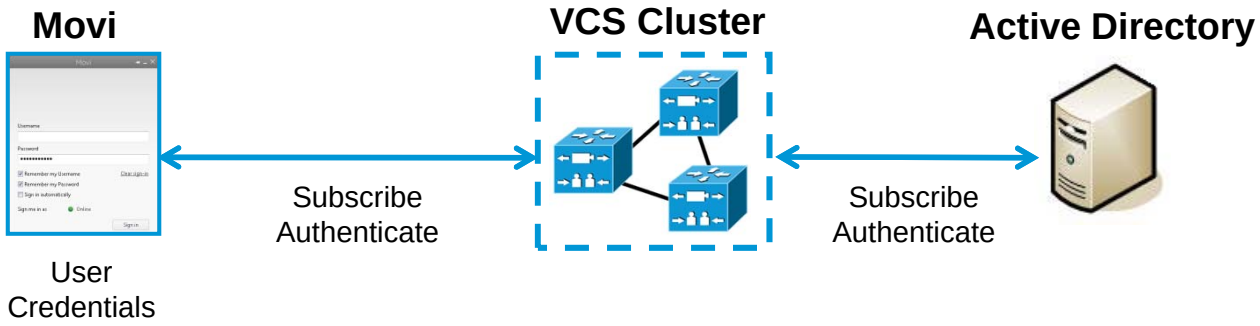
Device Authentication for TelePresence Video Communication Server

Presenter:

Date:

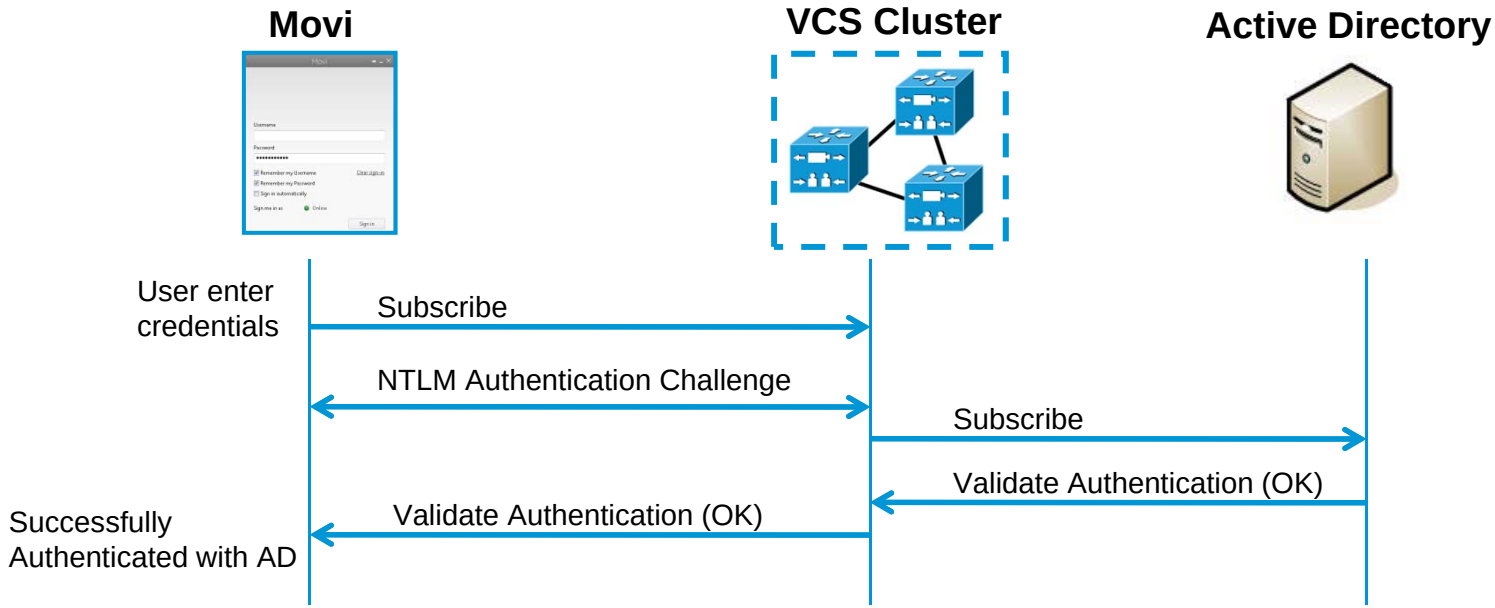
Device Authentication

- VCS Authentication via LDAP/Active Directory Service
  - ✓ Secure Authentication (and no H.350 schema needed on AD server)
  - ✓ Increased User Provisioning Efficiency
    - Rapid User Authentication through standard Active



Authentication via Active Directory Service

- VCS Authentication via Active Directory Service
  - ✓ Secure Authentication
  - ✓ Increased User Provisioning Efficiency
- Supports NTLM (NT LAN Manager) for Movi authentication
  - ✓ Movi desktop requires NTLMv2



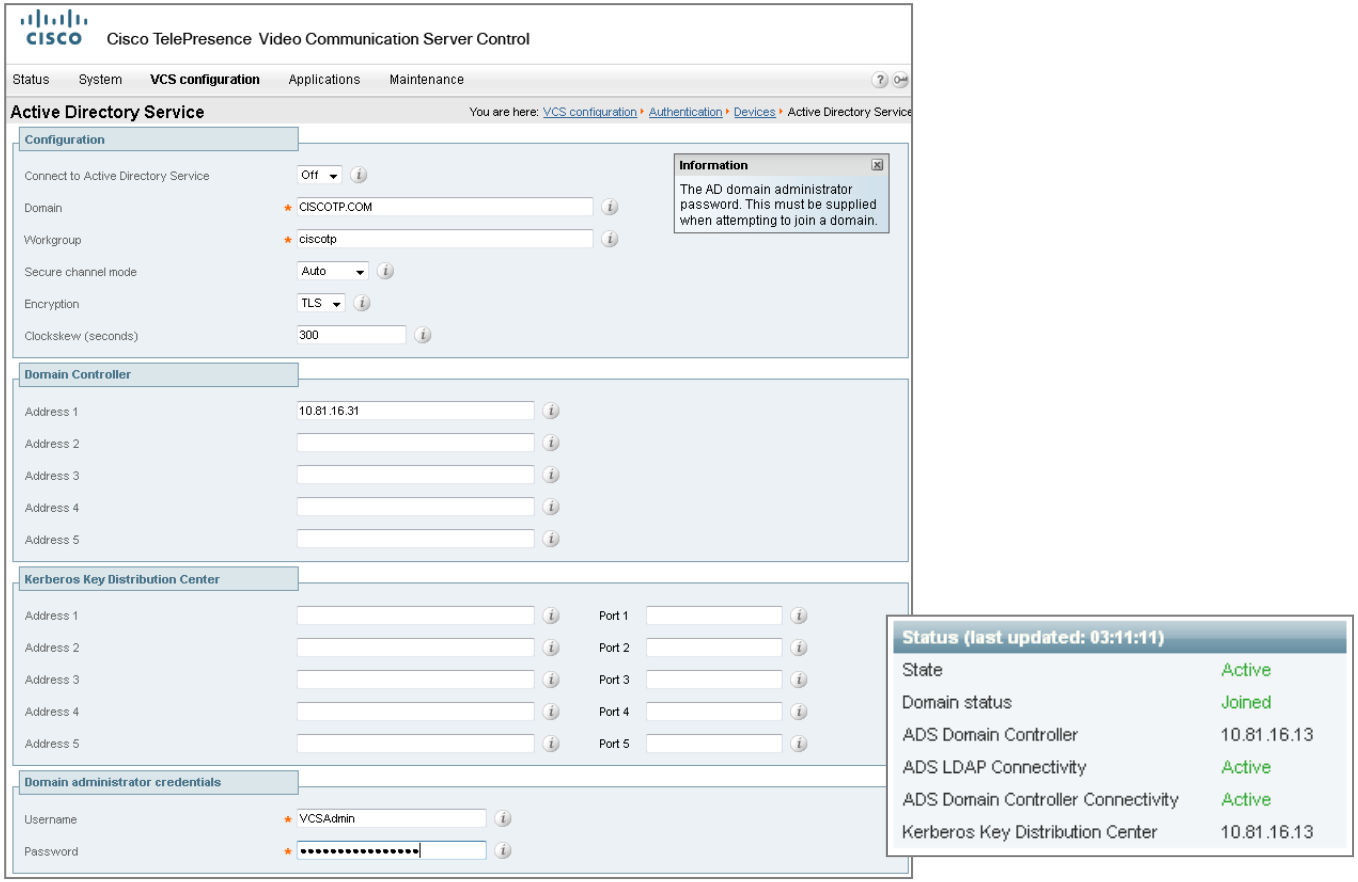
Authentication via Active Directory Service

- Setup
  - ✓ Configure AD details on VCS
  - ✓ VCS joins the AD domain
  - ✓ Configure with Command Line Interface (CLI) (available in 6.1)
  - ✓ Configure on Web interface (**new in X7.0**)
- SIP Signalling
  - ✓ VCS challenges Movi (4.2 or later) with NTLM challenge
- VCS using NTLM challenge requires direct connection to AD server
- Other endpoints may be authenticated utilizing H.350 or local database

AD/LDAP Authentication

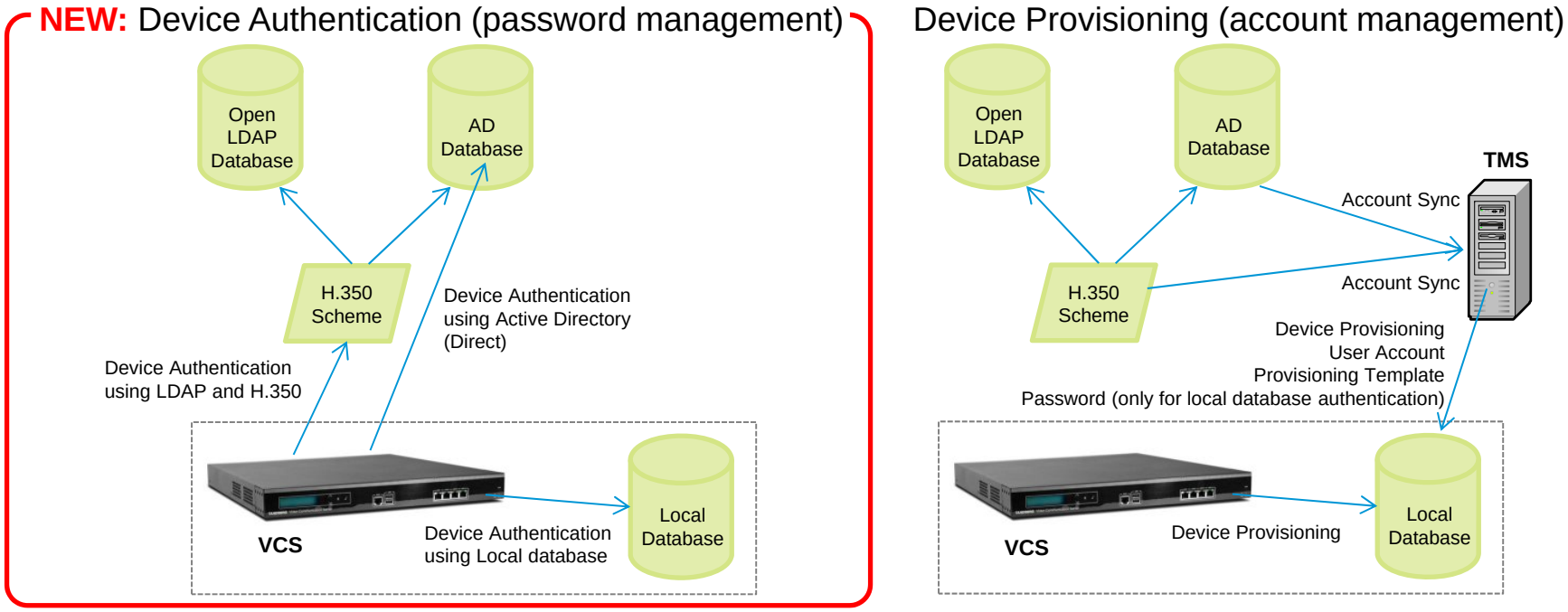
- Support Web GUI for AD/LDAP Device Authentication configuration

  VCS Configuration > Authentication > Devices > Active Directory Service



AD/LDAP Device Authentication

- Device Authentication for real time access to AD/LDAP service
  - ✓ Device Authentication with AD/LDAP integration provide single account credential (password) management
  - ✓ NTLM is used for all authentication when endpoint supports it and it is enabled – this includes authenticating device provisioning



AD/LDAP Device Authentication

- VCS Control with Active Directory (direct) authentication
  - ✓ The SIP UA sends a request to the VCS Control and it challenges for authentication, sending the authentication details to the AD server for validation.

SIP UA

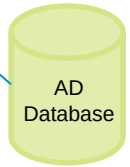
REGISTER

VCS Control

Configuration	Parameter
Provisioning Key	✓
TMS Provisioning Configuration	✓
AD Configuration	✓
Default Zone	Check Credentials
Default Subzone	Check Credentials
SIP Domain	Domain for SIP account

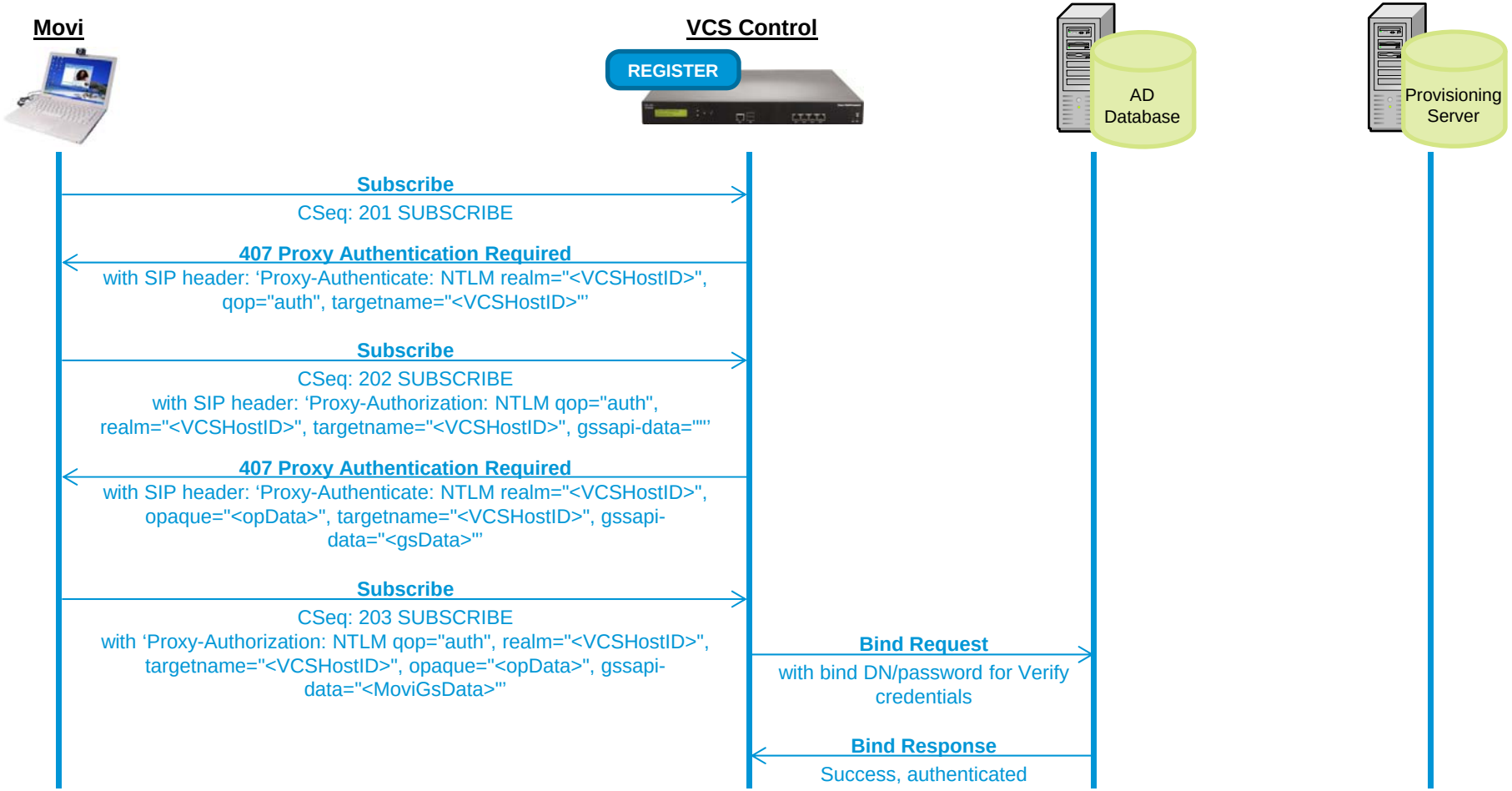
TMS

Provisioning	Parameter
SIP Server	VCS Control IP address or FQDN



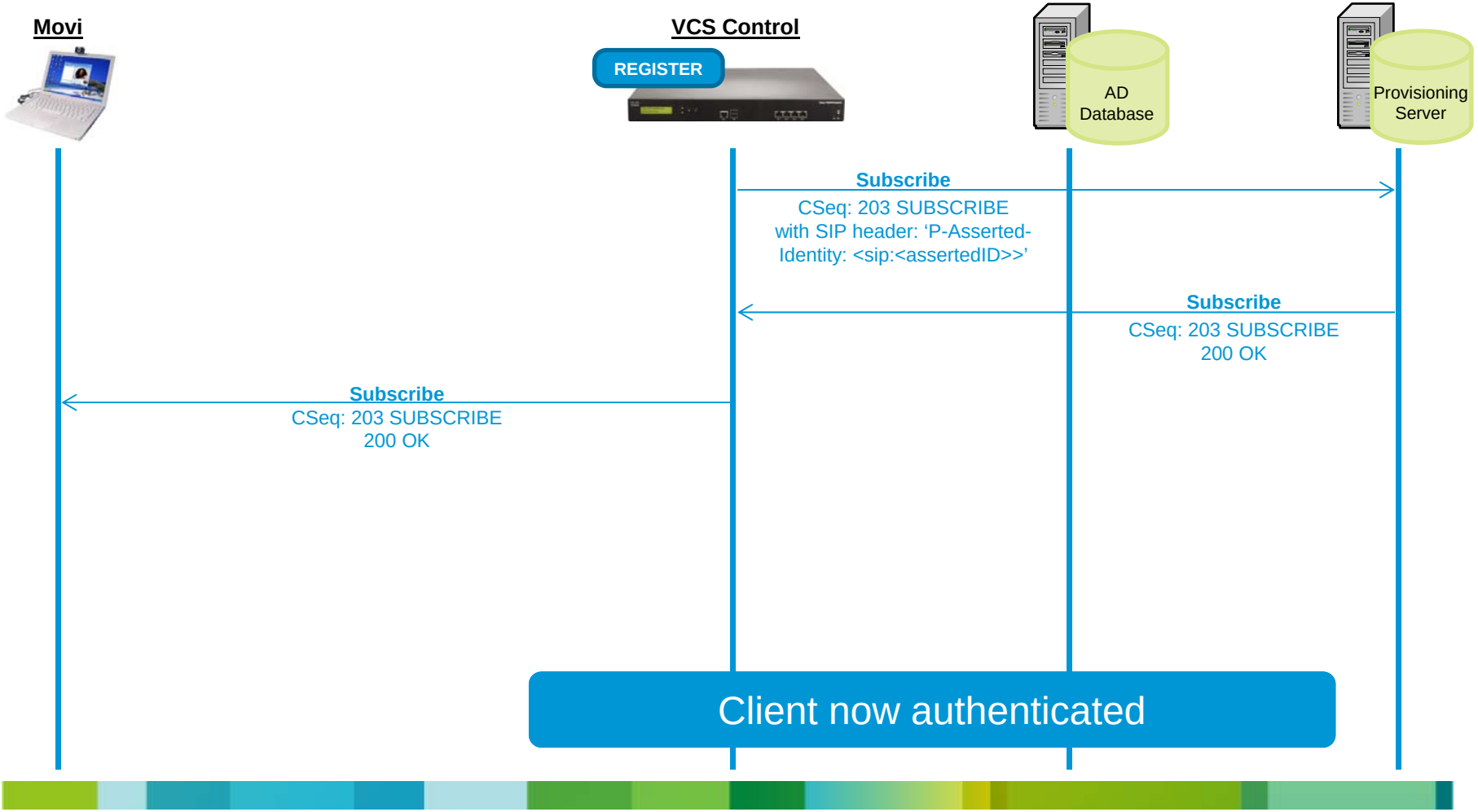
AD/LDAP Device Authentication

- VCS Control with Active Directory (direct) authentication



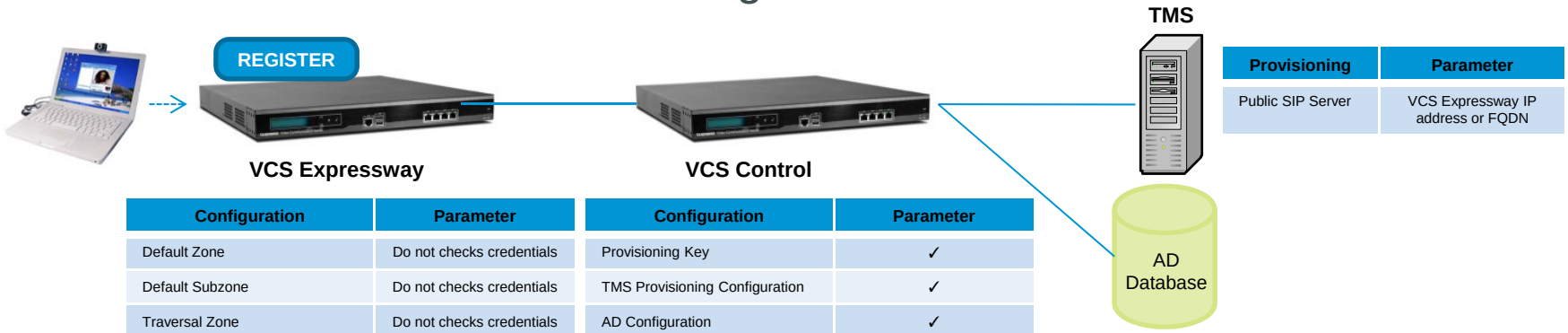
AD/LDAP Device Authentication

- VCS Control with Active Directory (direct) authentication



AD/LDAP Device Authentication

- VCS Control and VCS Expressway with Active Directory (direct) authentication on VCS Control
  - ✓ The SIP UA sends a request to the VCS Expressway, but authentication does not happen until the request gets sent to the VCS Control.
  - ✓ The registration takes place on the VCS Expressway, and as such is not authenticated. Provisioning requests, and call requests sent to the VCS Control will be challenged for authentication.



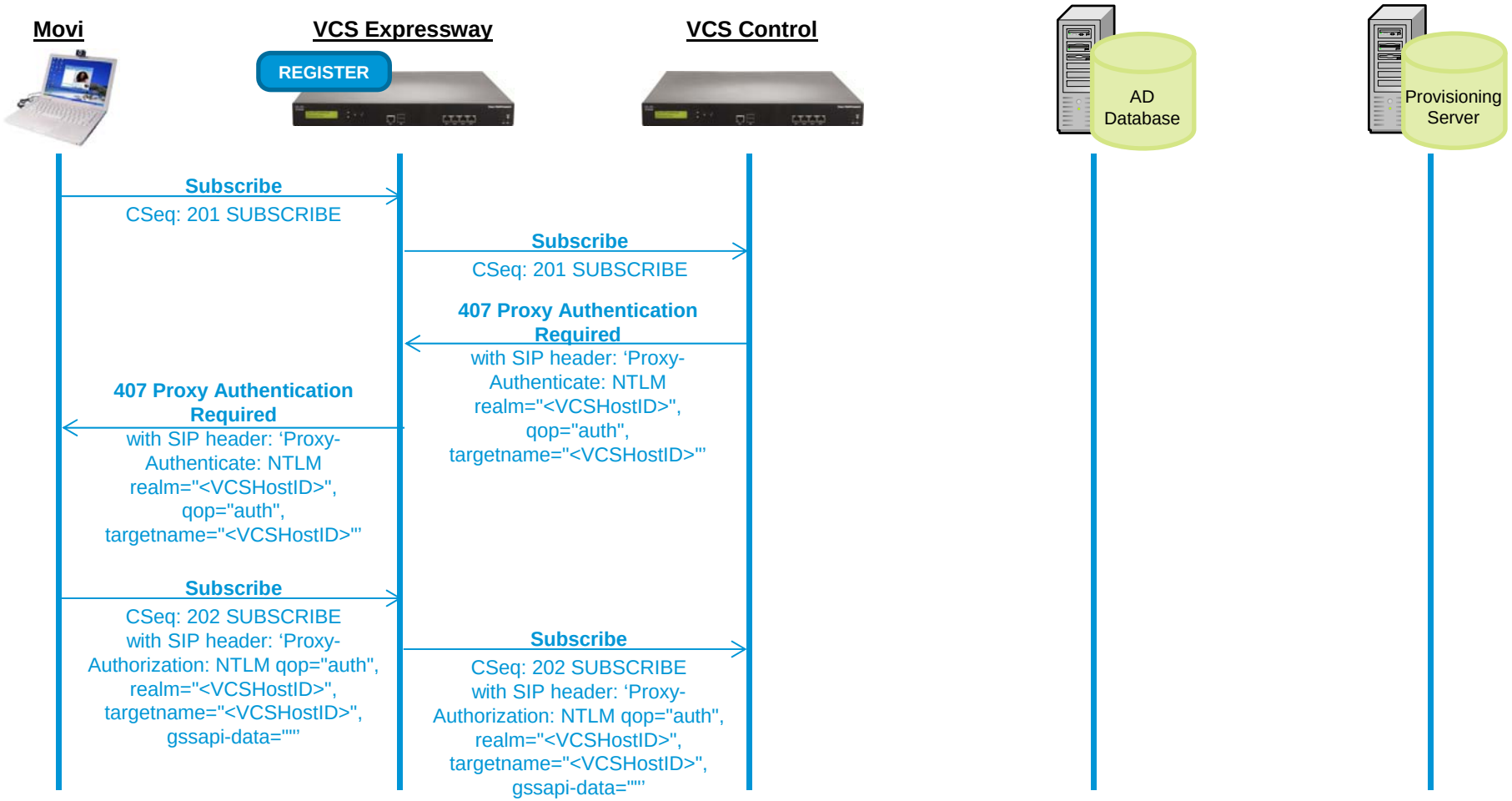
Provisioning	Parameter
Public SIP Server	VCS Expressway IP address or FQDN

Configuration	Parameter
Default Zone	Do not checks credentials
Default Subzone	Do not checks credentials
Traversal Zone	Do not checks credentials
SIP registration proxy mode	Off
SIP Domain	Domain for SIP account

Configuration	Parameter
Provisioning Key	✓
TMS Provisioning Configuration	✓
AD Configuration	✓
Default Zone	Check Credentials
Default Subzone	Check Credentials
Traversal Zone	Check Credentials
SIP Domain	Domain for SIP account

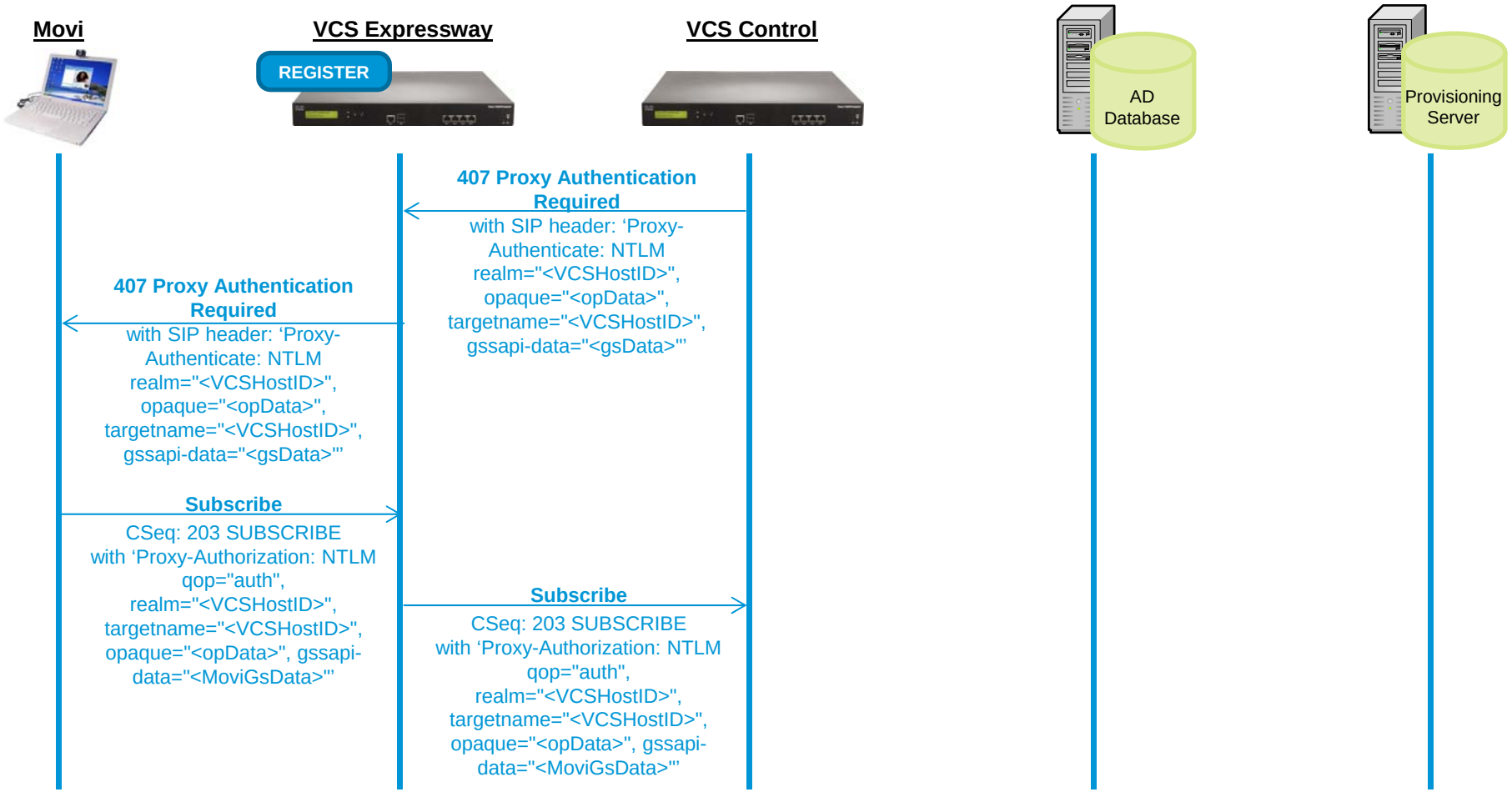
AD/LDAP Device Authentication

- VCS Control and VCS Expressway with Active Directory (direct)



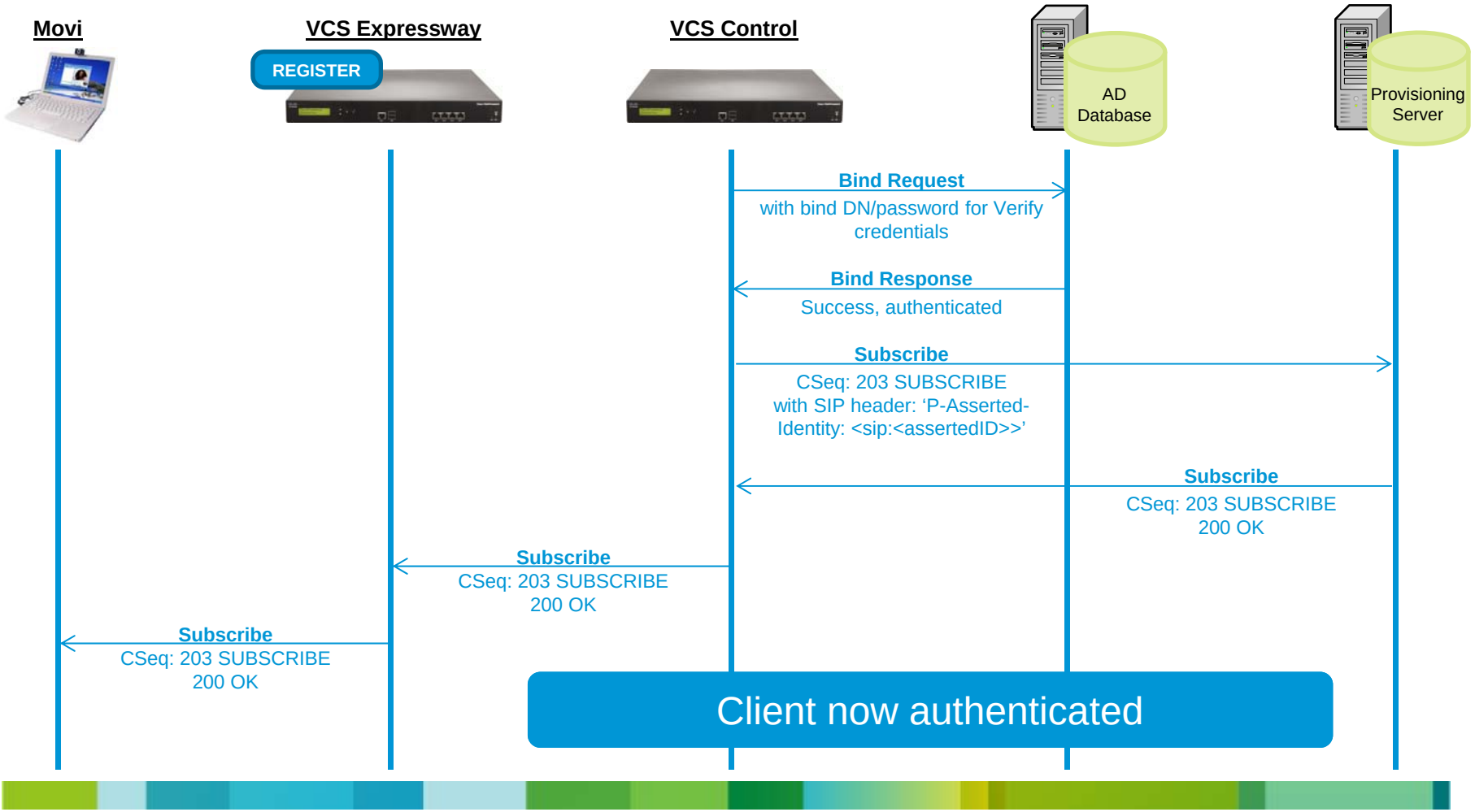
AD/LDAP Device Authentication

- VCS Control and VCS Expressway with Active Directory (direct)



AD/LDAP Device Authentication

- VCS Control and VCS Expressway with Active Directory (direct)



AD/LDAP Device Authentication

- VCS Control and VCS Expressway with Active Directory (direct) authentication for proxied registrations
  - ✓ The SIP UA sends a request to the VCS Expressway, but authentication does not happen until the request gets sent to the VCS Control.
  - ✓ With proxied registrations the registration will occur on the VCS Control and will be challenged for authentication. Proxying registrations results in media traversing the firewall in more cases.

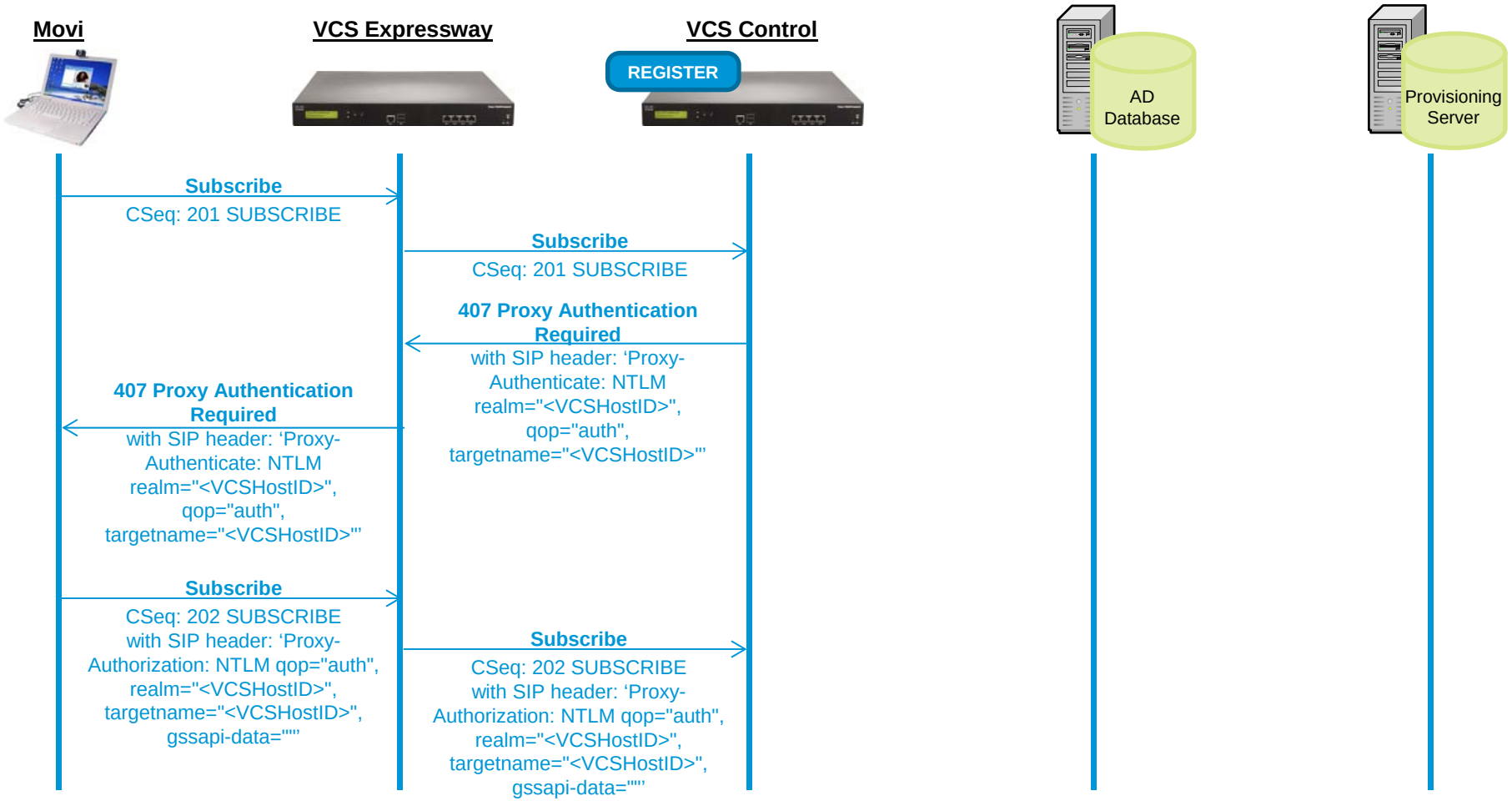
Provisioning	Parameter
SIP Server	VCS Control IP address or FQDN

Configuration	Parameter
Default Zone	Do not checks credentials
Default Subzone	Do not checks credentials
Traversal Zone	Do not checks credentials
SIP registration proxy mode	Proxy to known only
SIP Domain	-

Configuration	Parameter
Provisioning Key	✓
TMS Provisioning Configuration	✓
AD Configuration	✓
Default Zone	Check Credentials
Default Subzone	Check Credentials
Traversal Zone	Check Credentials
SIP Domain	Domain for SIP account

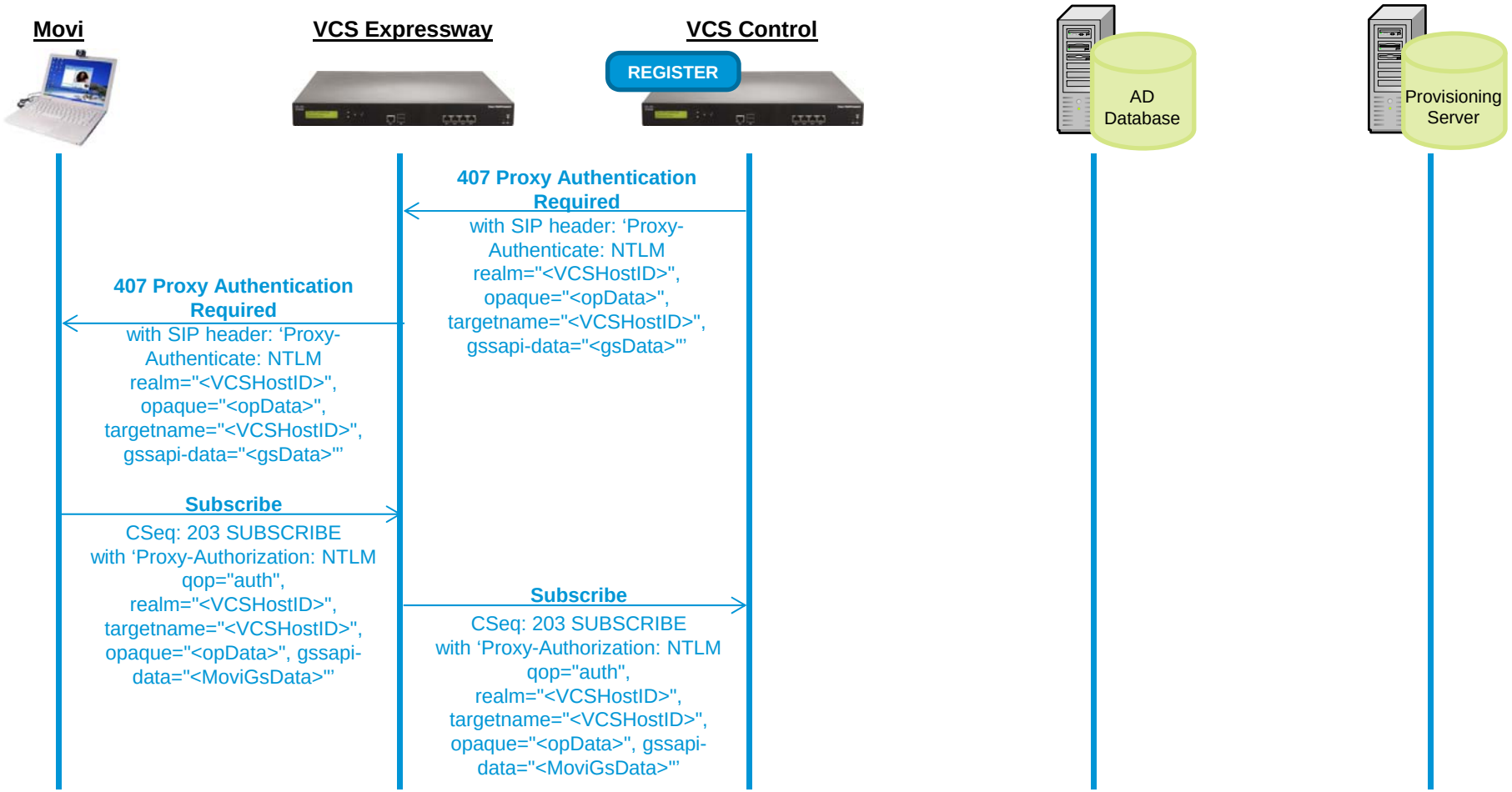
AD/LDAP Device Authentication

- VCS Control and VCS Expressway with Active Directory (direct)



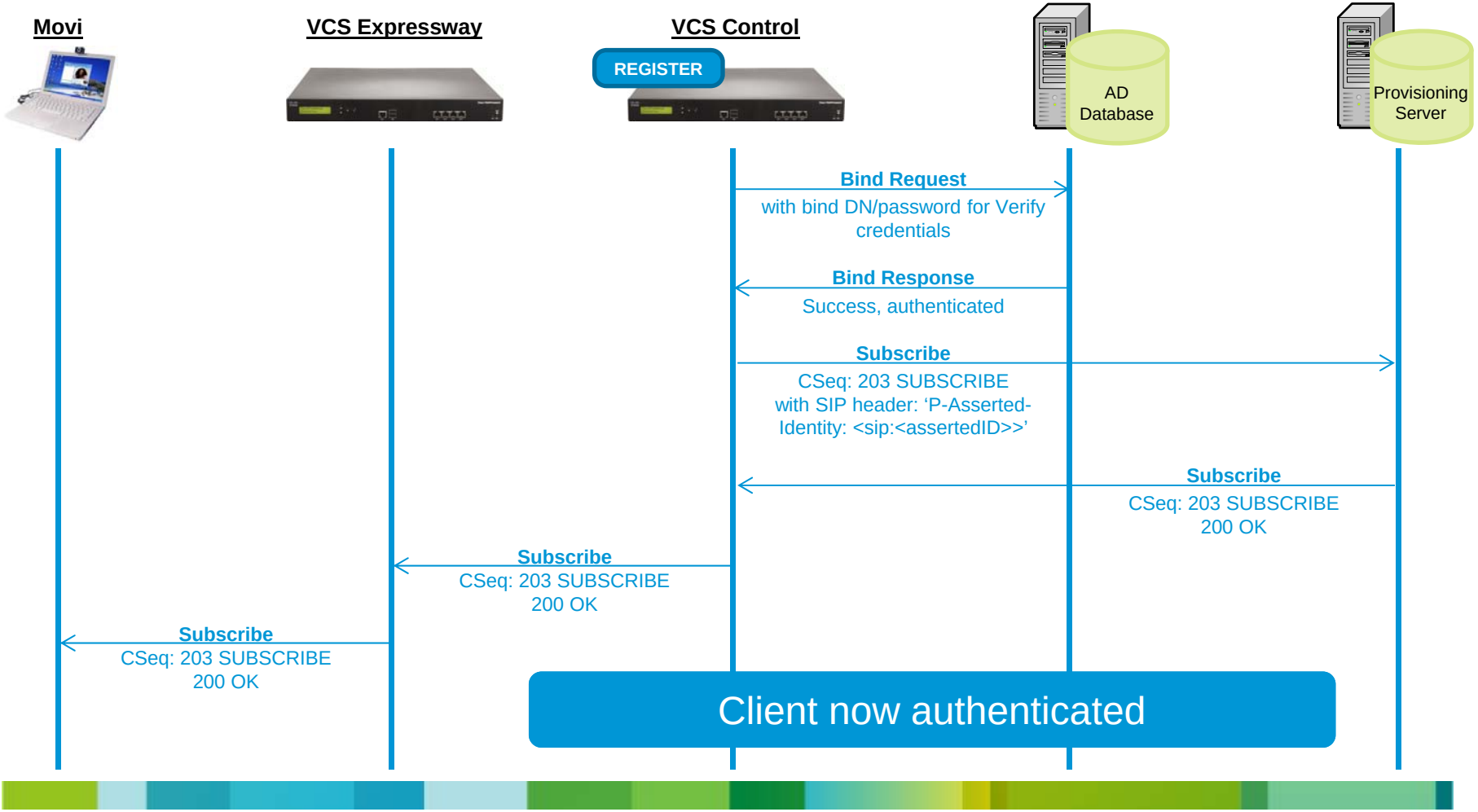
AD/LDAP Device Authentication

- VCS Control and VCS Expressway with Active Directory (direct)



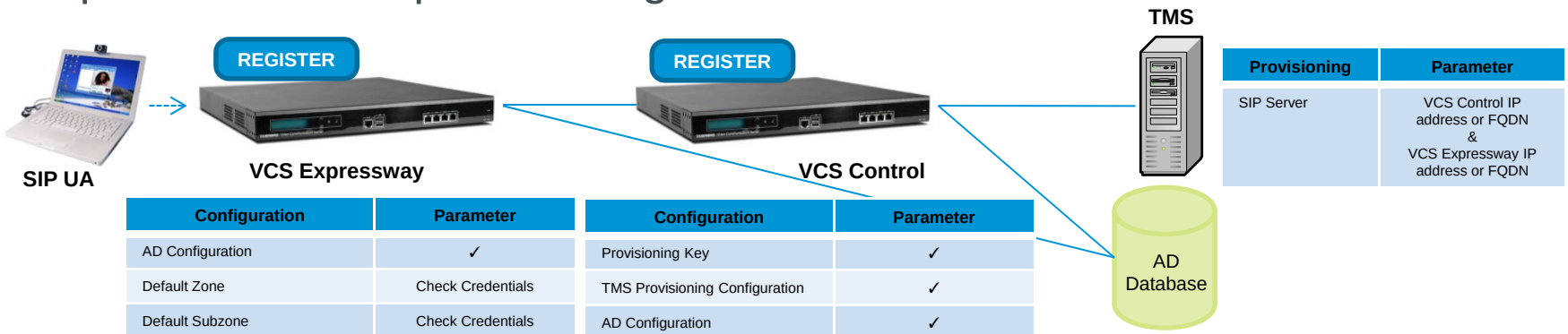
AD/LDAP Device Authentication

- VCS Control and VCS Expressway with Active Directory (direct)



AD/LDAP Device Authentication

- VCS Control and VCS Expressway, each with Active Directory (direct) authentication
  - ✓ Both the VCS Expressway and the VCS Control can be configured to perform direct authentication against the AD server.
  - ✓ This example shows a subscribe for provisioning that is challenged using an AD (direct) authentication challenge by the VCS Expressway. It is then forwarded on to the VCS Control which in turn passes it to the provisioning server:



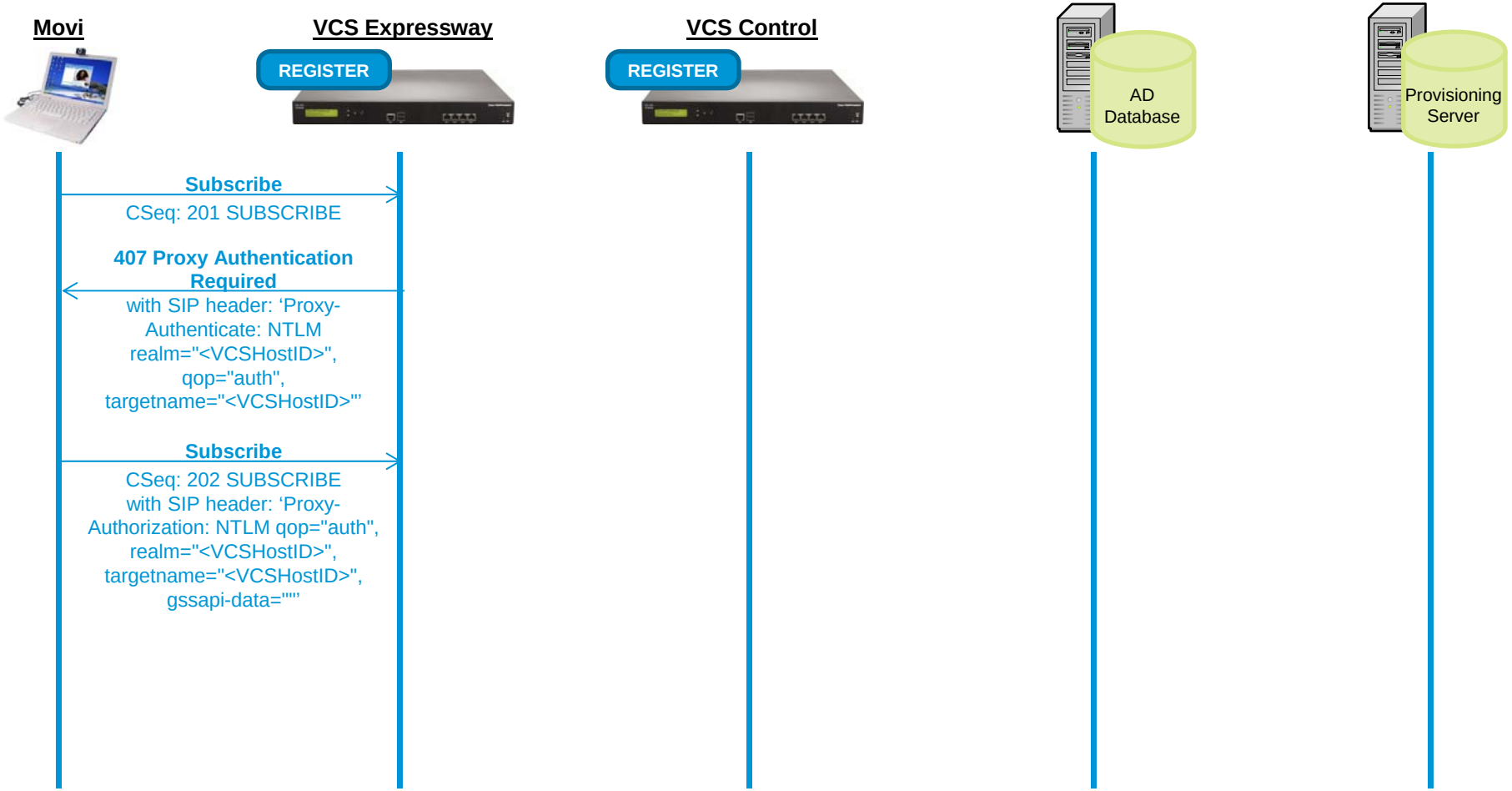
Provisioning	Parameter
SIP Server	VCS Control IP address or FQDN & VCS Expressway IP address or FQDN

Configuration	Parameter
AD Configuration	✓
Default Zone	Check Credentials
Default Subzone	Check Credentials
Traversal Zone	Check Credentials
SIP registration proxy mode	Off
SIP Domain	Domain for SIP account

Configuration	Parameter
Provisioning Key	✓
TMS Provisioning Configuration	✓
AD Configuration	✓
Default Zone	Check Credentials
Default Subzone	Check Credentials
Traversal Zone	Check Credentials
SIP Domain	Domain for SIP account

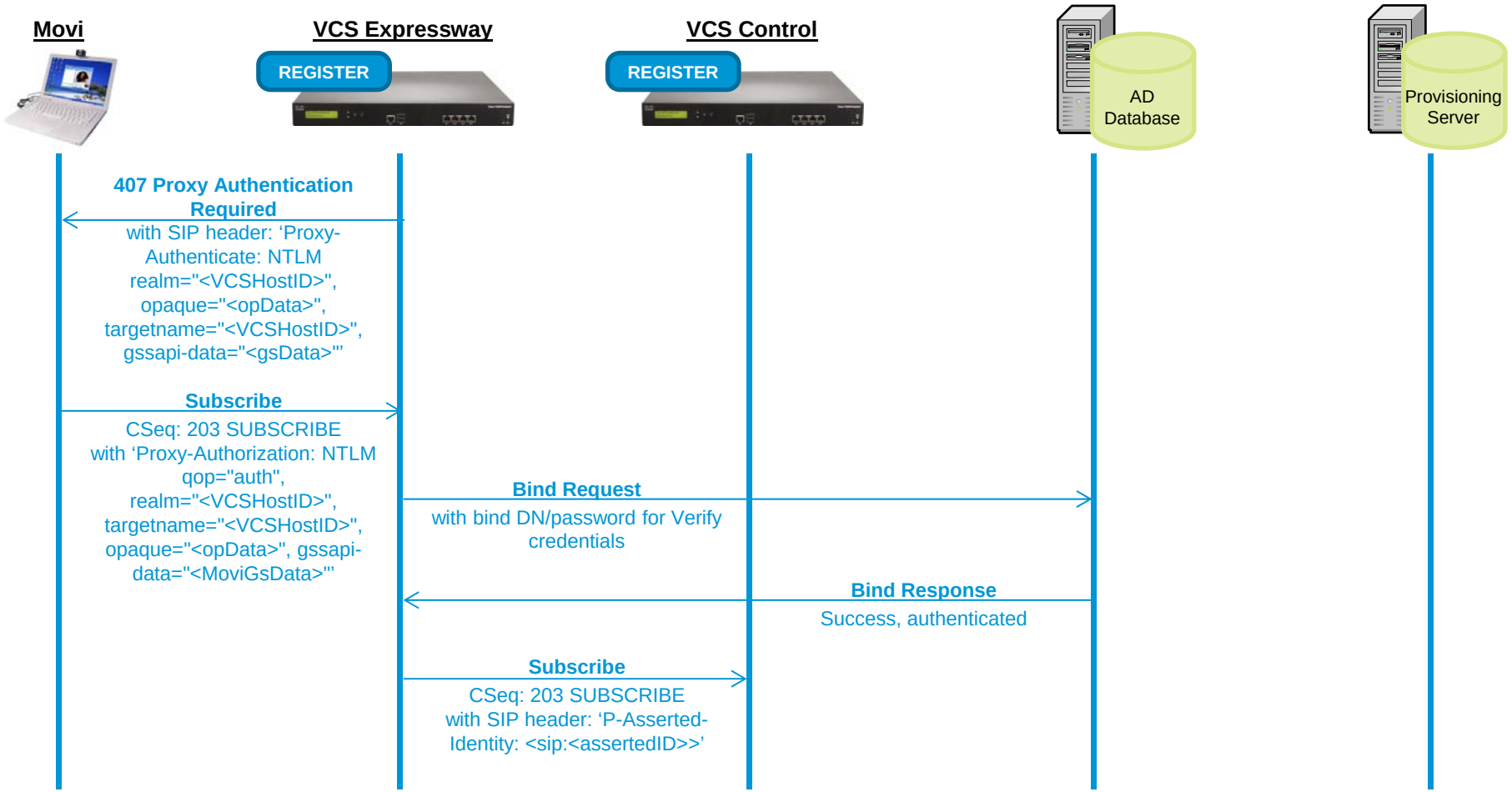
AD/LDAP Device Authentication

- VCSC and VCS-E, each with Active Directory (direct) authentication



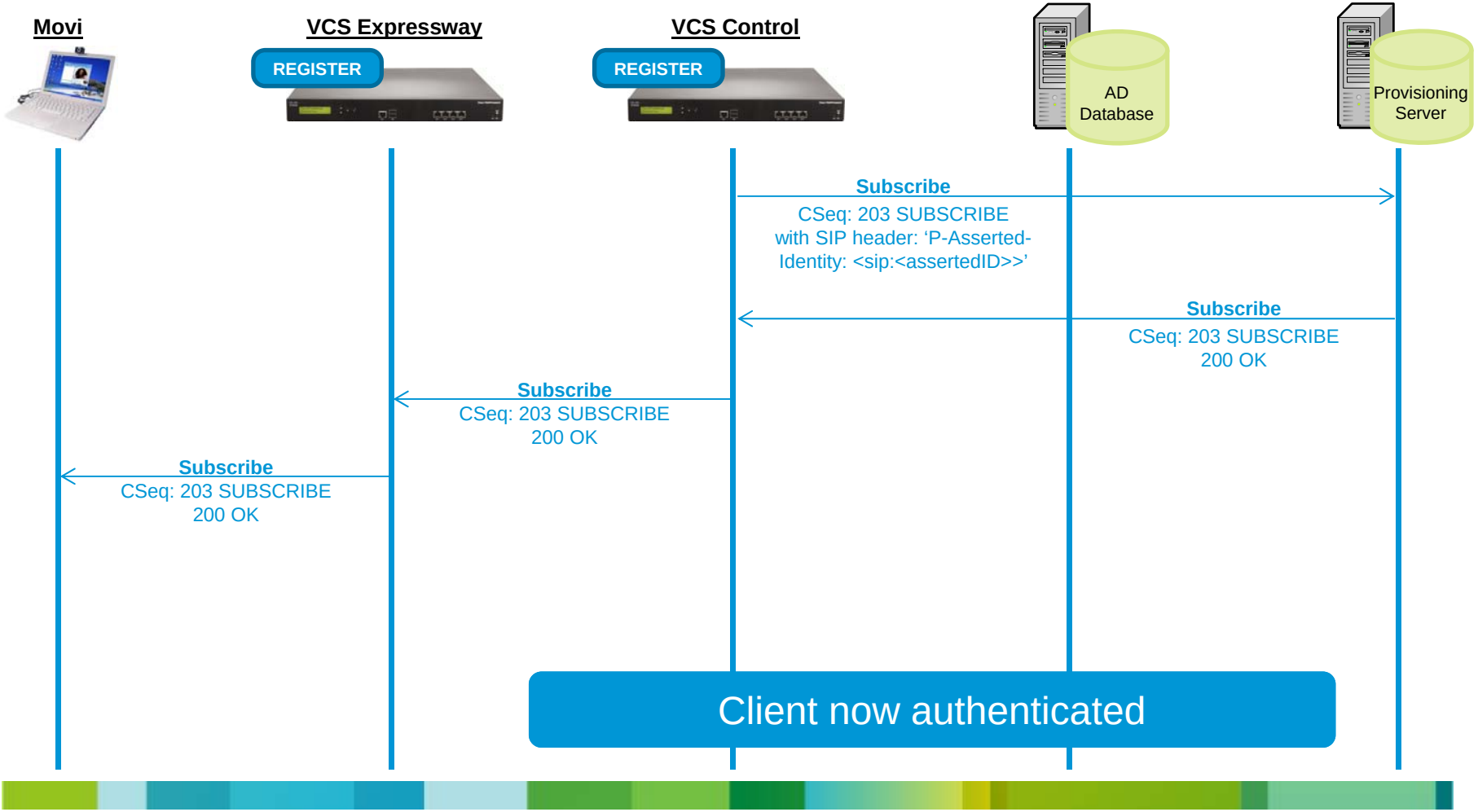
AD/LDAP Device Authentication

- VCSC and VCS-E, each with Active Directory (direct) authentication



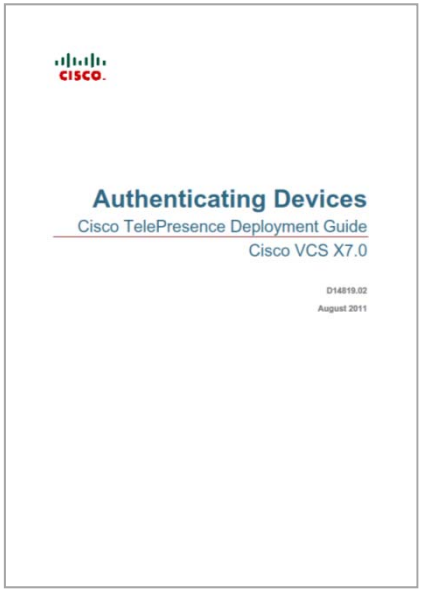
AD/LDAP Device Authentication

- VCSC and VCS-E, each with Active Directory (direct) authentication



Further reading

- www.cisco.com VCS Support
  - Read the release notes and administrator guide for any special instructions.
  - Read the cluster deployment guide to upgrade clusters or VCSs supporting Provisioning or Findme.
  - Cisco VCS Authenticating Devices Deployment Guide is available



Question?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