A.) Technical specifications for an **IDP Server**

Q.ty	Server	OS	Arch	Official host certificate	Disk space	CPU and RAM	Priority
1	Virtual machine	Debian 6.0.2	i686 GNU/Linux	Yes (official certificate by CoMoDo or equivalent)	>= 10 GB	1 core >=1 GB Swap >= 1 GB	High
	Comments: By "official certificate" we mean a certificate issued by a Certificate Authority automatically recognised by the web browsers						

B.) Technical specifications for an **IDP Social**

Q.ty	Server	OS	Arch	Official host certificate	Disk space	CPU and RAM	Priority
1	Virtual machine	Debian 6.0.3	x86_64 GNU/Linux	Yes (official certificate by CoMoDo or equivalent)	>= 10 GB	1 core >= 1 GB Swap >= 1 GB	High
	Comments: By "official certificate" we mean a certificate issued by a Certificate Authority automatically recognised by the web browsers						

C.) Technical specifications for a federation like **GrIDP**

Q.ty	Server	OS	Arch	Official host certificate	Disk space	CPU and RAM	Priority
1	Virtual machine	Debian 6.0.2	i686 GNU/Linux	Yes (official certificate by CoMoDo or equivalent)	>= 10 GB	1 core >= 1 GB Swap >= 1 GB	High
	Comments: By "official certificate" we mean a certificate issued by a Certificate Authority automatically recognised by the web browsers						

D.) Technical specifications for an authorization **LDAP Server**

Q.ty	Server	OS	Arch	Official host certificate	Disk space	CPU and RAM	Priority
1	Virtual machine	Debian 6.0.2	i686 GNU/Linux	Yes (official certificate by CoMoDo or equivalent)	>= 10 GB	1 core >= 1 GB Swap >= 1 GB	Low
	Comments: This service is needed only if more Science Gateways are planned and one wants to centrally manage authorisations						

E.) Technical specifications for a **Liferay Server**

Q.ty	Server	OS	Arch	Official host certificate	Disk space	CPU and RAM	Priority
1	Virtual machine	CentOS 6.2	x86_64 GNU/Linux	Yes (official certificate by CoMoDo or equivalent)	>= 512 GB	>= 6 cores (8 cores recommended) >= 8 GB Swap >= 8 GB	High
	Comments: By "official certificate" we mean a certificate issued by a Certificate Authority automatically recognised by the web browsers						

F.) Technical specifications for the **MySQL Server for Liferay**

Q.ty	Server	OS	Arch	Official host certificate	Disk space	CPU and RAM	Priority
1	Virtual machine	Debian 6.0.3	x86_64 GNU/Linux	No (a host certificate from a Grid CA is ok)	>= 20 GB	>= 1 core >= 1 GB Swap >= 1 GB	High
	Comments: - If you plan to install more Science Gateway servers in the same location, it is highly recommended to have the MySQL server installed on a dedicated machine, different from that where the Liferay server is installed; - The version of MySQL to install is 5.1.49-3. -						

G.) Technical specifications for an **eTokenServer**

Q.ty	Server	OS	Arch	Official host certificate	Disk space	CPU and RAM	Priority
1	**Physical** machine with at least 2 USB ports	Scientific Linux 5.8 (Boron)	x86_64 GNU/Linux	No (a simple host certificate from a Grid CA is ok)	>=20 GB	>= 2 cores >= 2 GB Swap >= 2 GB	High
	Comments: - The server must be registered in the DNS with direct and inverse resolution; - The OS installation must include the X-server because it is needed to manage the etokens; - At least 1 USB eToken PRO 64KB must be available before the installation (contact SafeNet Inc. at www.safenet-inc.com to find a neighbor reseller and get prices).						