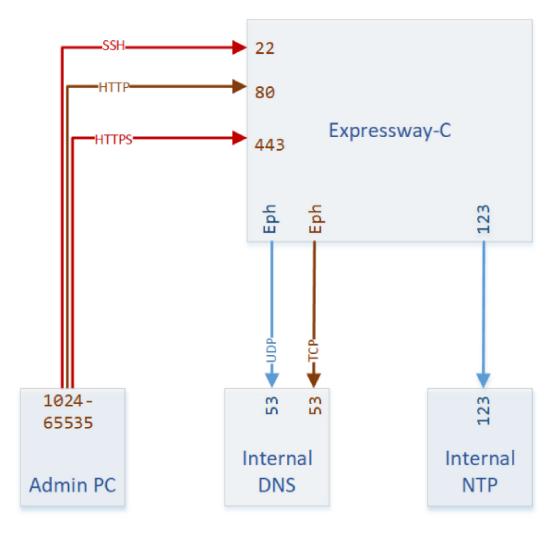
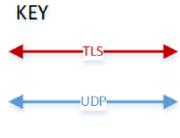


Basic Networking Connections

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- Networking Port Reference Expressway, on page 3
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Basic Networking - Expressway





TCP

446143

Networking Port Reference - Expressway

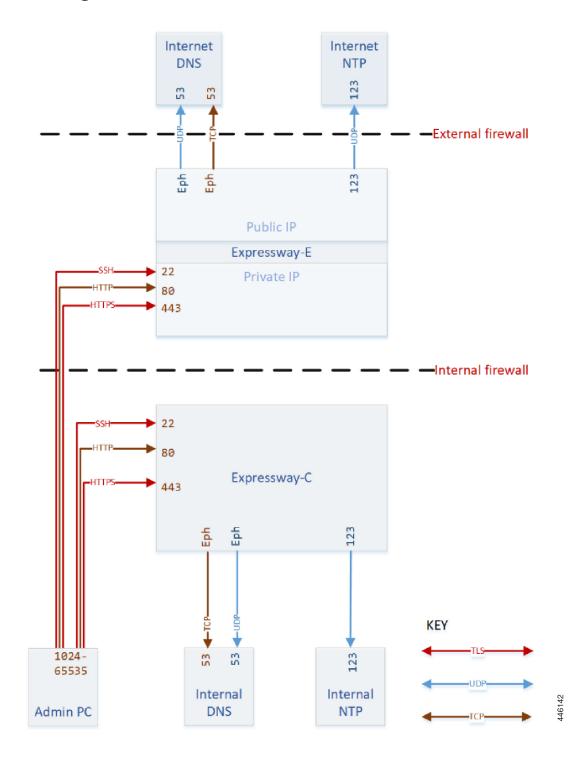
Purpose	Src. IP	Src. Ports	Protocol	Dest. IP	Dest. Ports
Administrator SSH	Admin PCs	1024-65535	ТСР	Expressway-C	22
Administrator HTTP*	Admin PCs	1024-65535	ТСР	Expressway-C	80
Administrator HTTPS	Admin PCs	1024-65535	ТСР	Expressway-C	443
Name resolution (DNS)	Expressway-C	30000-35999	UDP & TCP†	Internal name server	53
Time synchronization (NTP)	Expressway-C	123	UDP	Internal time server	123

Table 1: Basic Networking Ports for Expressway-C

* Expressway redirects HTTP to HTTPS by default. You don't need to open the HTTP port, but you can allow HTTP for convenience and redirect to HTTPS.

[†] Expressway will attempt DNS resolution over TCP if the response is too large.

Basic Networking - Traversal Pair



Networking Port Reference - Expressway Traversal Pair

Purpose	Src. IP	Src. Ports	Protocol	Dest. IP	Dest. Ports
Administrator SSH	Admin PCs	1024-65535	ТСР	Expressway-C	22
Administrator HTTP*	Admin PCs	1024-65535	ТСР	Expressway-C	80
Administrator HTTPS	Admin PCs	1024-65535	ТСР	Expressway-C	443
Name resolution (DNS)	Expressway-C	30000-35999	UDP & TCP †	Internal name server	53
Time synchronization (NTP)	Expressway-C	123	UDP	Internal time server	123

Table 2: Basic Networking Ports for Expressway-C

* Expressway redirects HTTP to HTTPS by default. You don't need to open the HTTP port, but you can allow HTTP for convenience and redirect to HTTPS.

[†] Expressway will attempt DNS resolution over TCP if the response is too large.

Table 3: Basic Networking Ports for Expressway-E

Purpose	Src. IP	Src. Ports	Protocol	Dest. IP	Dest. Ports
Administrator SSH	Admin PCs	1024-65535	ТСР	Expressway-E private IP	22
Administrator HTTP	Admin PCs	1024-65535	ТСР	Expressway-E private IP	80
Administrator HTTPS	Admin PCs	1024-65535	TLS	Expressway-E private IP	443
Internal name resolution (DNS)*	Expressway-E private IP	30000-35999	UDP & TCP	Internal name server	53
External name resolution (DNS)	Expressway-E public IP	30000-35999	UDP & TCP	External name server	53
Internal time synchronization (NTP)*	Expressway-E private IP	123	UDP	Internal time server	123

Purpose	Src. IP	Src. Ports	Protocol	Dest. IP	Dest. Ports
External time synchronization (NTP)	Expressway-E public IP	123	UDP	External time server	123

* You may prefer to connect Expressway-E to external DNS and NTP. You do not need both.