

# http://www.sbbi.net/jafs/1.0/jafs-server Schema documentation

## 1. Definition

FTP server configuration grammar

## 2. Declared Namespaces

Prefix	Namespace
Default namespace	http://www.sbbi.net/jafs/1.0/jafs-server
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema

## 3. Top-level element(s)

[server](#)

## 4. List of elements

[access](#), [accessTimeFrame](#), [authRealm](#), [blackList](#), [cipher](#), [closedMessage](#), [command](#), [commands](#), [customMessage](#), [customTrustManagers](#), [disclaimerMessage](#), [downloadFilter](#), [enabledCipherSuites](#), [entry](#), [event](#), [events](#), [feat](#), [feats](#), [fileSystem](#), [fileType](#), [filters](#), [hammeringService](#), [ipAddress](#), [issuerDN](#), [list](#), [loginMessage](#), [logLevel](#), [logoutMessage](#), [mailReport](#), [maxDownloadRate](#), [maximumSessionsNumber](#), [maxUploadRate](#), [news](#), [path](#), [port](#), [ratio](#), [reverseLookup](#), [rights](#), [root](#), [server](#), [serverLanguage](#), [serverShutdown](#), [setting](#), [singleEntry](#), [siteList](#), [sound](#), [sounds](#), [sslSettings](#), [subjectDN](#), [timeOut](#), [trustedCertificates](#), [trustManager](#), [uploadFilter](#), [user](#), [userBind](#), [users](#)

## 5. List of simple types

[AvailableLanguages](#), [BlackListReloadTime](#), [BufferSize](#), [IPTOS](#), [IPv4Address](#), [ListReloadTime](#), [LogLevel](#), [PortRange](#), [ServerPortRange](#), [SessionEvents](#)

## 6. Element declarations

### 6.1.

access			
Description	An access user rights setting.		
Content	Sequence : <a href="#">fileType?</a> , <a href="#">path{1}</a>		
Attributes	<table border="1"><tr><td><b>6.1.1.</b> rights</td><td>type: xs:string required attribute</td></tr></table>	<b>6.1.1.</b> rights	type: xs:string required attribute
<b>6.1.1.</b> rights	type: xs:string required attribute		
Used inside	<a href="#">rights</a>		

### 6.2.

authRealm			
Description	Setting to define which JAAS auth realm is used for this server.		
Content	Empty		
Attributes	<table border="1"><tr><td><b>6.2.1.</b> name</td><td>type: xs:string required attribute</td></tr></table>	<b>6.2.1.</b> name	type: xs:string required attribute
<b>6.2.1.</b> name	type: xs:string required attribute		

Used inside	<a href="#">server</a>
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### 6.3.

accessTimeFrame					
Description	CURRENTLY NOT IMPLEMENTED ! User server access time frame setting.				
Content	Empty				
Attributes	<table border="1"> <tr> <td><b>6.3.1.</b> startTime</td> <td>type: xs:time required attribute</td> </tr> <tr> <td><b>6.3.1.</b> endTime</td> <td>type: xs:time required attribute</td> </tr> </table>	<b>6.3.1.</b> startTime	type: xs:time required attribute	<b>6.3.1.</b> endTime	type: xs:time required attribute
<b>6.3.1.</b> startTime	type: xs:time required attribute				
<b>6.3.1.</b> endTime	type: xs:time required attribute				
Used inside	<a href="#">user</a>				

### 6.4.

blackList	
Description	This is the black list entries. All the IP ranges entered here won't have access to your server, if you do not want to load any list simply create a <blackList/> empty tag. Entries can be either retrieved from the internet if you provide a valid parser or entered manually with <singleEntry> tags
Content	Sequence : <a href="#">list*</a> , <a href="#">singleEntry*</a>
Used inside	<a href="#">server</a>

### 6.5.

closedMessage	

Description	Server closed message
Content	xs:string
Used inside	<a href="#">server</a>

## 6.6.

command							
Description	A ftp server command						
Content	Sequence : <a href="#">setting</a> *						
Attributes	<table border="1"> <tr> <td><b>6.6.1.</b> name</td> <td>type: xs:string required attribute</td> </tr> <tr> <td><b>6.6.1.</b> location</td> <td>type: xs:string optional attribute</td> </tr> <tr> <td><b>6.6.1.</b> className</td> <td>type: xs:string required attribute</td> </tr> </table>	<b>6.6.1.</b> name	type: xs:string required attribute	<b>6.6.1.</b> location	type: xs:string optional attribute	<b>6.6.1.</b> className	type: xs:string required attribute
	<b>6.6.1.</b> name	type: xs:string required attribute					
	<b>6.6.1.</b> location	type: xs:string optional attribute					
<b>6.6.1.</b> className	type: xs:string required attribute						
Used inside	<a href="#">commands</a>						

## 6.7.

commands
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Description	Commands available on this server, comment a <command> tag if you want to remove it from the server. Warning : commenting certain commands will break RFC compliance and maybe make your server unworkable so do it only if you know what you're doing. You can also change the className command for an alternate implementation.
Content	Sequence : <a href="#">command</a> {1,}
Used inside	<a href="#">server</a>

## 6.8.

customMessage	
Description	A message that will appear in the site list file
Content	xs:string
Used inside	<a href="#">siteList</a>

## 6.9.

customTrustManagers	
Description	Container for custom trust managers config entries
Content	Sequence : <a href="#">trustManager</a> ?
Used inside	<a href="#">sslSettings</a>

## 6.10.

cipher	
Description	An SSL cipher entry

Content	xs:string
Used inside	<a href="#">enabledCipherSuites</a>

### 6.11.

disclaimerMessage	
Description	The disclaimer message, you can use variables that are defined in the xml_auth_realm.xml file for dynamic messages support. I.E : You are client nb \${currConn}/\${maxConn}
Content	xs:string
Used inside	<a href="#">server</a>

### 6.12.

enabledCipherSuites	
Description	setting to define the list of available SSL/TLS cipher suites for the server. An empty list means that all available cipher are used by the server. A list of available cipher will be listed during server start-up if a wrong cipher name has been set. Watch out to not remove to many cipher suite since this can break FTP clients compatibility.
Content	Sequence : <a href="#">cipher</a> *
Used inside	<a href="#">sslSettings</a>

### 6.13.

entry	
Description	A certificate authentication entry setting

Content	Sequence : <a href="#">issuerDN?</a> , <a href="#">subjectDN?</a>
Used inside	<a href="#">trustedCertificates</a>

### 6.14.

event			
Description	An session event to be included in the mail activity report		
Content	Empty		
Attributes	<table border="1"> <tr> <td><b>6.14.1.</b> name</td> <td>type: <a href="#">SessionEvents</a> required attribute</td> </tr> </table>	<b>6.14.1.</b> name	type: <a href="#">SessionEvents</a> required attribute
<b>6.14.1.</b> name	type: <a href="#">SessionEvents</a> required attribute		
Used inside	<a href="#">events</a>		

### 6.15.

events	
Description	An session events set elements settings used to generate the content of the mail activity report
Content	Sequence : <a href="#">event</a> *
Used inside	<a href="#">mailReport</a>

### 6.16.

feat	
Description	A server feature command
Content	Sequence : <a href="#">setting</a> *

Attributes	<b>6.16.1.</b> name	type: xs:string required attribute
	<b>6.16.1.</b> location	type: xs:string optional attribute
	<b>6.16.1.</b> className	type: xs:string required attribute
Used inside	<a href="#">feats</a>	

### 6.17.

feats	
Description	Features available on this server, the list will appear when a FEAT command is issued by a ftp client
Content	Sequence : <a href="#">feat</a> *
Used inside	<a href="#">server</a>

### 6.18.

fileSystem	
Description	File system access settings

Content	Sequence : <a href="#">rights</a> {1,}	
Attributes	<b>6.18.1.</b> cacheDirs	type: xs:boolean required attribute
Used inside	<a href="#">server</a>	

## 6.19.

fileType	
Description	File extensions allowed to be uploaded into the path defined in the path tag. This list can be comma delimited for multiple file extension support I.E : <fileType>com,bat,exe,jpeg,txt</fileType>
Content	xs:string
Used inside	<a href="#">access</a>

## 6.20.

filters	
Description	Container for filter tags, those filter will run when x bytes are uploaded or downloaded if any of those trigger return true then the transfert will be interrupted for each filter, the fileType and triggerOffSet setting is mandatory. downloadFilter have exactly the same attributes that uploadFilter, only the tag name does change. The "fileType" setting value is a comma delimited file extension list ( I.E fileType="txt,doc" to match all txt and doc files, fileType="txt" to match only txt files ), you can use the * char for wildcard mathching. The setting "triggerOffSet" contains the value of uploaded/downloaded bytes count to trigger the filter ( I.E triggerOffSet="1000" to trigger the filter

	when 1000 bytes are uploaded/downloaded ), use the value -1 to trigger the filter when the upload or download is finished
Content	Sequence : <a href="#">downloadFilter*</a> , <a href="#">uploadFilter*</a>
Used inside	<a href="#">server</a>

## 6.21.

hammeringService							
Description	Setting for clients that "hammer" the server when the server is full						
Content	Empty						
Attributes	<table border="1"> <tr> <td><b>6.21.1.</b> value</td> <td>type: xs:boolean required attribute</td> </tr> <tr> <td><b>6.21.1.</b> hammeringTime</td> <td>type: xs:unsignedShort required attribute</td> </tr> <tr> <td><b>6.21.1.</b> bannedAfter</td> <td>type: xs:byte required attribute</td> </tr> </table>	<b>6.21.1.</b> value	type: xs:boolean required attribute	<b>6.21.1.</b> hammeringTime	type: xs:unsignedShort required attribute	<b>6.21.1.</b> bannedAfter	type: xs:byte required attribute
	<b>6.21.1.</b> value	type: xs:boolean required attribute					
	<b>6.21.1.</b> hammeringTime	type: xs:unsignedShort required attribute					
<b>6.21.1.</b> bannedAfter	type: xs:byte required attribute						
Used inside	<a href="#">server</a>						

## 6.22.

ipAddress	
Description	The ip address allowed to access this server, if nothing is set then every address will have access. To set an address range simply insert only the beginning of the IP I.E 127.0. will accept all hosts whose IP start with 127.0.

Content	Empty	
Attributes	<b>6.22.1.</b> value	type: xs:string required attribute
Used inside	<a href="#">user</a>	

### 6.23.

issuerDN		
Description	Indicates a certificate issuer DN ( verisign, globalsign, thawte ) that is trusted	
Content	xs:string	
Attributes	<b>6.23.1.</b> caseSensitive	type: xs:boolean required attribute
Used inside	<a href="#">entry</a>	

### 6.24.

list		
Description	An IP blocklist entry	
Content	Empty	
Attributes	<b>6.24.1.</b> location	type: xs:anyURI optional attribute
	<b>6.24.1.</b>	type: xs:string required attribute

	parserClassName	
	<b>6.24.1.</b> rescanTime	type: <a href="#">BlackListReloadTime</a> required attribute
	<b>6.24.1.</b> name	type: xs:string required attribute
Used inside	<a href="#">blackList</a>	

## 6.25.

logLevel		
Description	The logging level of the server	
Content	Empty	
Attributes	<b>6.25.1.</b> value	type: <a href="#">LogLevel</a> required attribute
Used inside	<a href="#">server</a>	

## 6.26.

loginMessage		
Description	Server welcome message, supports dynamic messages	

Content	xs:string
Used inside	<a href="#">server</a>

### 6.27.

logoutMessage	
Description	Server logout message, supports dynamic messages
Content	xs:string
Used inside	<a href="#">server</a>

### 6.28.

mailReport		
Description	This entry is used to define if you want to use or not mail reporting concerning session activity on the server	
Content	Sequence : <a href="#">events</a> {1}	
Attributes	<b>6.28.1.</b> enabled	type: xs:boolean required attribute
	<b>6.28.1.</b> time	type: xs:int required attribute
	<b>6.28.1.</b> smtpServerId	type: xs:string required attribute
Used inside	<a href="#">server</a>	

**6.29.**

maxDownloadRate	
Description	
The user maximum download rate in kilo bytes per seconds	
Content	
Empty	
Attributes	
<b>6.29.1.</b> value	type: xs:int required attribute
Used inside	
<a href="#">user</a>	

**6.30.**

maxUploadRate	
Description	
The user maximum upload rate in kilo bytes per seconds	
Content	
Empty	
Attributes	
<b>6.30.1.</b> value	type: xs:int required attribute
Used inside	
<a href="#">user</a>	

**6.31.**

maximumSessionsNumber	
Description	
Maximum number of clients connected simultaneously setting	

Content	Empty	
Attributes	<b>6.31.1.</b> value	type: xs:positiveInteger required attribute
	<b>6.31.1.</b> perIPAddress	type: xs:positiveInteger required attribute
Used inside	<a href="#">server</a>	

## 6.32.

news		
Description	Settings to create a news listing file on the server, this will list into this generated file all files that are not older than a certain amount of days.	
Content	Empty	
Attributes	<b>6.32.1.</b> value	type: xs:boolean required attribute
	<b>6.32.1.</b> compress	type: xs:boolean required attribute
	<b>6.32.1.</b> directory	type: xs:string required attribute
	<b>6.32.1.</b> generateTime	type: <a href="#">ListReloadTime</a> required attribute
	<b>6.32.1.</b>	type: xs:positiveInteger required attribute

	timeLimit	
	<b>6.32.1.</b> includeFiles	type: xs:boolean required attribute
Used inside	<a href="#">server</a>	

### 6.33.

port		
Description	Data transfers ports settings. Allow the server to use pasv mode or not and defines the pasv port allocation range and timeout to connect in PORT or PASV mode	
Content	Empty	
Attributes	<b>6.33.1.</b> pasv	type: xs:boolean required attribute
	<b>6.33.1.</b> pasvDownPort	type: <a href="#">PortRange</a> required attribute
	<b>6.33.1.</b> pasvUpPort	type: <a href="#">PortRange</a> required attribute
	<b>6.33.1.</b> activeDownPort	type: <a href="#">PortRange</a> optional attribute

	<b>6.33.1.</b> activeUpPort	type: <a href="#">PortRange</a> optional attribute
	<b>6.33.1.</b> timeout	type: xs:positiveInteger required attribute
	<b>6.33.1.</b> allowFXP	type: xs:boolean required attribute
	<b>6.33.1.</b> NATOnTheFlyPortsOpen	type: xs:boolean required attribute

Used inside	<a href="#">server</a>

### 6.34.

path	
Description	A file or directory path relative to the server root for an rights access setting. I.E <path>/</path> match all files and directories on the server
Content	xs:string
Used inside	<a href="#">access</a>

### 6.35.

ratio					
Description	Setting to enable ratio for the user				
Content	Empty				
Attributes	<table border="1"> <tr> <td><b>6.35.1.</b> value</td> <td>type: xs:boolean required attribute</td> </tr> <tr> <td><b>6.35.1.</b> scale</td> <td>type: xs:unsignedInt required attribute</td> </tr> </table>	<b>6.35.1.</b> value	type: xs:boolean required attribute	<b>6.35.1.</b> scale	type: xs:unsignedInt required attribute
<b>6.35.1.</b> value	type: xs:boolean required attribute				
<b>6.35.1.</b> scale	type: xs:unsignedInt required attribute				

	<b>6.35.1.</b> credit	type: xs:unsignedInt required attribute
Used inside	<a href="#">user</a>	

### 6.36.

reverseLookup		
Description	Allows reverse host name lookup, such lookup can degrade performance if set to true, since DNS queries will be done to determine the host name	
Content	Empty	
Attributes	<b>6.36.1.</b> value	type: xs:boolean required attribute
Used inside	<a href="#">server</a>	

### 6.37.

rights		
Description	Access rights setting on the file system	
Content	Sequence : <a href="#">access</a> {1,}, <a href="#">userBind</a> *	
Attributes	<b>6.37.1.</b> id	type: required attribute

Used inside	<a href="#">fileSystem</a>
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### 6.38.

root	
Description	Root directory of the server
Content	xs:string
Used inside	<a href="#">server</a>

### 6.39.

server							
Description	FTP server configuration grammar						
Content	Any : <a href="#">authRealm</a> {1}, <a href="#">blackList</a> {1}, <a href="#">closedMessage</a> {1}, <a href="#">commands</a> {1}, <a href="#">disclaimerMessage</a> {1}, <a href="#">feats</a> {1}, <a href="#">fileSystem</a> {1}, <a href="#">filters</a> {1}, <a href="#">hammeringService</a> {1}, <a href="#">loginMessage</a> {1}, <a href="#">logLevel</a> {1}, <a href="#">logoutMessage</a> {1}, <a href="#">mailReport</a> {1}, <a href="#">maximumSessionsNumber</a> {1}, <a href="#">news</a> {1}, <a href="#">port</a> {1}, <a href="#">reverseLookup</a> {1}, <a href="#">root</a> {1}, <a href="#">serverLanguage</a> {1}, <a href="#">serverShutdown</a> {1}, <a href="#">siteList</a> {1}, <a href="#">sounds</a> {1}, <a href="#">sslSettings</a> {1}, <a href="#">timeOut</a> {1}, <a href="#">users</a> {1}						
Attributes	<table border="1"> <tr> <td><b>6.39.1.</b> code</td> <td>type: xs:string required attribute</td> </tr> <tr> <td><b>6.39.1.</b> port</td> <td>type: <a href="#">ServerPortRange</a> required attribute</td> </tr> <tr> <td><b>6.39.1.</b> firewallPort</td> <td>type: <a href="#">ServerPortRange</a> required attribute</td> </tr> </table>	<b>6.39.1.</b> code	type: xs:string required attribute	<b>6.39.1.</b> port	type: <a href="#">ServerPortRange</a> required attribute	<b>6.39.1.</b> firewallPort	type: <a href="#">ServerPortRange</a> required attribute
<b>6.39.1.</b> code	type: xs:string required attribute						
<b>6.39.1.</b> port	type: <a href="#">ServerPortRange</a> required attribute						
<b>6.39.1.</b> firewallPort	type: <a href="#">ServerPortRange</a> required attribute						

	<b>6.39.1.</b> networkInterface	type: xs:string optional attribute
	<b>6.39.1.</b> wanAccess	type: xs:boolean required attribute
	<b>6.39.1.</b> controlTOS	type: <a href="#">IPTOS</a> optional attribute
	<b>6.39.1.</b> dataTOS	type: <a href="#">IPTOS</a> optional attribute
Used inside		

## 6.40.

serverLanguage	
Description	
	Internationalization settings for the server

Content	Empty				
Attributes	<table border="1"> <tr> <td><b>6.40.1.</b> locale</td> <td>type: <a href="#">AvailableLanguages</a> required attribute</td> </tr> <tr> <td><b>6.40.1.</b> outputCharSet</td> <td>type: xs:string optional attribute</td> </tr> </table>	<b>6.40.1.</b> locale	type: <a href="#">AvailableLanguages</a> required attribute	<b>6.40.1.</b> outputCharSet	type: xs:string optional attribute
<b>6.40.1.</b> locale	type: <a href="#">AvailableLanguages</a> required attribute				
<b>6.40.1.</b> outputCharSet	type: xs:string optional attribute				
Used inside	<a href="#">server</a>				

## 6.41.

serverShutdown			
Description	Setting concerning server shutdown sequence		
Content	Empty		
Attributes	<table border="1"> <tr> <td><b>6.41.1.</b> warnClients</td> <td>type: xs:boolean required attribute</td> </tr> </table>	<b>6.41.1.</b> warnClients	type: xs:boolean required attribute
<b>6.41.1.</b> warnClients	type: xs:boolean required attribute		
Used inside	<a href="#">server</a>		

## 6.42.

setting				
Description				
		A generic setting entry for a configuration entry		
Content				
		xs:string		
Attributes				
		<table border="1"> <tr> <td><b>6.42.1.</b> name</td> <td>type: xs:string required attribute</td> </tr> </table>	<b>6.42.1.</b> name	type: xs:string required attribute
<b>6.42.1.</b> name	type: xs:string required attribute			
Used inside				
		<a href="#">command</a> <a href="#">feat</a> <a href="#">trustManager</a> <a href="#">uploadFilter</a> <a href="#">downloadFilter</a>		

## 6.43.

singleEntry								
Description								
		A custom entry for a blacklisted IP						
Content								
		Empty						
Attributes								
		<table border="1"> <tr> <td><b>6.43.1.</b> name</td> <td>type: xs:string required attribute</td> </tr> <tr> <td><b>6.43.1.</b> startIpRange</td> <td>type: xs:string required attribute</td> </tr> <tr> <td><b>6.43.1.</b> stopIpRange</td> <td>type: xs:string required attribute</td> </tr> </table>	<b>6.43.1.</b> name	type: xs:string required attribute	<b>6.43.1.</b> startIpRange	type: xs:string required attribute	<b>6.43.1.</b> stopIpRange	type: xs:string required attribute
<b>6.43.1.</b> name	type: xs:string required attribute							
<b>6.43.1.</b> startIpRange	type: xs:string required attribute							
<b>6.43.1.</b> stopIpRange	type: xs:string required attribute							
Used inside								
		<a href="#">blackList</a>						

## 6.44.

siteList											
Description	Settings to create a site listing file on the server, this is an automatic task										
Content	Sequence : <a href="#">customMessage</a> {1}										
Attributes	<table border="1"> <tr> <td><b>6.44.1.</b> value</td> <td>type: xs:boolean required attribute</td> </tr> <tr> <td><b>6.44.1.</b> compress</td> <td>type: xs:boolean required attribute</td> </tr> <tr> <td><b>6.44.1.</b> directory</td> <td>type: xs:string required attribute</td> </tr> <tr> <td><b>6.44.1.</b> generateTime</td> <td>type: <a href="#">ListReloadTime</a> required attribute</td> </tr> <tr> <td><b>6.44.1.</b> includeFiles</td> <td>type: xs:boolean required attribute</td> </tr> </table>	<b>6.44.1.</b> value	type: xs:boolean required attribute	<b>6.44.1.</b> compress	type: xs:boolean required attribute	<b>6.44.1.</b> directory	type: xs:string required attribute	<b>6.44.1.</b> generateTime	type: <a href="#">ListReloadTime</a> required attribute	<b>6.44.1.</b> includeFiles	type: xs:boolean required attribute
	<b>6.44.1.</b> value	type: xs:boolean required attribute									
	<b>6.44.1.</b> compress	type: xs:boolean required attribute									
	<b>6.44.1.</b> directory	type: xs:string required attribute									
	<b>6.44.1.</b> generateTime	type: <a href="#">ListReloadTime</a> required attribute									
<b>6.44.1.</b> includeFiles	type: xs:boolean required attribute										
Used inside	<a href="#">server</a>										

## 6.45.

sound	
Description	A sound setting for a server event, the content of the tag is the WAV file path to play
Content	xs:string

Attributes	<b>6.45.1.</b> event	type: <a href="#">SessionEvents</a> required attribute
Used inside	<a href="#">sounds</a>	

### 6.46.

sounds		
Description	Sound events, link a wav file to play a sound on an server event, for each desired event insert a wav file path that will be played for the event	
Content	Sequence : <a href="#">sound</a> *	
Used inside	<a href="#">server</a>	

### 6.47.

sslSettings		
Description	This is the SSL settings, it allows you to verify certificates provided by remote hosts and reject them if they are not listed in the trustedEntries list.	
Content	Sequence : <a href="#">customTrustManagers?</a> , <a href="#">enabledCipherSuites?</a> , <a href="#">trustedCertificates?</a>	
Attributes	<b>6.47.1.</b> isSSLServer	type: xs:boolean required attribute

	<b>6.47.1.</b> needCertificate	type: xs:boolean required attribute
	<b>6.47.1.</b> defaultProt	type: xs:string required attribute
	<b>6.47.1.</b> certsConfName	type: xs:string optional attribute
Used inside	<a href="#">server</a>	

**6.48.**

subjectDN
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Description	A certificate subject configuration DN ( Distinguished Name ) the common name of the subject (CN) the unit of the subject (OU) the organization of the subject (O) the city of the subject (ST) the town of the subject (L) the country of the subject (C) <subjectDN caseSensitive="false">CN=john doe,O=DOE.*,C=CH</subjectDN> means accepts only hosts that connect with a signed certificates whose CN entry match "john doe" and whose in company O entry start with "DOE" in country (C entry) is CH. All values after equals are regular expressions, but those expressions do not start with "/" nor finish with "/"	
Content	xs:string	
Attributes	<b>6.48.1.</b> caseSensitive	type: xs:boolean required attribute
Used inside	<a href="#">entry</a>	

### 6.49.

timeOut		
Description	timeout in seconds when the client is identified or not into the system	
Content	Empty	
Attributes	<b>6.49.1.</b> value	type: xs:unsignedInt required attribute
Used inside	<a href="#">server_user</a>	

## 6.50.

trustedCertificates	
Description	Configuration for a trusted X509 certificates, remove the <entry> tags if you want to skip this certificate checking. Any host certificate that does not match any entry element will be disconnected from the server make sure that the needCertificate setting is enabled otherwise such certificate checks are not made. The subjectDN and issuerDN can contain regular expressions for each DN values the subjectDN or subjectDN are not always both needed but 1 setting is needed at least. Add multiple Entry tags to affine certificate matching access.
Content	Sequence : <a href="#">entry</a> *
Used inside	<a href="#">sslSettings</a>

## 6.51.

trustManager			
Description	A custom trust manager entry config for the server. Such managers are responsible to check the SSL certificate data during SSL session creation, you can plug your own trust manager to accept or reject peer host certificates.		
Content	Sequence : <a href="#">setting</a> *		
Attributes	<table border="1"> <tr> <td><b>6.51.1.</b> trustManagerFactory</td> <td>type: xs:string required attribute</td> </tr> </table>	<b>6.51.1.</b> trustManagerFactory	type: xs:string required attribute
<b>6.51.1.</b> trustManagerFactory	type: xs:string required attribute		

Used inside	<a href="#">customTrustManagers</a>
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## 6.52.

uploadFilter							
Description	Setting for an upload filter, this filter will be triggered during uploads for certain file type and after a set number of bytes are uploaded.						
Content	Sequence : <a href="#">setting</a> {2,}						
Attributes	<table border="1"> <tr> <td><b>6.52.1.</b> name</td> <td>type: xs:string required attribute</td> </tr> <tr> <td><b>6.52.1.</b> location</td> <td>type: xs:string optional attribute</td> </tr> <tr> <td><b>6.52.1.</b> className</td> <td>type: xs:string required attribute</td> </tr> </table>	<b>6.52.1.</b> name	type: xs:string required attribute	<b>6.52.1.</b> location	type: xs:string optional attribute	<b>6.52.1.</b> className	type: xs:string required attribute
	<b>6.52.1.</b> name	type: xs:string required attribute					
	<b>6.52.1.</b> location	type: xs:string optional attribute					
<b>6.52.1.</b> className	type: xs:string required attribute						
Used inside	<a href="#">filters</a>						

## 6.53.

downloadFilter
----------------

Description	Setting for a download filter, this filter will be triggered during downloads for certain file types and after a designed number of bytes are downloaded.	
Content	Sequence : <a href="#">setting</a> {2,}	
Attributes	<b>6.53.1.</b> name	type: xs:string required attribute
	<b>6.53.1.</b> location	type: xs:string optional attribute
	<b>6.53.1.</b> className	type: xs:string required attribute
Used inside	<a href="#">filters</a>	

## 6.54.

user	
Description	A user entry for server access
Content	Sequence : <a href="#">accessTimeFrame</a> *, <a href="#">ipAddress</a> ?, <a href="#">maxDownloadRate</a> {1}, <a href="#">maxUploadRate</a> {1}, <a href="#">ratio</a> {1}, <a href="#">timeOut</a> {1}

Attributes	<b>6.54.1.</b> name	type: xs:string required attribute
	<b>6.54.1.</b> account	type: xs:boolean required attribute
	<b>6.54.1.</b> maxConnNb	type: xs:int required attribute
	<b>6.54.1.</b> userHome	type: xs:string optional attribute

	<b>6.54.1.</b> secureControlTransport	type: xs:boolean optional attribute
	<b>6.54.1.</b> secureDataTransport	type: xs:boolean optional attribute
Used inside	<a href="#">users</a>	

### 6.55.

userBind	
Description	Element to bind a user to a file system access setting entry, the content is a regular expression matching an user name (or a set of names) defined in the server JAAS authentication realm.
Content	xs:string
Used inside	<a href="#">rights</a>

### 6.56.

users
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Description	Users tag for user settings
Content	Sequence : <a href="#">user</a> *
Used inside	<a href="#">server</a>

## 7. Simple types declarations

### 7.1.

BufferSize	
Description	No type description provided
Base type	xs:unsignedInt
Max value	4096
Min value	256

### 7.2.

ServerPortRange	
Description	No type description provided
Base type	xs:unsignedInt
Max value	65536
Min value	1

### 7.3.

PortRange	
Description	No type description provided
Base type	xs:unsignedInt
Max value	65536

Min value	1024
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#### 7.4.

BlackListReloadTime	
Description	
	No type description provided
Base type	
	xs:unsignedByte
Max value	
	48
Min value	
	1

#### 7.5.

ListReloadTime	
Description	
	No type description provided
Base type	
	xs:unsignedInt
Max value	
	44640
Min value	
	1

#### 7.6.

LogLevel	
Description	
	No type description provided
Base type	
	xs:string
Possible values	
	ALL   DEBUG   INFO   WARN   ERROR   FATAL

#### 7.7.

SessionEvents	
Description	
	No type description provided

Base type	xs:string
Possible values	*   onConnect   onDisconnect   onLogin   onTimeout   onWelcome   onWrongCredentials   onFileDelete   onFileRenamed   onFileUploadFinished   onFileUploadStart   onFailedFileUpload   onAbortedFileUpload   onFileUploadFilterMatch   onFileDownloadFinished   onFileDownloadStart   onFailedFileDownload   onAbortedFileDownload   onFileDownloadFilterMatch

### 7.8.

IPTOS	
Description	
No type description provided	
Base type	
xs:string	
Possible values	
NORMAL   LOWCOST   RELIABILITY   THROUGHPUT   LOWDELAY   SECURITY	

### 7.9.

AvailableLanguages	
Description	
No type description provided	
Base type	
xs:string	
Possible values	
fr_FR   en_US	

### 7.10.

IPv4Address	
Description	
No type description provided	
Base type	
xs:string	

Pattern	((0 1[0-9]{0,2} 2([0-4][0-9]? 5[0-5]? [6-9])? [3-9][0-9]?).\n){3}(0 1[0-9]{0,2} 2([0-4][0-9]? 5[0-5]? [6-9])? [3-9][0-9]?)
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