note: aiod transport ports required 50000-51000 (outgoing only)
			*	aliens3.cern.ch	8901	aiod:Scratch-SE
			*	aliens7.cern.ch	8901	aiod:Castor-SE
			*	gridftp01.cern.ch	8901	aiod:IO-Server
			*	gridftp02.cern.ch	8901	aiod:IO-Server
			*	gridftp03.cern.ch	8901	aiod:IO-Server
<b>ATLAS</b>	WN					
		localhost	3306	atlasdbpro.cern.ch	3306	database. Both source port and target host may be locally set.
<b>CMS</b>	WN					
		localhost	*	*	3796	BOSS/MySQL. Not mandatory but highly desirable.
			*	*	8884(udp)	MonaLisa. Not mandatory but highly desirable. Outbound email from WN also desirable
<b>LHCb</b>	WN					
		localhost	*	(see Note-1 below)	5222	Jabber
		localhost	*		8000	Accounting
		localhost	*		8084	Bookkeeping
		localhost	*		8120	Log Server
		localhost	*		8881	Bookkeeping
		localhost	*		8996	OutputSandbox
		localhost	*		9090	JobReceiver
		localhost	*		9096	InputSandboxServicePort
		localhost	*		9168	Job Monitoring
		localhost	*		9169	JobStateServer
		localhost	*		9170	Matcher
		localhost	*		9189	FileCatalog

# Note-1: target hosts - {lxgate03,lbnts2,lbnts1,lbnts3,lxgate05}.cern.ch,lhcb.ecm.ub.es

## The middleware port list

Node	Service	From	Port	To	Port
<b>ALL</b>	ntp	ntp servers	123/udp	localhost	123/udp
<b>BDII</b>	LDAP	*{RB,UI,WN}	*	localhost	2170
		localhost	*	*{BDII}	2170
		localhost	*	*{CE,SE}	2135
		localhost	*	*{gliteCE}	2170

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	FCR	localhost	*	lcg-fcr.cern.ch	8083	
	US LDAP servers	localhost	*	*	2180	
<b>lcg-CE</b>	Globus & EDG Gatekeepers (GRAM)	*{RB}	C	localhost	2119	
	JobManager	*{RB}	C	*{RB}	C	
	GridFTP Control	*{UI,SE,CE,WN}	C	localhost	2811	
	GridFTP data (single channel)	*{UI,SE,CE,WN}	C	localhost	C	
	GridFTP data (multiple channel)	*{UI,SE,CE,WN}	C	localhost	C	Direction
		localhost	C	*{UI,SE,CE,WN}	C	Direction
<b>lcg-RB</b>	Logging & Bookkeeping	*{UI}	C	localhost	9000,9001	
	locallogger (logd)	*{CE}	*	localhost	9002	
	CondorG	*{CE}	*	localhost	7771	
	NetworkServer (GRAM)	*{UI}	C	localhost	7772	
	MySQL	localhost	*	localhost	3306	
	Modified GridFTP				(see lcg-CE)	
<b>PX</b>	MyProxy	*{FTS,RB,UI}	*	localhost	7512	
<b>RLS</b>	LRC (OracleAS)	*{RB,UI,WN}	*	localhost	7777	For LCG
	LRC (tomcat)	*{RB,UI,WN}	*	localhost	8080	For non-I
	RMC (OracleAS)	*{RB,UI,WN}	*	localhost	7777	For LCG
	RMC (tomcat)	*{RB,UI,WN}	*	localhost	8080	For non-I
	MySQL	localhost	*	localhost	3306	
<b>SE</b>	RFIO	site{WN}	*	localhost	3147	
	GridFTP					see LCG 20000-21
	SRM - httpd(apache)	*	*	localhost	80	
<b>FTS</b>	gLite File Transfer Service	*	*	localhost	8443	
<b>LFC</b>	LFC(daemon)	*{UI,WN}	*	localhost	5010	
	LFC(DLI)	*{RB,UI,WN}	*	localhost	8085	
	MySQL	localhost	*	localhost	3306	
<b>DPM</b>	DPM	*{UI,WN,DPM Pool Nodes}	*	localhost	5015	
	DPNS	*{UI,WN,DPM Pool Nodes}	*	localhost	5010	
	SRMv1	*{UI,WN,DPM Pool Nodes,other sites SEs}	*	localhost	8443	
	SRMv2	*{UI,WN,DPM Pool Nodes,other sites SEs}	*	localhost	8444	
	SRMv2.2	*{UI,WN,DPM Pool Nodes,other sites SEs}	*	localhost	8446	
	RFIO	*{UI,WN,DPM Pool Nodes,other sites SEs}	*	localhost	5001	if site sup
	DPM-GSIFTP	*{UI,WN,DPM Pool Nodes,other sites SEs}	*	localhost	2811	control p
	MySQL	localhost	*	localhost	3306	
	BDII	localhost	2170	site-BDII	*	
	RFIO		*	localhost	5001	if site sup

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<b>DPM Pool Node</b>		*{UI,WN,DPM Pool Nodes,other sites SEs}				
	DPM-GSIFTP control	*{UI,WN,DPM Pool Nodes,other sites SEs}	*	localhost	2811	control p
	DPM-GSIFTP data	*{UI,WN,DPM Pool Nodes,other sites SEs}	C	localhost	C	20000-25
<b>GRIS VO</b>	MDS (LDAP)	*{BDII,RB,UI,SE,CE,WN}	*	localhost	2135	
	LDAP	*{RB,SE,CE}	*	localhost	389	
	VOMS	*	*	localhost	8443	admin int
		*{RB,UI,SE,CE}	*	localhost	VO-dependent	proxy retr
<b>MON</b>						Requirem http://hep
	RGMA - http(tomcat)	site{*}	*	localhost	8080,8443	From pro
		localhost	*	*{see comment}	8080,8443	To Inform
		*{see comment}	*	localhost	8080,8443	From Info
	RGMA	*{MON}	*	localhost	8088	
		localhost	*	*{MON}	8088	
<b>GridICE</b>						
	Extended GRIS (LDAP)	*{GridICE server}	*	localhost	2136	
	GRIS (see also GRIS above)	*{GridICE server}	*	localhost	2135	Used to a
	LEMON	site{RB,UI,SE,CE,WN,GridICE server}	*	localhost	12409(udp & tcp)	
<b>Misc</b>						
	NFS	site{SE,CE,WN}	*	localhost	2049	Requirem
	portmap	site{SE,CE,WN}	*	localhost	111(udp & tcp)	Requirem
	openssh	site{CE,WN}	*	localhost	22	Requirem
<b>gLite-CE</b>						
	GRAM gatekeeper	*{WMS}	2119	localhost	2119	
	Synchronous CE Mon	*{WMS}	8443	localhost	8443	
	GRAM job managers	*{WMS}	C	localhost	C	
	Condor-C	*{WMS}	C	localhost	C	
	gridFTP server Control	Operations	2811	localhost	C	Admin pu
	gridFTP server data (single)	Operations	C	localhost	C	Admin pu
	gridFTP server data (mult)	Operations	C	localhost	C	Admin pu
	asynchronous CEMON	localhost	5120	*	C	
	locallogger	*{WN}	C	localhost	9002	
	locallogger	localhost	C	*{LB}	9001	
	Job Repository	Operations	C	localhost	3306	Currentl
<b>WN</b>						
	BPRServer	*{CE}	C	localhost	20000:25000	BPRServ
<b>LB</b>						
		WMS,UI	C	localhost	9000	queries

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		Site CE,WMS	C	localhost	9001	logging e
		UI	C	localhost	9003	queries
<b>glite-UI</b>	Network Server	localhost	C	*{WMS}	7772	
	WM Proxy	localhost	C	*{WMS}	7443	
	gridFTP server	localhost	C	*{WMS}	2811	
	Logging and Bookkeeping(LB)	localhost	C	*{LB}	9000	
	Logging and Bookkeeping(LB)	localhost	C	*{LB}	9003	
<b>WMS</b>						
	gridFTP server	*{UI},*{WN}	C	localhost	2811	
	Network Server	*{UI}	C	localhost	7772	
	WM Proxy	*{UI}	C	localhost	7443	
	CEMON asynchronous notification	*{CE}	C	localhost	5120	
	CE GRAM Gatekeeper	localhost	C	*{CE}	2119	
	CEMON synchronous	localhost	C	*{CE}	8443	
	Logging and Bookkeeping	localhost	C	*{LB}	9000	
	Logging and Bookkeeping	localhost	C	*{LB}	9001	
	Condor Collector	*{CE}	C	localhost	9618	Has infor
	Condor Collector	*{CE}	C	localhost	9618/udp	
<b>Delegation Server</b>						
	Delegation Server	*{delegation client}	C	localhost	8443	
	Delegation Client	localhost	C	*{deleg server}	8443	
<b>General Security</b>						
	mysqld (JR)	localhost	C	localhost	3306	
	myproxyd	*{WMS},*{UI}	C	localhost	7512	Standard
	VOMS	*{UI},*{WMS}	C	localhost	150xx	VO-depe

```
# C Controllable Ephemeral range (e.g. 20000-25000). Note: In practice,
# although this port-range is locally configurable using the GLOBUS_TCP_PORT_RANGE
# environment variable, the values applying at a remote service cannot be predicted.
# consequently reliable connection can only be established if all ports >1023 are
# left open for outbound connections.
```

## (External doc.) CREAM-CE network port information

Detailed network port information regarding the CREAM-CE can be found at the following link: Ports used in a CREAM CE [↗](#)

-- Main.gdebrecz - 16 Jan 2007 -- OscarKoeroo - 20-Jan-2010

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