

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

## 1. Definition

JAFS service configuration grammar

## 2. Declared Namespaces

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

## 3. Top-level element(s)

[jafs-service](#)

## 4. List of elements

[adapter](#), [auth-realms](#), [cacerts-store](#), [caStoreFile](#), [crl](#), [crls](#), [dynamic-dns-client](#), [events-listeners](#), [events-receivers](#), [fw-nat-ports-mapper](#), [jafs-service](#), [key-store](#), [keyStoreFile](#), [listener](#), [login-configuration](#), [login-module](#), [logs-dir](#), [mail-settings](#), [management](#), [network-interface](#), [network-interfaces](#), [receiver](#), [scheduler](#), [script](#), [scripts](#), [server-event](#), [servers-config-dir](#), [services-data-dir](#), [services-event](#), [session-event](#), [setting](#), [smtp](#), [ssl-settings](#), [stats-service](#), [store-settings](#), [target-events](#), [task](#), [whois-server](#)

## 5. List of simple types

[AvailableLanguages](#), [ConsolePortRange](#), [DynamicIPCheckTime](#), [JAASLoginModuleFlagsValues](#), [ManagementSecurityProtocol](#), [ReceiverListeningTime](#), [ServerEvents](#), [ServicesEvents](#), [SessionEvents](#), [StatsComputeTime](#)

## 6. Element declarations

## 6.1.

adapter					
Description	An JMX adapter config, these JMX adapters are basically used to access the server MBeans from outside.				
Content	Sequence : <a href="#">setting</a> *				
Attributes	<table border="1"> <tr> <td><b>6.1.1.</b> name</td> <td>type: xs:string required attribute</td> </tr> <tr> <td><b>6.1.1.</b> class-name</td> <td>type: xs:string required attribute</td> </tr> </table>	<b>6.1.1.</b> name	type: xs:string required attribute	<b>6.1.1.</b> class-name	type: xs:string required attribute
	<b>6.1.1.</b> name	type: xs:string required attribute			
<b>6.1.1.</b> class-name	type: xs:string required attribute				
Used inside	<a href="#">management</a>				

## 6.2.

dynamic-dns-client					
Description	A dynamic DNS client to update host names registered with DynDNS.org like companies				
Content	Sequence : <a href="#">setting</a> {1}				
Attributes	<table border="1"> <tr> <td><b>6.2.1.</b> id</td> <td>type: xs:string required attribute</td> </tr> <tr> <td><b>6.2.1.</b> class-name</td> <td>type: xs:string required attribute</td> </tr> </table>	<b>6.2.1.</b> id	type: xs:string required attribute	<b>6.2.1.</b> class-name	type: xs:string required attribute
	<b>6.2.1.</b> id	type: xs:string required attribute			
<b>6.2.1.</b> class-name	type: xs:string required attribute				

Used inside	<a href="#">network-interface</a>

### 6.3.

jafs-service	
Description	This xml grammar is used for global JAFS system settings
Content	Any : <a href="#">auth-realms</a> {1}, <a href="#">events-listeners</a> {1}, <a href="#">events-receivers</a> {1}, <a href="#">logs-dir</a> {1}, <a href="#">mail-settings</a> {1}, <a href="#">management</a> {1}, <a href="#">network-interfaces</a> {1}, <a href="#">scheduler</a> {1}, <a href="#">scripts</a> {1}, <a href="#">servers-config-dir</a> {1}, <a href="#">services-data-dir</a> {1}, <a href="#">ssl-settings</a> {1}, <a href="#">stats-service</a> {1}, <a href="#">whois-server</a> {1}
Used inside	

### 6.4.

auth-realms			
Description	authentication realms, define here the login modules you want to use with your different servers, the realms are using JAAS PAM architecture. For more info about JAAS take a look at <a href="http://java.sun.com/j2se/1.4.1/docs/guide/security/jaas/JAASRefG">http://java.sun.com/j2se/1.4.1/docs/guide/security/jaas/JAASRefG</a>		
Content	Choice : <a href="#">login-configuration</a> {1}		
Attributes	<table border="1"> <tr> <td><b>6.4.1.</b> usable</td> <td>type: xs:boolean required attribute</td> </tr> </table>	<b>6.4.1.</b> usable	type: xs:boolean required attribute
<b>6.4.1.</b> usable	type: xs:boolean required attribute		

Used inside	<a href="#">jafs-service</a>
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## 6.5.

cacerts-store		
Description		
Trusted CA certificates key store, all signed clients X509 certificates by a CA contained in this key store will be accepted		
Content		
Sequence : <a href="#">caStoreFile</a> {1}		
Attributes	<b>6.5.1.</b> password	type: xs:string
	<b>6.5.1.</b> type	type: xs:string
	<b>6.5.1.</b> algo	type: xs:string optional attribute
	<b>6.5.1.</b> provider	type: xs:string optional attribute
Used inside		
<a href="#">store-settings</a>		

## 6.6.

crl	
Description	
A crl (Certificate Revocation List) config entry	
Content	
Empty	

Attributes	<b>6.6.1.</b> location	type: xs:anyURI required attribute
	<b>6.6.1.</b> name	type: xs:string required attribute
Used inside	<a href="#">crls</a>	

## 6.7.

crls		
Description	Settings to which define CRLs (Certificate Revocation List) must be used to check a client certificate	
Content	Sequence : <a href="#">crl</a> {1,}	
Attributes	<b>6.7.1.</b> reload-time	type: xs:int required attribute
Used inside	<a href="#">store-settings</a>	

## 6.8.

servers-config-dir		
Description	this is the servers config files directory, put all the server config files you want to use here	
Content	xs:string	
Used inside	<a href="#">jafs-service</a>	

## 6.9.

server-event			
Description	A server type event container tag		
Content	Empty		
Attributes	<table border="1"><tr><td><b>6.9.1.</b> name</td><td>type: <a href="#">ServerEvents</a> required attribute</td></tr></table>	<b>6.9.1.</b> name	type: <a href="#">ServerEvents</a> required attribute
<b>6.9.1.</b> name	type: <a href="#">ServerEvents</a> required attribute		
Used inside	<a href="#">target-events</a>		

## 6.10.

services-event			
Description	A services type event container tag		
Content	Empty		
Attributes	<table border="1"><tr><td><b>6.10.1.</b> name</td><td>type: <a href="#">ServicesEvents</a> required attribute</td></tr></table>	<b>6.10.1.</b> name	type: <a href="#">ServicesEvents</a> required attribute
<b>6.10.1.</b> name	type: <a href="#">ServicesEvents</a> required attribute		
Used inside	<a href="#">target-events</a>		

## 6.11.

session-event	
Description	A session type event container tag
Content	Empty

Attributes	<b>6.11.1.</b> name	type: <a href="#">SessionEvents</a> required attribute
	Used inside <a href="#">target-events</a>	

## 6.12.

network-interfaces	
Description	Network interface configuration entries container.
Content	Sequence : <a href="#">network-interface</a> {1,}
Used inside	<a href="#">jafs-service</a>

## 6.13.

network-interface		
Description	A network interface configuration entry.	
Content	Sequence : <a href="#">dynamic-dns-client</a> *, <a href="#">fw-nat-ports-mapper</a> ?	
Attributes	<b>6.13.1.</b> id	type: xs:string required attribute
	<b>6.13.1.</b> default	type: xs:boolean optional attribute

	<b>6.13.1.</b> name	type: xs:string required attribute
	<b>6.13.1.</b> fw-host-name	type: xs:string optional attribute
	<b>6.13.1.</b> dyn-ip-check-time	type: <a href="#">DynamicIPCheckTime</a> optional attribute
	<b>6.13.1.</b> input-buffer	type: xs:positiveInteger optional attribute
	<b>6.13.1.</b> output-buffer	type: xs:positiveInteger optional attribute
Used inside	<a href="#">network-interfaces</a>	

## 6.14.

key-store		
Description		
		key store settings, the key store contains your server certificate
Content		Sequence : <a href="#">keyStoreFile</a> {1}
Attributes		
	<b>6.14.1.</b> password	type: xs:string
	<b>6.14.1.</b>	type: xs:string

	type	
	<b>6.14.1.</b> cert-alias	type: xs:string optional attribute
	<b>6.14.1.</b> algo	type: xs:string optional attribute
	<b>6.14.1.</b> provider	type: xs:string optional attribute
Used inside	<a href="#">store-settings</a>	

## 6.15.

listener		
Description	An events listener configuration entry, these listeners can be used to receive events and then handle them as they need to be, see interface <code>net.sbbi.jafs.events.PushEventsListener</code> for more information to create your own listener	
Content	Sequence : <a href="#">setting</a> *, <a href="#">target-events</a> {1}	
Attributes	<b>6.15.1.</b> name	type: xs:string required attribute
	<b>6.15.1.</b> class-name	type: xs:string required attribute

	<b>6.15.1.</b> asynchronous	type: xs:boolean optional attribute
Used inside	<a href="#">events-listeners</a>	

## 6.16.

login-configuration		
Description	A set of login modules configuration entry, all login modules entries within a login module configuration will be used to authenticate the user.	
Content	Sequence : <a href="#">login-module</a> {1}	
Attributes	<b>6.16.1.</b> name	type: xs:string required attribute
	<b>6.16.1.</b> OTPEnabled	type: xs:string required attribute

Used inside	<a href="#">auth-realms</a>

## 6.17.

login-module			
Description	A login module configuration entry		
Content	Sequence : <a href="#">setting</a> {1}		
Attributes	<table border="1"> <tr> <td><b>6.17.1.</b> flag</td> <td>type: <a href="#">JAASLoginModuleFlagsValues</a> required attribute</td> </tr> </table>	<b>6.17.1.</b> flag	type: <a href="#">JAASLoginModuleFlagsValues</a> required attribute
<b>6.17.1.</b> flag	type: <a href="#">JAASLoginModuleFlagsValues</a> required attribute		

	<b>6.17.1.</b> class-name	type: xs:string required attribute
Used inside	<a href="#">login-configuration</a>	

### **6.18.**

logs-dir	
Description	directory path where server logs will be saved
Content	xs:string
Used inside	<a href="#">jafs-service</a>

### **6.19.**

events-listeners	
Description	Events listener classes container.
Content	Sequence : <a href="#">listener</a> *
Used inside	<a href="#">jafs-service</a>

### **6.20.**

events-receivers	
Description	Events receivers classes container.
Content	Sequence : <a href="#">receiver</a> *
Used inside	<a href="#">jafs-service</a>

## 6.21.

fw-nat-ports-mapper	
Description	Driver for automatic nat ports mappings on the firewall.
Content	Sequence : <a href="#">setting</a> *
Attributes	<b>6.21.1.</b> class-name type: xs:string required attribute
	<b>6.21.1.</b> mappings-monitoring-time type: xs:int optional attribute
Used inside	<a href="#">network-interface</a>

## 6.22.

management	
Description	settings for the JAFS JMX based management interface
Content	Sequence : <a href="#">adapter</a> *
Attributes	<b>6.22.1.</b> locale type: <a href="#">AvailableLanguages</a> required attribute

	<b>6.22.1.</b> manage-session	type: xs:boolean required attribute
	<b>6.22.1.</b> plug-to-server	type: xs:boolean required attribute
	<b>6.22.1.</b> server-domain	type: xs:string optional attribute
	<b>6.22.1.</b> mbeans-prefix	type: xs:string optional attribute
Used inside	<a href="#">jafs-service</a>	

### **6.23.**

mail-settings	
Description	setting to define some mail profiles which will be used to send mails.
Content	Sequence : <a href="#">smtp</a> {1}
Used inside	<a href="#">jafs-service</a>

## 6.24.

keyStoreFile	
Description	the path to the keystore file
Content	xs:string
Used inside	<a href="#">key-store</a>

## 6.25.

caStoreFile	
Description	the path to the certificates authorities store file
Content	xs:string
Used inside	<a href="#">cacerts-store</a>

## 6.26.

receiver					
Description	An events receiver configuration entry, these receivers can be used to receive events from the EIS, see <a href="#">interface net.sbbi.jafs.events.PullEventsListener</a> for more information to create your own receivers				
Content	Sequence : <a href="#">setting</a> *				
Attributes	<table border="1"> <tr> <td><b>6.26.1.</b> name</td> <td>type: xs:string required attribute</td> </tr> <tr> <td><b>6.26.1.</b> class-name</td> <td>type: xs:string required attribute</td> </tr> </table>	<b>6.26.1.</b> name	type: xs:string required attribute	<b>6.26.1.</b> class-name	type: xs:string required attribute
<b>6.26.1.</b> name	type: xs:string required attribute				
<b>6.26.1.</b> class-name	type: xs:string required attribute				

	<b>6.26.1.</b> listening-time	type: <a href="#">ReceiverListeningTime</a> required attribute
Used inside	<a href="#">events-receivers</a>	

### 6.27.

scheduler	
Description	scheduler task, currently not in use if you need an external task you can go ahead, simple make sure that this task class implements the Executable avalon interface
Content	Sequence : <a href="#">task</a> {1}
Used inside	<a href="#">jafs-service</a>

### 6.28.

target-events	
Description	A simple session, service or server events subscriptions container for a listener.
Content	Sequence : <a href="#">server-event</a> *, <a href="#">services-event</a> *, <a href="#">session-event</a> *
Used inside	<a href="#">listener</a>

### 6.29.

task	
Description	A custom task to execute each X mins.
Content	Sequence : <a href="#">setting</a> *

Attributes	<b>6.29.1.</b> name	type: xs:string required attribute
	<b>6.29.1.</b> interval	type: xs:unsignedInt required attribute
	<b>6.29.1.</b> class-name	type: xs:string required attribute
Used inside	<a href="#">scheduler</a>	

### 6.30.

script		
Description		
		element to define where to load a scripts file
Content		
		Empty
Attributes	<b>6.30.1.</b> file	type: xs:string required attribute
	Used inside	
		<a href="#">scripts</a>

### 6.31.

scripts		
Description		
		scripts location for variables output in server messages

Content	Choice : <a href="#">script{1}</a>
Used inside	<a href="#">jafs-service</a>

### 6.32.

services-data-dir	
Description	this is the directory where some files used for server state persistence will be stored this is the directory where some files used for server state persistence will be stored
Content	xs:string
Used inside	<a href="#">jafs-service</a>

### 6.33.

setting			
Description	a setting entry for the login module		
Content	xs:string		
Attributes	<table border="1"> <tr> <td><b>6.33.1.</b> name</td> <td>type: xs:string required attribute</td> </tr> </table>	<b>6.33.1.</b> name	type: xs:string required attribute
<b>6.33.1.</b> name	type: xs:string required attribute		
Used inside	<a href="#">adapter</a> <a href="#">dynamic-dns-client</a> <a href="#">listener</a> <a href="#">login-module</a> <a href="#">fw-nat-ports-mapper</a> <a href="#">receiver</a> <a href="#">task</a>		

### 6.34.

smtp	
Description	element to define some settings so that they can be used to send mails.

Content	Empty																		
Attributes	<table border="1"> <tr> <td><b>6.34.1.</b> id</td> <td>type: xs:string required attribute</td> </tr> <tr> <td><b>6.34.1.</b> host</td> <td>type: xs:string required attribute</td> </tr> <tr> <td><b>6.34.1.</b> user</td> <td>type: xs:string</td> </tr> <tr> <td><b>6.34.1.</b> password</td> <td>type: xs:string</td> </tr> <tr> <td><b>6.34.1.</b> from</td> <td>type: xs:string required attribute</td> </tr> <tr> <td><b>6.34.1.</b> to</td> <td>type: xs:string required attribute</td> </tr> <tr> <td><b>6.34.1.</b> cc</td> <td>type: xs:string</td> </tr> <tr> <td><b>6.34.1.</b> bcc</td> <td>type: xs:string</td> </tr> <tr> <td><b>6.34.1.</b> ni</td> <td>type: xs:string optional attribute</td> </tr> </table>	<b>6.34.1.</b> id	type: xs:string required attribute	<b>6.34.1.</b> host	type: xs:string required attribute	<b>6.34.1.</b> user	type: xs:string	<b>6.34.1.</b> password	type: xs:string	<b>6.34.1.</b> from	type: xs:string required attribute	<b>6.34.1.</b> to	type: xs:string required attribute	<b>6.34.1.</b> cc	type: xs:string	<b>6.34.1.</b> bcc	type: xs:string	<b>6.34.1.</b> ni	type: xs:string optional attribute
<b>6.34.1.</b> id	type: xs:string required attribute																		
<b>6.34.1.</b> host	type: xs:string required attribute																		
<b>6.34.1.</b> user	type: xs:string																		
<b>6.34.1.</b> password	type: xs:string																		
<b>6.34.1.</b> from	type: xs:string required attribute																		
<b>6.34.1.</b> to	type: xs:string required attribute																		
<b>6.34.1.</b> cc	type: xs:string																		
<b>6.34.1.</b> bcc	type: xs:string																		
<b>6.34.1.</b> ni	type: xs:string optional attribute																		
Used inside	<a href="#">mail-settings</a>																		

### 6.35.

ssl-settings	
Description	generic ssl settings for SSL servers and the SSL management console
Content	Sequence : <a href="#">store-settings</a> {1,}
Used inside	<a href="#">jafs-service</a>

### 6.36.

stats-service			
Description	statistics service settings		
Content	Empty		
Attributes	<table border="1"> <tr> <td><b>6.36.1.</b> time</td> <td>type: <a href="#">StatsComputeTime</a> required attribute</td> </tr> </table>	<b>6.36.1.</b> time	type: <a href="#">StatsComputeTime</a> required attribute
<b>6.36.1.</b> time	type: <a href="#">StatsComputeTime</a> required attribute		
Used inside	<a href="#">jafs-service</a>		

### 6.37.

store-settings	
Description	A setting entry to define a server certificate keystore/certificate alias, a keystore to define the accepted CA certificats issuers and a list of CRL to check client certificates.
Content	Sequence : <a href="#">cacerts-store</a> {1}, <a href="#">crls</a> *, <a href="#">key-store</a> {1}

Attributes	<b>6.37.1.</b> name	type: xs:string required attribute
	<b>6.37.1.</b> system-default	type: xs:boolean optional attribute
Used inside	<a href="#">ssl-settings</a>	

## 6.38.

whois-server	
Description	Server host name to be used for FTP clients session whois lookups.
Content	xs:string
Used inside	<a href="#">jafs-service</a>

## 7. Simple types declarations

### 7.1.

DynamicIPCheckTime	
Description	No type description provided
Base type	xs:unsignedByte
Max value	25
Min value	1

### 7.2.

ManagementSecurityProtocol
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Description	No type description provided
Base type	xs:string
Possible values	SSL   TLS   none

### 7.3.

JAASLoginModuleFlagsValues	
Description	No type description provided
Base type	xs:string
Possible values	Requisite   Required   Sufficient   Optional

### 7.4.

ConsolePortRange	
Description	No type description provided
Base type	xs:unsignedInt
Max value	65536
Min value	1024

### 7.5.

ReceiverListeningTime	
Description	No type description provided
Base type	xs:unsignedInt
Max value	3600000
Min value	100

### 7.6.

StatsComputeTime	
Description	No type description provided
Base type	xs:unsignedInt
Max value	43200
Min value	10

### 7.7.

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

### 7.8.

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   onInputBufferMaxSizeReceived

### 7.9.

ServerEvents	
Description	No type description provided
Base type	xs:string
Possible values	*   onServerClosed   onServerOpened   onServerStarted   onServerStopped   onServerFatalError   onBannedUser   onHammering   onBlackListMatch   onTooManyConns   onTooManyConnsPerIp   onMemoryShortage

## 7.10.

ServicesEvents	
Description	No type description provided
Base type	xs:string
Possible values	*   onStatRefreshed   onIPChanged   onIPBlackListReload   onCRLReload