



Service (SRV) Records

You deploy multiple DNS SRV records in different locations on your enterprise DNS structure. Understand which records you should provision on which name servers. Review examples of SRV records to ensure a successful deployment.

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Deploy SRV Records

The client queries name servers for records in the services domain. The services domain is determined as described in [How the Client Discovers Available Services](#).

You must deploy SRV records in each DNS zone for those service domains if your organization has multiple subsets of users who use different service domains.

Deploy SRV Records in a Separate Domain Structure

In a separate name design there are two domains, an internal domain and an external domain. The client queries for SRV records in the services domain. The internal name server must serve records for the services domain. However in a separate name design, a zone for the services domain might not exist on the internal name server.

If the services domain is not currently served by the internal name server, you can:

- Deploy records within an internal zone for the services domain.
- Deploy records within a pinpoint subdomain zone on the internal name server.

Use an Internal Zone for a Services Domain

If you do not already have a zone for the services domain on the internal name server, you can create one. This method makes the internal name server authoritative for the services domain. Because it is authoritative, the internal name server does not forward queries to any other name server.

This method changes the forwarding relationship for the entire domain and has the potential to disrupt your internal DNS structure. If you cannot create an internal zone for the services domain, you can create a pinpoint subdomain zone on the internal name server.

Use a Pinpoint Subdomain Zone

DNS record lookup on the Cisco internal fixed pinpoint subdomain is a legacy feature for service discovery that is only available with the following versions of Cisco Jabber:

- Cisco Jabber for Windows 9.6.x
- Cisco Jabber for iPhone and iPad 9.6.0

Support of the fixed pinpoint subdomain has been replaced in later versions of Cisco Jabber by the support of the new **VoiceServicesDomain** configuration key.

Example configuration using Service Discovery to replace pinpoint subdomains:

- Internal DNS authoritative for : example.local
- External DNS authoritative for : example.com

```
Set VoiceServicesDomain=cisco-uc.example.com
```

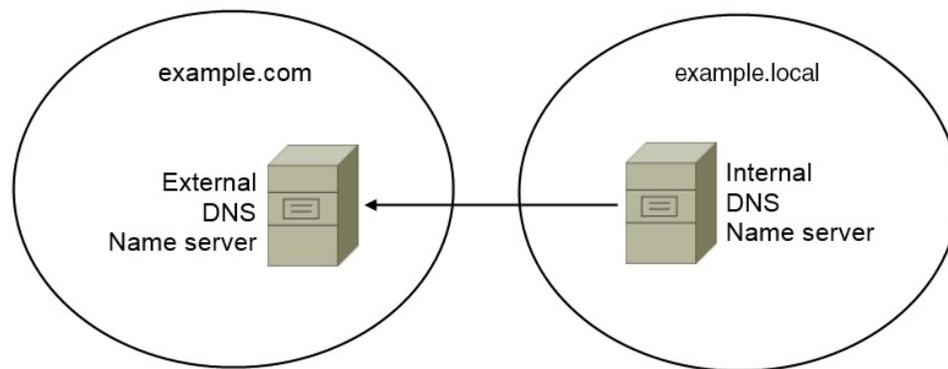
Create a zone on both the internal and external DNS server for `cisco-uc.example.com`.

Create the following SRV records as needed:

- `_cisco-uds._tcp.example.com` (on Internal DNS)
- `_cuplogin._tcp.example.com` (on Internal DNS)

You can create a pinpoint subdomain and zone on the internal name server. The pinpoint zone provides a dedicated location to serve specific records for the pinpoint subdomain. As a result, the internal name server becomes authoritative for that subdomain. The internal name server does not become authoritative for the parent domain, so the behavior of queries for records in the parent domain does not change.

The following diagram illustrates configuration created by the procedure.



In this configuration, the following SRV records are deployed with the internal DNS name server:

- `_cisco-uds._tcp.example.com`
- `_cuplogin._tcp.example.com`

Procedure

Step 1 Create a new zone on the internal name server.

Important You must use the following name for the pinpoint subdomain zone:

```
cisco-internal.services-domain.
```

The pinpoint subdomain zone responds to queries from hosts on the internal network. However, the domain is a subdomain of the external domain. The first part of the name is a fixed value that the client expects, `cisco-internal`.

Step 2 Deploy the `_cisco-uds` and `_cuplogin` SRV records in the pinpoint subdomain zone.

Before creating a pinpoint subdomain zone

The external name server contains a zone for the parent external domain, `example.com`.

The internal name server contains a zone for the parent internal domain, `example.local`.

The Cisco Jabber Services Domain is `example.com`.

After creating a pinpoint subdomain zone

The external name server contains a zone for the parent external domain, `example.com`.

Internal name server contains the following:

Zone for the parent internal domain, `example.local`.

Zone for the pinpoint subdomain zone, `cisco-internal.example.com`.

The internal name server serves the `_cisco-uds` and `_cuplogin` SRV records from `cisco-internal.example.com`.

When the client queries the name server for SRV records, it issues additional queries if the name server does not return `_cisco-uds` or `_cuplogin`.

The additional queries check for the `cisco-internal.domain-name` pinpoint subdomain zone.

For example, Adam McKenzie's services domain is `example.com` when he starts the client. The client then issues the following query:

```
_cisco-uds._tcp.example.com
_cuplogin._tcp.example.com
_collab-edge._tls.example.com
```

If the name server does not return `_cisco-uds` or `_cuplogin` SRV records, the client then issues the following query:

```
_cisco-uds._tcp.cisco-internal.example.com
_cuplogin._tcp.cisco-internal.example.com
```

SRV Records

Understand which SRV records you should deploy and review examples of each SRV record.

External Records

The following table lists the SRV record you must provision on external name servers as part of the configuration for Expressway Mobile and Remote Access:

Service Record	Description
_collab-edge	<p>Provides the location of the Cisco VCS Expressway or Cisco Expressway-E server.</p> <p>Note You must use the fully qualified domain name (FQDN) as the hostname in the SRV record.</p> <p>The client requires the FQDN to use the cookie that the Cisco VCS Expressway or Cisco Expressway-E server provides.</p>

The following is an example of the _collab-edge SRV record:

```
_collab-edge._tls.example.com SRV service location:
  priority = 3
  weight   = 7
  port     = 8443
  svr hostname = vcse1.example.com
_collab-edge._tls.example.com SRV service location:
  priority = 4
  weight   = 8
  port     = 8443
  svr hostname = vcse2.example.com
_collab-edge._tls.example.com SRV service location:
  priority = 5
  weight   = 0
  port     = 8443
  svr hostname = vcse3.example.com
```

Internal Records

The following table lists the SRV records you can provision on internal name servers so the client can discover services:

Service Record	Description
_cisco-uds	<p>Provides the location of Cisco Unified Communications Manager version 9 and higher.</p> <p>Remember In an environment with multiple Cisco Unified Communications Manager clusters, you must configure the Intercluster Lookup Service (ILS). ILS enables the client to find the user's home cluster and discover services.</p>
_cuplogin	Provides the location of Cisco Unified Presence.



Note You should use the fully qualified domain name (FQDN) as the hostname in the SRV record.

The following is an example of the `_cisco-uds` SRV record:

```
_cisco-uds._tcp.example.com SRV service location:
  priority = 6
  weight   = 30
  port     = 8443
  svr hostname = cucm3.example.com
_cisco-uds._tcp.example.com SRV service location:
  priority = 2
  weight   = 20
  port     = 8443
  svr hostname = cucm2.example.com
_cisco-uds._tcp.example.com SRV service location:
  priority = 1
  weight   = 5
  port     = 8443
  svr hostname = cucm1.example.com
```

The following is an example of the `_cuplogin` SRV record:

```
_cuplogin._tcp.example.com SRV service location:
  priority = 8
  weight   = 50
  port     = 8443
  svr hostname = cup3.example.com
_cuplogin._tcp.example.com SRV service location:
  priority = 5
  weight   = 100
  port     = 8443
  svr hostname = cup1.example.com
_cuplogin._tcp.example.com SRV service location:
  priority = 7
  weight   = 4
  port     = 8443
  svr hostname = cup2.example.com
```

