扩展 Asterisk1.8.7 的 AMI 接口

Asterisk 的 AMI 接口已经很丰富了，如果需要扩展，可以参考本文。

一、扩展 Asterisk 的 AMI 接口

涉及文件：main/manager.c

1、函数注册

添加 myOriginate 接口

在函数 int __init_manager(int reload)中添加如下代码：

```
ast_manager_register_xml("myOriginate",
EVENT_FLAG_ORIGINATE,action_myOriginate); // Add by Mike
```

2、功能实现：

```
//Add by Mike
static int action_myOriginate(struct mansession *s, const struct message *m)
{
	const char *name = astman_get_header(m, "Channel");
	const char *exten = astman_get_header(m, "Exten");
	const char *context = astman_get_header(m, "Context");
	const char *priority = astman_get_header(m, "Priority");
	const char *timeout = astman_get_header(m, "Timeout");
	const char *callerid = astman_get_header(m, "CallerID");
//	const char *account = astman_get_header(m, "Account");
//	const char *app = astman_get_header(m, "Application");
//	const char *appdata = astman_get_header(m, "Data");
//	const char *async = astman_get_header(m, "Async");
//	const char *id = astman_get_header(m, "ActionID");
//	const char *codecs = astman_get_header(m, "Codecs");

	char tmp[256];
	int i=0;
	sprintf(tmp,"%ld_%s",time(NULL),name);
	int tmpLen = strlen(tmp);
	for(i=0;i<tmpLen;++i)
	{
		if(isalnum(tmp[i]))
			continue;
		tmp[i]='_';
	}
	char fileName[1024]={0};
	sprintf(fileName,"/var/spool/asterisk/outgoing/%s.call",tmp);
	// FILE *fp = fopen("/var/spool/asterisk/outgoing/1.call","w");
	FILE *fp = fopen(fileName,"w");
	char buf[1024]={0};
/*
    strcpy(buf,"channel: SIP/1001\r\n");
    strcat(buf,"Callerid: 6311\r\n");
    strcat(buf,"MaxRetries: 1\r\n");
    strcat(buf,"RetryTime: 30\r\n");
    strcat(buf,"WaitTime: 30\r\n");
    strcat(buf,"Context: DLPN_DialPlan4\r\n");
    strcat(buf,"Extension: 6311\r\n");
    strcat(buf,"Archive: no\r\n");
    strcat(buf,"SetVar: id = 1001\r\n");
*/
    sprintf(tmp,"channel: %s\r\n",name);
    strcpy(buf,tmp);
    sprintf(tmp,"Callerid: %s\r\n",callerid);
    strcat(buf,tmp);
    strcat(buf,"MaxRetries: 1\r\n");
    strcat(buf,"RetryTime: 1\r\n");
   // sprintf(tmp,"WaitTime: %s\r\n",timeout);
    sprintf(tmp,"WaitTime: %s\r\n","30");
    strcat(buf,tmp);
    sprintf(tmp,"Context: %s\r\n",context);
    strcat(buf,tmp);
    sprintf(tmp,"Extension: %s\r\n",exten);
    strcat(buf,tmp);
    sprintf(tmp,"Extension: %s\r\n",exten);
    strcat(buf,tmp);
    fwrite((void*)buf,strlen(buf),1,fp);
    fclose(fp);
    return 0;
}
```

二、配置 Asterisk

1、编译安装

make && make install

2、添加拨号方案

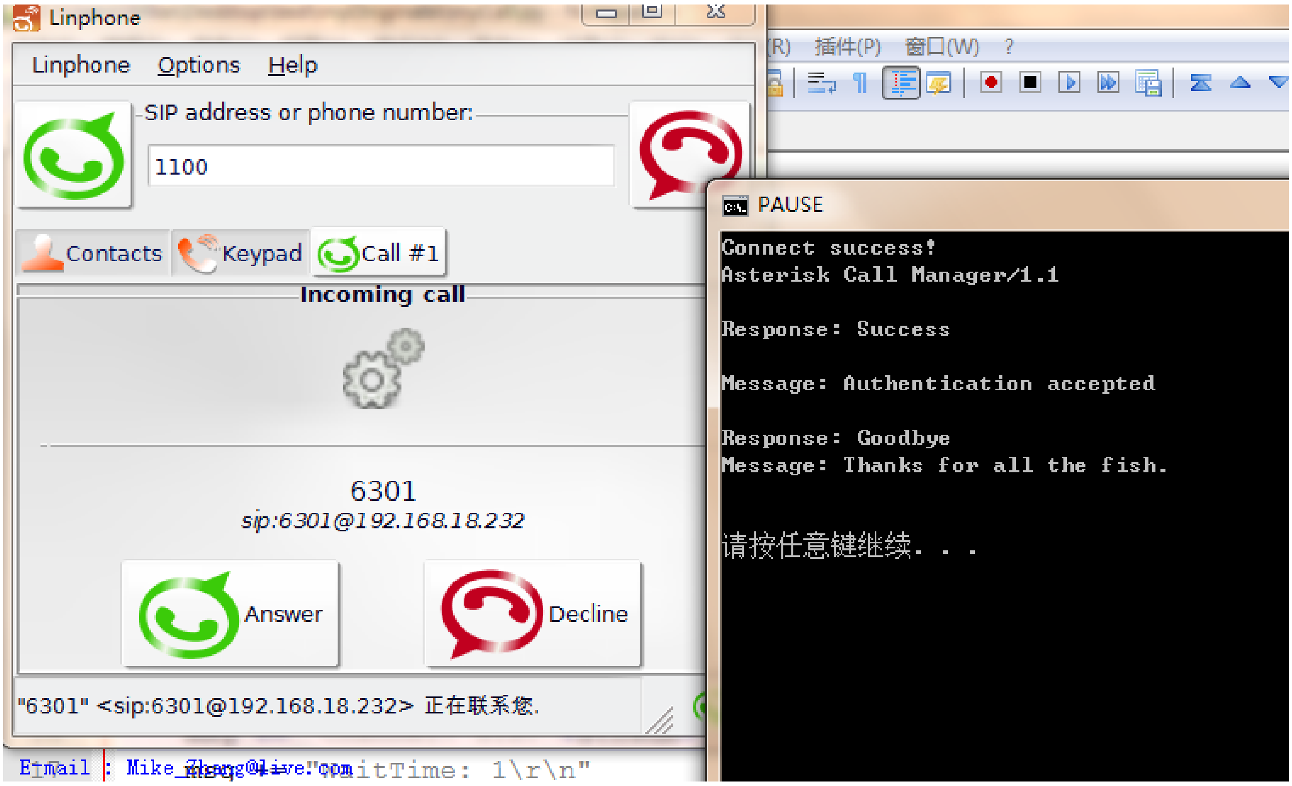
在文件/etc/asterisk/extension.conf 中加入以下代码：

```
[DLPN_MeetingWithOutRecord]
exten =>_63XX,1,Answer()
exten =>_63XX,n,MeetMe(${EXTEN},Mw,1234)
exten =>_63XX,n,Hangup()
```

三、AMI 调用测试（Python）：

```
#! /usr/bin/python

import socket

def strLogin():
       msg = "Action: login\r\n"
       msg += "Events: off\r\n"
       msg += "UserName: admin\r\n"
       msg += "Secret: admin\r\n"
       #msg += "Secret: 123456\r\n"
       msg += "\r\n"
       return msg

def strCall(strNum,strCallid):
       msg = "Action: myOriginate\r\n"
       msg += "Channel: SIP/"+strNum+"\r\n"
       msg += "WaitTime: 1\r\n"
       msg += "CallerId: "+strCallid+"\r\n"
```

```
        msg += "Exten: "+strCallid+"\r\n"
        msg += "Context: DLPN_MeetingWithOutRecord\r\n"
        msg += "Priority: 1\r\n"
        msg += "\r\n"
        return msg

def strLogoff():
        return "Action: logoff\r\n\r\n"

def strHangUp(strNum):
        msg = "Action: Hangup\r\n"
        msg += "Channel: SIP/"+strNum
        return msg

def main():
        s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
        s.connect(('192.168.18.232', 5038))

        if not s :
                print "Connect fail!"
                return
        else : print "Connect success!"

        #strNum = raw_input("Input number to dail:")
        #strCallerId = raw_input("Input caller id :")
        msg = ""
        msg += strLogin()
        msg += strCall("1003","6300")
        #msg += strCall("1100","6300")
        #msg += strCall(strNum,strCallerId)
        msg += strLogoff()

        s.send(msg)

        while True:
                data = s.recv(1024)
                if not data : break
                else :  print data

        s.close()

if __name__ == '__main__':
        main()

        #raw_input("Press Enter to continue")
```



"6301" <sip:6301@192.168.18.232> 正在联系您.

```
Connect success!
Asterisk Call Manager/1.1

Response: Success

Message: Authentication accepted

Response: Goodbye
Message: Thanks for all the fish.


请按任意键继续. . .
```