# VCS シリーズまたは Expressway シリーズ Xconfig と Xstatus で PuTTY を使用した出力の収集

## 内容



## 概要

このドキュメントでは、Video Communication Server（VCS）シリーズおよび Expressway シリーズのデバイス（VCS-Control、VCS-Expressway、Expressway-C、Expressway-E など）から、xcommand の xconfig および xstatus の CLI 出力を収集する方法について説明します。この出力は、Cisco Technical Assistance Center（TAC）が回収を求めることがあります。

## 前提条件

### 要件

次の項目に関する知識があることが推奨されます。

- PuTTY、またはSecureCRT、Tera Termなどの類似のターミナルエミュレーションソフトウェア。
- VCS/Expresswayシリーズデバイスへの管理者アカウントのユーザ名とパスワード。
- RJ45-D-Sub9pinシリアルコンソールケーブルまたはセキュアシェル(SSH)がネットワークパスで許可されています。

### 使用するコンポーネント

このドキュメントの情報は、次のソフトウェアとハードウェアのバージョンに基づいています。

- PuTTY (コピーを入手するには、PuTTYのダウンロードページにアクセスしてください)。
- この例では、バージョン7.2.1が稼働するVCS-Cが使用されています。これは、現在の最新バージョンであるバージョン8.2.2で適用できます。

# 設定

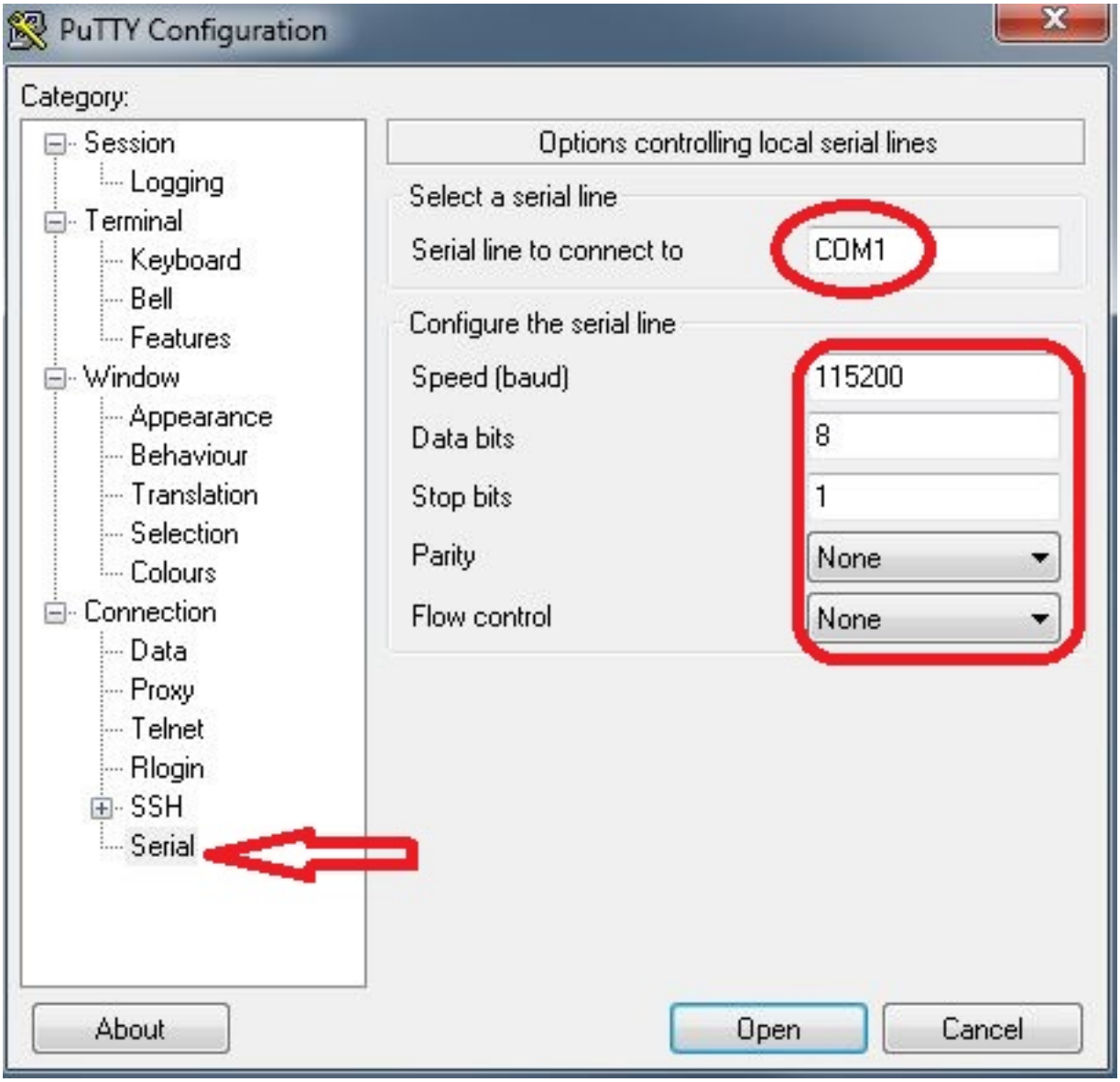
## コンソールで接続

> **注**：この記事では、正常なシリアルコンソールケーブルが接続されていることを前提としています。デバイスと一緒に受信しているはずです。

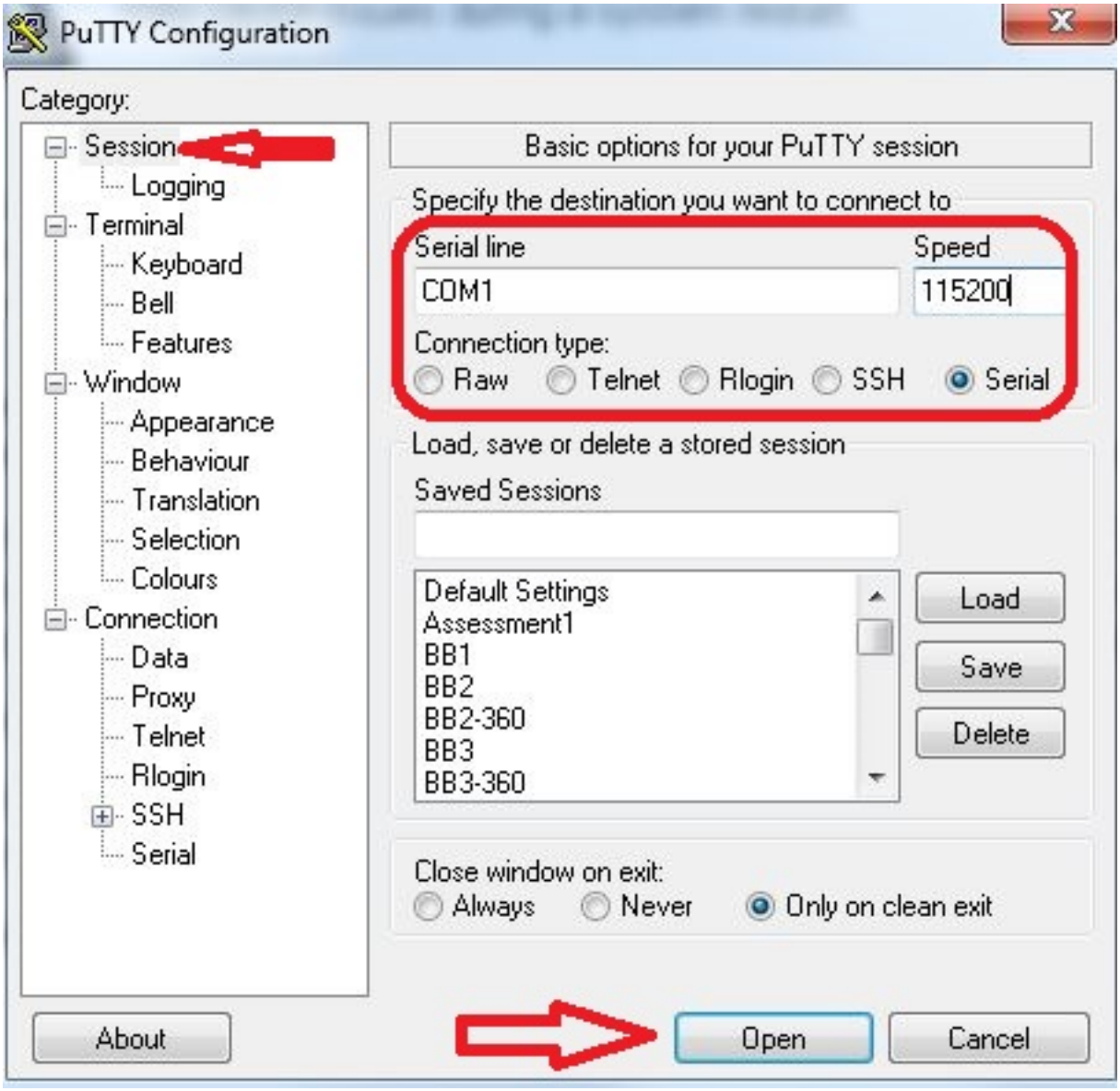
PuTTYのシリアルコンソールアクセス用に設定する必要がある設定例を次に示します。

> **注**：PCへのコンソールの接続方法に基づいて、通信(COM)ポートを調整する必要があります。

1. **[Configuration] > [Category] > [Connection] > [Serial]に移動**し、次のようにシリアル設定を調整します。



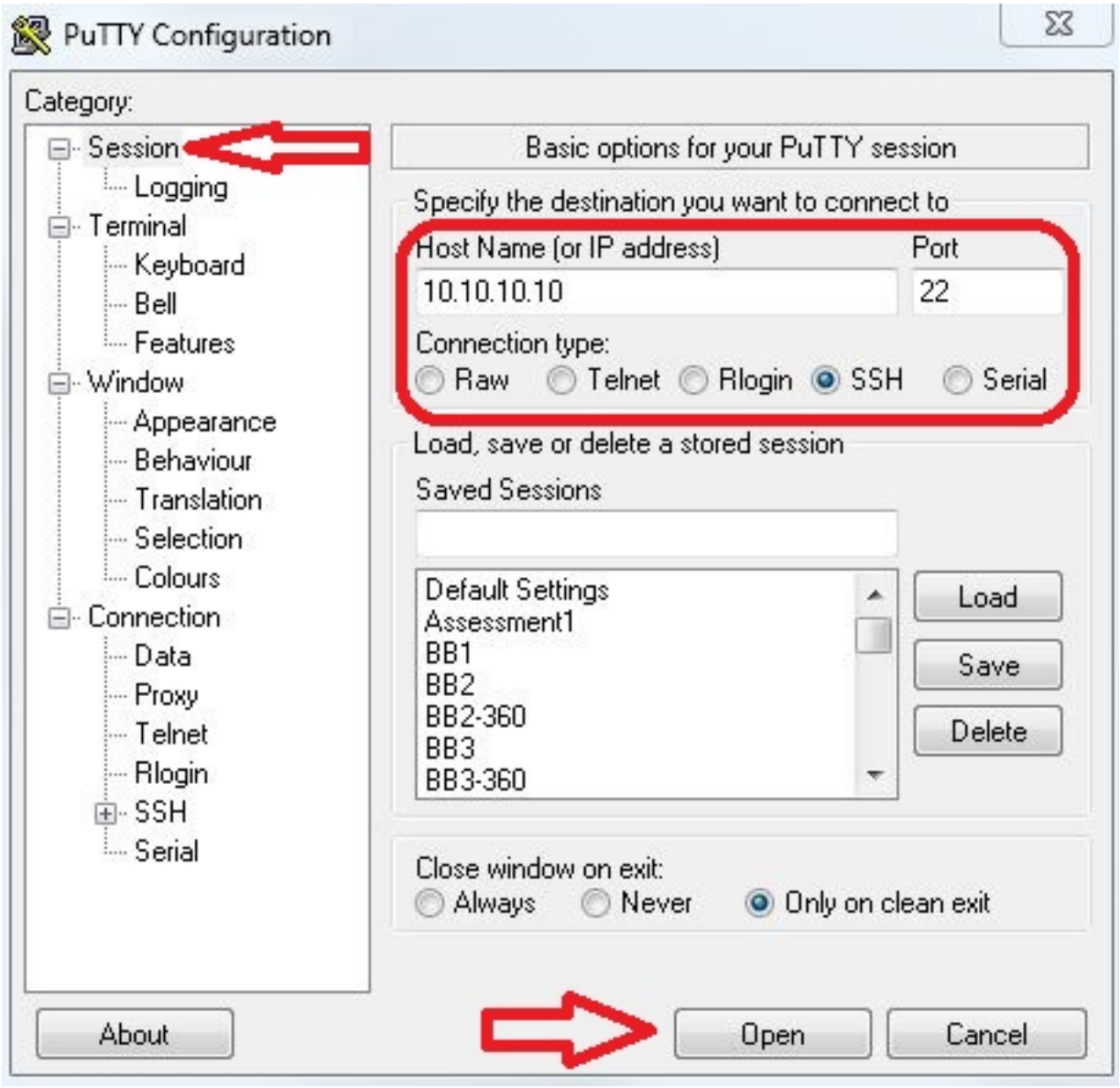

2. [Category] > [Session]**に移動**し、接続タイプとして[**Serial** type]を選択し、次のように[**Open**]をクリックします。



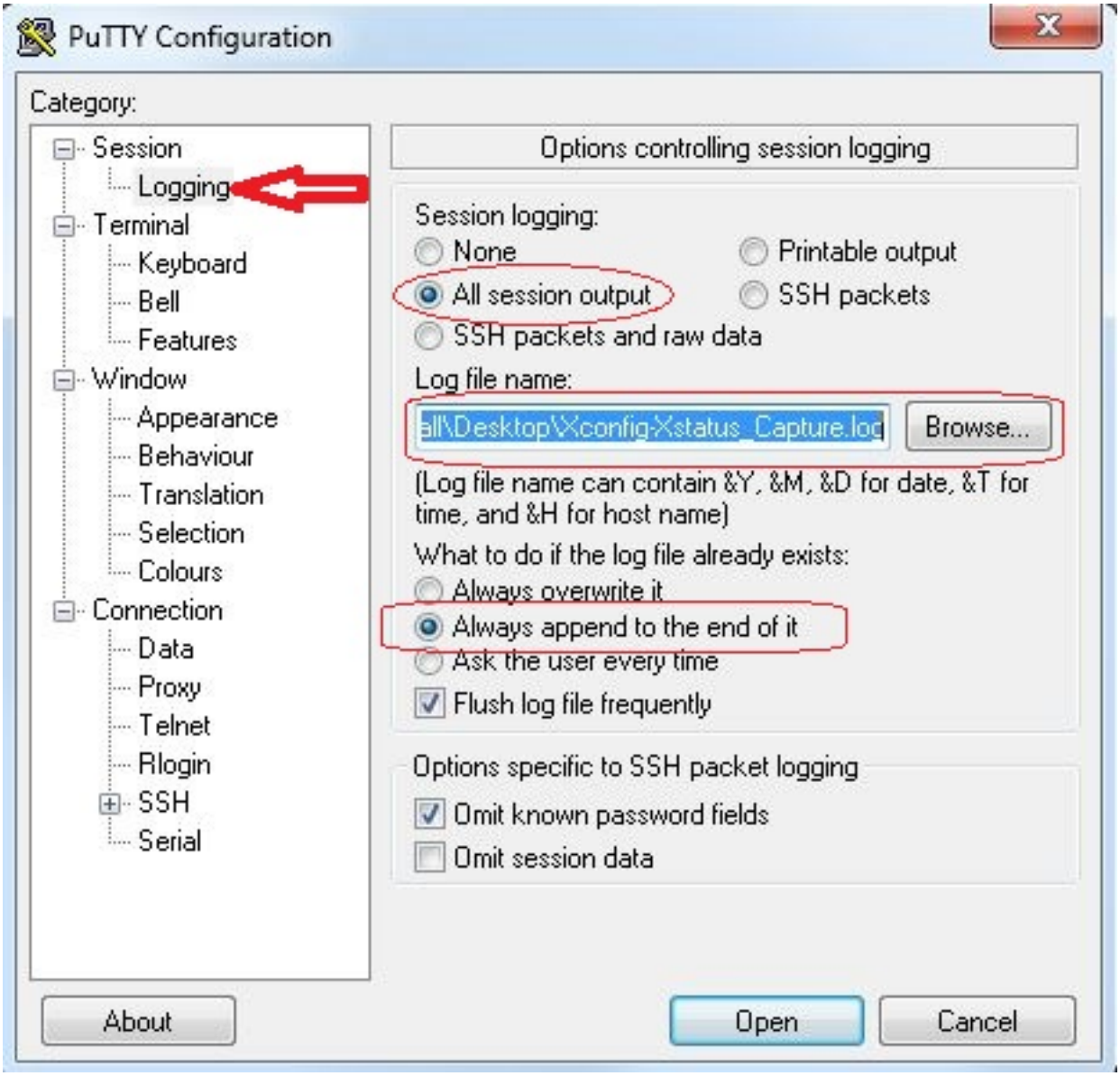

## SSH経由で接続

より簡単な方法は、デバイスにSSH接続することです。

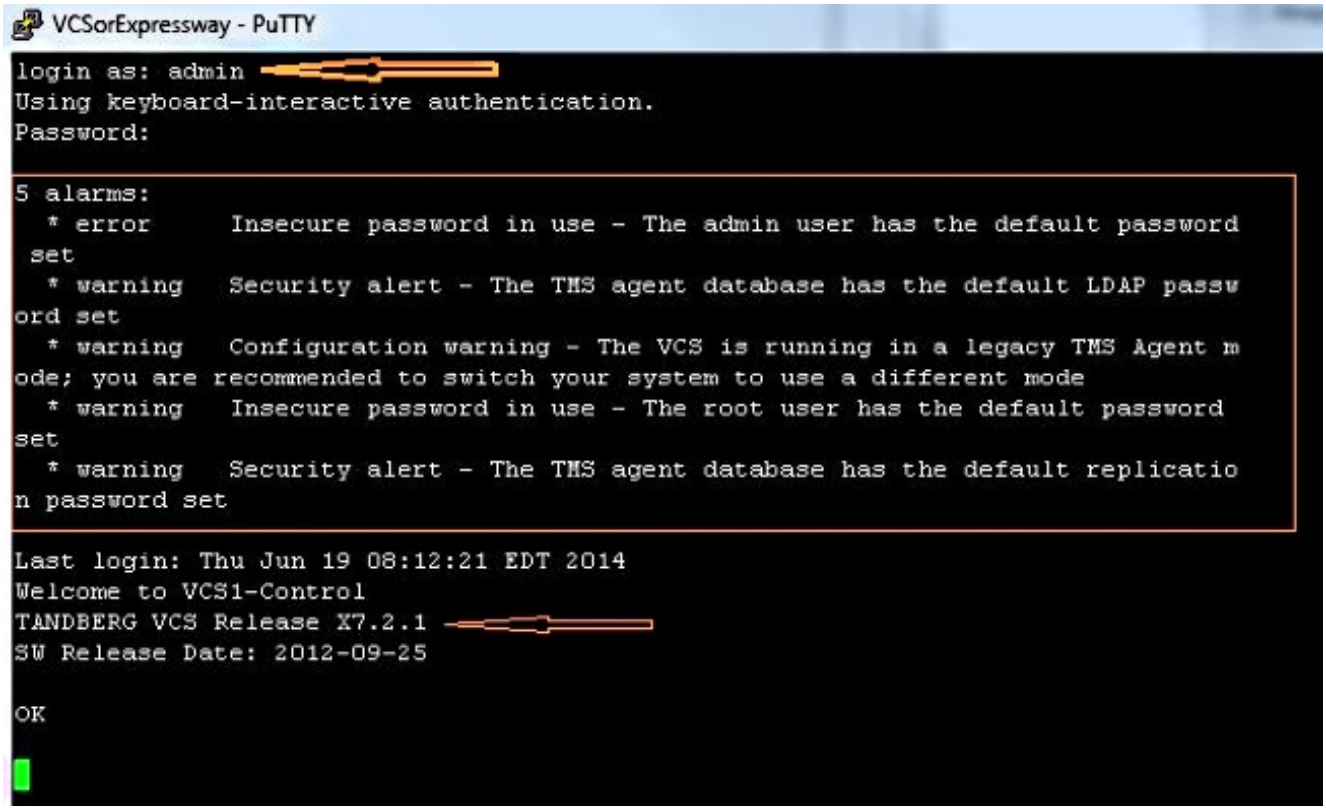
1. 次の例に示すように、VCS/ExpresswayデバイスのIPアドレスを使用して、PuTTYの設定を調整します。




2. デバイスに対するPuTTYセッションの前または最中に、ロギング設定を設定する必要があります。これを行うには、**[Configuration] > [Category] > [Session] > [Logging]**に移動し、次の例に一致するように設定します（独自のPCとニーズに合わせてファイルパスとファイル名を調整します）。

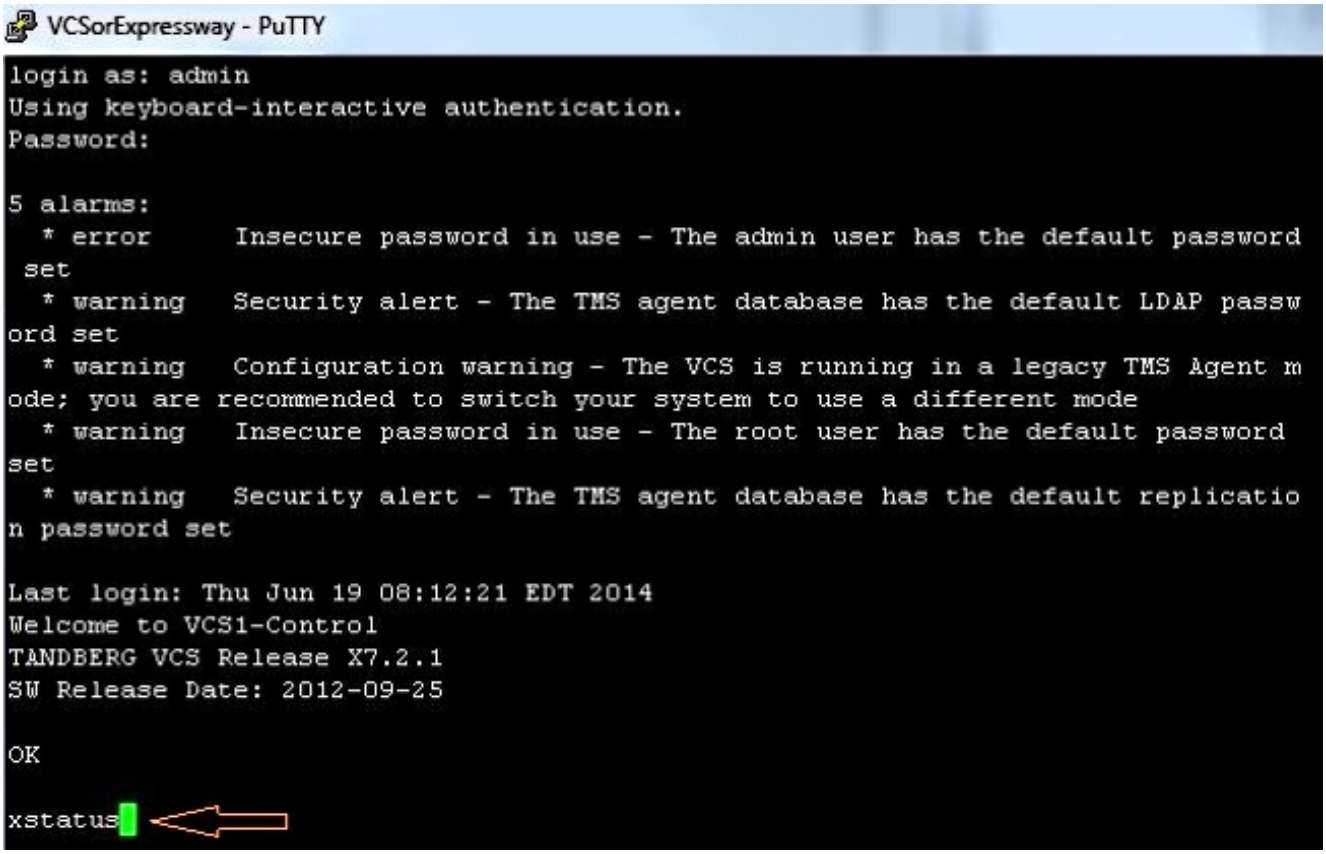



3. 接続してログインすると、次のような画面が表示されます。ここに示すように、adminとしてログインします。



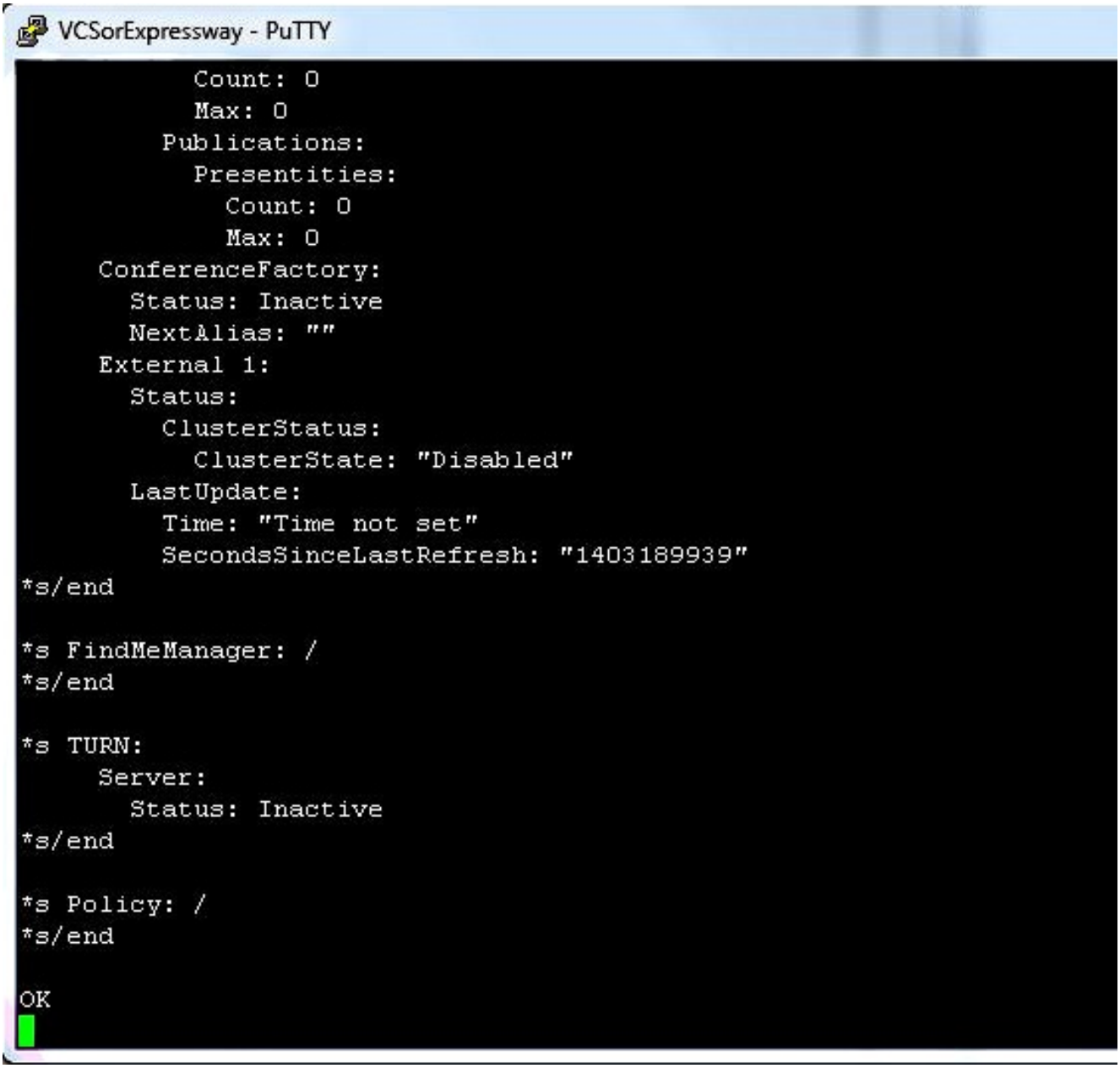

**注意**：これはラボ環境であるため、アラームは無視できます。実稼働環境でアラームが発生した場合は、できるだけ早く対処する必要があります。

4. xstatusコマンドを**入力し**、Enterキーを**押します**。



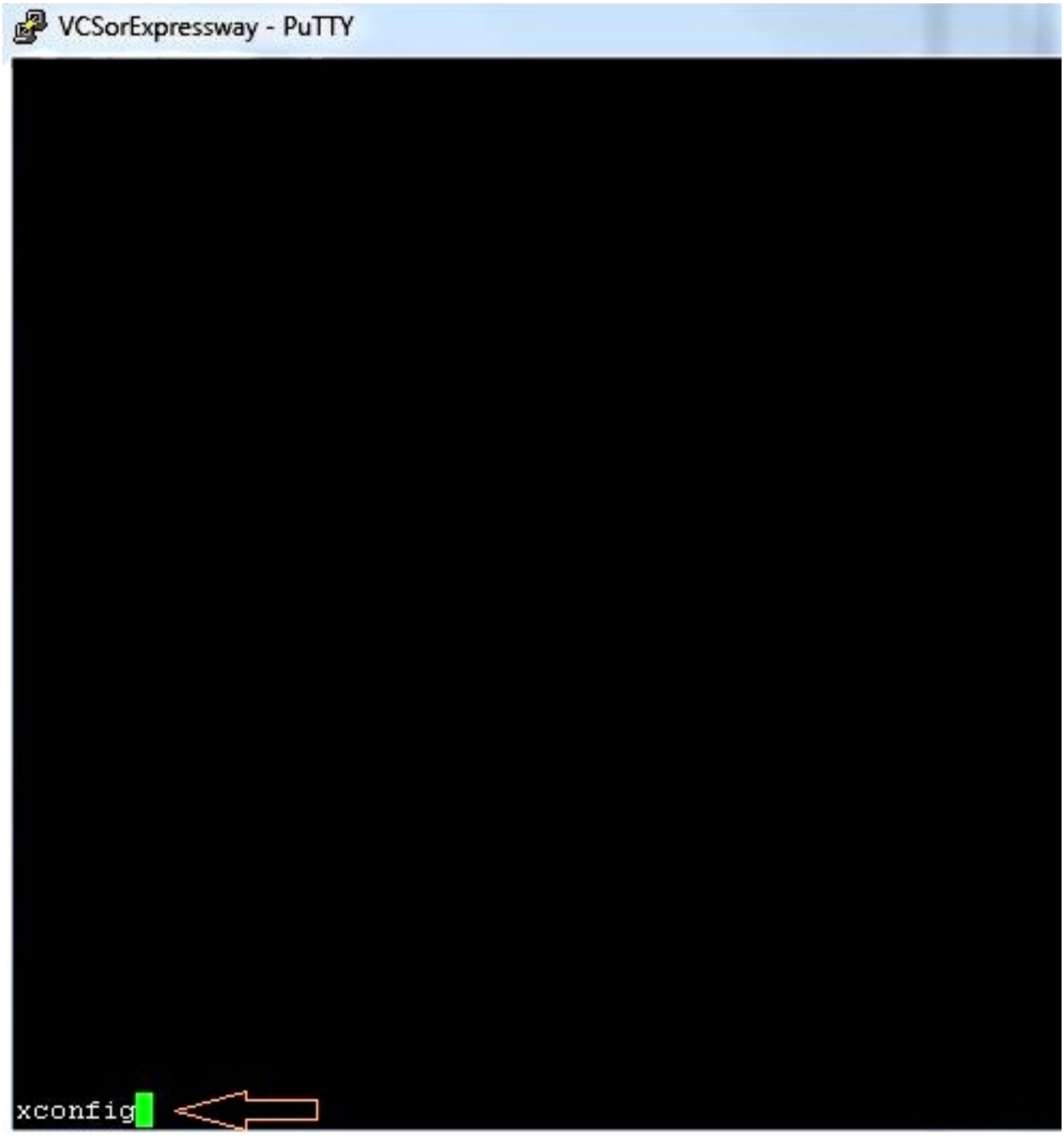

Enterキーを押した後に表示される**xstatus**出力を次に示します。出力が急速にスクロールし、最後まで表示できません。ロギングが以前に設定されている限り、これはテキストファイ

ルに含まれます。

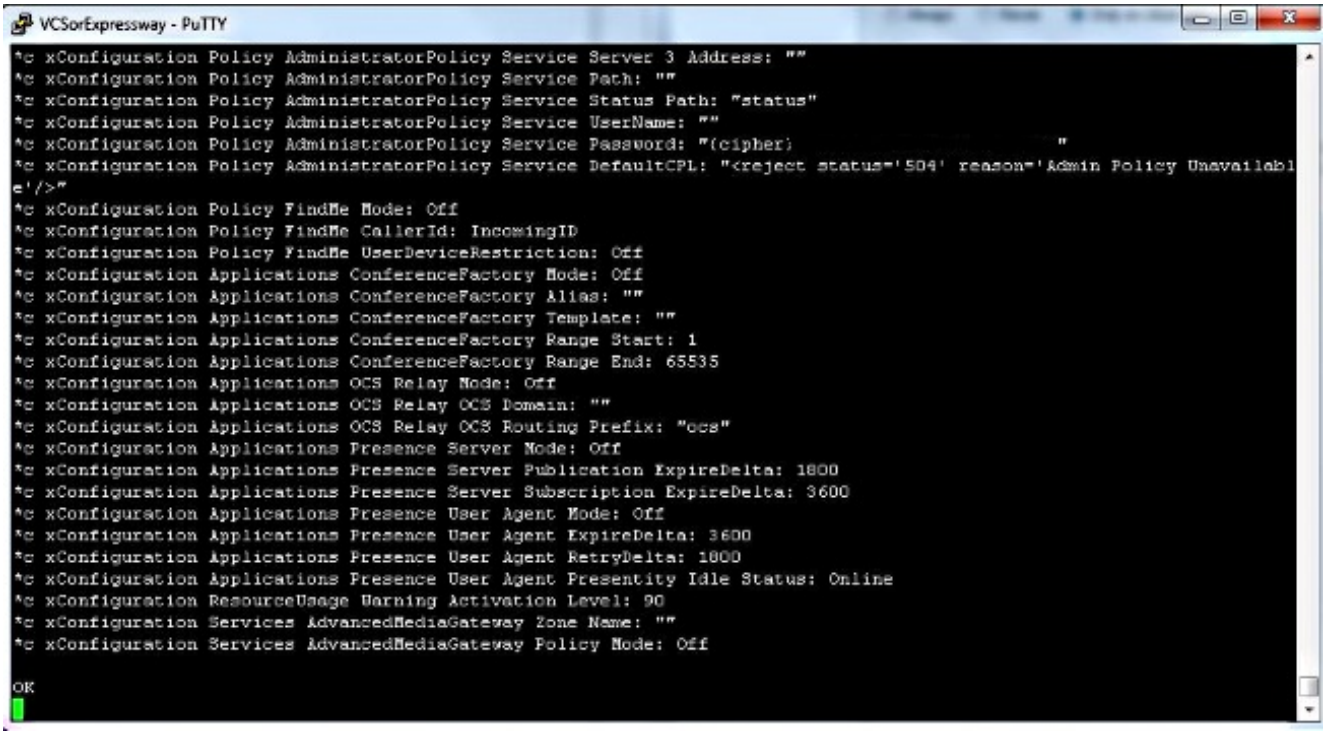



これでxstatusコマンドの出力が収集されたので、xconfigコマンドの出力を収集する準備が整います。

5. xconfigコマンドを入力し、Enterキーを押します。




Enterキーを押した後のxconfigの出力例を次に示します。出力はスクロールが速すぎて最後まで表示できません。ログが以前に設定されている限り、テキストファイルに記録されます。




### VCSおよびExpresswayシリーズx8.2

x8.2のソフトウェアリリースでは、診断ログの取得時にxconfigurationとxstatusが含まれるようになりました。

1. [メンテナンス] > [診断] > [診断ログ]に移動します。
2. [新しいログを開始]を選択し、すぐに[ログの停止]を選択します。

   注：このメソッドには、VCSまたはExpresswayシリーズで行われたアクティビティに応じてメッセージをログに記録するloggingsnapshot.txtも含まれています。

   ダウンロードした診断ログアーカイブには、次のファイルが含まれています。

   loggingsnapshot.txt：ログ期間中に実行されたアクティビティに応答するログメッセージが含まれます。

   xconf_dump.txt：ロギング開始時のシステムの設定に関する情報が含まれます。

   xstat_dump.txt：ロギング開始時のシステムのステータスに関する情報が含まれます。

   （関連する場合）diagnostic_logging_tcpdump.pcap – ロギング期間中にキャプチャされたパケットが含まれます。

## 確認

ロギング設定とともに保存されたテキストファイルのxstatusおよびxconfigの出力の例を次に示します。

```
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}
XXXXXXXXXXXXXXXXXXXX"
```

```
*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}
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
*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!
```

# トラブルシュート

以下の問題は、発生する可能性のある最も一般的な 3 つの問題です。

- **正しくない、または不良のシリアルケーブルが使用されている。**デバイスに付属したケーブルを使用していることを確認します。

- **認識できない文字がコンソール画面に表示される。**これは、ボー レートが誤って設定されていることを示しています。ボー レートは 2 の倍数であるため、正しい設定が見つかるまで、必要に応じて値を倍にしたり半分にしたりできます。この場合、正しい設定は115,200である必要**があります。**

- **ターミナル エミュレーション ソフトウェアに接続できない。**この問題は、ケーブルの問題に加えて、通常次のいずれかの問題が原因で発生します。

  TelnetまたはSSH経由で接続しようとするため、シリアル接続を使用する場合は、接続タイプをシリアルに変更する必要があります。

COM ポートが誤っている。PC で USB ベースのシリアル接続で使用している COM ポートを調べるには、[Control Panel] > [Device Manager] **に移動して、[Ports] をクリックします。**表示されたウィンドウから、USB シリアル デバイスに割り当てられている COM ポートを確認できます。

シリアル デバイス用のドライバをインストールしていない。この場合、それらのドライバを見つけてインストールしてください。

- **デバイスにSSH接続できません**。この問題は、ケーブルの問題に加えて、通常次のいずれかの問題が原因で発生します。

  SSH経由で接続しようとすると、ネットワーク接続の問題が原因でデバイスに到達できません。ネットワーク接続の問題を修正します。または、デバイスでSSHが有効になっていない可能性があります。Web/HTTP/HTTPSをデバイスに接続し、SSHアクセスが[Configuration] > [SystemConfiguration] > [Network Services]で有効になっていることを確認します。

  デバイスからキャッシュされたRivest-Shamir-Addleman(RSA)キーがありません。通常、RSAキーを受け入れるように求められます。必ず鍵を受け入れてください。

  ユーザ名とパスワードが正しくないため、ログインが失敗します。デバイスに正しいユーザ名とパスワードを使用していることを確認します。