

OPERATOR REST API

Authorization

Basic Authentication is used for request authorization.

HTTP Header

Authorization: Basic {Base64hash}

POST and PUT requests that contain a body with parameters may return a 400 Bad Request error.

Each request line should contain `/sys/boss/v1`` after the domain. For instance, a correct request line might look like:

<http://cloud-pbx.installation/sys/boss/v1/domains>

Domain Operations

GET

/domains

Get List of Domains

Request Parameters:

None

Response:

Status: 200 OK

Body:

```
[string, string, ...]
```

Errors:

Status: 500 Internal Server Error

HEAD

/domains/{domain}

Check Domain Existence

Request Parameters:

None

Response:

Status: 204 No Content

Body:

None

Errors:

Status: 404 Domain Not Found

Status: 500 Internal Server Error

GET

/domains/{domain}

Get Domain Information

Request Parameters:

None

Response:

Status: 200 OK

Body:

```
{
  name: string,
  accessURL: url,
  billingType: string,
  extDigits: number,
  maxLines: number|[number,number],
  maxSignalContacts: number,
  accountsLimit: number,
  accountsCount: number,
  frozen: boolean,
  language: string,
  emergencyNumEnabled: boolean,
  emergencyNumUsed: boolean,
  dialplan: sting,
  route: string,
  services: [string,string,...]
}
```

Errors

Status: 404 Domain Not Found

Status: 500 Internal Server Error

GET

/domains/{domain}/stat

Get Domain Statistics Information

Request Parameters:

None

Response:

Status: 200 OK

Body:

```
{
  name: string,
  created: number,
  accountsLimit: number,
  accountsCount: number,
```

```
    groupsCount: number,  
    telnumsCount: number,  
    RSIPCount: number,  
    SIPTransferCount: number,  
    activeCRM: [string,string,]  
  }  
}
```

Errors

Status: 404 Domain Not Found

Status: 500 Internal Server Error

GET

/domains/{domain}/services

Get List of Enabled Services and Service Settings

Request Parameters:

None

Response:

Status: 200 OK

Body:

```
{  
  services: [string,string,..],  
  record: {  
    expiration_days: number,  
    announceRecording: boolean,  
    externalRecordActive: boolean,  
    internalRecordActive: boolean,  
    sendLinkTo: string  
  },  
  local_gw: {  
    limit: number,  
  },  
  analytics: {  
    analytics_acl: "admin"|null  
  }  
}
```

Errors:

Status: 404 Domain Not Found

Status: 500 Internal Server Error

GET

/domains/{domain}/isfrozen

Get Domain State Information

Request Parameters:

None

Response:

Status: 200 OK

Body:

```
{
  isFrozen: boolean
}
```

Errors

Status: 404 Domain Not Found

Status: 500 Internal Server Error

POST

/domains/{domain}

Create a New Domain

Request Parameters:

None

Body:

```
{
  accessURL: url,
  billingType: string,
  extDigits: number,
  maxLines: number|[number,number],
  maxSignalContacts: number,
  accountsLimit: number,
  isFrozen: boolean,
  language: string,
  emergencyNumEnabled: boolean,
  dialplan: sting,
  route: string,
  services: [string,string,...]
}
```

Additional Value Constraints:

```
billingType: "demo" or "billable"
extDigits: 3, 4, or 5
maxLines: only positive integers
maxSignalContacts: integer between 1 and 100 (-1 used as "Unlimited")
accountsLimit: integer between 1 and 1000 (-1 used as "Unlimited")
language: "english"
dialplan: specify existing only
route: specify existing only
```

Note: Due to a bug, the minimum value for extDigits is currently 3 instead of 2.

Response:

Status: 201 Created

Body:

None

Errors

Status: 409 Domain Already Exists

Status: 500 Internal Server Error

PUT

/domains/{domain}

Modify Domain Information

Request Parameters:

None

Body:

```
{
  accessURL: url,
  billingType: string,
  extDigits: number,
  maxLines: number|[number,number],
  maxSignalContacts: number,
  accountsLimit: number,
  isFrozen: boolean,
  language: string,
  emergencyNumEnabled: boolean,
  dialplan: sting,
  route: string,
  services: [string,string,...]
}
```

Additional Value Constraints:

```
billingType: "demo" or "billable"
extDigits: 2, 3, 4, or 5. Cannot be changed to a smaller value if internal numbers are already used in the cloud PBX
maxLines: only positive integers
maxSignalContacts: integer between 1 and 100 (-1 used as "Unlimited")
accountsLimit: integer between 1 and 1000 (-1 used as "Unlimited")
language: "english"
dialplan: specify existing only
route: specify existing only
```

Response:

Status: 204 No Content

Body:

None

Errors

Status: 404 Domain Not Found

Status: 500 Internal Server Error

PUT

/domains/{domain}/services

Modify Domain Services and/or Service Settings

Request Parameters:

None

Body:

```
{
  services: [string,string,..],
  record: {
    expiration_days: number,
```

```
        announceRecording: boolean,  
        externalRecordActive: boolean,  
        internalRecordActive: boolean,  
        sendLinkTo: string  
    },  
    local_gw: {  
        limit: number,  
    },  
    analytics: {  
        analytics_acl: "admin"|null  
    }  
}
```

Additional Value Constraints:

```
record.expiration_days: integer between 1 and 7300 (7300 means "Unlimited" in the web interface)  
local_gw.limit: only positive integers
```

Response:

Status: 204 No Content

Body:

None

Errors

Status: 404 Domain Not Found

Status: 500 Internal Server Error

PUT

/domains/{domain}/freeze

Freeze Domain

Request Parameters:

None

Response:

Status: 204 No Content

Body:

None

Errors

Status: 404 Domain Not Found

Status: 403 Domain Already Frozen

Status: 500 Internal Server Error

PUT

/domains/{domain}/unfreeze

Unfreeze Domain

Request Parameters:

None

Response:

Status: 204 No Content

Body:

None

Errors

Status: 404 Domain Not Found

Status: 403 Domain Already Unfrozen

Status: 500 Internal Server Error

DELETE

/domains/{domain}

Delete Domain

Response:

Status: 204 No Content

Body:

None

Errors

Status: 404 Domain Not Found

Status: 500 Internal Server Error

:mark: `GET`

:mark: `/domains/{domain}/fmc-ipcompany`

:mark: `Get Information about FMC Plugin for IPcompany`

Request Parameters:

None

Response:

Status: 200 OK

Body: boolean

Errors

Status: 404 Domain Not Found

Status: 500 Internal Server Error

:mark: `PUT`

:mark: `/domains/{domain}/fmc-ipcompany/enable`

Enable FMC Plugin for IPcompany

Request Parameters:

None

Response:

Status: 204 No Content

Body: None

Errors

Status: 404 Domain Not Found

Status: 500 Internal Server Error

:mark: `PUT`

:mark: `/domains/{domain}/fmc-ipcompany/disable`

:mark: `Disable FMC Plugin for IPcompany`

Request Parameters:

None

Response:

Status: 204 No Content

Body: None

Errors

Status: 404 Domain Not Found

Status: 500 Internal Server Error

Employee Operations

GET

/domains/{domain}/users

Get List of Domain Employees

Request Parameters:

None

Response:

Status: 200 OK

Body:

```
[string, string, ...]
```

Errors

Status: 500 Internal Server Error

HEAD

/domains/{domain}/users/{login}

Check Existence of Domain Employee

Request Parameters:

None

Response:

Status: 204 No Content

Body:

None

Errors

Status: 404 Domain Not Found

Status: 404 User Not Found

Status: 500 Internal Server Error

GET

/domains/{domain}/users/{login}

Get Information About Domain Employee

Request Parameters:

None

Response:

Status: 200 OK

Body:

```
{
  login: string,
  position: string,
  realName: string,
  email: string,
  extension: string,
  mobile: string,
  mobileRule: {
    forward: boolean,
    delay: number
  }
  role: "admin"|"user"|"restricted_user",
  hasSIPPassword: boolean,
}
```

Errors

Status: 404 Domain Not Found

Status: 404 User Not Found

Status: 500 Internal Server Error

POST

/domains/{domain}/users/{login}/checkpasswordstrength

Check Password Strength for Domain Employee

Request Parameters:

None

Body:

```
{
  password: string
}
```

Additional Value Constraints:

password: A password can consist of letters, numbers, and be a string without spaces

Response:

Status: 204 No Content

Body:

None

Errors

Status: 404 Domain Not Found

Status: 404 User Not Found

Status: 406 Not Acceptable

Status: 500 Internal Server Error

POST

/domains/{domain}/users/{login}

Create Domain Employee

Request Parameters:

None

Body:

Additional Value Constraints:

```
realName: Letters, numbers, and space symbol are allowed (cannot consist only of spaces)
email: Must match the structure of an email address
extension: Must consist only of numbers, considering the length of the short number, and it should not be occupied/reserved
mobile: Must consist only of numbers, minimum 7 digits, maximum - 20, the specified number should not be used in the cloud PBX
mobileRule: {
  delay: 0, 5, 10, or 15
},
password: The password can consist of letters, numbers, and be a string without spaces
SIPPassword: The password can consist of letters, numbers, and be a string without spaces
```

Response:

Status: 201 Created

Body:

None

Errors

Status: 404 Domain Not Found

Status: 409 User Already Exists

Status: 500 Internal Server Error

PUT

/domains/{domain}/users/{login}

Modify Information About Domain Employee

Request Parameters:

None

Body:

```
{
  position: string,
  realName: string,
  email: string,
  extension: string,
  mobile: string,
  mobileRule: {
    forward: boolean,
    delay: number
  }
}
```

```
    role: "admin"|"user"|"restricted_user"
}
```

Additional Value Constraints:

```
realName: Allows letters, numbers, and space symbol (cannot consist only of spaces)
email: Must match the structure of an email address",
extension: Must consist only of numbers, considering the length of the short number, and it should not be occupied/reserved
mobile: Must consist only of numbers, minimum 7 digits, maximum - 20, the specified number should not be used in the cloud PBX
mobileRule: {
  delay: 0, 5, 10, or 15
}
```

Response:

Status: 204 No Content

Body:

None

Errors

Status: 404 Domain Not Found

Status: 404 User Not Found

Status: 500 Internal Server Error

PUT

/domains/{domain}/users/{login}/password

Change Password of Domain Employee

Request Parameters:

None

Body:

```
{
  password: string
}
```

Additional Value Constraints:

```
password: The password can consist of letters, numbers, and be a string without spaces
```

Response:

Status: 204 No Content

Body:

None

Errors

Status: 404 Domain Not Found

Status: 404 User Not Found

Status: 500 Internal Server Error

PUT

/domains/{domain}/users/{login}/sippassword

Change SIP Password of Domain Employee

Request Parameters:

None

Body:

```
{  
  SIPPassword: string  
}
```

Additional Value Constraints:

SIPPassword: The password can consist of letters, numbers, and be a string without spaces

Response:

Status: 204 No Content

Body:

None

Errors

Status: 404 Domain Not Found

Status: 404 User Not Found

Status: 500 Internal Server Error

DELETE

/domains/{domain}/users/{login}

Delete Domain Employee

Request Parameters:

None

Response:

Status: 204 No Content

Body:

None

Errors

Status: 404 Domain Not Found

Status: 404 User Not Found

Status: 500 Internal Server Error

GET

/generatepassword

Get Generated Password

Request Parameters:

None

Response:

Status: 200 OK

Body:

```
{  
  password: string  
}
```

Errors

Status: 500 Internal Server Error

Operations with Phone Numbers

GET

/telnums

Get List of Phone Numbers

Request Parameters:

None

Response:

Status: 200 OK

Body:

```
[string, string, ...]
```

Errors

Status: 500 Internal Server Error

HEAD

/telnums/{telnum}

Check Phone Number Existence

Request Parameters:

None

Response:

Status: 204 No Content

Body:

None

Errors

Status: 404 Telnum Not Found

Status: 500 Internal Server Error

GET

/telnums/{telnum}

Get Phone Number Information (Gateways and Allocation)

Request Parameters:

None

Response:

Status: 200 OK

Body:

```
{
  gateways: [string,string,...],
  allocatedTo: string
}
```

Errors:

Status: 404 Telnum Not Found

Status: 500 Internal Server Error

POST

/telnums/{telnum}

Create New Phone Number

Request Parameters:

None

Body:

```
{
  gateways: [string,string,...],
  allocatedTo: string
}
```

Additional Value Constraints:

```
gateways: Only existing gateway IDs must be specified; at least one gateway must be specified
allocatedTo: Only an existing domain must be specified
```

Response:

Status: 201 Created

Body:

None

Errors

Status: 409 Telnum Already Exists

Status: 500 Internal Server Error

PUT

/telnums/{telnum}

Modify Phone Number Settings

Request Parameters:

None

Body:

```
{
  gateways: [string,string,...],
  allocatedTo: string
}
```

Additional Value Constraints:

gateways: Only existing gateway IDs must be specified; at least one gateway must be specified
allocatedTo: Only an existing domain must be specified

Response:

Status: 204 No Content

Body:

None

Errors

Status: 404 Telnum Not Found

Status: 500 Internal Server Error

PUT

/telnums/{telnum}/allocate

Assign Telephone Number to Domain

Request Parameters:

None

Body:

```
{  
    allocatedTo: string  
}
```

Additional Value Constraints:

allocatedTo: Only an existing domain must be specified

Response:

Status: 204 No Content

Body:

None

Errors

Status: 404 Telnum Not Found

Status: 404 Domain Not Found

Status: 500 Internal Server Error

PUT

/telnums/{telnum}/deallocate

Revoke Telephone Number from Domain

Request Parameters:

None

Body:

None

Response:

Status: 204 No Content

Body:

None

Errors

Status: 404 Telnum Not Found

Status: 500 Internal Server Error

DELETE

/telnums/{telnum}

Delete Telephone Number

Request Parameters:

None

Response:

Status: 204 No Content

Body:

None

Errors

Status: 404 Telnum Not Found

Status: 500 Internal Server Error

GET

/domains/{domain}/telnums

Get List of Domain Telephone Numbers

Request Parameters:

None

Response:

Status: 200 OK

Body:

```
[string, string, ...]
```

Errors

Status: 404 Domain Not Found

Status: 500 Internal Server Error

HEAD

/domains/{domain}/telnums/{telnum}

Check Telephone Number Existence in Domain

Request Parameters:

None

Response:

Status: 204 No Content

Body:

None

Errors

Status: 404 Domain Not Found

Status: 404 Telnum Not Found

Status: 500 Internal Server Error

GET

/domains/{domain}/telnums/{telnum}

Get Telephone Number Information in Domain

Request Parameters:

None

Response:

Status: 200 OK

Body:

```
{
  tn: string,
  mainPhone: boolean,
  location: string,
  local: boolean,
  crm: string,
  responsible: string,
  primegate: string,
  roistat: string,
  type: "account"|"group"|"ivr"|"fax"|"scheduler",
  target: string,
  targetName: string,
  greeting: string,
  custom: boolean,
  disabled: boolean
}
```

If type == "scheduler"

Body:

```
{
  tn: string,
  mainPhone: boolean,
  location: string,
  local: boolean,
  crm: string,
  responsible: string,
  primegate: string,
  roistat: string,
  type: "scheduler",
  work: {
    type: "account"|"group"|"ivr"
    target: string,
    targetName: string,
    greeting: string,
    custom: boolean
  },
  type: "account"|"group"|"external"|"ivr"|"hangup"|"fax"
```

```
        target: string,
        targetName: string,
        greeting: string,
        custom: boolean
    }
    disabled: boolean,
    schedule: {
        "Sun": "holiday",
        "Mon": [
            32400,
            64800
        ],
        "Tue": [
            32400,
            64800
        ],
        "Wed": [
            32400,
            64800
        ],
        "Thu": [
            32400,
            64800
        ],
        "Fri": [
            32400,
            64800
        ],
        "Sat": "holiday"
    }
}
```

Errors

Status: 404 Domain Not Found

Status: 404 Telnum Not Found

Status: 500 Internal Server Error

PUT

/domains/{domain}/telnums/{telnum}/disable

Disable Phone Number in Domain

Request Parameters:

None

Response:

Status: 204 No Content

Body:

None

Errors

Status: 404 Domain Not Found

Status: 404 Telnum Not Found

Status: 403 Telnum Already Disabled

Status: 500 Internal Server Error

PUT

/domains/{domain}/telnums/{telnum}/enable

Enable Phone Number in Domain

Request Parameters:

None

Response:

Status: 204 No Content

Body:

None

Errors

Status: 404 Domain Not Found

Status: 404 Telnum Not Found

Status: 403 Telnum Already Enabled

Status: 500 Internal Server Error

GET

/gateways

Retrieve List of Gateways

Request Parameters:

None

Response:

Status: 204 No Content

Body:

```
[
  {
    id: string,
    name: string
  },
  ...
]
```

Errors

Status: 500 Internal Server Error

GET

/routes

Retrieve List of Routes

Request Parameters:

None

Response:

Status: 204 No Content

Body:

```
[
  {
    id: string,
    name: string
  },
  ...
]
```

Errors

Status: 500 Internal Server Error

GET

/dialplans

Retrieve List of Dial Plans

Request Parameters:

None

Response:

Status: 204 No Content

Body:

```
[
  {
    id: string,
    name: string
  },
  ...
]
```

Errors

Status: 500 Internal Server Error

Sessions

GET

/domains/{domain}/session

Retrieve Link to Log Into Domain UI as a System User

Request Parameters:

None

Response:

Status: 200 OK

Body:

```
{
  link: string
}
```

Errors

Status: 404 Domain Not Found

Status: 500 Internal Server Error

GET

/domains/{domain}/users/{login}/session

Retrieve Link to Log Into Domain UI as a User

Request Parameters:

None

Response:

Status: 200 OK

Body:

```
{
  link: string
}
```

Errors

Status: 404 Domain Not Found

Status: 404 User Not Found

Status: 500 Internal Server Error

POST

/users/{login}/auth

Authenticate User and Get Link to Log Into Domain UI as a User.

This request should only be executed from the client's domain (the request will not work if the domain is disabled). Example of a correct request URL:

<https://cloud-pbx.installation/boss/v1/users/john/auth>

Request Parameters:

None

Body:

```
{
  password: string
}
```

Response:

Status: 200 OK

Body:

```
{
  link: string
}
```

Errors

Status: 404 User Not Found

Status: 500 Internal Server Error