

## Cisco 8841 Failing to Register to IP Office

Time	Source	Destination	Protocol	Length	Info
9 4.578071	192.168.42.10	192.168.42.1	SIP	533	Request: REGISTER sip:192.168.42.1 (1 binding)
10 4.582710	192.168.42.1	192.168.42.10	SIP	578	Status: 401 Unauthorized
11 4.584076	192.168.42.10	192.168.42.1	SIP	698	Request: REGISTER sip:192.168.42.1 (1 binding)
12 4.589669	192.168.42.1	192.168.42.10	SIP	489	Status: 403 Forbidden

## Detailed output of 8841 REGISTER request

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▼ Session Initiation Protocol (REGISTER)
  ▼ Request-Line: REGISTER sip:192.168.42.1 SIP/2.0
    Method: REGISTER
    ▶ Request-URI: sip:192.168.42.1
      [Resent Packet: False]
  ▼ Message Header
    ▶ Via: SIP/2.0/UDP 192.168.42.10:5060;branch=z9hG4bK-c17613ea
    ▶ From: "502" <sip:502@192.168.42.1>;tag=fa280edaa1ebecado0
    ▶ To: "502" <sip:502@192.168.42.1>
    Call-ID: c2c998be-22e34118@192.168.42.10
    ▶ CSeq: 9362 REGISTER
    Max-Forwards: 70
  ▼ Authorization: Digest username="502", realm="ipoffice", nonce="a09335ff4fe7e302353b", uri="sip:192.168.42.1", algorithm=MD5, response="861c803be4469540571a9d0d9ab50a1c"
    Authentication Scheme: Digest
    Username: "502"
    Realm: "ipoffice"
    Nonce Value: "a09335ff4fe7e302353b"
    Authentication URI: "sip:192.168.42.1"
    Algorithm: MD5
    Digest Authentication Response: "861c803be4469540571a9d0d9ab50a1c"
  ▶ Contact: "502" <sip:502@192.168.42.10:5060>;expires=3600
  User-Agent: Cisco-CP-8841-3PCC/11.0.1
  Content-Length: 0
  Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, REFER, UPDATE
  Supported: replaces, sec-agree
  
```

## X-Lite Successfully Registering to IP Office with same credentials

Time	Source	Destination	Protocol	Length	Info
3 0.001866	192.168.42.5	192.168.42.1	SIP	561	Request: REGISTER sip:192.168.42.1 (1 binding)
4 0.007900	192.168.42.1	192.168.42.5	SIP	607	Status: 401 Unauthorized
5 0.008685	192.168.42.5	192.168.42.1	SIP	726	Request: REGISTER sip:192.168.42.1 (1 binding)
6 0.014890	192.168.42.1	192.168.42.5	SIP	628	Status: 200 OK (1 binding)
7 0.352796	192.168.42.5	192.168.42.1	SIP	602	Request: SUBSCRIBE sip:502@192.168.42.1
8 0.357835	192.168.42.1	192.168.42.5	SIP	465	Status: 200 OK
9 0.358869	192.168.42.1	192.168.42.5	SIP	661	Request: NOTIFY sip:502@192.168.42.5:52871
10 0.359907	192.168.42.5	192.168.42.1	SIP	430	Status: 200 OK

## Detailed output of X-Lite REGISTER request

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▼ Session Initiation Protocol (REGISTER)
  ▼ Request-Line: REGISTER sip:192.168.42.1 SIP/2.0
    Method: REGISTER
    ▶ Request-URI: sip:192.168.42.1
      [Resent Packet: False]
  ▼ Message Header
    ▶ Via: SIP/2.0/UDP 192.168.42.5:52871;branch=z9hG4bK-524287-1----bf24db1ae49be923;rport
    Max-Forwards: 70
    ▶ Contact: <sip:502@192.168.42.5:52871;rinstance=73ff737de0c119b1>
    ▶ To: "502" <sip:502@192.168.42.1>
    ▶ From: "502" <sip:502@192.168.42.1>;tag=58bcde3a
    Call-ID: 943850TAxYzYxYzQxYyMjdmMDMyOTFkZGQ0NmRlUNWNjYWQ
    ▶ CSeq: 2 REGISTER
    Expires: 3600
    Allow: OPTIONS, SUBSCRIBE, NOTIFY, INVITE, ACK, CANCEL, BYE, REFER, INFO
    User-Agent: X-Lite release 5.4.0 stamp 94385
  ▼ Authorization: Digest username="502", realm="ipoffice", nonce="a9575c720881953aed32", uri="sip:192.168.42.1", response="35287384f82ab3537df3fdac67f41bba",
    Authentication Scheme: Digest
    Username: "502"
    Realm: "ipoffice"
    Nonce Value: "a9575c720881953aed32"
    Authentication URI: "sip:192.168.42.1"
    Digest Authentication Response: "35287384f82ab3537df3fdac67f41bba"
    Algorithm: MD5
    Content-Length: 0
  
```