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Provides an API to control the mail daemons (postfix, dovecot)

Available with version: 1.0

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Provides a miscellaneous API for getting information about the system.

Available with version: 1.0

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Provides an API to manage domains.

Available with version: 1.0

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Provides an API to manage mailboxes.

Available with version: 1.0

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Provides an API to manage aliases.

Available with version: 1.0

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Provides an API to manage Postfix header filter

Available with version: 1.0

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Available with version: 1.0

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Provides an API to browse maildir

Available with version: 1.0

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## --- Definitions ---

### Boolean:

Presents as strings objects: 'true' and 'false'

### DateTime:

By default uses format: 'YYYY-mm-ddTHH:MM:SS.000Z'

For file objects: 'dd-mm-YYYY HH:MM:SS'

### Objects:

Alieas	Fully qualified name
SearchFilter	Wstk::Models::SearchFilter
ServerStatus	PFADMIN::Models::ServerStatus
SystemStatus	PFADMIN::Models::SystemStatus
Domain	PFADMIN::Models::Domain
Mailbox	PFADMIN::Models::Mailbox
Alias	PFADMIN::Models::Alias
FilterRule	PFADMIN::Models::FilterRule
FileItem	PFADMIN::Models::FileItem

--- Services ---

DaemonsControlService

Method	Arguments	Return	Description
postfixStart		true	start Postfix
postfixStop		true	stop Postfix
postfixReload		true	reload Postfix configurations
postfixGetStatus		ServerStatus	server current status
dovecotStart		true	also as above
dovecotStop		true	also as above
dovecotReload		true	also as above
dovecotGetStatus		ServerStatus	also as above
logRead	[SearchFilter]	Array of strings	maillog reader

SystemInformationService

Method	Arguments	Return	Description
getStatus		SystemStatus	info about runtime (OS and so on)

### DomainsManagementService

Method	Arguments	Return	Description
<b>add</b>	[Domain]	Domain	add a new doamin
<b>update</b>	[Domain]	Domain	update domain object properties
<b>delete</b>	[domainName]	Domain	delete domain with related mailboxes and aliases
<b>get</b>	[domainName]	Domain or null	get domain object by name
<b>list</b>	[SearchFilter]	array of Domain	get collection of domains (with optional filtering)
<b>syncData</b>		true	synchronize db data with Postfix/Dovecot configs

### MailboxesManagementService

Method	Arguments	Return	Description
<b>add</b>	[Mailbox]	Mailbox	add a new mailbox
<b>update</b>	[Mailbox]	Mailbox	update mailbox object properties
<b>delete</b>	[boxName]	Mailbox	delete mailbox (from db and filesystem)
<b>get</b>	[boxName]	Mailbox or null	get mailbox object by name
<b>list</b>	[domainName, SearchFilter]	array of Mailbox	get collection of mailboxes (+ optional filtering)
<b>getStatus</b>	[boxName]	scheme free object	it's equal 'doveadm mailbox status'
<b>syncData</b>		true	synchronize db data with Postfix/Dovecot configs

### AliasesManagementService

Method	Arguments	Return	Description
<b>add</b>	[Alias]	Alias	add a new alias
<b>update</b>	[Alias]	Alias	update alias object properties
<b>delete</b>	[aliasName]	Alias	delete alias
<b>get</b>	[aliasName]	Alias or null	get alias object by name
<b>list</b>	[domainName, SearchFilter]	array of Alias	get collection of aliases (+ optional filtering)
<b>syncData</b>		true	synchronize db data with Postfix/Dovecot configs

**HelofiltersManagementService**

Method	Arguments	Return	Description
add	[FilterRule]	FilterRule	adding a new rule
update	[FilterRule]	FilterRule	update rule object properties
delete	[id]	FilterRule	delete alias
get	[id]	FilterRule null	get rule object by id
list	[SearchFilter]	array of FilterRule	get collection of rules (+ optional filtering)
syncData		true or RPC Exception	synchronize db data with related configs

**SenderFiltersManagementService**

Method	Arguments	Return	Description
add	[FilterRule]	FilterRule	adding a new rule
update	[FilterRule]	FilterRule	update rule object properties
delete	[id]	FilterRule	delete rule
get	[id]	FilterRule or null	get rule object by id
list	[SearchFilter]	array of FilterRule	get collection of rules (+ optional filtering)
syncData		true	synchronize db data with related configs

**HeaderFiltersManagementService**

Method	Arguments	Return	Description
readBody		filter body	read Postfix haders filter file
writeBody	[data]	true	write Postfix haders filter file

**BodyFiltersManagementService**

Method	Arguments	Return	Description
readBody		filter body	read Postfix body filter file
writeBody	[data]	true or RPC Exception	write Postfix body filter file

**MaildirsManagementService**

Method	Arguments	Return	Description
<b>mkdir</b>	[mboxName, FileItem]	FileItem	create a new dir
<b>mkfile</b>	[mboxName, FileItem]	FileItem	careate an empty file
<b>rename</b>	[mboxName, newName, old_FileItem]	FileItem	rename dir or file: old -> newName
<b>move</b>	[mboxName, from_FileItem, to_FileItem]	FileItem	move dir or file: from -> to
<b>delete</b>	[mboxName, path]	true	delete file or dir
<b>getMeta</b>	[mboxName, path]	FileItem	get meta date for file or dir
<b>browse</b>	[mboxName, path]	array of FileItem	browse mailbox
<b>readBody</b>	[mboxName, path]	file content	read file content
<b>writeBody</b>	[mboxName, path, data]	true	write content into file

## -- Examples --

### Postfix status

```
# curl -u admin:secret -X POST -H "Content-Type: application/json" http://127.0.0.1:8080/rpc/ -d '{"id":1, "service":"DaemonsControlService", "method":"postfixGetStatus", "params":null}'
```

### Response:

```
{"id":"1","error":null,"result":{"pid":"1906","class":"ServerStatus","version":"3.1.0","state":"active (running) since Fri 2021-02-19 16:23:44 +04; 8min ago"}}
```

---

### List domains

```
# curl -u admin:secret -X POST -H "Content-Type: application/json" http://127.0.0.1:8080/rpc/ -d '{"id":1, "service":"DomainsManagementService", "method":"list", "params":null}'
```

### Response:

```
{"id":"1","error":null,"result":[{"class":"Domain","decription":"example.com","name":"example.com","description":null}, {"class":"Domain","name":"example2.com","decription":"example2.com","description":null}]}
```

### with a filter

```
# curl -u admin:secret -X POST -H "Content-Type: application/json" http://127.0.0.1:8080/rpc/ -d '{"id":1, "service":"DomainsManagementService", "method":"list", "params":[{"class":"SearchFilter","text":"example2"}]}'
```

### Response:

```
{"id":"1","result":[{"class":"Domain","name":"example2.com","decription":"example2.com","description":null}], "error":null}
```

---

### List mailboxes

```
# curl -u admin:secret -X POST -H "Content-Type: application/json" http://127.0.0.1:8080/rpc/ -d '{"id":1, "service":"MailboxesManagementService", "method":"list", "params":["example2.com", null]}'
```

### Response:

```
{"id":"1","error":null,"result":[{"enabled":"1","domainId":"example2.com","description":"","name":"mb1@example2.com","password":{"SHA512-CRYPT}$6$JDZ/y7hMyrFwDuiV$Ev/CaWETagHdf9oLNrlszye84lX0qGzF6za4qUpMR5UV00dQn.Lj5fh/jG7yt7/qXw3U9hXlDgFAPq0aARxN7/", "path":"mb1@example2.com/", "options":null, "title":"mb1", "quota":"5", "class":"Mailbox"}]}
```

---

### Mailbox status

```
# curl -u admin:secret -X POST -H "Content-Type: application/json" http://127.0.0.1:8080/rpc/ -d '{"id":1, "service":"MailboxesManagementService", "method":"getStatus", "params":["mb1@example2.com"]}'
```

### Response:

```
{"id":"1","result":{"recent":"0","mailbox":"INBOX","highestmodseq":"2","messages":"0","uidvalidity":"1602606367","vsize":"0","guid":"a92d7c3a1fd5855fdf710000f5f0338d","unseen":"0","uidnext":"3"},"error":null}
```

## Maildir browser

```
# curl -u admin:secret -X POST -H "Content-Type: application/json" http://127.0.0.1:8080/rpc/ -d '{"id":1, "service":"MaildirsManagementService", "method":"browse", "params":["box1@example.com"]}'
```

### Response:

```
{"result":[{"name":"cur","path":"cur","directory":true,"class":"FileItem","date":"14-10-2020 16:05:52","size":"0"}, {"name":"new","path":"new","size":"0","date":"14-10-2020 16:05:27","directory":true,"class":"FileItem"}, {"name":"tmp","path":"tmp","size":"0","date":"20-02-2021 19:02:47","directory":true,"class":"FileItem"}, {"name":"dovecot-uidlist","path":"dovecot-uidlist","date":"14-10-2020 21:39:03","size":"51","directory":false,"class":"FileItem"}, {"directory":false,"class":"FileItem","size":"8","date":"13-10-2020 20:21:03","path":"dovecot-uidvalidity","name":"dovecot-uidvalidity"}, {"name":"dovecot-uidvalidity.5f85d3ef","path":"dovecot-uidvalidity.5f85d3ef","directory":false,"class":"FileItem","date":"13-10-2020 20:21:03","size":"0"}, {"directory":false,"class":"FileItem","date":"14-10-2020 16:05:52","size":"628","path":"dovecot.index.cache","name":"dovecot.index.cache"}, {"path":"dovecot.index.log","name":"dovecot.index.log","class":"FileItem","directory":false,"date":"14-10-2020 21:39:03","size":"1484"}, {"path":"maildirsize","name":"maildirsize","size":"30","date":"14-10-2020 16:05:52","directory":false,"class":"FileItem"}], "id":"1", "error":null}
```

---

## Maildir mkdir

```
# curl -u admin:secret -X POST -H "Content-Type: application/json" http://127.0.0.1:8080/rpc/ -d '{"id":1, "service":"MaildirsManagementService", "method":"mkdir", "params":["box1@example.com", {"class":"FileItem", "name":"test123", "path":null, "directory":true, "date":null, "size":null}]}'
```

### Response:

```
{"error":null, "id":"1", "result":{"name":"test123", "path":"test123", "directory":true, "class":"FileItem", "date":"22-02-2021 14:58:55", "size":"0"}}
```

---

## Maildir mkfile

```
# curl -u admin:secret -X POST -H "Content-Type: application/json" http://127.0.0.1:8080/rpc/ -d '{"id":1, "service":"MaildirsManagementService", "method":"mkfile", "params":["box1@example.com", {"class":"FileItem", "name":"file123.txt", "path":null, "directory":false, "date":null, "size":null}]}'
```

### Response:

```
{"error":null, "id":"1", "result":{"name":"file123.txt", "path":"file123.txt", "class":"FileItem", "directory":false, "size":"0", "date":"22-02-2021 15:00:15"}}
```

---

## Maildir getMeta

```
# curl -u admin:secret -X POST -H "Content-Type: application/json" http://127.0.0.1:8080/rpc/ -d '{"id":1, "service":"MaildirsManagementService", "method":"getMeta", "params":["box1@example.com", "file123.txt"]}'
```

### Response:

```
{"id":"1", "error":null, "result":{"name":"file123.txt", "path":"file123.txt", "class":"FileItem", "directory":false, "size":"0", "date":"22-02-2021 15:00:15"}}
```



### **Maildir writeBody**

```
# curl -u admin:secret -X POST -H "Content-Type: application/json" http://127.0.0.1:8080/rpc/ -d '{"id":1, "service":"MaildirsManagementService", "method":"writeBody", "params":["box1@example.com", "file123.txt", "Test 123213\nBody 1234567890\n\n"]}'
```

#### **Response:**

```
{"error":null,"result":true,"id":"1"}
```

---

### **Maildir readBody**

```
# curl -u admin:secret -X POST -H "Content-Type: application/json" http://127.0.0.1:8080/rpc/ -d '{"id":1, "service":"MaildirsManagementService", "method":"readBody", "params":["box1@example.com", "file123.txt"]}'
```

#### **Response:**

```
{"id":"1","result":"Test 123213\nBody 1234567890\n\n","error":null}
```

---

### **Maildir delete**

```
# curl -u admin:secret -X POST -H "Content-Type: application/json" http://127.0.0.1:8080/rpc/ -d '{"id":1, "service":"MaildirsManagementService", "method":"delete", "params":["box1@example.com", "file123.txt"]}'
```

#### **Response:**

```
{"error":null,"result":true,"id":"1"}
```