

Взаимодействие оборудования AddPac со Skype



IPNext50
IP-ATC



IPNext20
IP-ATC



Шлюз AP100B

AddPac

ГК ИМАГ и
AddPac Technology

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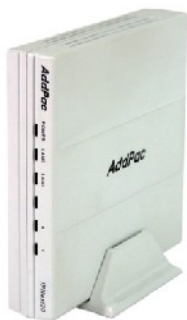
Что такое «Skype для SIP»

«Skype для SIP» позволит вывести бизнес-коммуникации вашей компании в Интернете на качественно новый уровень.

Внедрив услугу «Skype для SIP» вы сможете звонить через Skype по выгодным тарифам прямо с рабочего телефона.



IPNext50
IP-ATC



IPNext20
IP-ATC



Шлюз AP100B

Интегрируйте Skype
в свою IP АТС или VoIP-шлюз
производства AddPac

Что такое «Skype для SIP»

Преимущества Skype для SIP



Простота модернизации

Дополнительное оборудование или программное обеспечение не требуется.



Значительная экономия

Звонки на стационарные и мобильные телефоны в других странах по низким тарифам.



Прием звонков

Бесплатные звонки от других пользователей Skype. Прием звонков на онлайн-номера.



Централизованный контроль

Создание учетных записей для сотрудников и управление счетами индивидуальных пользователей через Skype Manager.

Что такое «Skype для SIP»

Преимущества Skype для SIP



Онлайновые номера

Купите онлайн-номера для своего бизнеса.



Звонок одним нажатием кнопки

Размещайте кнопки Skype на своем веб-сайте, чтобы клиенты могли бесплатно звонить в ваш центр обработки звонков через Skype.



Skype на рабочем телефоне

Зарегистрируйте логин Skype для каждого из ваших рабочих номеров и предоставьте другим пользователям Skype возможность звонить вам бесплатно.



Бесплатные входящие звонки

Сотрудники, находящиеся в командировке, смогут бесплатно звонить в офис через Skype.

Настройка Skype (1/3)

<http://www.skype.com/intl/ru/business/sip/overview/>

Skype for SIP Beta

skype AddPac Technology [Business Control Panel](#) | [Help](#) | [Sign out](#)

People Company €5,10 Add 2 people Add

- [Account details](#)
- [Purchase Skype credit](#)
- [Add members](#)
- [Redeem voucher](#)
- [Manage online numbers](#)
- [Group people](#)
- [Order list](#)
- [Allocation report](#)
- [Payment preferences](#)
- Skype for SIP Beta**

Skype for SIP Beta Profile

[Profile overview](#) | [Calling](#) | [Online numbers](#) | [Caller ID](#)

[Headquarter](#)
Rename this profile | Delete this profile

SIP authentication

Skype for SIP supports authentication via registration (username and password), or IP address.

This SIP profile uses the registration authentication settings below:

Registration (username and password) IP address

You will need this information to configure your PBX

SIP User:	99051000003457
Password:	e8kVVU2[REDACTED]
Skype for SIP domain	sip.skype.com
UDP Port:	5060

SIP user successfully registered at sip.skype.com
Last registration: March 29, 2010 at 01:39 GMT

[Generate a new password](#)

Параметры SIP регистрации IP АТС или шлюза

- user
- password
- SIP domain
- UDP port



Настройка Skype (2/3)

<http://www.skype.com/intl/ru/business/sip/overview/>

Онлайн номера

skype AddPac Technology

[Business Control Panel](#) | [Help](#) | [Sign out](#)

People Company

€5,10 [Add](#) 2 people [Add](#)

- [Account details](#)
- [Purchase Skype credit](#)
- [Add members](#)
- [Redeem voucher](#)
- Manage online numbers**
- [Group people](#)
- [Order list](#)
- [Allocation report](#)
- [Payment preferences](#)
- [Skype for SIP Beta](#)

Manage online numbers

1 online number(s) available [Purchase more online numbers](#)

Select all	Assigned to	Expires
<input type="checkbox"/> +82 70 7893 1524	SIP profile: Headquarter	Jun 24, 2010

Extend selected numbers (3 months) [Extend](#)

[Assign and reassign your online numbers here.](#)



Назначьте телефонный номер



Настройка Skype (3/3)

<http://www.skype.com/intl/ru/business/sip/overview/>

Добавочный номер

People Company  €5,10 [Add](#)  2 people [Add](#)

[Account details](#)
[Purchase Skype credit](#)
[Add members](#)
[Redeem voucher](#)
[Manage online numbers](#)
[Group people](#)
[Order list](#)
[Allocation report](#)
[Payment preferences](#)
Skype for SIP Beta

Skype for SIP Beta Profile

[Profile overview](#) [Calling](#) [Online numbers](#) [Caller ID](#)

[Back to profile list](#)

Headquarter - Calling

Business accounts can have their incoming calls redirected to this profile.
[Create more business accounts.](#)

Business Accounts

Change or add business accounts to this profile.

Business account	Extension number	
wshwang.addpac.com	<u>1002</u>	Update Remove

Назначьте добавочный номер



Настройка Skype

<http://www.skype.com/intl/ru/business/sip/overview/>

Телефонный номер

You have



Free calls and video



Call phones



Online number



Skype To Go number



Voicemail



Send SMS



Call forwarding



Caller ID

Your online numbers



(70) 7951-0919

Korea, South · Expires on June 22, 2010 · [Extend](#)

Need more online numbers?

Buy more online numbers so even more friends can save money when calling you.

[Get another online number](#)

Назначьте телефонный номер для приема звонков



Настройка шлюза AddPac

Настройка параметров

```
dial-peer voice 0 pots
destination-pattern 827078931524
port 0/0
no register e164
user-name 99051000003457
user-password e8kVVTU2Jxxxxx
!
dial-peer voice 1 pots
destination-pattern 99051000003457
port 0/0
user-password e8kVVTU2Jxxxxx

sip-ua
sip-server sip.skype.com
called-party-number to-field
```

Установите номер для приема звонков, логин и пароль

Укажите информацию для аутентификации

Настройте SIP прокси сервер и настройте отправку исходящего номера в Skype

Настройка IP АТС AddPac (1/4)

Прокси сервер Skype

Proxy Server Name: Skype

Description:

Device Pool: default

Location: N/A

Security Profile: <N/A>

SIP User Name: 99051000003457

SIP Password: *****

Local Domain:

Network Domain: public

DTMF Relay: Rtp-2833

Transport Type: UDP

Register Expire Timeout: 60 (10-86400 sec)

RTP Proxy Required

Use Local Hostname at Registered Domain Name

Use Username at Registered User Information

Register

Use Music On Hold

Nortel Hold Method

REFER Method Supported

No.	Address	Port
1	sip.skype.com	5060

Ok Cancel

Укажите логин и пароль

Укажите SIP прокси сервер

Настройка IP АТС AddPac (2/4)

Правила трансляции

Number Translation Rule				
No	Number Translation Rul	Input Matched Pattern	Substituted Pattern	Description
1	외부발신_called	9T	%02%99	
		8T	%02%99	
		53T	%03%99	
		54T	%03%99	
		55T	%03%99	
		56T	%03%99	
		57T	%03%99	
2	Skype_outbound_called	070T	82%02%99	
3	Skype_inbound_called	8270T	0%03%99	

Задайте правила для входящих и исходящих звонков

Для исходящих звонков, начинающихся на 070 необходимо удалить 1 цифру и добавлять 82
(например: 070-8888-9999 → 8270-8888-9999)

Для входящих номеров, начинающихся с 8270 необходимо удалить 2 цифры и вставить 0
(например: 8270-8888-9999 → 070-8888-9999)

Настройка IP АТС AddPac (3/4)

Применение правил трансляции

Routing Pattern Properties

Routing Pattern: 070T <[0-9#*]0.TF>

Description:

Partition: N/A Edit

Trunk/Routing List: Skype Edit

AAR Group: N/A Edit

Number Translation on Outgoing Call

Called Number: Skype_outbound_ Edit

Calling Number: N/A Edit

Routing Mode

Preference

Sequential

P-Asserted Identity Presentation: None

Used as Service Code

Service Code: Call Forwarding Activation Subscriber Number:

Provide Outside Dial Tone

Do Not Generate Outbound CDR

Emergency

Block this Pattern

Ok Cancel

Add a New SIP Proxy Server

General Routing Pattern Phone Number Call Control Options

Inbound Call

Partition Access List: N/A Edit

Call Priority: 4 Edit

Inbound Access Rule: N/A Edit

Malicious Call Filter: N/A Edit

Number Translation on Incoming Call

Called Number: Skype_inbound_called Edit

Calling Number: N/A Edit

Calling Party Presentation: Default

Caller ID DN:

Use P-Asserted-Identity Header

CID Use From-Header

Purpose of Trunking: Unspecified

Do Not Generate CDR

External Device

Ok Cancel

Настройка IP АТС AddPac (4/4)

Шаблон маршрутизации

The image shows two overlapping dialog boxes from the AddPac software. The background dialog is 'Routing Pattern Properties' and the foreground dialog is 'Number Translation Properties'.

Routing Pattern Properties:

- Routing Pattern: 070T <[0-9*]||.TF>
- Description: (empty)
- Partition: N/A
- Trunk/Routing List: Skype
- AAR Group: N/A
- Number Translation on Outgoing Call: (checked)
- Called Number: Skype_outbound_1
- Calling Number: Skype_outbound_1
- Display Name Presentation: None
- P-Asserted Identity Presentation: None
- Used as Service Code: (unchecked)
- Service Code: Call Forwarding Activation
- Subscriber Number: (empty)
- Provide Outside Dial Tone: (unchecked)
- Do Not Generate Outbound CDR: (unchecked)
- Emergency: (unchecked)
- Block this Pattern: (unchecked)

Number Translation Properties:

- Name: Skype_outbound_calling
- Description: (empty)
- Number Translation Rules:

No	Input Matched Pattern	Substituted Pattern
1	T	99051000003457%98

Buttons: Add, Delete, Ok, Cancel

A red box highlights the 'Number Translation on Outgoing Call' checkbox and the 'Called Number' and 'Calling Number' dropdowns. A red arrow points from the 'Calling Number' dropdown to the 'Number Translation Properties' dialog. A red box highlights the first row in the 'Number Translation Rules' table. A blue text box with a red border contains the text: 'Укажите номер и правило трансляции'.

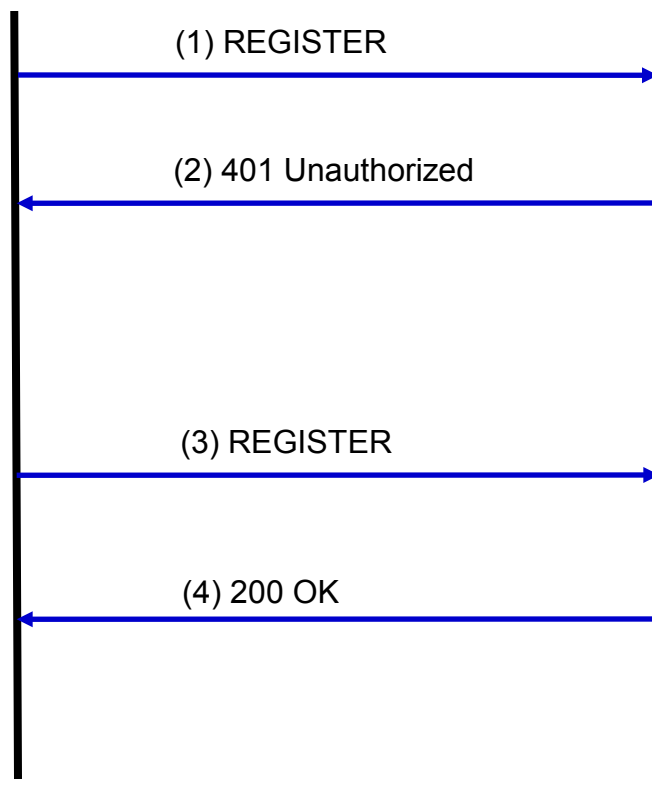
SIP регистрация (1/3)



AddPac IP ATC



Skype for SIP



SIP регистрация (2/3)

(1) REGISTER

```
Request-Line: REGISTER sip:sip.skype.com SIP/2.0
  Method: REGISTER
  [Resent Packet: False]
Message Header
  Via: SIP/2.0/UDP 60.196.6.77:5060;branch=z9hg4bk494b7346a41
  From: <sip:99051000003457@sip.skype.com>;tag=494b7346a4
  To: sip:99051000003457@sip.skype.com
  Call-ID: 495fb04b-9947-7314-8046-0002a4ff4869@60.196.6.77
  CSeq: 1 REGISTER
  Date: Mon, 29 Mar 2010 17:05:29 GMT
  User-Agent: AddPac SIP Gateway
  Contact: <sip:99051000003457@60.196.6.77>;expires=60
  Expires: 60
  Content-Length: 0
  Max-Forwards: 70
```

SIP-пользователь указан в поле From

(2) 401 Unauthorized

```
Status-Line: SIP/2.0 401 Unauthorized
  Status-Code: 401
  [Resent Packet: False]
Message Header
  From: <sip:99051000003457@sip.skype.com>;tag=494b7346a4
  To: <sip:99051000003457@sip.skype.com>;tag=05aed4eb43523e287156e2da6464d890.fe30
  Call-ID: 495fb04b-9947-7314-8046-0002a4ff4869@60.196.6.77
  CSeq: 1 REGISTER
  Via: SIP/2.0/UDP 60.196.6.77:5060;branch=z9hg4bk494b7346a41
  www-Authenticate: Digest realm="sip.skype.com", nonce="4bb05f6b000128eb7223ee8f101719a27202e08df27d98d7", algorithm=MD5
  Server: opensips
  Content-Length: 0
```


SIP регистрация (3/3)

(3) REGISTER

```
Request-Line: REGISTER sip:sip.skype.com SIP/2.0
Method: REGISTER
[Resent Packet: False]
Message Header
Via: SIP/2.0/UDP 60.196.6.77:5060;branch=z9hg1bk494b7346a42
From: <sip:99051000003457@sip.skype.com>;tag=494b7346a4
To: sip:99051000003457@sip.skype.com
Call-ID: 495fb04b-9947-7314-8046-0002a4ff4869@60.196.6.77
CSeq: 2 REGISTER
Date: Mon, 29 Mar 2010 17:05:29 GMT
User-Agent: AddPac SIP Gateway
Authorization: Digest username="99051000003457", realm="sip.skype.com", nonce="4bb05f6b000128eb7223ee8f101719a27202e08df27d98d7", uri="sip:sip.skype.com", response="9e7434a787cdef395518b"
Contact: <sip:99051000003457@60.196.6.77>;expires=60
Expires: 60
Content-Length: 0
Max-Forwards: 70
```

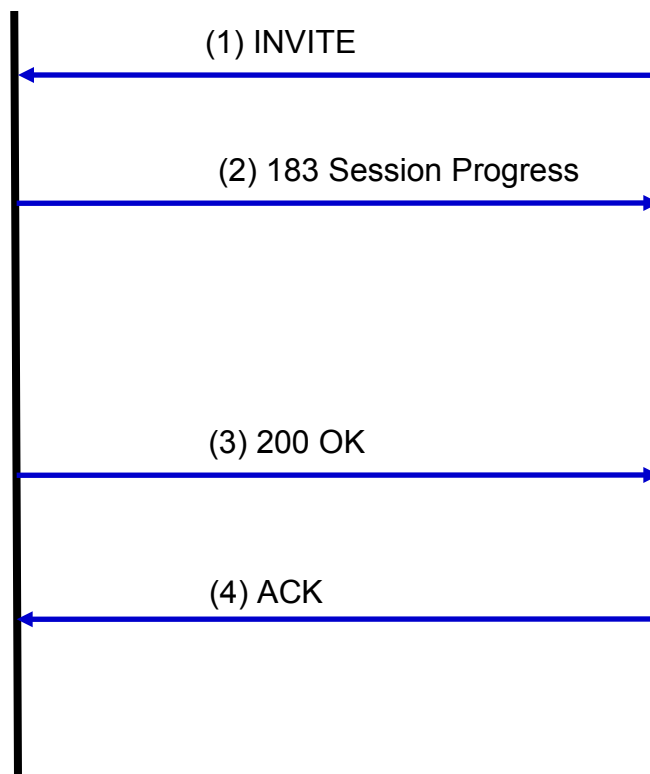
(4) 200 OK

```
Status-Line: SIP/2.0 200 OK
Status-Code: 200
[Resent Packet: False]
Message Header
From: <sip:99051000003457@sip.skype.com>;tag=494b7346a4
To: <sip:99051000003457@sip.skype.com>;tag=05aed4eb43523e287156e2da6464d890.d621
Call-ID: 495fb04b-9947-7314-8046-0002a4ff4869@60.196.6.77
CSeq: 2 REGISTER
Via: SIP/2.0/UDP 60.196.6.77:5060;branch=z9hg4bk494b7346a42
Contact: <sip:99051000003457@60.196.6.77>;expires=60
Server: OpenSIPS
Expires: 60
Content-Length: 0
```

Входящий звонок со Skype (1/5)



AddPac IP ATC



Входящий звонок со Skype (2/5)

(1) INVITE

```
⊕ Request-Line: INVITE sip:99051000003457@60.196.6.77 SIP/2.0
⊖ Message Header
⊕ From: <sip:Anonymous@sip.skype.com>;tag=a4a109cc-13c4-4bb0601c-2729e3f7-36880b6f
⊕ To: <sip:827078931524@sip.skype.com>
  Call-ID: CXC-59-6942a370-a4a109cc-13c4-4bb0601c-2729e3f7-2afee549
  CSeq: 1 INVITE
  Via: SIP/2.0/UDP 204.9.161.164:5060;branch=z9hg4bk-287ea-4bb0601c-2729e3f7-3242e07c
  Max-Forwards: 12
  User-Agent: sipgw-1.0
  Privacy: id
  P-Asserted-Identity: <sip:Anonymous@sip.skype.com>
  Remote-Party-ID: <sip:Anonymous@sip.skype.com>;party=calling;screen=yes;privacy=full
  Allow: INVITE,ACK,CANCEL,OPTIONS,BYE
⊕ Contact: <sip:Anonymous@204.9.161.164:5060;transport=udp>
  Content-Type: application/sdp
  Content-Length: 263
⊖ Message body
⊖ Session Description Protocol
  Session Description Protocol Version (v): 0
⊕ Owner/Creator, Session Id (o): Anonymous 1269850140 1269850140 IN IP4 204.9.161.164
  Session Name (s): Skype call
⊕ Connection Information (c): IN IP4 204.9.161.164
⊕ Time Description, active time (t): 0 0
⊕ Media Description, name and address (m): audio 28924 RTP/AVP 18 0 8 101
⊕ Media Attribute (a): rtpmap:18 G729/8000
⊕ Media Attribute (a): rtpmap:0 PCMU/8000
⊕ Media Attribute (a): rtpmap:8 PCMA/8000
⊕ Media Attribute (a): rtpmap:101 telephone-event/8000
⊕ Media Attribute (a): fmp:18 annexb=no
```

Входящий звонок со Skype (3/5)

(2) 183 Session Progress

```
⊕ Status-Line: SIP/2.0 183 Session Progress
⊖ Message Header
  Via: SIP/2.0/UDP 204.9.161.164:5060;branch=z9hg4bk-287ea-4bb0601c-2729e3f7-3242e07c
  ⊕ From: <sip:Anonymous@sip.skype.com>;tag=a4a109cc-13c4-4bb0601c-2729e3f7-36880b6f
  ⊕ To: <sip:827078931524@sip.skype.com>;tag=194b5b49a4
  Call-ID: CXC-59-6942a370-a4a109cc-13c4-4bb0601c-2729e3f7-2afee549
  CSeq: 1 INVITE
  User-Agent: AddPac SIP Gateway
  ⊕ Contact: <sip:99051000003457@60.196.6.77>
  Content-Type: application/sdp
  Content-Length: 177
⊖ Message body
  ⊖ Session Description Protocol
    Session Description Protocol version (v): 0
    ⊕ Owner/Creator, Session Id (o): addpac 1269850137 1269850137 IN IP4 60.196.6.77
    Session Name (s): AddPac Gateway SDP
    ⊕ Connection Information (c): IN IP4 60.196.6.77
    ⊕ Time Description, active time (t): 1269850137 0
    Session Attribute (a): sendonly
    ⊕ Media Description, name and address (m): audio 26128 RTP/AVP 18
    ⊕ Media Attribute (a): rtpmap:18 G729/8000
```

Входящий звонок со Skype (4/5)

(3) 200 OK

```
⊕ Status-Line: SIP/2.0 200 OK
⊖ Message Header
  Via: SIP/2.0/UDP 204.9.161.164:5060;branch=z9hG4bK-287ea-4bb0601c-2729e3f7-3242e07c
  ⊕ From: <sip:Anonymous@sip.skype.com>;tag=a4a109cc-13c4-4bb0601c-2729e3f7-36880b6f
  ⊕ To: <sip:827078931524@sip.skype.com>;tag=194b5b49a4
    Call-ID: CXC-59-6942a370-a4a109cc-13c4-4bb0601c-2729e3f7-2afee549
    CSeq: 1 INVITE
    User-Agent: AddPac SIP Gateway
  ⊕ Contact: <sip:99051000003457@60.196.6.77>
    Content-Type: application/sdp
    Content-Length: 248
⊖ Message body
  ⊖ Session Description Protocol
    Session Description Protocol Version (v): 0
  ⊕ Owner/Creator, Session Id (o): 07078931524 1269882543 1269882543 IN IP4 172.17.111.211
    Session Name (s): AddPac Gateway SDP
  ⊕ Connection Information (c): IN IP4 172.17.111.211
  ⊕ Time Description, active time (t): 1269882543 0
  ⊕ Media Description, name and address (m): audio 23106 RTP/AVP 18 101
  ⊕ Media Attribute (a):ptime:20
  ⊕ Media Attribute (a):rtpmap:18 G729/8000/1
  ⊕ Media Attribute (a):rtpmap:101 telephone-event/8000/1
  ⊕ Media Attribute (a):fmtp:101 0-15
```

Входящий звонок со Skype (5/5)

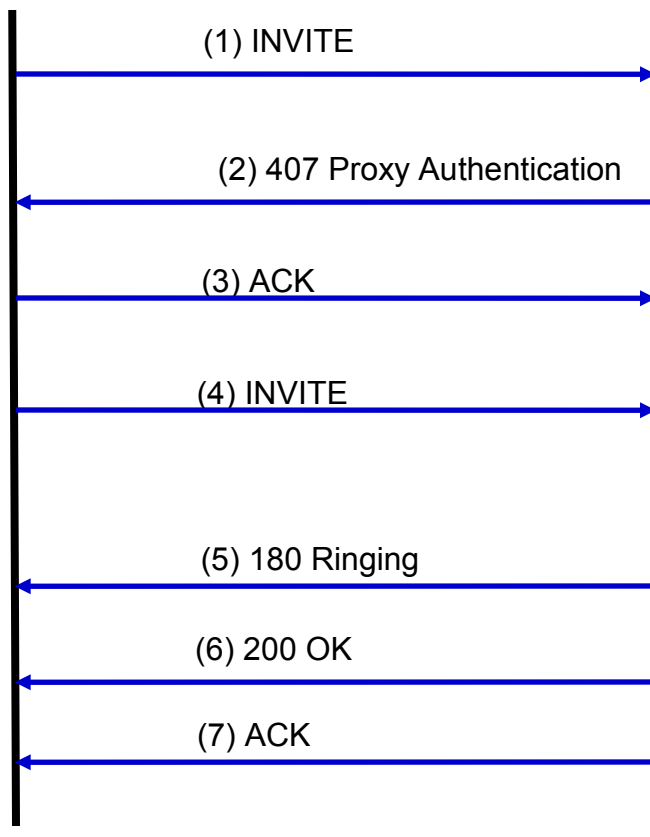
(4) ACK

```
⊕ Request-Line: ACK sip:99051000003457@60.196.6.77 SIP/2.0
⊖ Message Header
⊕ From: <sip:Anonymous@sip.skype.com>;tag=a4a109cc-13c4-4bb0601c-2729e3f7-36880b6f
⊕ To: <sip:827078931524@sip.skype.com>;tag=194b5b49a4
  Call-ID: CXC-59-6942a370-a4a109cc-13c4-4bb0601c-2729e3f7-2afee549
  CSeq: 1 ACK
  Via: SIP/2.0/UDP 204.9.161.164:5060;branch=z9hg4bk-287eb-4bb0601f-2729ee10-66a221b2
  Max-Forwards: 70
  P-Asserted-Identity: <sip:Anonymous@sip.skype.com>
⊕ Contact: <sip:Anonymous@204.9.161.164:5060;transport=udp>
  Content-Length: 0
```

Исходящий звонок с IP АТС (1/7)



AddPac IP ATC



Исходящий звонок с IP АТС (2/7)

(1) INVITE

```
⊕ Request-Line: INVITE sip:827079510919@sip.skype.com SIP/2.0
⊖ Message Header
  Via: SIP/2.0/UDP 60.196.6.77:5060;branch=z9hg4bk964b554ca484
  ⊕ From: <sip:99051000003457@sip.skype.com>;tag=964b554ca4
  ⊕ To: <sip:827079510919@sip.skype.com>
  Call-ID: 9666b04b-146c-556e-804c-0002a4ff4869@60.196.6.77
  CSeq: 84 INVITE
  Supported: timer, 100rel
  Min-SE: 1800
  Date: Mon, 29 Mar 2010 17:36:38 GMT
  Session-Expires: 1800
  User-Agent: AddPac IP-PBX
  ⊕ Contact: <sip:99051000003457@60.196.6.77>
  Accept: application/sdp
  Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, UPDATE, PRACK, REFER, NOTIFY, INFO
  Content-Type: application/sdp
  Content-Length: 449
  Max-Forwards: 69
⊖ Message body
  ⊖ Session Description Protocol
    Session Description Protocol version (v): 0
    ⊕ Owner/Creator, Session Id (o): 99051000003457 1269884196 1269884196 IN IP4 172.17.101.240
    Session Name (s): AddPac Gateway SDP
    ⊕ Connection Information (c): IN IP4 172.17.101.240
    ⊕ Time Description, active time (t): 1269884196 0
    ⊕ Media Description, name and address (m): audio 23394 RTP/SAVP 18 101
    ⊕ Media Attribute (a):ptime:20
    ⊕ Media Attribute (a):crypto:1 AES_CM_128_HMAC_SHA1_80 inline:wzF4/tpriwLdXEzciOxzodD0offSwJXMzmE7wrAX
    ⊕ Media Attribute (a):rtpmap:18 G729/8000
    ⊕ Media Attribute (a):rtpmap:101 telephone-event/8000
    ⊕ Media Attribute (a):fmtp:101 0-15
    ⊕ Media Description, name and address (m): audio 23394 RTP/AVP 18 101
    ⊕ Media Attribute (a):ptime:20
    ⊕ Media Attribute (a):rtpmap:18 G729/8000
    ⊕ Media Attribute (a):rtpmap:101 telephone-event/8000
    ⊕ Media Attribute (a):fmtp:101 0-15
```


Исходящий звонок с IP АТС (3/7)

(2) 407 Proxy Authentication

```
⊕ Status-Line: SIP/2.0 407 Proxy Authentication Required
⊖ Message Header
⊕ From: <sip:99051000003457@sip.skype.com>;tag=964b554ca4
⊕ To: <sip:827079510919@sip.skype.com>;tag=a4a109cc-13c4-4bb0669a-27433f01-4d79c76
  Call-ID: 9666b04b-146c-556e-804c-0002a4ff4869@60.196.6.77
  CSeq: 84 INVITE
  Proxy-Authenticate: Digest realm="sip.skype.com", nonce="4bb066b80001781bc891b9609d299d2022c6c16fb79e8c19", algorithm=MD5
  Via: SIP/2.0/UDP 60.196.6.77:5060;branch=z9hg4bk964b554ca484
  Content-Length: 0
```

Исходящий звонок с IP АТС (4/7)

(3) ACK

```
⊕ Request-Line: ACK sip:827079510919@sip.skype.com SIP/2.0
⊖ Message Header
  Via: SIP/2.0/UDP 60.196.6.77:5060;branch=z9hg4bk964b554ca484
  ⊕ From: <sip:99051000003457@sip.skype.com>;tag=964b554ca4
  ⊕ To: <sip:827079510919@sip.skype.com>;tag=a4a109cc-13c4-4bb0669a-27433f01-4d79c76
    Call-ID: 9666b04b-146c-556e-804c-0002a4ff4869@60.196.6.77
    CSeq: 84 ACK
    Content-Length: 0
    Max-Forwards: 70
```

Исходящий звонок с IP АТС (5/7)

(4) INVITE

```
Request-Line: INVITE sip:827079510919@sip.skype.com;transport=udp;maddr=204.9.161.164 SIP/2.0
Message Header
  Via: SIP/2.0/UDP 60.196.6.77:5060;branch=z9hG4bK964b554ca485
  From: <sip:99051000003457@sip.skype.com>;tag=964b554ca4
  To: <sip:827079510919@sip.skype.com>
  Call-ID: 9666b04b-146c-556e-804c-0002a4ff4869@60.196.6.77
  CSeq: 85 INVITE
  Supported: replaces, timer, 100rel, early-session
  Min-SE: 1800
  Date: Mon, 29 Mar 2010 17:36:38 GMT
  Session-Expires: 1800
  User-Agent: AddPac SIP Gateway
  Contact: <sip:99051000003457@60.196.6.77>
  Accept: application/sdp
  Proxy-Authorization: Digest username="99051000003457", realm="sip.skype.com", nonce="4bb066b80001781bc891b9609d299d2022c6c16fb79e8c19",
  Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, UPDATE, PRACK, REFER, NOTIFY, INFO
  Content-Type: application/sdp
  Content-Length: 449
  Max-Forwards: 70
Message body
  Session Description Protocol
    Session Description Protocol Version (v): 0
    Owner/Creator, Session Id (o): 99051000003457 1269884196 1269884196 IN IP4 172.17.101.240
    Session Name (s): AddPac Gateway SDP
    Connection Information (c): IN IP4 172.17.101.240
    Time Description, active time (t): 1269884196 0
    Media Description, name and address (m): audio 23394 RTP/SAVP 18 101
    Media Attribute (a):ptime:20
    Media Attribute (a):crypto:1 AES_CM_128_HMAC_SHA1_80 inline:wzF4/tpRiWLdXEzci0xzodD00ffSwJXMzmE7wrAX
    Media Attribute (a):rtpmap:18 G729/8000
    Media Attribute (a):rtpmap:101 telephone-event/8000
    Media Attribute (a):fmtp:101 0-15
    Media Description, name and address (m): audio 23394 RTP/AVP 18 101
    Media Attribute (a):ptime:20
    Media Attribute (a):rtpmap:18 G729/8000
    Media Attribute (a):rtpmap:101 telephone-event/8000
    Media Attribute (a):fmtp:101 0-15
```

Исходящий звонок с IP АТС (6/7)

(5) 180 Ringing

```
⊕ Status-Line: SIP/2.0 180 Ringing
⊖ Message Header
⊕ From: <sip:99051000003457@sip.skype.com>;tag=964b554ca4
⊕ To: <sip:827079510919@sip.skype.com>;tag=a4a109cc-13c4-4bb0669a-27433f01-4d79c76
  Call-ID: 9666b04b-146c-556e-804c-0002a4ff4869@60.196.6.77
  CSeq: 85 INVITE
  User-Agent: sipgw-1.0
  Via: SIP/2.0/UDP 60.196.6.77:5060;branch=z9hg4bk964b554ca485
⊕ Contact: <sip:827079510919@sip.skype.com:5060;maddr=204.9.161.164;transport=udp>
  Content-Length: 0
```

Исходящий звонок с IP АТС (7/7)

(6) 200 OK

```
⊕ Status-Line: SIP/2.0 200 OK
⊖ Message Header
⊕ From: <sip:99051000003457@sip.skype.com>;tag=964b554ca4
⊕ To: <sip:827079510919@sip.skype.com>;tag=a4a109cc-13c4-4bb0669a-27433f01-4d79c76
  Call-ID: 9666b04b-146c-556e-804c-0002a4ff4869@60.196.6.77
  CSeq: 85 INVITE
  Allow: INVITE,ACK,CANCEL,OPTIONS,BYE
  User-Agent: siggw-1.0
  Via: SIP/2.0/UDP 60.196.6.77:5060;branch=z9hg4bk964b554ca485
⊕ Contact: <sip:827079510919@sip.skype.com:5060;maddr=204.9.161.164;transport=udp>
  Content-Type: application/sdp
  Content-Length: 220
⊖ Message body
⊖ Session Description Protocol
  Session Description Protocol version (v): 0
  ⊕ Owner/Creator, Session Id (o): 99051000003457 1269884196 1269884196 IN IP4 204.9.161.164
  Session Name (s): Skype call
  ⊕ Connection Information (c): IN IP4 204.9.161.164
  ⊕ Time Description, active time (t): 0 0
  ⊕ Media Description, name and address (m): audio 24068 RTP/AVP 18 101
  ⊕ Media Attribute (a): rtpmap:18 G729/8000
  ⊕ Media Attribute (a): rtpmap:101 telephone-event/8000
  ⊕ Media Attribute (a): fmtp:18 annexb=no
```

(7) ACK

```
⊕ Request-Line: ACK sip:827079510919@sip.skype.com;transport=udp;maddr=204.9.161.164 SIP/2.0
⊖ Message Header
  Via: SIP/2.0/UDP 60.196.6.77;branch=z9hg4bk964b554ca485
⊕ From: <sip:99051000003457@sip.skype.com>;tag=964b554ca4
⊕ To: <sip:827079510919@sip.skype.com>;tag=a4a109cc-13c4-4bb0669a-27433f01-4d79c76
  Call-ID: 9666b04b-146c-556e-804c-0002a4ff4869@60.196.6.77
  CSeq: 85 ACK
  Content-Length: 0
  Max-Forwards: 70
```

Спасибо!