VCS Series 또는 Expressway Series Xconfig 및 Xstatus Output Collection with PuTTY

목차

소개

이 문서에서는 VCS-Control, VCS-Expressway, Expressway-C 및 Expressway-E와 같은 Expressway Series 디바이스에서 **xconfig** 및 **xstatus** xcommands의 CLI 출력을 수집하여 Cisco TAC(Technical Assistance Center)에서 가끔 검색해야 하는 방법에 대해 설명합니다.

사전 요구 사항

요구 사항

다음 주제에 대한 지식을 보유하고 있으면 유용합니다.

- PuTTY 또는 SecureCRT, Tera Term 등과 같은 유사한 터미널 에뮬레이션 소프트웨어
- VCS/Expressway 시리즈 디바이스에 대한 관리자 계정 사용자 이름 및 비밀번호
- 네트워크 경로에 허용되는 RJ45-D-Sub9pin Serial Console Cable 또는 SSH(Secure Shell)

사용되는 구성 요소

이 문서의 정보는 다음 소프트웨어 및 하드웨어 버전을 기반으로 합니다.

- PuTTY(사본을 얻으려면 PuTTY 다운로드 페이지를 방문하십시오.)
- 버전 7.2.1을 실행하는 VCS-C는 현재 최신 버전인 버전 8.2.2을 통해 적용할 수 있는 이 예제에 사용됩니다.

구성

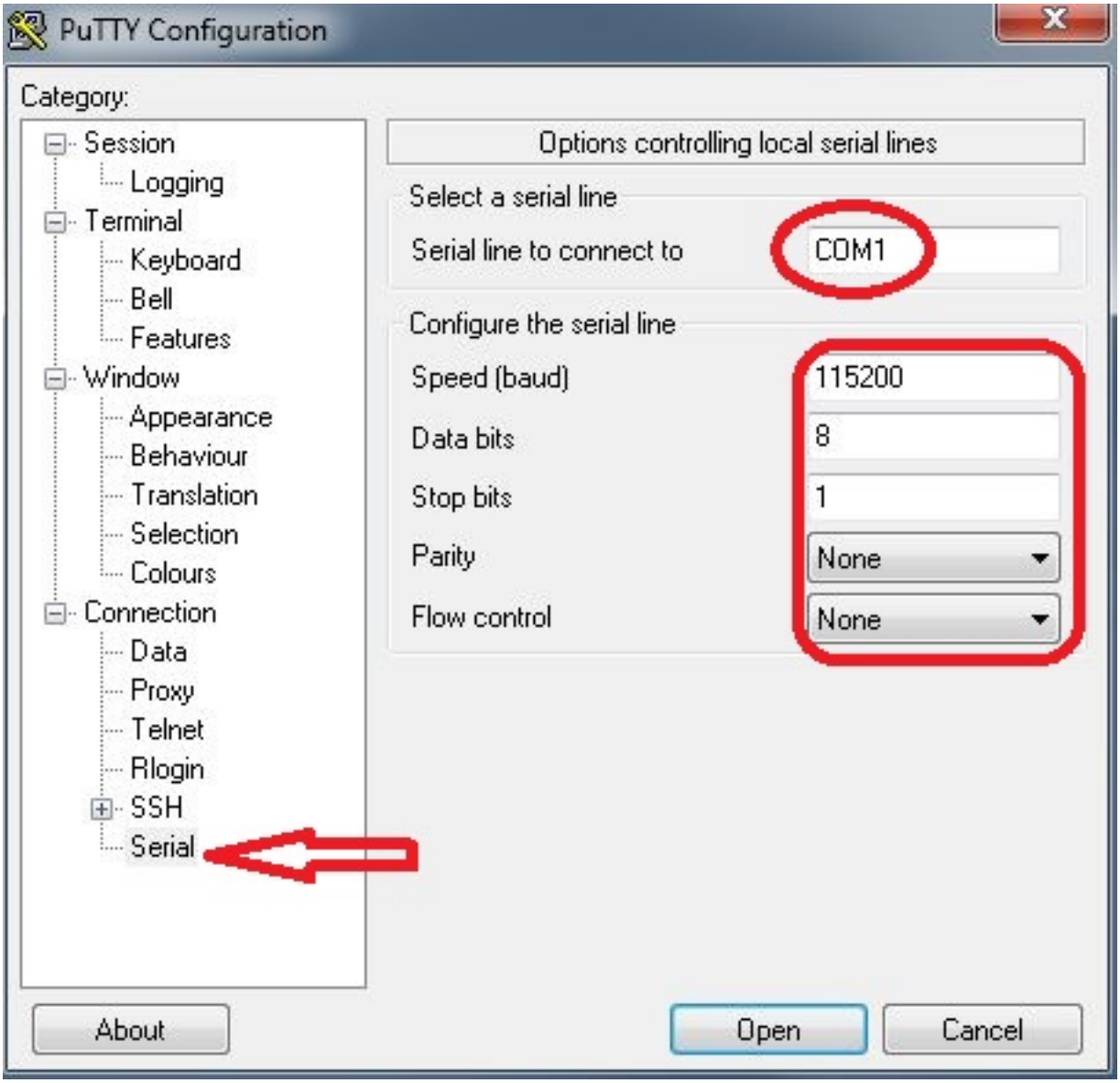
콘솔로 연결

> **참고:** 이 문서에서는 기능 물리적 직렬 콘솔 케이블이 연결되어 있다고 가정합니다. 디바이스와 함께 수신해야 합니다.

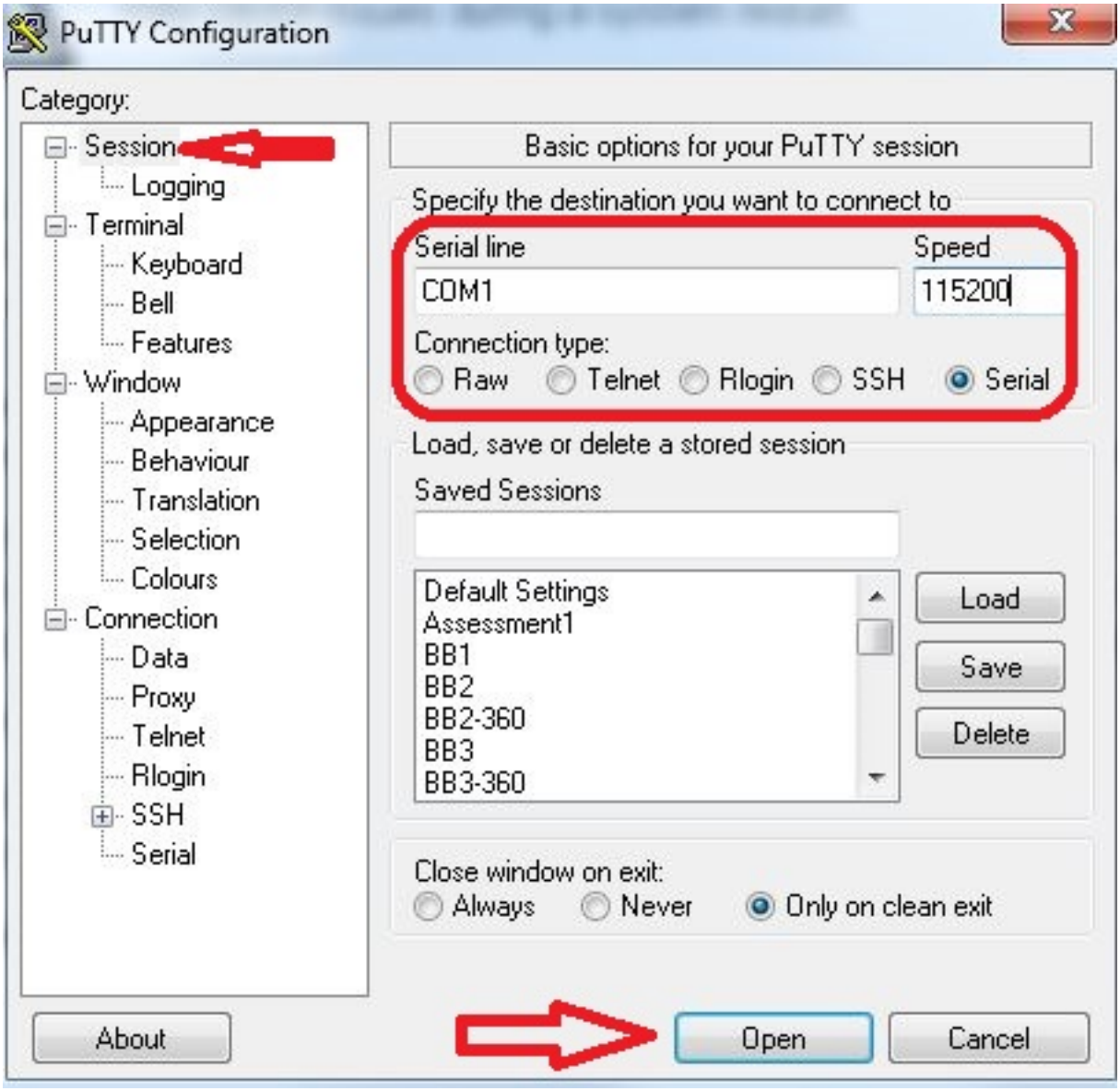
다음은 PuTTY에서 직렬 콘솔 액세스를 위해 구성해야 하는 설정의 예입니다.

> **참고:** 콘솔이 PC에 연결된 방식에 따라 통신(COM) 포트를 조정해야 합니다.

1. Configuration(컨피그레이션) > **Category(카테고리) > Connection(연결) > Serial(시리얼)**으로 이동하여 다음과 같이 시리얼 설정을 조정합니다.



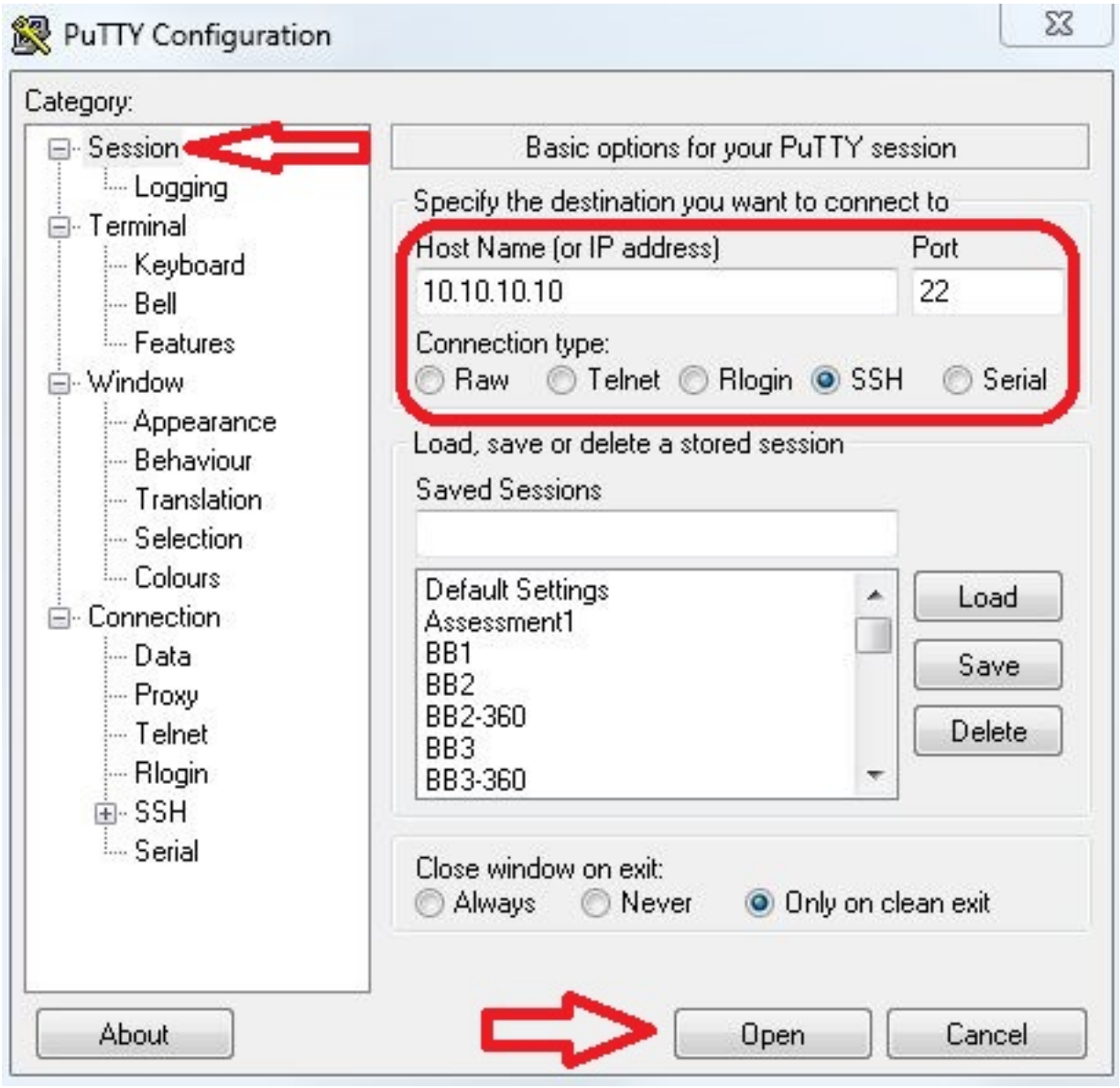
2. Category(**카테고리) > Session(세션)**으로 이동하여 **Serial** type(시리얼 유형)을 연결 유형으로 선택하고 여기에 표시된 대로 Open(**열기)**을 클릭합니다.



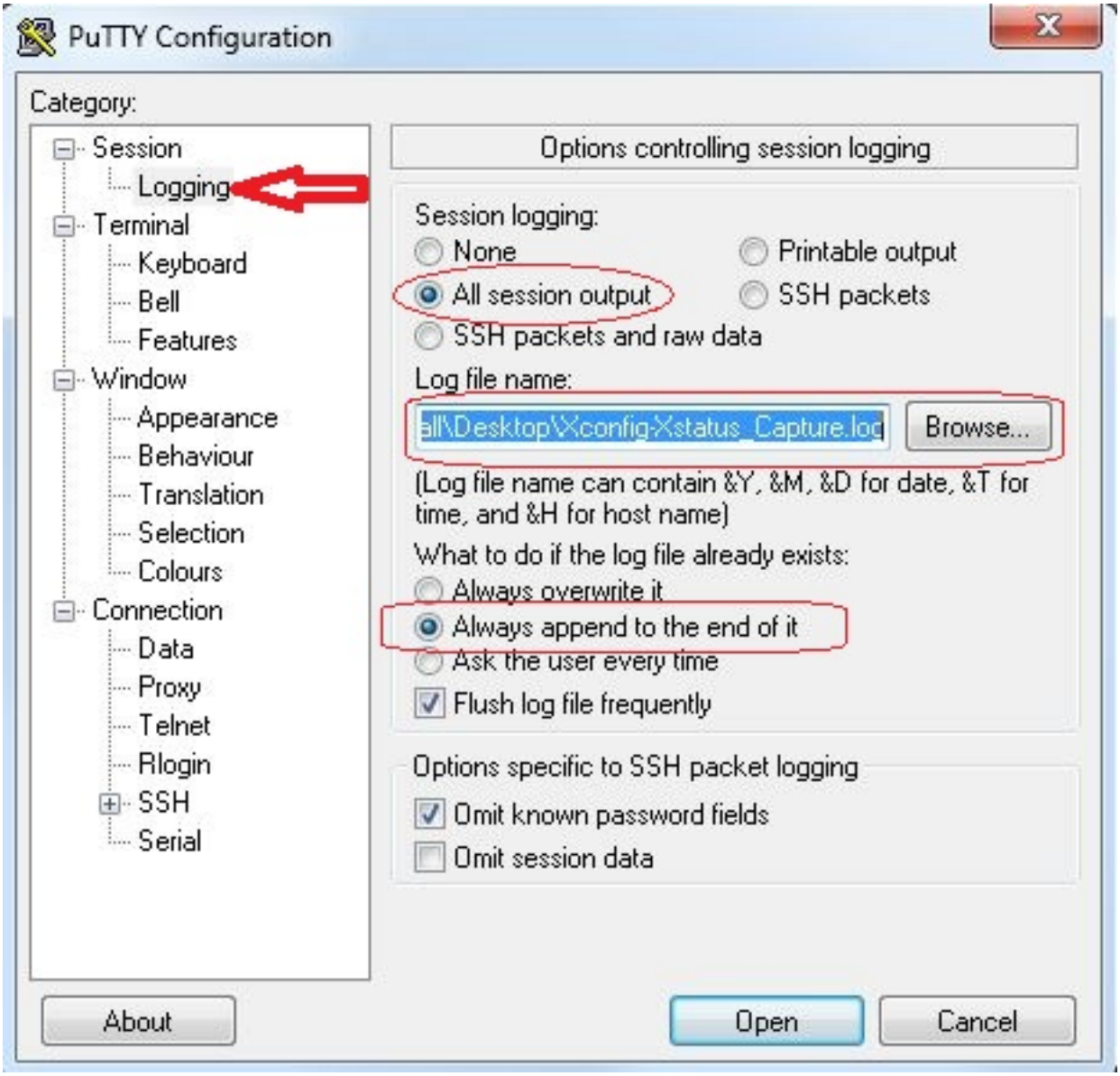
SSH를 통해 연결

더 간단한 방법은 디바이스에 SSH를 설치하는 것입니다.

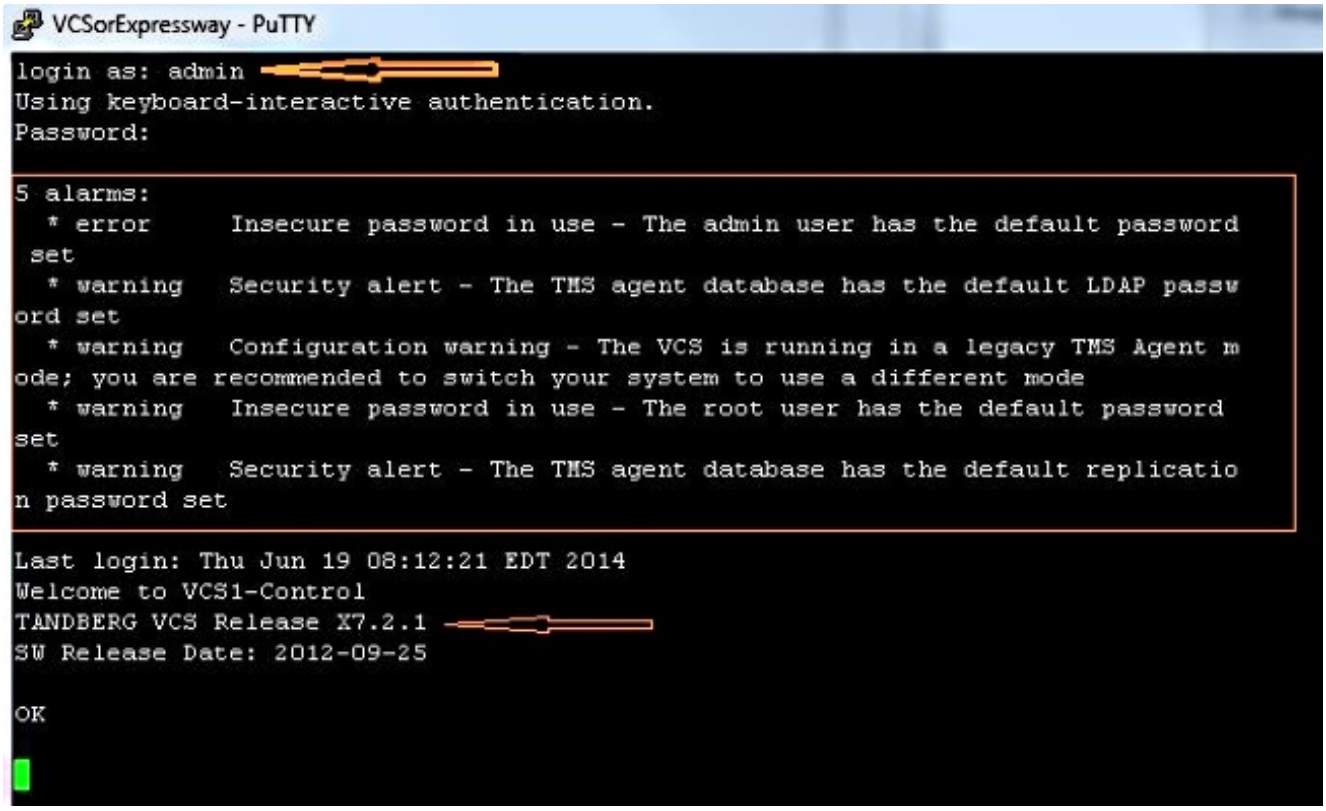
1. 다음 예와 같이 PuTTY에서 설정을 조정하려면 VCS/Expressway 디바이스의 IP 주소를 사용합니다.



2. 디바이스에 대한 PuTTY 세션 이전 또는 도중 Logging Settings(로깅 설정)를 설정해야 합니다. 이렇게 하려면 Configuration(구성) **> Category(범주) > Session(세션) > Logging(로깅)으로 이동하여** 이 예와 일치하도록 설정을 구성합니다(파일 경로와 파일 이름을 사용자 PC 및 필요에 맞게 조정).

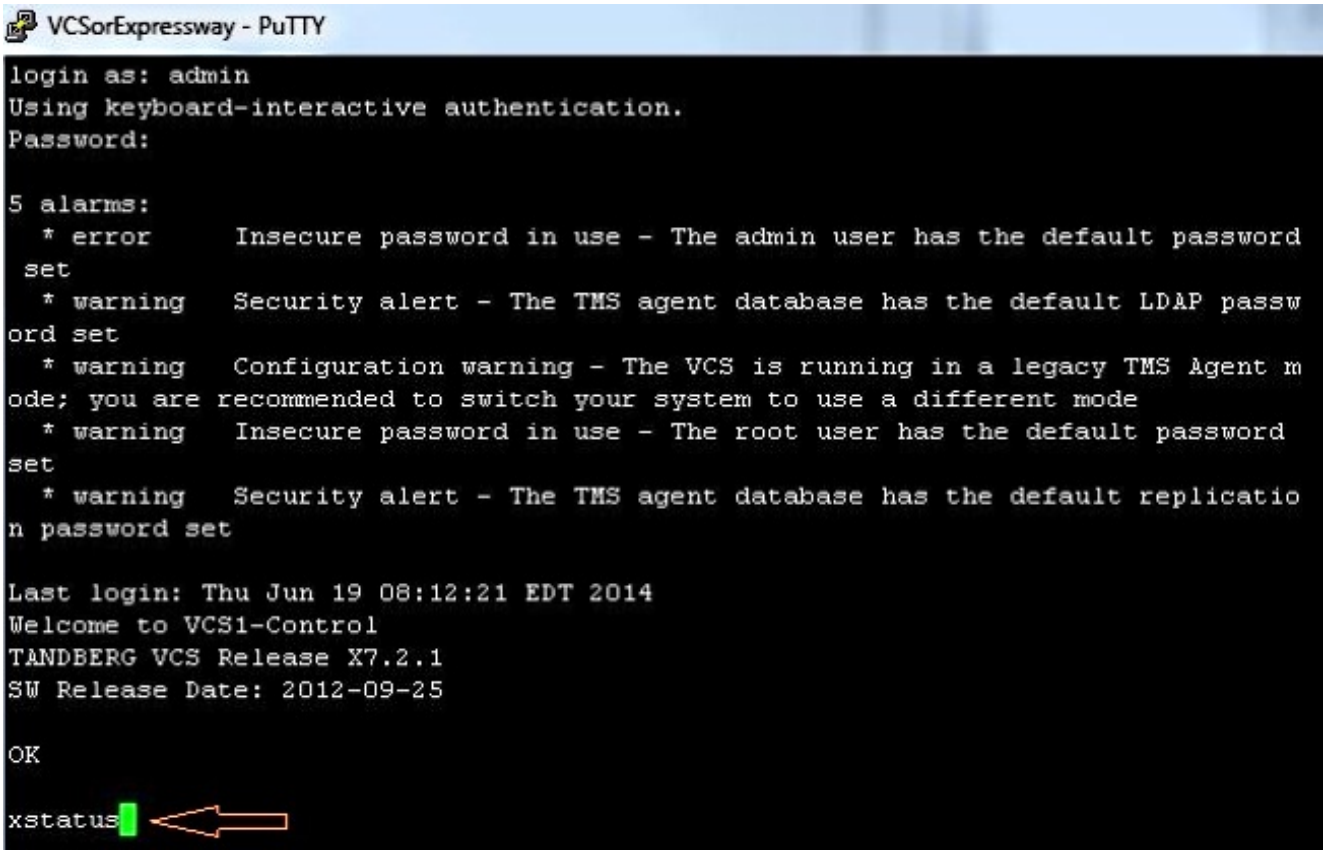


3. 연결되고 로그인하면 이 화면과 유사한 화면이 표시됩니다. 여기에 표시된 대로 관리자로 로그인하십시오.

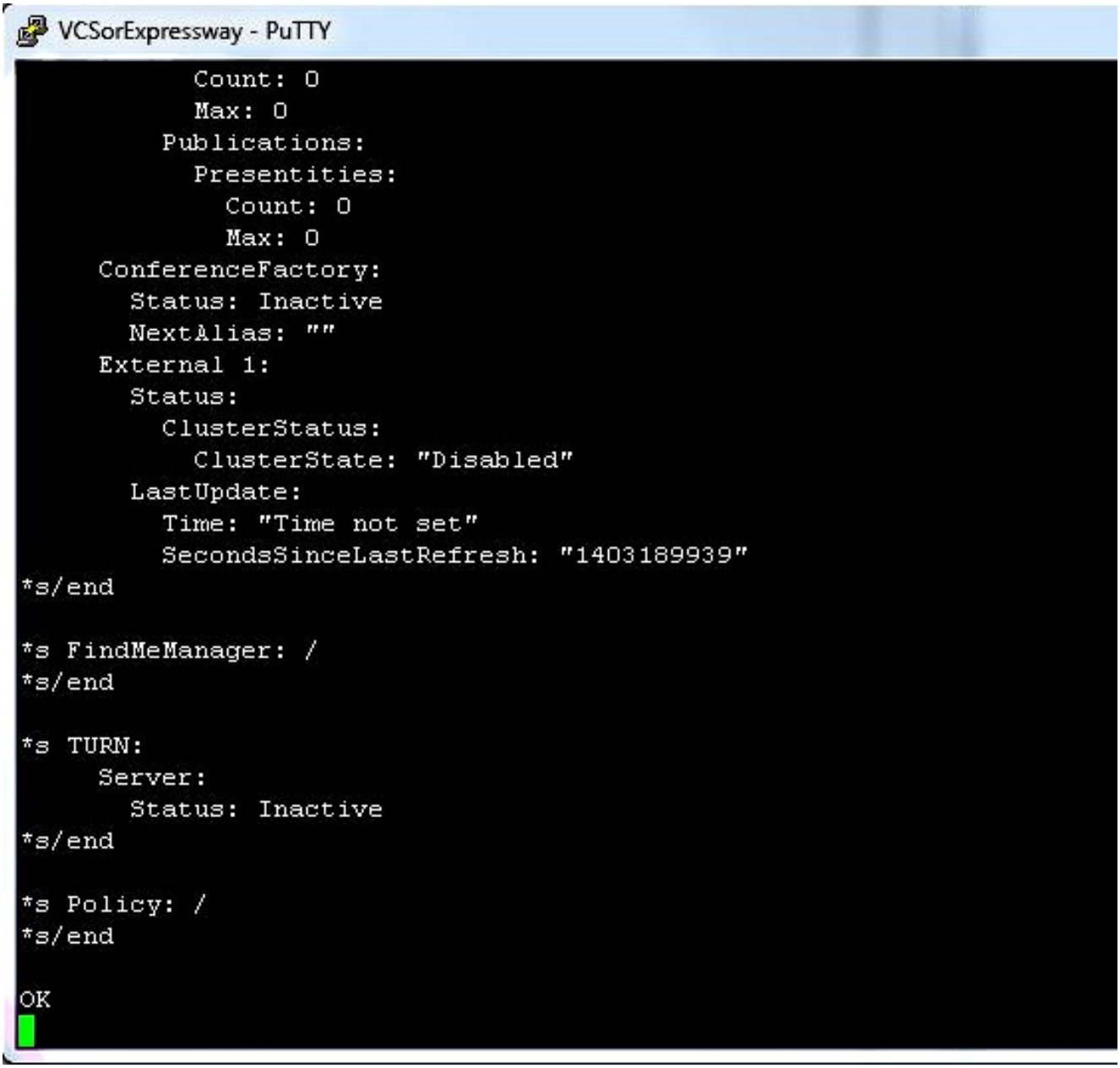


주의: 랩 환경이므로 경보를 무시할 수 있습니다. 프로덕션 환경에서 경보가 발생하면 최대한 빨리 처리해야 합니다.

4. xstatus 명령을 **입력하고 Enter** 키를 **누릅니다**.

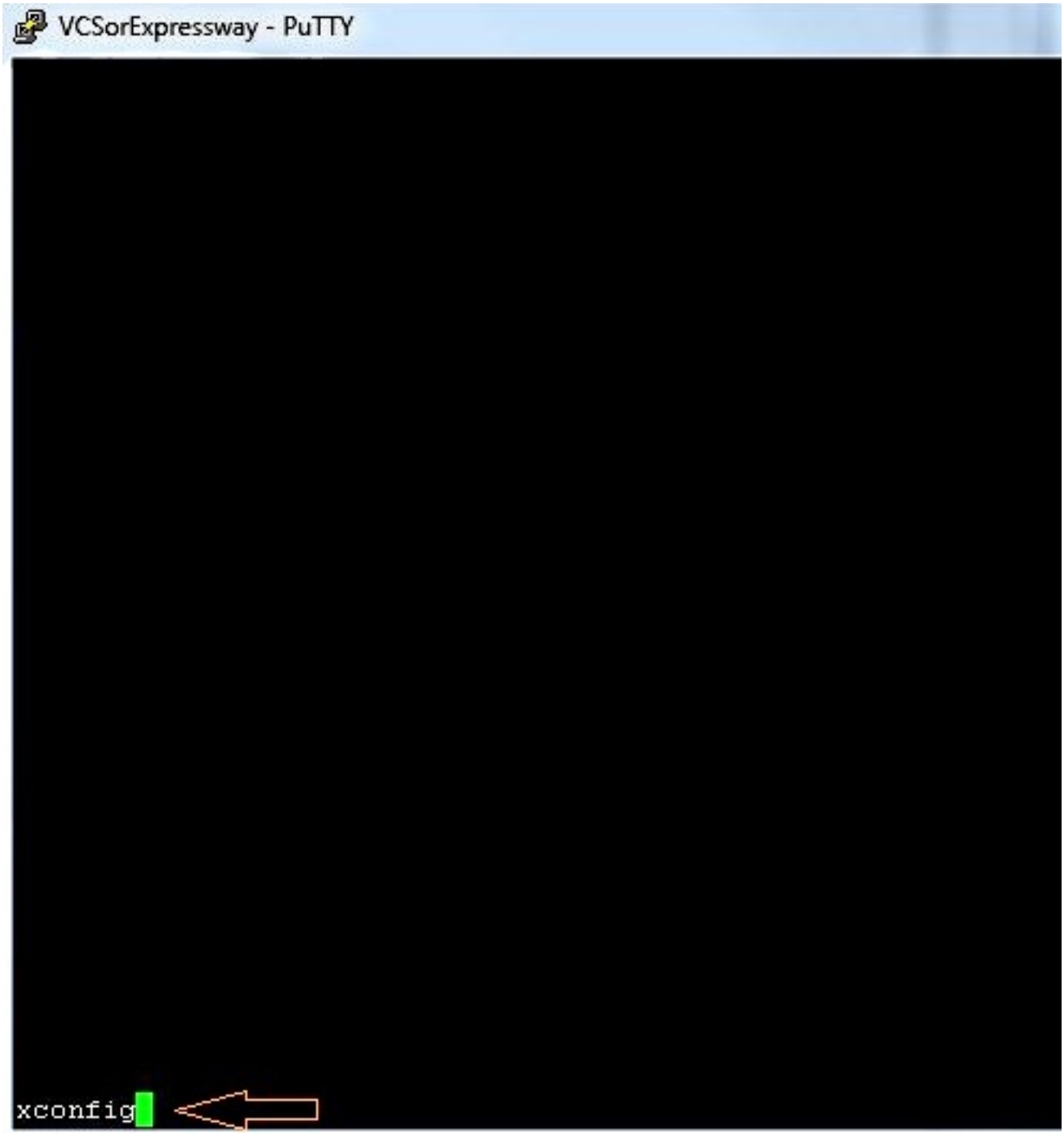


다음은 Enter를 누른 후 표시되는 xstatus 출력입니다. 출력이 너무 빨리 지나가버려서 끝까지 볼 수 없습니다. 이전에 로깅을 구성한 경우 텍스트 파일에 기록됩니다.

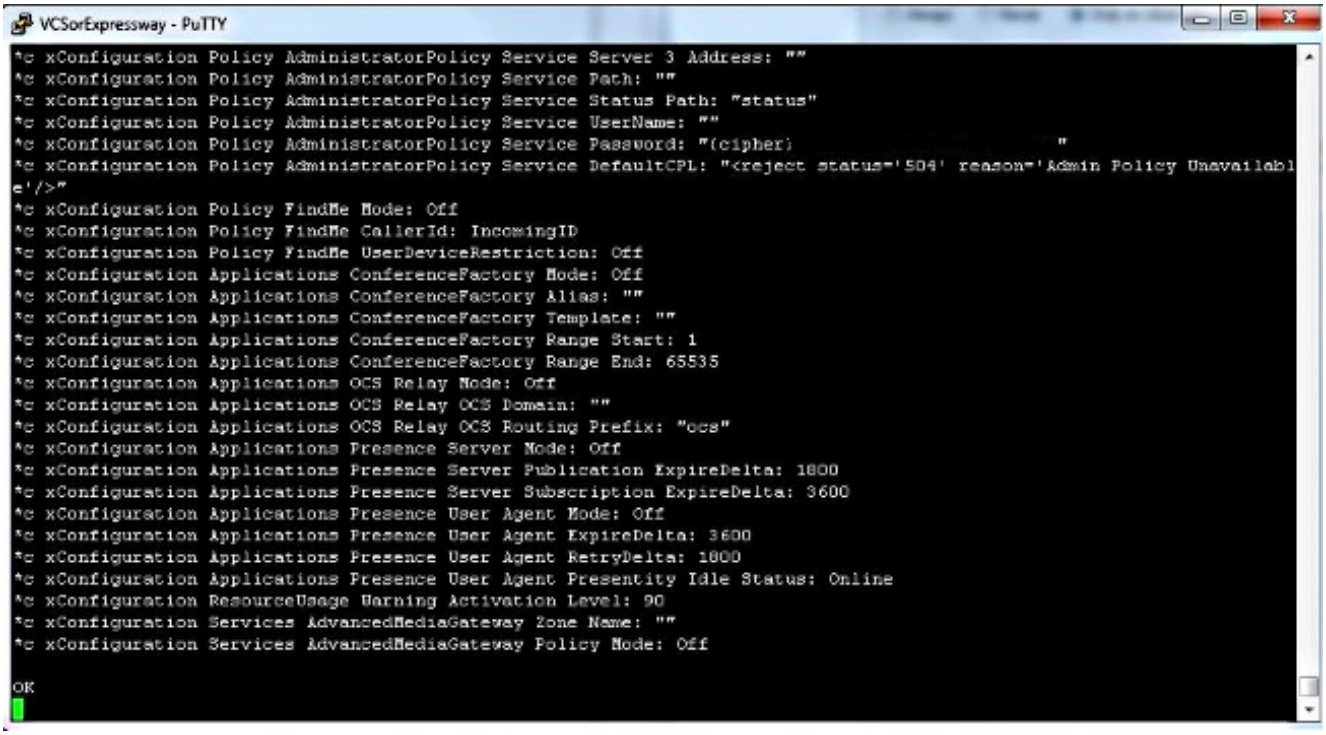


xstatus 명령의 출력을 수집했으므로 **xconfig** 명령의 출력을 수집할 준비가 **되었습니다**.

5. xconfig 명령을 **입력하고 Enter**를 **누릅니다**.



다음은 Enter 키를 누른 후 **xconfig** 출력의 예입니다. 출력이 너무 빠르게 지나가서 끝까지 볼 수 없습니다. 이전에 로깅을 구성한 경우 텍스트 파일에 기록됩니다.



VCS 및 Expressway Series x8.2

x8.2의 소프트웨어 릴리스에서는 진단 로그를 생성할 때 xconfiguration 및 xstatus가 포함됩니다.

1. Maintenance(**유지 관리) > Diagnostics(진단) > Diagnostic logging(진단 로깅)으로 이동합니다**.

2. Start **new log(새 로그 시작)**를 선택한 다음 즉시 Stop logging(로깅 **중지)을 선택합니다**.

   참고: 또한 이 방법에는 VCS 또는 Expressway Series에서 **발생하는** 활동에 대한 응답으로 메시지를 로깅하는 loggingsnapshot.txt가 포함되어 있습니다.

   다운로드한 진단 로그 아카이브에는 다음 파일이 포함됩니다.

   loggingsnapshot.txt - 로깅 기간 동안 수행된 활동에 대한 응답으로 로그 메시지를 포함합니다.

   xconf_dump.txt - 로깅 시작 시 시스템 구성에 대한 정보가 들어 있습니다.

   xstat_dump.txt - 로깅이 시작될 때의 시스템 상태에 대한 정보를 포함합니다.

   (해당되는 경우) **diagnostic_logging_tcpdump.pcap** - 로깅 기간 동안 캡처된 패킷을 포함합니다.

다음을 확인합니다.

다음은 로깅 설정으로 저장된 텍스트 파일**에서 xstatus** 및 **xconfig** 출력**이** 어떻게 표시되는지 보여주는 예입니다.

```
xstatus

*s SystemUnit:
    Product: "TANDBERG VCS"
    Uptime: 24963390
    SystemTime: "2014-06-19 14:58:59"
    TimeZone: "US/Eastern"
    LocalTime: "2014-06-19 10:58:59"
    Software:
      Version: "X7.2.1"
      Build: "296181"
      Name: "s42700"
      ReleaseDate: "2012-09-25"
      ReleaseKey: "****************"
      Configuration:
        NonTraversalCalls: 500
        TraversalCalls: 200
        Registrations: 2500
        Expressway: False
        Encryption: True
        Interworking: True
        FindMe: True
        DeviceProvisioning: True
        DualNetworkInterfaces: False
        AdvancedAccountSecurity: False
        StarterPack: False
        EnhancedOCSCollaboration: True
    Hardware:
      Version: "VMWare"
      SerialNumber: "********"
*s/end

*s Ethernet 1:
    MacAddress: "00:50:56:A1:70:06"
    Speed: 10000full
    IPv4:
      Address: "10.10.10.10"
      SubnetMask: "255.255.255.0"
*s/end

*s Ethernet 2:
    MacAddress: "00:50:56:A1:70:04"
    Speed: 10000full
    IPv4:
      Address: "192.168.0.100"
      SubnetMask: "255.255.255.0"
*s/end

*s Options:
    Option 1:
      Key: "116341X300-1-!!!!!!!!"
      Description: "300 Non-traversal Calls"
    Option 2:
      Key: "116341P00-1-!!!!!!!!"
      Description: "Device Provisioning"
    Option 3:
      Key: "116341G00-1-!!!!!!!!!!"
      Description: "H323-SIP Interworking Gateway"
    Option 4:
      Key: "116341U00-1-!!!!!!!!!!"
      Description: "FindMe"
    Option 5:
```

```
      Key: "116341C00-1-!!!!!!!!!"
      Description: "Enhanced OCS Collaboration"
    Option 8:
      Key: "116341Y200-1-!!!!!!!!"
      Description: "200 Traversal Calls"
    Option 9:
      Key: "116341X200-1-!!!!!!!!"
      Description: "200 Non-traversal Calls"
*s/end

*s IP:
    Protocol: IPv4
    IPv4:
      Gateway: "10.10.10.1"
*s/end

*s ExternalManager:
    Status: Active
    Address: "10.10.10.104"
    Protocol: HTTP
    URL: "tms/public/external/management/systemmanagementservice.asmx"
*s/end

*s Feedback 1:
    Status: Off
*s/end

*s Feedback 2:
    Status: Off
*s/end

*s Feedback 3:
    Status: On
    URL: "http://10.10.10.104/tms/public/feedback/code.aspx"
    Expression: "/Event/CallDisconnected"
    Expression: "/Event/CallConnected"
    Expression: "/Event/CallFailure"
    Expression: "/Event/RegistrationAdded"
    Expression: "/Event/RegistrationChanged"
    Expression: "/Event/ResourceUsage"
    Expression: "/Event/AuthenticationFailure"
    Expression: "/Status/Warnings"
*s/end

*s ResourceUsage:
    Calls:
      Traversal:
        Current: 0
        Max: 0
        Total: 0
      NonTraversal:
        Current: 0
        Max: 1
        Total: 2
    Registrations:
      Current: 0
      Max: 3
      Total: 42
*s/end

*s Calls: /
*s/end

*s Zones:
```

```
    DefaultZone:
      Name: "DefaultZone"
      Bandwidth:
        LocalUsage: 0
        ClusterUsage: 0
    LocalZone:
      DefaultSubZone:
        Name: "DefaultSubZone"
        Bandwidth:
          LocalUsage: 0
          ClusterUsage: 0
      TraversalSubZone:
        Name: "TraversalSubZone"
        Bandwidth:
          LocalUsage: 0
          ClusterUsage: 0
      ClusterSubZone:
        Name: "ClusterSubZone"
        Bandwidth:
          LocalUsage: 0
          ClusterUsage: 0
    Searches:
      Current: 0
      CurrentDirected: 0
      Total: 64081
      Dropped: 0
      MaxSubSearchExceeded: 0
      MaxTargetsExceeded: 0
    Zone 1:
      Name: "TraversalZone"
      Bandwidth:
        LocalUsage: 0
        ClusterUsage: 0
      Status: Active
      Type: TraversalClient
      TraversalClient:
        Peer 1:
          H323:
            Status: Active
            Address: "10.10.10.102"
            Port: 6001
            LastStatusChange: "2014-04-03 09:50:35"
          SIP:
            Status: Active
            Address: "10.10.10.102"
            Port: 7001
            LastStatusChange: "2014-04-03 09:49:13"
            Server: "TANDBERG/4102 (X7.0)"
*s/end

*s Alternates: /
*s/end

*s Links:
    Link 1:
      Name: "DefaultSZtoTraversalSZ"
      Bandwidth:
        LocalUsage: 0
        ClusterUsage: 0
    Link 2:
      Name: "DefaultSZtoDefaultZ"
      Bandwidth:
        LocalUsage: 0
        ClusterUsage: 0
```

```
    Link 3:
      Name: "DefaultSZtoClusterSZ"
      Bandwidth:
        LocalUsage: 0
        ClusterUsage: 0
    Link 4:
      Name: "TraversalSZtoDefaultZ"
      Bandwidth:
        LocalUsage: 0
        ClusterUsage: 0
    Link 5:
      Name: "Zone001ToTraversalSZ"
      Bandwidth:
        LocalUsage: 0
        ClusterUsage: 0
*s/end

*s Pipes: /
*s/end

*s Registrations: /
*s/end

*s SIP:
    Ethernet 1:
      IPv4:
        UDP:
          Status: Inactive
        TCP:
          Status: Active
          Address: "10.10.10.10:5060"
        TLS:
          Status: Active
          Address: "10.10.10.10:5061"
      IPv6:
        UDP:
          Status: Inactive
        TCP:
          Status: Inactive
        TLS:
          Status: Inactive
    Ethernet 2:
      IPv4:
        UDP:
          Status: Inactive
        TCP:
          Status: Inactive
        TLS:
          Status: Inactive
      IPv6:
        UDP:
          Status: Inactive
        TCP:
          Status: Inactive
        TLS:
          Status: Inactive
    Transport:
      Server 19857:
        Socket:
          Type: "SERV_UDP"
          State: "INUSE"
          ID:
            Local: 85393
            Global: 0
```

```
    Buffer:
      Input:
        Length: 20000
      Output:
        Length: 20000
  Local:
    Address: "127.0.0.1:5060"
  Remote:
    Address: ""
  Network:
    Number: 1
  Certificate:
    Subject:
      Name: ""
  TLS:
    Cipher:
      Name: ""
  Last:
    Packet:
      Received: 0
  Close:
    In: 20
  Secure: False
  X509:
    Certificate:
      Verified: False
  Queue:
    Max:
      Size: 0
    Add:
      Failures: 0
  Flow:
    Token: ""
Server 19856:
  Socket:
    Type: "SERV_TCP"
    State: "INUSE"
    ID:
      Local: 150928
      Global: 1
    Buffer:
      Input:
        Length: 0
      Output:
        Length: 0
  Local:
    Address: "127.0.0.1:5060"
  Remote:
    Address: ""
  Network:
    Number: 1
  Certificate:
    Subject:
      Name: ""
  TLS:
    Cipher:
      Name: ""
  Last:
    Packet:
      Received: 0
  Close:
    In: 20
  Secure: False
  X509:
```

```
    Certificate:
      Verified: False
  Queue:
    Max:
      Size: 0
    Add:
      Failures: 0
  Flow:
    Token: ""
Server 19855:
  Socket:
    Type: "SERV_TLS"
    State: "INUSE"
    ID:
      Local: 216463
      Global: 2
    Buffer:
      Input:
        Length: 0
      Output:
        Length: 0
  Local:
    Address: "127.0.0.1:5061"
  Remote:
    Address: ""
  Network:
    Number: 1
  Certificate:
    Subject:
      Name: ""
  TLS:
    Cipher:
      Name: ""
  Last:
    Packet:
      Received: 0
  Close:
    In: 20
  Secure: True
  X509:
    Certificate:
      Verified: False
  Queue:
    Max:
      Size: 0
    Add:
      Failures: 0
  Flow:
    Token: ""
Server 19854:
  Socket:
    Type: "SERV_UDP"
    State: "INUSE"
    ID:
      Local: 281998
      Global: 3
    Buffer:
      Input:
        Length: 20000
      Output:
        Length: 20000
  Local:
    Address: "[::1]:5060"
  Remote:
```

```
    Address: ""
  Network:
    Number: 1
  Certificate:
    Subject:
      Name: ""
  TLS:
    Cipher:
      Name: ""
  Last:
    Packet:
      Received: 0
  Close:
    In: 20
  Secure: False
  X509:
    Certificate:
      Verified: False
  Queue:
    Max:
      Size: 0
    Add:
      Failures: 0
  Flow:
    Token: ""
Server 19853:
  Socket:
    Type: "SERV_TCP"
    State: "INUSE"
    ID:
      Local: 347533
      Global: 4
    Buffer:
      Input:
        Length: 0
      Output:
        Length: 0
  Local:
    Address: "[::1]:5060"
  Remote:
    Address: ""
  Network:
    Number: 1
  Certificate:
    Subject:
      Name: ""
  TLS:
    Cipher:
      Name: ""
  Last:
    Packet:
      Received: 0
  Close:
    In: 20
  Secure: False
  X509:
    Certificate:
      Verified: False
  Queue:
    Max:
      Size: 0
    Add:
      Failures: 0
  Flow:
```

```
    Token: ""
Server 19852:
  Socket:
    Type: "SERV_TLS"
    State: "INUSE"
    ID:
      Local: 413068
      Global: 5
    Buffer:
      Input:
        Length: 0
      Output:
        Length: 0
  Local:
    Address: "[::1]:5061"
  Remote:
    Address: ""
  Network:
    Number: 1
  Certificate:
    Subject:
      Name: ""
  TLS:
    Cipher:
      Name: ""
  Last:
    Packet:
      Received: 0
  Close:
    In: 20
  Secure: True
  X509:
    Certificate:
      Verified: False
  Queue:
    Max:
      Size: 0
    Add:
      Failures: 0
  Flow:
    Token: ""
Server 19851:
  Socket:
    Type: "SERV_TCP"
    State: "INUSE"
    ID:
      Local: 478603
      Global: 6
    Buffer:
      Input:
        Length: 0
      Output:
        Length: 0
  Local:
    Address: "10.10.10.10:5060"
  Remote:
    Address: ""
  Network:
    Number: 2
  Certificate:
    Subject:
      Name: ""
  TLS:
    Cipher:
```

```
      Name: ""
  Last:
    Packet:
      Received: 0
  Close:
    In: 20
  Secure: False
  X509:
    Certificate:
      Verified: False
  Queue:
    Max:
      Size: 0
    Add:
      Failures: 0
  Flow:
    Token: ""
Server 19850:
  Socket:
    Type: "SERV_TLS"
    State: "INUSE"
    ID:
      Local: 544138
      Global: 7
    Buffer:
      Input:
        Length: 0
      Output:
        Length: 0
  Local:
    Address: "10.10.10.10:5061"
  Remote:
    Address: ""
  Network:
    Number: 2
  Certificate:
    Subject:
      Name: ""
  TLS:
    Cipher:
      Name: ""
  Last:
    Packet:
      Received: 0
  Close:
    In: 20
  Secure: True
  X509:
    Certificate:
      Verified: False
  Queue:
    Max:
      Size: 0
    Add:
      Failures: 0
  Flow:
    Token: ""
Client 7747:
  Socket:
    Type: "TLS_OUTG"
    State: "INUSE"
    ID:
      Local: 825433667
      Global: 654
```

```
          Buffer:
            Input:
              Length: 5120
            Output:
              Length: 20000
        Local:
          Address: "10.10.10.10:27573"
        Remote:
          Address: "10.10.10.102:7001"
        Network:
          Number: 2
        Certificate:
          Subject:
            Name: ""
        TLS:
          Cipher:
            Name: "DHE-RSA-AES256-SHA"
        Last:
          Packet:
            Received: -1798628722
        Close:
          In: 900
        Secure: True
        X509:
          Certificate:
            Verified: False
        Queue:
          Max:
            Size: 1
          Add:
            Failures: 0
        Flow:
          Token: ""
*s/end

*s H323:
    Registration:
      Status: Active
      IPv4:
        Address: "10.10.10.10:1719"
    CallSignaling:
      Status: Active
      IPv4:
        Address: "10.10.10.10:1720"
    Assent:
      CallSignaling:
        Status: Inactive
    H46018:
      CallSignaling:
        Status: Inactive
*s/end

*s Applications:
    Presence:
      UserAgent:
        Status: Inactive
        Presentity:
          Count: 0
      Server:
        Subscriptions:
          Count: 0
          Max: 0
          Expired: 0
          Subscribers:
```

```
            Count: 0
            Max: 0
        Status: Inactive
        Presentities:
          Count: 0
          Max: 0
        Publications:
          Presentities:
            Count: 0
            Max: 0
    ConferenceFactory:
      Status: Inactive
      NextAlias: ""
    External 1:
      Status:
        ClusterStatus:
          ClusterState: "Disabled"
      LastUpdate:
        Time: "Time not set"
        SecondsSinceLastRefresh: "1403189939"
*s/end

*s FindMeManager: /
*s/end

*s TURN:
    Server:
      Status: Inactive
*s/end

*s Policy: /
*s/end

OK
```

```
xcommand xconfig
*c xConfiguration Login Remote Protocol: LDAP
*c xConfiguration Login Remote LDAP Server Address: ""
*c xConfiguration Login Remote LDAP Server FQDNResolution: AddressRecord
*c xConfiguration Login Remote LDAP Server Port: 389
*c xConfiguration Login Remote LDAP VCS BindUsername: ""
*c xConfiguration Login Remote LDAP VCS BindPassword: "{cipher}XXXXXXXXXX
XXXXXXXXXXXX"
*c xConfiguration Login Remote LDAP VCS BindDN: ""
*c xConfiguration Login Remote LDAP BaseDN Accounts: ""
*c xConfiguration Login Remote LDAP BaseDN Groups: ""
*c xConfiguration Login Remote LDAP Encryption: Off
*c xConfiguration Login Remote LDAP SASL: DIGEST-MD5
*c xConfiguration Login Remote LDAP CRLCheck: None
*c xConfiguration Login Remote LDAP DirectoryType: ActiveDirectory
*c xConfiguration SystemUnit Name: "VCS1-Control"
*c xConfiguration SystemUnit Maintenance Mode: Off
*c xConfiguration Option 1 Key: "116341X300-1-!!!!!!!!"
*c xConfiguration Option 2 Key: "116341P00-1-!!!!!!!!"
*c xConfiguration Option 3 Key: "116341G00-1-!!!!!!!!!"
*c xConfiguration Option 4 Key: "116341U00-1-!!!!!!!!!"
*c xConfiguration Option 5 Key: "116341C00-1-!!!!!!!!"
*c xConfiguration Option 8 Key: "116341Y200-1-!!!!!!!!"
*c xConfiguration Option 9 Key: "116341X200-1-!!!!!!!!"
*c xConfiguration Ethernet 1 Speed: Auto
*c xConfiguration Ethernet 1 IP V4 Address: "10.10.10.10"
*c xConfiguration Ethernet 1 IP V4 SubnetMask: "255.255.255.0"
*c xConfiguration Ethernet 1 IP V6 Address: ""
*c xConfiguration Ethernet 2 Speed: Auto
*c xConfiguration Ethernet 2 IP V4 Address: "192.168.0.100"
*c xConfiguration Ethernet 2 IP V4 SubnetMask: "255.255.255.0"
*c xConfiguration Ethernet 2 IP V6 Address: ""
*c xConfiguration IPProtocol: IPv4
*c xConfiguration IP Gateway: "10.10.10.1"
*c xConfiguration IP QoS Mode: None
*c xConfiguration IP QoS Value: 0
*c xConfiguration IP V6 Gateway: ""
*c xConfiguration IP DNS Domain Name: "######.local"
*c xConfiguration IP DNS Hostname: "VCS1-Control"
*c xConfiguration IP Ephemeral PortRange Start: 40000
*c xConfiguration IP Ephemeral PortRange End: 49999
*c xConfiguration IP RFC4821 Mode: Disabled
*c xConfiguration Administration Telnet Mode: Off
*c xConfiguration Administration SSH Mode: On
*c xConfiguration Administration HTTP Mode: On
*c xConfiguration Administration HTTPS Mode: On
*c xConfiguration Administration LCDPanel Mode: On
*c xConfiguration ExternalManager Address: "10.10.10.104"
*c xConfiguration ExternalManager Path: "tms/public/external/management/system
managementservice.asmx"
*c xConfiguration ExternalManager Protocol: HTTP
*c xConfiguration ExternalManager Server Certificate Verification Mode: On
*c xConfiguration Registration RestrictionPolicy Mode: None
*c xConfiguration Registration RestrictionPolicy Service Protocol: HTTP
*c xConfiguration Registration RestrictionPolicy Service TLS Verify Mode: On
*c xConfiguration Registration RestrictionPolicy Service TLS CRLCheck Mode: Off
*c xConfiguration Registration RestrictionPolicy Service Server 1 Address: ""
*c xConfiguration Registration RestrictionPolicy Service Server 2 Address: ""
*c xConfiguration Registration RestrictionPolicy Service Server 3 Address: ""
*c xConfiguration Registration RestrictionPolicy Service Path: ""
*c xConfiguration Registration RestrictionPolicy Service Status Path: "status"
*c xConfiguration Registration RestrictionPolicy Service UserName: ""
*c xConfiguration Registration RestrictionPolicy Service Password: "{cipher}
XXXXXXXXXXXXXXXXXXXXX"
```

```
*c xConfiguration Registration RestrictionPolicy Service DefaultCPL: "<reject
status='504' reason='Registration Policy Unavailable'/>"
*c xConfiguration Alternates ConfigurationMaster: 1
*c xConfiguration Alternates Cluster Name: ""
*c xConfiguration Alternates Peer 1 Address: ""
*c xConfiguration Alternates Peer 2 Address: ""
*c xConfiguration Alternates Peer 3 Address: ""
*c xConfiguration Alternates Peer 4 Address: ""
*c xConfiguration Alternates Peer 5 Address: ""
*c xConfiguration Alternates Peer 6 Address: ""
*c xConfiguration Transform 1 Description: "Transform destination aliases to
URI format"
*c xConfiguration Transform 1 State: Enabled
*c xConfiguration Transform 1 Priority: 1
*c xConfiguration Transform 1 Pattern String: "([^@]*)"
*c xConfiguration Transform 1 Pattern Type: Regex
*c xConfiguration Transform 1 Pattern Behavior: Replace
*c xConfiguration Transform 1 Pattern Replace: "\1@#####.local"
*c xConfiguration Call Loop Detection Mode: On
*c xConfiguration Call Routed Mode: Always
*c xConfiguration Call Services CallsToUnknownIPAddresses: Indirect
*c xConfiguration Call Services Fallback Alias: ""
*c xConfiguration H323 Mode: On
*c xConfiguration H323 Gatekeeper Registration UDP Port: 1719
*c xConfiguration H323 Gatekeeper Registration ConflictMode: Reject
*c xConfiguration H323 Gatekeeper CallSignaling TCP Port: 1720
*c xConfiguration H323 Gatekeeper CallSignaling PortRange Start: 15000
*c xConfiguration H323 Gatekeeper CallSignaling PortRange End: 19999
*c xConfiguration H323 Gatekeeper TimeToLive: 1800
*c xConfiguration H323 Gatekeeper CallTimeToLive: 120
*c xConfiguration H323 Gatekeeper AutoDiscovery Mode: On
*c xConfiguration H323 Gateway CallerId: ExcludePrefix
*c xConfiguration SIP Mode: On
*c xConfiguration SIP Domains Domain 1 Name: "######.com"
*c xConfiguration SIP Domains Domain 2 Name: "######.local"
*c xConfiguration SIP Routes Route 1 Method: "SUBSCRIBE"
*c xConfiguration SIP Routes Route 1 Request Line Pattern: ".*@(%localdomains%|
%ip%)"
*c xConfiguration SIP Routes Route 1 Header Name: "Event"
*c xConfiguration SIP Routes Route 1 Header Pattern: "(ua-profile|phonebook).*"
*c xConfiguration SIP Routes Route 1 Authenticated: Off
*c xConfiguration SIP Routes Route 1 Address: "127.0.0.1"
*c xConfiguration SIP Routes Route 1 Port: 22400
*c xConfiguration SIP Routes Route 1 Transport: TCP
*c xConfiguration SIP Routes Route 1 Tag: "Provisioning"
*c xConfiguration SIP Routes Route 2 Method: "INFO"
*c xConfiguration SIP Routes Route 2 Request Line Pattern: ".*@(%localdomains%|
%ip%)"
*c xConfiguration SIP Routes Route 2 Header Name: "Content-Type"
*c xConfiguration SIP Routes Route 2 Header Pattern: "application/tandberg-
phonebook\+xml"
*c xConfiguration SIP Routes Route 2 Authenticated: Off
*c xConfiguration SIP Routes Route 2 Address: "127.0.0.1"
*c xConfiguration SIP Routes Route 2 Port: 22400
*c xConfiguration SIP Routes Route 2 Transport: TCP
*c xConfiguration SIP Routes Route 2 Tag: "Phonebook"
*c xConfiguration SIP Registration Standard Refresh Strategy: Maximum
*c xConfiguration SIP Registration Standard Refresh Minimum: 45
*c xConfiguration SIP Registration Standard Refresh Maximum: 60
*c xConfiguration SIP Registration Outbound Refresh Strategy: Variable
*c xConfiguration SIP Registration Outbound Refresh Minimum: 300
*c xConfiguration SIP Registration Outbound Refresh Maximum: 3600
*c xConfiguration SIP Registration Outbound Flow Timer: 0
*c xConfiguration SIP Registration Proxy Mode: Off
```

```
*c xConfiguration SIP Registration Call Remove: No
*c xConfiguration SIP Session Refresh Value: 1800
*c xConfiguration SIP Session Refresh Minimum: 500
*c xConfiguration SIP UDP Mode: Off
*c xConfiguration SIP UDP Port: 5060
*c xConfiguration SIP TCP Mode: On
*c xConfiguration SIP TCP Port: 5060
*c xConfiguration SIP TCP Outbound Port Start: 25000
*c xConfiguration SIP TCP Outbound Port End: 29999
*c xConfiguration SIP TLS Mode: On
*c xConfiguration SIP TLS Port: 5061
*c xConfiguration SIP TLS Certificate Revocation Checking Mode: Off
*c xConfiguration SIP TLS Certificate Revocation Checking OCSP Mode: On
*c xConfiguration SIP TLS Certificate Revocation Checking CRL Mode: On
*c xConfiguration SIP TLS Certificate Revocation Checking CRL Network Fetch
Mode: On
*c xConfiguration SIP TLS Certificate Revocation Checking Source Inaccessibility
Behavior: Fail
*c xConfiguration SIP Require UDP BFCP Mode: On
*c xConfiguration SIP Require Duo Video Mode: On
*c xConfiguration SIP Authentication Retry Limit: 3
*c xConfiguration SIP Authentication NTLM Mode: Auto
*c xConfiguration SIP Authentication NTLM SA Lifetime: 28800
*c xConfiguration SIP Authentication NTLM SA Limit: 10000
*c xConfiguration SIP Authentication Digest Nonce ExpireDelta: 300
*c xConfiguration SIP Authentication Digest Nonce Maximum Use Count: 128
*c xConfiguration SIP Authentication Digest Nonce Limit: 10000
*c xConfiguration SIP Authentication Digest Nonce Length: 60
*c xConfiguration SIP GRUU Mode: On
*c xConfiguration SIP MediaRouting ICE Mode: Off
*c xConfiguration Interworking Mode: RegisteredOnly
*c xConfiguration Interworking Encryption Mode: Auto
*c xConfiguration Interworking Encryption Replay Protection Mode: Off
*c xConfiguration Interworking BFCP Compatibility Mode: Auto
*c xConfiguration Interworking Require Invite Header Mode: On
*c xConfiguration Traversal Media Port Start: 50000
*c xConfiguration Traversal Media Port End: 52399
*c xConfiguration Authentication UserName: ""
*c xConfiguration Authentication Password: "{cipher}XXXXXXXXXXXXXXXXXXXXXX"
*c xConfiguration Authentication LDAP AliasOrigin: LDAP
*c xConfiguration Authentication ADS ADDomain: ""
*c xConfiguration Authentication ADS Workgroup: ""
*c xConfiguration Authentication ADS MachinePassword Refresh: On
*c xConfiguration Authentication ADS SPNEGO: Enabled
*c xConfiguration Authentication ADS SecureChannel: Auto
*c xConfiguration Authentication ADS Encryption: TLS
*c xConfiguration Authentication ADS Mode: Off
*c xConfiguration Authentication ADS Clockskew: 300
*c xConfiguration Zones Policy Mode: SearchRules
*c xConfiguration Zones Policy SearchRules Rule 1 Name: "Local zone ? no domain"
*c xConfiguration Zones Policy SearchRules Rule 1 Description: "Search local
zone for H.323 devices (strip domain)"
*c xConfiguration Zones Policy SearchRules Rule 1 Priority: 48
*c xConfiguration Zones Policy SearchRules Rule 1 Protocol: Any
*c xConfiguration Zones Policy SearchRules Rule 1 Source Mode: Any
*c xConfiguration Zones Policy SearchRules Rule 1 Authentication: No
*c xConfiguration Zones Policy SearchRules Rule 1 Mode: AliasPatternMatch
*c xConfiguration Zones Policy SearchRules Rule 1 Pattern Type: Regex
*c xConfiguration Zones Policy SearchRules Rule 1 Pattern String: "(.+)
@######.local.*"
*c xConfiguration Zones Policy SearchRules Rule 1 Pattern Behavior: Replace
*c xConfiguration Zones Policy SearchRules Rule 1 Pattern Replace: "\1"
*c xConfiguration Zones Policy SearchRules Rule 1 Progress: Continue
*c xConfiguration Zones Policy SearchRules Rule 1 Target Type: Zone
```

```
*c xConfiguration Zones Policy SearchRules Rule 1 Target Name: "LocalZone"
*c xConfiguration Zones Policy SearchRules Rule 1 State: Enabled
*c xConfiguration Zones Policy SearchRules Rule 2 Name: "Local zone ? full URI"
*c xConfiguration Zones Policy SearchRules Rule 2 Description: "Search local
zone for SIP and H.323 devices with a domain"
*c xConfiguration Zones Policy SearchRules Rule 2 Priority: 51
*c xConfiguration Zones Policy SearchRules Rule 2 Protocol: Any
*c xConfiguration Zones Policy SearchRules Rule 2 Source Mode: Any
*c xConfiguration Zones Policy SearchRules Rule 2 Authentication: No
*c xConfiguration Zones Policy SearchRules Rule 2 Mode: AliasPatternMatch
*c xConfiguration Zones Policy SearchRules Rule 2 Pattern Type: Regex
*c xConfiguration Zones Policy SearchRules Rule 2 Pattern String: "(.+)
@#######.local.*"
*c xConfiguration Zones Policy SearchRules Rule 2 Pattern Behavior: Leave
*c xConfiguration Zones Policy SearchRules Rule 2 Pattern Replace: ""
*c xConfiguration Zones Policy SearchRules Rule 2 Progress: Continue
*c xConfiguration Zones Policy SearchRules Rule 2 Target Type: Zone
*c xConfiguration Zones Policy SearchRules Rule 2 Target Name: "LocalZone"
*c xConfiguration Zones Policy SearchRules Rule 2 State: Enabled
*c xConfiguration Zones Policy SearchRules Rule 3 Name: "Traversal zone search rule"
*c xConfiguration Zones Policy SearchRules Rule 3 Description: "Search traversal
zone (Cisco VCS Expressway)"
*c xConfiguration Zones Policy SearchRules Rule 3 Priority: 100
*c xConfiguration Zones Policy SearchRules Rule 3 Protocol: Any
*c xConfiguration Zones Policy SearchRules Rule 3 Source Mode: Any
*c xConfiguration Zones Policy SearchRules Rule 3 Authentication: No
*c xConfiguration Zones Policy SearchRules Rule 3 Mode: AnyAlias
*c xConfiguration Zones Policy SearchRules Rule 3 Progress: Continue
*c xConfiguration Zones Policy SearchRules Rule 3 Target Type: Zone
*c xConfiguration Zones Policy SearchRules Rule 3 Target Name: "TraversalZone"
*c xConfiguration Zones Policy SearchRules Rule 3 State: Enabled
*c xConfiguration Zones Policy SearchRules Rule 4 Name: "External IP address
search rule"
*c xConfiguration Zones Policy SearchRules Rule 4 Description: "Route external
IP address"
*c xConfiguration Zones Policy SearchRules Rule 4 Priority: 100
*c xConfiguration Zones Policy SearchRules Rule 4 Protocol: Any
*c xConfiguration Zones Policy SearchRules Rule 4 Source Mode: Any
*c xConfiguration Zones Policy SearchRules Rule 4 Authentication: No
*c xConfiguration Zones Policy SearchRules Rule 4 Mode: AnyIPAddress
*c xConfiguration Zones Policy SearchRules Rule 4 Progress: Continue
*c xConfiguration Zones Policy SearchRules Rule 4 Target Type: Zone
*c xConfiguration Zones Policy SearchRules Rule 4 Target Name: "TraversalZone"
*c xConfiguration Zones Policy SearchRules Rule 4 State: Enabled
*c xConfiguration Zones Policy SearchRules Rule 5 Name: "LocalZoneMatch"
*c xConfiguration Zones Policy SearchRules Rule 5 Description: "Default rule:
queries the Local Zone for any alias"
*c xConfiguration Zones Policy SearchRules Rule 5 Priority: 50
*c xConfiguration Zones Policy SearchRules Rule 5 Protocol: Any
*c xConfiguration Zones Policy SearchRules Rule 5 Source Mode: Any
*c xConfiguration Zones Policy SearchRules Rule 5 Authentication: No
*c xConfiguration Zones Policy SearchRules Rule 5 Mode: AnyAlias
*c xConfiguration Zones Policy SearchRules Rule 5 Progress: Continue
*c xConfiguration Zones Policy SearchRules Rule 5 Target Type: Zone
*c xConfiguration Zones Policy SearchRules Rule 5 Target Name: "LocalZone"
*c xConfiguration Zones Policy SearchRules Rule 5 State: Enabled
*c xConfiguration Zones DefaultZone Authentication Mode: DoNotCheckCredentials
*c xConfiguration Zones DefaultZone SIP Record Route Address Type: IP
*c xConfiguration Zones DefaultZone SIP TLS Verify Mode: Off
*c xConfiguration Zones DefaultZone SIP Media Encryption Mode: Auto
*c xConfiguration Zones LocalZone DefaultSubZone SIP Media Encryption Mode: Auto
*c xConfiguration Zones LocalZone DefaultSubZone Authentication Mode:
DoNotCheckCredentials
*c xConfiguration Zones LocalZone DefaultSubZone Registrations: Allow
```

```
*c xConfiguration Zones LocalZone DefaultSubZone Bandwidth Total Mode: Unlimited
*c xConfiguration Zones LocalZone DefaultSubZone Bandwidth PerCall Inter Mode:
Unlimited
*c xConfiguration Zones LocalZone DefaultSubZone Bandwidth PerCall Intra Mode:
Unlimited
*c xConfiguration Zones LocalZone TraversalSubZone Bandwidth Total Mode: Unlimited
*c xConfiguration Zones LocalZone TraversalSubZone Bandwidth PerCall Mode:
Unlimited
*c xConfiguration Zones LocalZone SIP Record Route Address Type: IP
*c xConfiguration Zones Zone 1 Name: "TraversalZone"
*c xConfiguration Zones Zone 1 HopCount: 15
*c xConfiguration Zones Zone 1 H323 Mode: On
*c xConfiguration Zones Zone 1 SIP Mode: On
*c xConfiguration Zones Zone 1 Type: TraversalClient
*c xConfiguration Zones Zone 1 TraversalClient Authentication Mode: DoNot
CheckCredentials
*c xConfiguration Zones Zone 1 TraversalClient Authentication UserName:
"######auth"
*c xConfiguration Zones Zone 1 TraversalClient Authentication Password:
"{cipher}XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
*c xConfiguration Zones Zone 1 TraversalClient Registrations: Allow
*c xConfiguration Zones Zone 1 TraversalClient H323 Protocol: Assent
*c xConfiguration Zones Zone 1 TraversalClient H323 Port: 6001
*c xConfiguration Zones Zone 1 TraversalClient SIP Protocol: Assent
*c xConfiguration Zones Zone 1 TraversalClient SIP Port: 7001
*c xConfiguration Zones Zone 1 TraversalClient SIP Transport: TLS
*c xConfiguration Zones Zone 1 TraversalClient SIP TLS Verify Mode: Off
*c xConfiguration Zones Zone 1 TraversalClient SIP Poison Mode: Off
*c xConfiguration Zones Zone 1 TraversalClient SIP Media Encryption Mode: Auto
*c xConfiguration Zones Zone 1 TraversalClient RetryInterval: 120
*c xConfiguration Zones Zone 1 TraversalClient Peer 1 Address: "10.10.10.102"
*c xConfiguration Zones Zone 1 TraversalClient Peer 2 Address: ""
*c xConfiguration Zones Zone 1 TraversalClient Peer 3 Address: ""
*c xConfiguration Zones Zone 1 TraversalClient Peer 4 Address: ""
*c xConfiguration Zones Zone 1 TraversalClient Peer 5 Address: ""
*c xConfiguration Zones Zone 1 TraversalClient Peer 6 Address: ""
*c xConfiguration Bandwidth Default: 384
*c xConfiguration Bandwidth Downspeed PerCall Mode: On
*c xConfiguration Bandwidth Downspeed Total Mode: On
*c xConfiguration Bandwidth Link 1 Name: "DefaultSZtoTraversalSZ"
*c xConfiguration Bandwidth Link 1 Node1 Name: "DefaultSubZone"
*c xConfiguration Bandwidth Link 1 Node2 Name: "TraversalSubZone"
*c xConfiguration Bandwidth Link 1 Pipe1 Name: ""
*c xConfiguration Bandwidth Link 1 Pipe2 Name: ""
*c xConfiguration Bandwidth Link 2 Name: "DefaultSZtoDefaultZ"
*c xConfiguration Bandwidth Link 2 Node1 Name: "DefaultSubZone"
*c xConfiguration Bandwidth Link 2 Node2 Name: "DefaultZone"
*c xConfiguration Bandwidth Link 2 Pipe1 Name: ""
*c xConfiguration Bandwidth Link 2 Pipe2 Name: ""
*c xConfiguration Bandwidth Link 3 Name: "DefaultSZtoClusterSZ"
*c xConfiguration Bandwidth Link 3 Node1 Name: "DefaultSubZone"
*c xConfiguration Bandwidth Link 3 Node2 Name: "ClusterSubZone"
*c xConfiguration Bandwidth Link 3 Pipe1 Name: ""
*c xConfiguration Bandwidth Link 3 Pipe2 Name: ""
*c xConfiguration Bandwidth Link 4 Name: "TraversalSZtoDefaultZ"
*c xConfiguration Bandwidth Link 4 Node1 Name: "TraversalSubZone"
*c xConfiguration Bandwidth Link 4 Node2 Name: "DefaultZone"
*c xConfiguration Bandwidth Link 4 Pipe1 Name: ""
*c xConfiguration Bandwidth Link 4 Pipe2 Name: ""
*c xConfiguration Bandwidth Link 5 Name: "Zone001ToTraversalSZ"
*c xConfiguration Bandwidth Link 5 Node1 Name: "TraversalZone"
*c xConfiguration Bandwidth Link 5 Node2 Name: "TraversalSubZone"
*c xConfiguration Bandwidth Link 5 Pipe1 Name: ""
*c xConfiguration Bandwidth Link 5 Pipe2 Name: ""
```

```
*c xConfiguration Policy AdministratorPolicy Mode: Off
*c xConfiguration Policy AdministratorPolicy Service Protocol: HTTP
*c xConfiguration Policy AdministratorPolicy Service TLS Verify Mode: On
*c xConfiguration Policy AdministratorPolicy Service TLS CRLCheck Mode: Off
*c xConfiguration Policy AdministratorPolicy Service Server 1 Address: ""
*c xConfiguration Policy AdministratorPolicy Service Server 2 Address: ""
*c xConfiguration Policy AdministratorPolicy Service Server 3 Address: ""
*c xConfiguration Policy AdministratorPolicy Service Path: ""
*c xConfiguration Policy AdministratorPolicy Service Status Path: "status"
*c xConfiguration Policy AdministratorPolicy Service UserName: ""
*c xConfiguration Policy AdministratorPolicy Service Password: "{cipher}
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
*c xConfiguration Policy AdministratorPolicy Service DefaultCPL: "<reject
status='504' reason='Admin Policy Unavailable'/>"
*c xConfiguration Policy FindMe Mode: Off
*c xConfiguration Policy FindMe CallerId: IncomingID
*c xConfiguration Policy FindMe UserDeviceRestriction: Off
*c xConfiguration Applications ConferenceFactory Mode: Off
*c xConfiguration Applications ConferenceFactory Alias: ""
*c xConfiguration Applications ConferenceFactory Template: ""
*c xConfiguration Applications ConferenceFactory Range Start: 1
*c xConfiguration Applications ConferenceFactory Range End: 65535
*c xConfiguration Applications OCS Relay Mode: Off
*c xConfiguration Applications OCS Relay OCS Domain: ""
*c xConfiguration Applications OCS Relay OCS Routing Prefix: "ocs"
*c xConfiguration Applications Presence Server Mode: Off
*c xConfiguration Applications Presence Server Publication ExpireDelta: 1800
*c xConfiguration Applications Presence Server Subscription ExpireDelta: 3600
*c xConfiguration Applications Presence User Agent Mode: Off
*c xConfiguration Applications Presence User Agent ExpireDelta: 3600
*c xConfiguration Applications Presence User Agent RetryDelta: 1800
*c xConfiguration Applications Presence User Agent Presentity Idle Status: Online
*c xConfiguration ResourceUsage Warning Activation Level: 90
*c xConfiguration Services AdvancedMediaGateway Zone Name: ""
*c xConfiguration Services AdvancedMediaGateway Policy Mode: Off

OK
exit
Bye!
```

문제 해결

다음은 발생할 수 있는 가장 일반적인 세 가지 문제입니다.

- **잘못되었거나 결함이 있는 직렬 케이블이 사용됩니다**. 디바이스와 함께 제공된 케이블을 사용해야 합니다.

- **인식할 수 없는 문자가 콘솔 화면에 표시됩니다**. 이는 전송 속도가 잘못 설정되었음을 나타냅니다. 전송 속도는 2의 배수를 기준으로 하므로 올바른 설정을 찾을 때까지 필요에 따라 값을 두 배 또는 절반으로 줄일 수 있습니다. 이 경우 올바른 설정은 **115,200이어야** 합니다.

- **터미널 에뮬레이션 소프트웨어에 연결할 수 없습니다**. 이 문제는 일반적으로 다음과 같은 문제 중 하나로 인해 발생합니다.

  텔넷 또는 SSH를 통해 연결을 시도하며 직렬 연결을 사용할 때 연결 유형을 직렬 연결 유형으로 변경해야 합니다.

잘못된 COM 포트에 있습니다. PC에서 USB 기반 직렬 연결과 함께 사용하는 COM 포트를 검색하려면 **Control Panel(제어판) > Device Manager(디바이스 관리자)로** 이동하고 Ports(포트)를 **클릭합니다**. 이 창에서 USB 직렬 장치에 할당된 COM 포트를 확인할 수 있습니다.

직렬 장치용 드라이버가 설치되어 있지 않습니다. 이 경우 찾아 설치해야 합니다.

- **디바이스에 SSH를 연결할 수 없습니다**. 이 문제는 일반적으로 다음과 같은 문제 중 하나로 인해 발생합니다.

  SSH를 통해 연결을 시도했지만 네트워크 연결 문제로 인해 디바이스에 연결할 수 없습니다. 네트워크 연결 문제를 수정하십시오. 또는 디바이스에 대해 SSH가 활성화되지 않을 수 있습니다. 디바이스에 웹/HTTP/HTTPS를 연결하고 Configuration(컨피그레이션)>System(시스템)Configuration(컨피그레이션)>Network Services(네트워크 서비스)에서 SSH 액세스**가 활성화되었는지 확인합니다**.

  디바이스에서 캐시된 Rivest-Shamir-Addleman(RSA) 키가 없습니다. 일반적으로 RSA 키를 승인하라는 메시지가 표시됩니다. 반드시 키를 수락하십시오.

  사용자 이름과 암호가 잘못되어 로그인이 실패합니다. 디바이스에 올바른 사용자 이름과 비밀번호를 사용해야 합니다.