

## Signalling messages logged for Exercise4 of Course S-38.115 Signalling Protocol

### <Notes>:

For those students who are in the "Conditional Exam Right" status:

Logged messages(Exercise4--Part2) are now available if you couldn't register on the proxy sever of sipcenter.

As to Exercise4---Part1, you should log the messages by yourself.

Analyse the logged signalling messages and finish the Exercise4 before May.31.

1) REGISTER DENIED ----- REGISTER ACCEPTED

---

22:42:35 : Outgoing Message

Connection Key: 80.248.33.37:5060 2 2

TTL: 1

REGISTER sip:sipcenter.com:5060 SIP/2.0

To: <sip:sipcenter1593@sipcenter.com>

From: <sip:sipcenter1593@sipcenter.com>

Call-ID: -1712470855-1406708803@130.233.28.113

CSeq: 2 REGISTER

Via: SIP/2.0/UDP 130.233.28.113:5060

User-Agent: UbiquityUserAgent/4

Contact: <sip:Alice@130.233.28.113>

Expires: 3600

Content-Length: 0

---

22:42:35 : Incoming Message

Local portal key: 130.233.28.113:5060 2 0

Remote address: 80.248.33.37

Remote port: 10591

SIP/2.0 100 Trying

To: <sip:sipcenter1593@sipcenter.com>

From: <sip:sipcenter1593@sipcenter.com>

CSeq: 2 REGISTER

Call-ID: -1712470855-1406708803@130.233.28.113

Via: SIP/2.0/UDP 130.233.28.113:5060

Content-Length: 0

---

22:42:35 : Incoming Message

Local portal key: 130.233.28.113:5060 2 0

Remote address: 80.248.33.37

Remote port: 10591

SIP/2.0 401 Unauthorized

To:

<sip:sipcenter1593@sipcenter.com>;tag=1.E81778ACDA43F6876A0CD5D8DF46977E

From: <sip:sipcenter1593@sipcenter.com>

CSeq: 2 REGISTER

Call-ID: -1712470855-1406708803@130.233.28.113

Via: SIP/2.0/UDP 130.233.28.113:5060

WWW-Authenticate: Digest realm="Ubiquity Software",

nonce="f13c95444be8a9407f3e450e6c88da0344f34a134f",

opaque="1234567890abcdef", stale=false, algorithm=MD5

Content-Length: 0

---

---

22:42:54 : Outgoing Message

Connection Key: 80.248.33.37:5060 2 2

TTL: 1

REGISTER sip:sip.sipcenter.com:5060 SIP/2.0

To: <sip:sipcenter1593@sipcenter.com>

From: <sip:sipcenter1593@sipcenter.com>

Call-ID: -1712470855-1406708803@130.233.28.113

CSeq: 3 REGISTER

Via: SIP/2.0/UDP 130.233.28.113:5060

User-Agent: UbiquityUserAgent/4

Contact: <sip:Alice@130.233.28.113>

Expires: 3600

Content-Length: 0

Authorization: Digest username="sipcenter1593", realm="Ubiquity Software",  
nonce="f13c95444be8a9407f3e450e6c88da0344f34a134f",  
uri="sip:sip.sipcenter.com:5060", algorithm=MD5, opaque="1234567890abcdef",  
response="c63e791ca07da9bc8ce276f6aa9331fe"

---

22:42:54 : Incoming Message

Local portal key: 130.233.28.113:5060 2 0

Remote address: 80.248.33.37

Remote port: 10567

SIP/2.0 100 Trying

To: <sip:sipcenter1593@sipcenter.com>

From: <sip:sipcenter1593@sipcenter.com>

CSeq: 3 REGISTER

Call-ID: -1712470855-1406708803@130.233.28.113

Via: SIP/2.0/UDP 130.233.28.113:5060

Content-Length: 0

---

22:42:54 : Incoming Message

Local portal key: 130.233.28.113:5060 2 0

Remote address: 80.248.33.37

Remote port: 10567

SIP/2.0 200 OK

To:

<sip:sipcenter1593@sipcenter.com>;tag=1.E81778ACDA43F6876A0CD5D8DF46977E

From: <sip:sipcenter1593@sipcenter.com>

CSeq: 3 REGISTER

Call-ID: -1712470855-1406708803@130.233.28.113

Via: SIP/2.0/UDP 130.233.28.113:5060

Contact: <sip:Alice@130.233.28.113>;action=proxy;expires=3599;q=0.5

Content-Length: 0

---

2) CALL----ANSWER-----HANG UP ( SIP proxy center)

[LOCAL SITE: sip:Alice@130.233.28.113]

---

22:50:46 : Outgoing Message  
Connection Key: 80.248.33.37:5060 2 2  
TTL: 1  
INVITE sip:Bob@130.233.22.176 SIP/2.0  
CSeq: 4 INVITE  
To: sip:Bob@130.233.22.176  
From: sipcenter1593<sip:sipcenter1593@sipcenter.com>;tag=-1086178689  
Call-ID: -1365980417-834614277@130.233.28.113  
Via: SIP/2.0/UDP 130.233.28.113:5060  
User-Agent: UbiquityUserAgent/4  
Accept: text/plain  
Accept: application/sdp  
Accept-Encoding: identity  
Contact: <sip:Alice@130.233.28.113>  
Subject: no subject  
Content-Type: application/sdp  
Content-Length: 125

v=0  
o=- 1036097446519 1036097446519 IN IP4 130.233.28.113  
s=-  
c=IN IP4 130.233.28.113  
t=0 0  
m=audio 5004 RTP/AVP 8 3 0

---

22:50:46 : Incoming Message  
Local portal key: 130.233.28.113:5060 2 0  
Remote address: 80.248.33.37  
Remote port: 10586  
SIP/2.0 100 Trying  
To: sip:Bob@130.233.22.176  
From: sipcenter1593<sip:sipcenter1593@sipcenter.com>;tag=-1086178689  
CSeq: 4 INVITE  
Call-ID: -1365980417-834614277@130.233.28.113  
Via: SIP/2.0/UDP 130.233.28.113:5060  
Content-Length: 0

---

22:50:46 : Incoming Message  
Local portal key: 130.233.28.113:5060 2 0  
Remote address: 80.248.33.37  
Remote port: 10586  
SIP/2.0 180 Ringing  
To: sip:Bob@130.233.22.176;tag=1710638585  
From: sipcenter1593<sip:sipcenter1593@sipcenter.com>;tag=-1086178689  
CSeq: 4 INVITE  
Call-ID: -1365980417-834614277@130.233.28.113  
Via: SIP/2.0/UDP 130.233.28.113:5060  
User-Agent: UbiquityUserAgent/4  
Content-Length: 0

---

---

22:50:51 : Incoming Message

Local portal key: 130.233.28.113:5060 2 0

Remote address: 80.248.33.37

Remote port: 10586

SIP/2.0 200 OK

To: sip:Bob@130.233.22.176;tag=1710638585

From: sipcenter1593<sip:sipcenter1593@sipcenter.com>;tag=-1086178689

CSeq: 4 INVITE

Call-ID: -1365980417-834614277@130.233.28.113

Via: SIP/2.0/UDP 130.233.28.113:5060

Content-Length: 125

Content-Type: application/sdp

Content-Encoding: identity

Contact: <sip:Bob@130.233.22.176>

User-Agent: UbiquityUserAgent/4

v=0

o=- 1036095870321 1036095870321 IN IP4 130.233.22.176

s=-

c=IN IP4 130.233.22.176

t=0 0

m=audio 5004 RTP/AVP 8 3 0

---

22:50:51 : Outgoing Message

Connection Key: 130.233.22.176:5060 2 3

TTL: 1

ACK sip:Bob@130.233.22.176 SIP/2.0

CSeq: 4 ACK

To: sip:Bob@130.233.22.176;tag=1710638585

From: sipcenter1593<sip:sipcenter1593@sipcenter.com>;tag=-1086178689

Call-ID: -1365980417-834614277@130.233.28.113

Via: SIP/2.0/UDP 130.233.28.113:5060

User-Agent: UbiquityUserAgent/4

Content-Length: 0

---

22:51:16 : Outgoing Message

Connection Key: 130.233.22.176:5060 2 3

TTL: 1

BYE sip:Bob@130.233.22.176 SIP/2.0

CSeq: 5 BYE

To: sip:Bob@130.233.22.176;tag=1710638585

From: sipcenter1593<sip:sipcenter1593@sipcenter.com>;tag=-1086178689

Call-ID: -1365980417-834614277@130.233.28.113

Via: SIP/2.0/UDP 130.233.28.113:5060

User-Agent: UbiquityUserAgent/4

Accept: text/plain

Accept: application/sdp

Accept-Encoding: identity

Content-Length: 0

---

---

22:51:16 : Incoming Message

Local portal key: 130.233.28.113:5060 2 0

Remote address: 130.233.22.176

Remote port: 1084

SIP/2.0 200 OK

To: sip:Bob@130.233.22.176;tag=1710638585

From: sipcenter1593<sip:sipcenter1593@sipcenter.com>;tag=-1086178689

CSeq: 5 BYE

Call-ID: -1365980417-834614277@130.233.28.113

Via: SIP/2.0/UDP 130.233.28.113:5060

User-Agent: UbiquityUserAgent/4

Content-Length: 0

---

3) CALL----ANSWER-----HANG UP (SIP proxy center)

[REMOTE SITE: sip:Bob@130.233.22.176 ]

---

04:45:32 : Incoming Message

Local portal key: 130.233.22.176:5060 2 0

Remote address: 80.248.33.37

Remote port: 10554

INVITE sip:Bob@130.233.22.176 SIP/2.0

CSeq: 4 INVITE

To: sip:Bob@130.233.22.176

From: sipcenter1593<sip:sipcenter1593@sipcenter.com>;tag=-1086178689

Call-ID: -1365980417-834614277@130.233.28.113

Via: SIP/2.0/UDP sip.sipcenter.com:5060;branch=1.E81778ACDA43F6876A0CD5D8DF46977E-2743\*0\*0

Via: SIP/2.0/UDP 130.233.28.113:5060

User-Agent: UbiquityUserAgent/4

Accept: text/plain

Accept: application/sdp

Accept-Encoding: identity

Contact: <sip:Alice@130.233.28.113>

Subject: no subject

Content-Type: application/sdp

Content-Length: 125

v=0

o=- 1036097446519 1036097446519 IN IP4 130.233.28.113

s=-

c=IN IP4 130.233.28.113

t=0 0

m=audio 5004 RTP/AVP 8 3 0

---

---

04:45:33 : Outgoing Message  
Connection Key: 80.248.33.37:5060 2 2  
TTL: 1  
SIP/2.0 100 Trying  
To: sip:Bob@130.233.22.176;tag=1710638585  
From: sipcenter1593<sip:sipcenter1593@sipcenter.com>;tag=-1086178689  
CSeq: 4 INVITE  
Call-ID: -1365980417-834614277@130.233.28.113  
Via: SIP/2.0/UDP sip.sipcenter.com:5060;branch=1.E81778ACDA43F6876A0CD5D8DF46977E-2743\*0\*0  
Via: SIP/2.0/UDP 130.233.28.113:5060  
User-Agent: UbiquityUserAgent/4  
Content-Length: 0

---

04:45:33 : Outgoing Message  
Connection Key: 80.248.33.37:5060 2 2  
TTL: 1  
SIP/2.0 180 Ringing  
To: sip:Bob@130.233.22.176;tag=1710638585  
From: sipcenter1593<sip:sipcenter1593@sipcenter.com>;tag=-1086178689  
CSeq: 4 INVITE  
Call-ID: -1365980417-834614277@130.233.28.113  
Via: SIP/2.0/UDP sip.sipcenter.com:5060;branch=1.E81778ACDA43F6876A0CD5D8DF46977E-2743\*0\*0  
Via: SIP/2.0/UDP 130.233.28.113:5060  
User-Agent: UbiquityUserAgent/4  
Content-Length: 0

---

04:45:37 : Outgoing Message  
Connection Key: 80.248.33.37:5060 2 2  
TTL: 1  
SIP/2.0 200 OK  
To: sip:Bob@130.233.22.176;tag=1710638585  
From: sipcenter1593<sip:sipcenter1593@sipcenter.com>;tag=-1086178689  
CSeq: 4 INVITE  
Call-ID: -1365980417-834614277@130.233.28.113  
Via: SIP/2.0/UDP sip.sipcenter.com:5060;branch=1.E81778ACDA43F6876A0CD5D8DF46977E-2743\*0\*0  
Via: SIP/2.0/UDP 130.233.28.113:5060  
Content-Length: 125  
Content-Type: application/sdp  
Content-Encoding: identity  
Contact: <sip:Bob@130.233.22.176>  
User-Agent: UbiquityUserAgent/4

v=0  
o=- 1036095870321 1036095870321 IN IP4 130.233.22.176  
s=-  
c=IN IP4 130.233.22.176  
t=0 0  
m=audio 5004 RTP/AVP 8 3 0

---

---

04:45:38 : Incoming Message

Local portal key: 130.233.22.176:5060 2 0

Remote address: 130.233.28.113

Remote port: 1425

ACK sip:Bob@130.233.22.176 SIP/2.0

CSeq: 4 ACK

To: sip:Bob@130.233.22.176;tag=1710638585

From: sipcenter1593<sip:sipcenter1593@sipcenter.com>;tag=-1086178689

Call-ID: -1365980417-834614277@130.233.28.113

Via: SIP/2.0/UDP 130.233.28.113:5060

User-Agent: UbiquityUserAgent/4

Content-Length: 0

---

04:46:02 : Incoming Message

Local portal key: 130.233.22.176:5060 2 0

Remote address: 130.233.28.113

Remote port: 1425

BYE sip:Bob@130.233.22.176 SIP/2.0

CSeq: 5 BYE

To: sip:Bob@130.233.22.176;tag=1710638585

From: sipcenter1593<sip:sipcenter1593@sipcenter.com>;tag=-1086178689

Call-ID: -1365980417-834614277@130.233.28.113

Via: SIP/2.0/UDP 130.233.28.113:5060

User-Agent: UbiquityUserAgent/4

Accept: text/plain

Accept: application/sdp

Accept-Encoding: identity

Content-Length: 0

---

04:46:02 : Outgoing Message

Connection Key: 130.233.28.113:5060 2 3

TTL: 1

SIP/2.0 200 OK

To: sip:Bob@130.233.22.176;tag=1710638585

From: sipcenter1593<sip:sipcenter1593@sipcenter.com>;tag=-1086178689

CSeq: 5 BYE

Call-ID: -1365980417-834614277@130.233.28.113

Via: SIP/2.0/UDP 130.233.28.113:5060

User-Agent: UbiquityUserAgent/4

Content-Length: 0

---