



TelePresence DNS Configuration Overview

Public DNS configurations are required to allow resolution of URI dialing for H.323 and SIP; Similar *internal* DNS configurations are also needed for internal URI dialing via VCS Control.

First set up an 'A Record' for the VCS Expressway; we suggest `vcse.yourdomain.com` (***you cannot point SRV records directly to the IP address***). These A Records point to the public IP address for the device and are used for the SRV records

Configure the SRV Records for the following services [where ' yourdomain.com' is your domain and `vcse.yourdomain.com` is an A record for the IP address of the VCS Expressway]. Every service provider will have different methods for inputting this data, some self service and others not.

Service	Protocol	Port	Target/Host
<code>_h323cs</code>	<code>_tcp</code>	1720	<code>vcse.yourdomain.com</code>
<code>_h323ls</code>	<code>_udp</code>	1719	<code>vcse.yourdomain.com</code>
<code>_sip</code>	<code>_tcp</code>	5060	<code>vcse.yourdomain.com</code>
<code>_sip</code>	<code>_udp</code>	5060	<code>vcse.yourdomain.com</code>
<code>_sips</code>	<code>_tcp</code>	5061	<code>vcse.yourdomain.com</code>

Cisco Suggested settings for each record:

TTL	86400
Priority	10
Weight	10

You may test the settings via the test tool located on the technical support area of Visitec's web site (download link: http://www.visitec.com/tand_docs/srvtool.exe).

Example of a 'self serve' interface to DNS

(This screen shot is from Visitec's DNS provider, top two lines are non-video SRV records)

visitec.com (Last saved 09/14/2011 1:32:26 PM MST) Cancel Save Zone File

Service	Protocol	Name	Priority	Weight	Port	Target	TTL
<input type="checkbox"/> [redacted]	[redacted]	@	5	0	[redacted]	vcse.visitec.com	1 Hour
<input type="checkbox"/> [redacted]	[redacted]	@	5	0	[redacted]	vcse.visitec.com	1 Hour
<input type="checkbox"/> _h323rs	_udp	@	1	0	1719	vcse.visitec.com	1 Hour
<input type="checkbox"/> _sips	_tcp	@	1	0	5061	vcse.visitec.com	1 Hour
<input type="checkbox"/> _sip	_tcp	@	1	0	5060	vcse.visitec.com	1 Hour
<input type="checkbox"/> _h323cs	_tcp	@	1	0	1720	vcse.visitec.com	1 Hour
<input type="checkbox"/> _sip	_udp	@	1	0	5060	vcse.visitec.com	1 Hour
<input type="checkbox"/> _h323ls	_udp	@	1	0	1719	vcse.visitec.com	1 Hour
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	1 Hour <input type="button" value="X"/>

Some DNS providers will look for the information in this format:

External 'A Record' for the VCS Internet facing port...

- 1) vcse.yourdomain.com. IN A 208.66.132.60 *(insert the IP address for your VCS Expressway)*
- 1) _h323ls._udp.yourdomain.com. 86400 IN SRV 10 10 1719 vcse.yourdomain.com.
- 2) _h323cs._tcp.yourdomain.com. 86400 IN SRV 10 10 1720 vcse.yourdomain.com.
- 3) _sip._udp.yourdomain.com. 86400 IN SRV 10 10 5060 vcse.yourdomain.com.
- 4) _sip._tcp.yourdomain.com. 86400 IN SRV 10 10 5060 vcse.yourdomain.com.
- 5) _sips._tcp.yourdomain.com. 86400 IN SRV 10 10 5061 vcse.yourdomain.com.

The following pages are excerpts from the Cisco VCS documentation with more detailed information.

Appendix 2 – DNS records configuration

DNS configuration on host server

The following records are required to be configured in the external DNS which hosts the externally routable domain: **example.com** to allow:

- ▶ external endpoints registration messages to be routed to the Cisco VCS Expressway
- ▶ calls from non-registered endpoints (or other infrastructure devices) to be routed to the Cisco VCS Expressway

Host DNS A record

Host	TTL	Type	Data
vcse.example.com	86400	A	192.0.2.2

DNS SRV records

Service	Protocol	Host	Port	Notes
h323cs	tcp	_h323cs._tcp.example.com	1720	
h323ls	udp	_h323ls._udp.example.com	1719	
sip	tcp	_sip._tcp.example.com	5060	
sip	udp	_sip._udp.example.com	5060	
sips	tcp	_sips._tcp.example.com	5061	
sips	tls	_sips._tls.example.com	5061	For E20 TE2.1
sip	tls	_sip._tls.example.com	5061	For MXP F8.2, T150 L6.0, Movi prior to version 3.1

For each DNS SRV record the following values are common:

Name	example.com
TTL	86400
Type	SRV
Priority	10
Weight	10
Target	vcse.example.com.

DNS configuration (internal DNS server)

The following records are required to be configured in the local DNS which hosts the internally routable domain: **internal-domain.net** to allow:

- ▶ internal endpoints registration messages to be routed to the Cisco VCS Control.

Local DNS A record

Host	TTL	Type	Data
vcsc.internal-domain.net	86400	A	10.0.0.2

Local DNS SRV records

Service	Protocol	Host	Port	Notes
h323cs	tcp	_h323cs._tcp.internal-domain.net	1720	
h323ls	udp	_h323ls._udp.internal-domain.net	1719	
sip	tcp	_sip._tcp.internal-domain.net	5060	
sip	udp	_sip._udp.internal-domain.net	5060	
sips	tcp	_sips._tcp.internal-domain.net	5061	
sips	tls	_sips._tls.internal-domain.net	5061	For E20 TE2.1
sip	tls	_sip._tls.internal-domain.net	5061	For MXP F8.2, T150 L6.0, Movi prior to version 3.1

For each DNS SRV record the following values are common:

Name	internal-domain.net
TTL	86400
Type	SRV
Priority	10
Weight	10
Target	vcsc.internal-domain.net.