



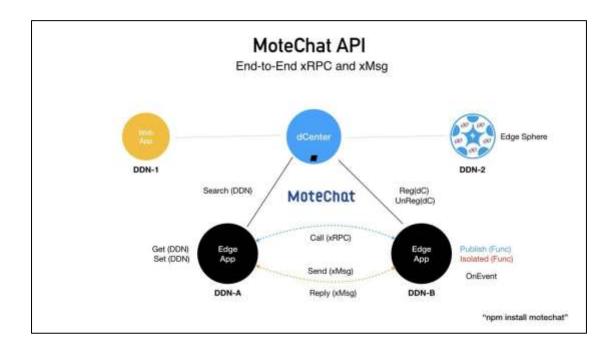
API of MoteChat

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System Diagram



List of API

Command	Description
Open	Open motechat
Close	Close motechat
Publish	Publish function
Isolated	Publish isolated function
Reg	Register to device center
UnReg	Un-register from device center
Call	Call function of another device
Send	Send message to another device
Get	Get the information of my device
Set	Set the device information of my device
Search	Search nearby device
OnEvent	Set event handler

Function List

Command	Function
Open	mChat.Open()
Close	mChat.Close()
Publish	mChat.Publish()
Isolated	mChat.Isolated()
Reg	mChat.Reg()
UnReg	mChat.Unreg()
Call	mChat.Call()
Send	mChat.Send()
Get	mChat.Get()
Set	mChat.Set()
Search	mChat.Search()
OnEvent	mChat.OnEvent()

Command

Open

```
Input:
    conf: the configuration object for init. { "AppName":"", "IOC":"", "DCenter":"",
    "AppKey":"", "UseWeb":"" }
       AppName: the name of motebus MMA
       IOC: the MMA of IOC
       DCenter: the MMA of device center
       UCenter: the MMA of user center
       AppKey: the key string of app
       UseWeb: can be 'websocket', 'ajax', or "
    reg: the information of register (option, the info of reg to DC)
       EiToken: device token
       SToken: app token
       WIP: WAN IP
       LIP: LAN IP
    cb: callback( {ErrCode, ErrMsg, result} )
  Example 1:
    var conf = { "AppName":"", "IOC":"", "DCenter":"", "UCenter":"", "AppKey":"",
"UseWeb":"" }
    conf.AppName = 'myfunc';
    conf.DCenter = 'dc@boss.ypcloud.com:6788';
    conf.AppKey = 'YfgEeop5';
    var mChat = require('motechat');
    mChat.Open(conf, function(result){
         console.log('init result=%s', JSON.stringify(result));
    }
  Example 2: reg to DC directly
    var conf = { "AppName":"", "IOC":"", "DCenter":"", "AppKey":"", "UseWeb":"" }
    conf.AppName = 'myfunc';
    conf.DCenter = 'dc@boss.ypcloud.com:6788';
    conf.AppKey = 'YfgEeop5';
    var reginfo = {"EiToken":"8dilCCKj","SToken":"baTi52uE","WIP":"","LIP":""};
```

```
var mChat = require('motechat');
    mChat.Open(conf, reginfo, function(result){
         console.log('init result=%s', JSON.stringify(result));
    }
Close
  Input:
    cb: callback( {ErrCode, ErrMsg } )
Publish
  Input:
    app: the name of name
    func: the user function entry which is published
    cb: callback( {ErrCode, ErrMsg} )
  Example:
    var app = 'motechat';
    var XrpcMcService = {
         "echo": function(head, body){
              console.log("xrpc echo: head=%s", JSON.stringify(head));
              if ( typeof body == 'object')
                   sbody = JSON.stringify(body);
              else
                   sbody = body;
              console.log("xrpc echo: body=%s", sbody);
              return {"echo":body};
         }
    mChat.Publish( app, XrpcMcService, function(result){
       console.log('motechat publish: result=%s', JSON.stringify(result));
    });
```

Isolated

```
Input:
    func: the user function entry which is published
    cb: callback( {ErrCode, ErrMsg} )
  Example:
    var XrpcMcSecService = {
         "echo": function(head, body){
              console.log("xrpc echo: head=%s", JSON.stringify(head));
              if ( typeof body == 'object')
                   sbody = JSON.stringify(body);
              else
                   sbody = body;
              console.log('xrpc echo: body=%s', sbody);
              return {"echo":body};
         }
    }
    mChat.Isolated( XrpcMcSecService, function(result){
       console.log('motechat isolated: result=%s', JSON.stringify(result));
    });
Reg
  Input:
    data: the information for registration, { "EiToken":"", "SToken":"", "WIP":""}
       EiToken: device token
       SToken: app token
       WIP: WAN ip (empty means the same as dc)
    cb: callback( {ErrCode, ErrMsg, result} )
  Example:
    var mydev = {"EiToken":"8dilCCKj","SToken":"baTi52uE","WIP":""};
    mChat.Reg(mydev, function(result){
       console.log('StartSession result=%s', JSON.stringify(result));
    });
    Note: At first time of the device, EiToken and SToken is empty.
```

UnReg

```
Input:
    data: the information for registration, { "SToken":"" }
       SToken: app token
    cb: callback( {ErrCode, ErrMsg} )
  Example:
    var mydev = {"SToken":"baTi52uE"};
    mChat.UnReg(mydev, function(result){
       console.log('EndSession result=%s', JSON.stringify(result));
    });
Call
  Input:
    xrpc: xrpc control object, { "SToken":"", "DDN":"", "Topic":"", "Func":"",
    "Data":{},"SendTimeout": 6,"WaitReply": 12 }
       SToken: app token
       DDN: DDN of device
       Topic: topic of app
       Func: the function name
       Data: the data object for function
       SendTimeout: Integer, Timeout of send message, by sec.
       WaitReply: Integer, The wait time of reply, by sec.
    cb: callback( {ErrCode, ErrMsg} ) or callback(reply)
       reply:
       {"IN":{"From":{"DDN":"","Name":"","Type":"","Uid":"","Topic":""},"To":{"DDN
       ":"","Name":"","Type":"","Topic":""},"State":{"ErrCode":0,"ErrMsg":"OK","By"
       :""}},"Reply":{"ErrCode":0,"ErrMsg":"OK"}}
  Example 1:
    var ddn = 'kvGuHVUy';
    var topic = 'flow/echo';
    var func = 'echo';
    var data = {"time":"2018/4/24 10:12:08"};
    var t1 = 6;
    var t2 = 12;
```

```
var xrpc = {"SToken":mydev.SToken, "DDN":ddn, "Topic":topic,
"Func":func,"Data":data, "SendTimeout":t1, "WaitReply":t2};
mChat.Call( xrpc, function(reply){
    console.log('CallSession reply=%s', JSON.stringify(reply));
});
```

Send

```
Input:
  xmsg: xmsg control object, { "SToken":"", "DDN":"", "Topic":"", "Data":{},
  "SendTimeout": 6,"WaitReply": 12 }
    SToken: app token
    DDN: DDN of device
    Topic: the app topic
    Data: the data which want to be sent
    SendTimeout: Integer, Timeout of send message, by sec.
    WaitReply: Integer, The wait time of reply, by sec.
  cb: callback({ErrCode,ErrMsg}) or callback(reply)
    reply:
    {"IN":{"From":{"DDN":"","Name":"","Type":"","Uid":"","Topic":""},"To":{"DDN
    ":"","Name":"","Type":"","Topic":""},"State":{"ErrCode":0,"ErrMsg":"OK","By"
    :""}},"Reply":{"ErrCode":0,"ErrMsg":"OK"}}
Example 1:
  var stoken = mydev.SToken;
  var ddn = 'kvGuHVUy';
  var topic = 'flow/msg';
  var data = {"message":"Hello World"};
  var t1 = 6;
  var t2 = 12;
  var xmsgctl = {"SToken":stoken, "DDN":ddn, "Topic":topic,"Data":data,
  "SendTimeout":t1,"WaitReply":t2};
  mChat.Send(xmsgctl, function(reply){
    console.log('sendxmsg reply=%s', JSON.stringify(reply));
  });
```

```
Get
```

```
Input:
    data: the input data object, { "SToken":"" }
      SToken: app token
    cb: callback( {ErrCode, ErrMsg} ) or callback(reply)
  Example:
    var data = {"SToken":mydev.SToken};
    mChat.Get(data, function(result){
       console.log('GetDeviceInfo result=%s', result);
    });
Set
  Input:
    data: input data object, { "SToken":"", "EdgeInfo":{}}
       SToken: app token
       EdgeInfo: {"EiName":"","EiType":"","EiTag":"","EiLoc":""}
    cb: callback( {ErrCode, ErrMsg} ) or callback(reply)
  Example:
    var info = {"EiName":"myEi","EiType":".ei","EiTag":"#my","EiLoc":""};
    var data = {"SToken":mydev.SToken,"EdgeInfo":info};
    mChat.Set(data, function(result){
       console.log('SetDeviceInfo result=%s', result);
    });
Search
  Input:
    data: input data object, { "SToken":"", "Keyword":""}
       SToken: app token
       Keyword: keyword for search
    cb: callback( {ErrCode, ErrMsg} ) or callback(reply)
  Example:
    var data = {"SToken":mydev.SToken, "Keyword":"#test"};
```

```
mChat.Search(data, function(result){
  console.log('Search result=%s', result);
});
```

OnEvent

```
Input:
  stype: "message" is for getxmsg, "state" is for state changed
  cb(ch, inctl, data): the user routine entry
  ch: channel (xrpc or xmsg)
  inctl: IN control data {"From":"","To":""}
  data: user data
Output:
  return is boolean (true or false)
Example:
  var InmsgRcve = function(ch, inctl, data, retcb){
     console.log('InmsgRcve: channel=%s, from=%s, to=%s, data=%s', ch,
     JSON.stringify(inctl.From), JSON.stringify(inctl.To), JSON.stringify(data));
     if ( typeof retcb == 'function') retcb({"ErrCode":0, "ErrMsg":"OK"})
  }
  Var InState = function(state){
     console.log('InState=%s', state);
  }
  mChat.OnEvent('message',InmsgRcve);
  mChat.OnEvent('state', InState);
```

Error Code

No	Code	Message
1	0	ОК
2	-10199	in error
3	-10101	in: open XRPC error
4	-10102	in: XRPC not open
5	-10103	in: motebus not open
6	-10104	in: send error
7	-10105	in: open XMsg error
8	-10106	in: invalid data
9	-10299	motechat error
10	-10201	motechat: no DC setting
11	-10202	motechat not open
12	-10203	motechat: invalid data
13	-10204	motechat: invalid stoken
14	-10205	motechat: no rcve function
15	-10306	motechat: no matched DDN
16	-10207	motechat: no DDN
17	-10399	wsocket error
18	-10301	wsocket: invalid data
19	-10302	wsocket: no socket id