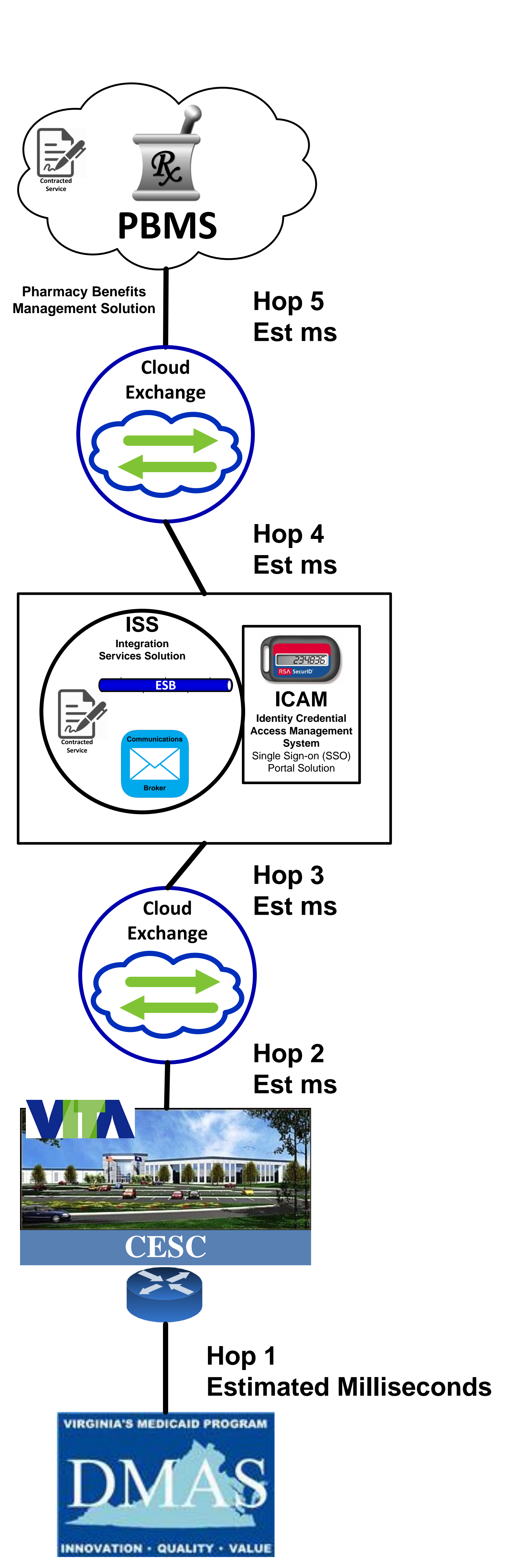
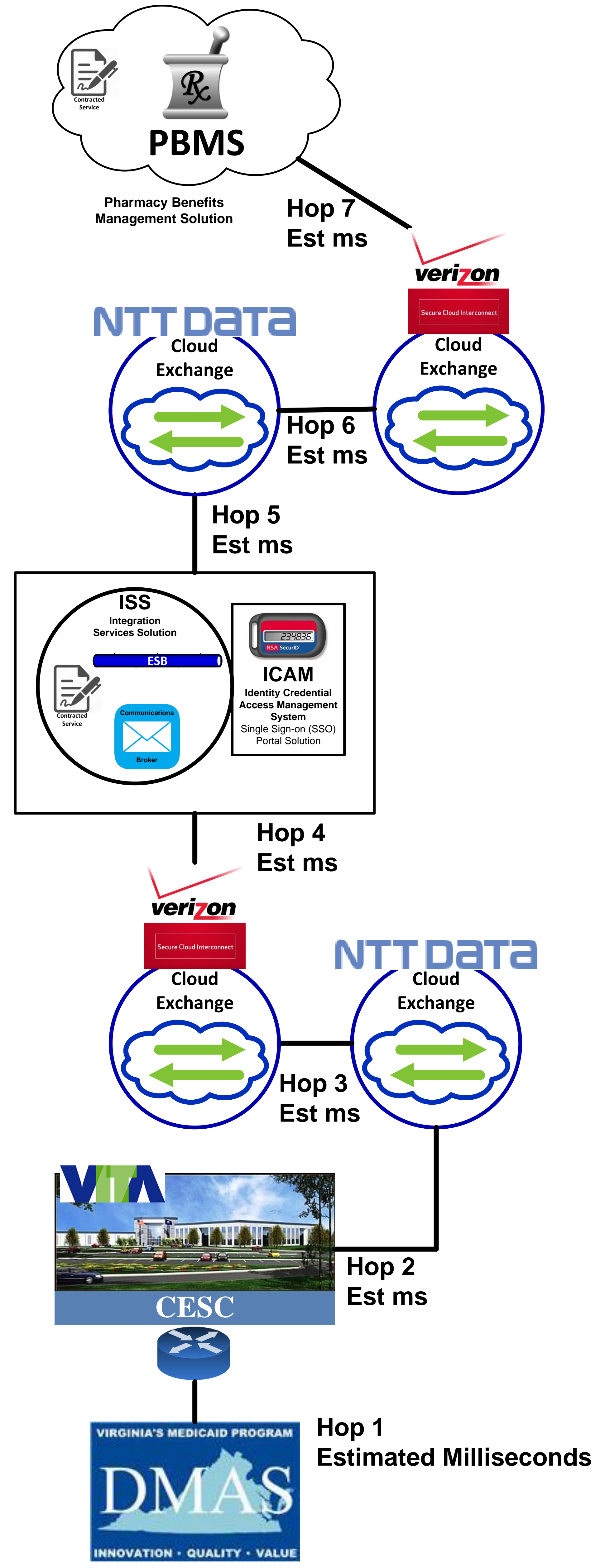


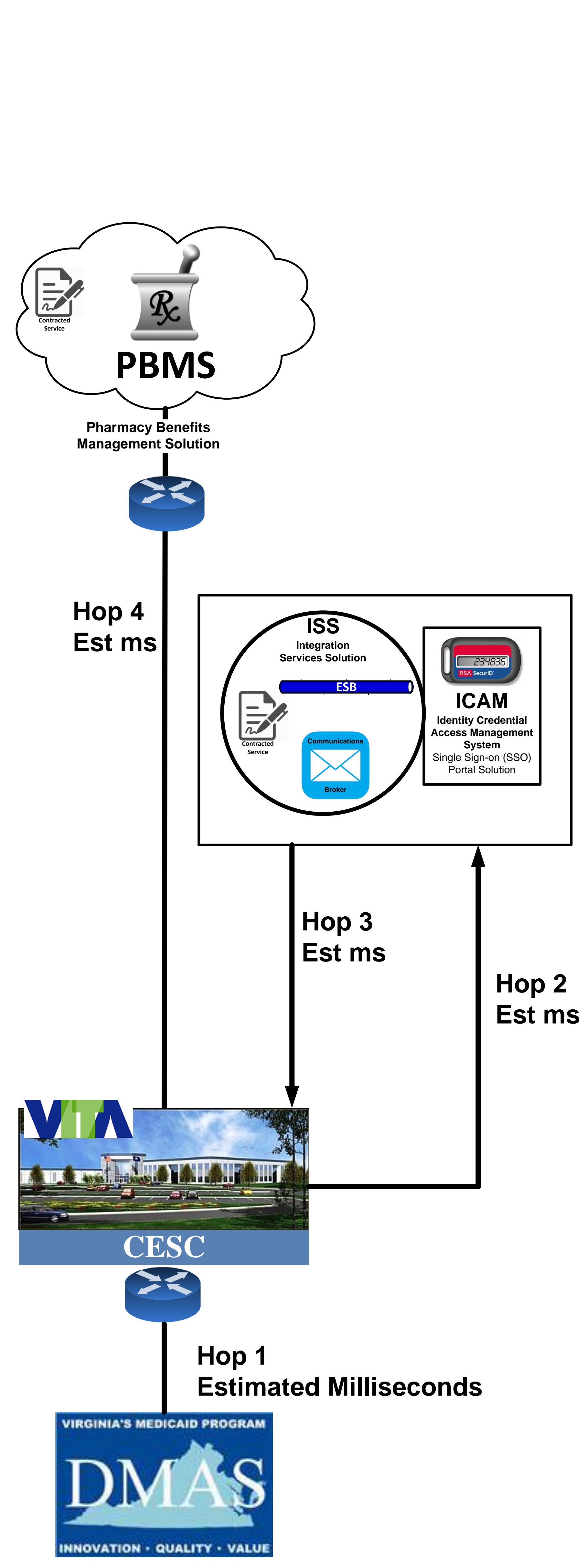
**Matured Cloud Exchange Path Estimated Latency**



**NTTDATA Cloud Exchange Path Estimated Latency**



**Site-2-Site Path Estimated Latency**



```

C:\Windows\system32\cmd.exe
C:\Users\mhf22332>tracert google.com
Tracing route to google.com [172.217.7.142]
over a maximum of 30 hops:
  0  1 ms  <1 ms  <1 ms  10.194.13.3
  1  231 ms  6 ms  31 ms  10.193.241.189
  2  1 ms  1 ms  2 ms  10.193.241.244
  3  2 ms  2 ms  2 ms  10.193.242.242
  4  1 ms  1 ms  1 ms  10.193.248.56
  5  1 ms  1 ms  1 ms  10.193.248.56
  6  1 ms  1 ms  1 ms  10.193.248.180
  7  1 ms  1 ms  1 ms  10.193.248.180
  8  2 ms  2 ms  2 ms  204.148.24.117
  9  3 ms  3 ms  3 ms  204.148.24.117
 10  7 ms  12 ms  12 ms  104.73.248.101.1008.ALTER.NET [148.222.235.35]
 11  5 ms  6 ms  8 ms  204.148.29.46
 12  7 ms  7 ms  8 ms  188.149.128.8
 13  9 ms  8 ms  8 ms  216.239.54.205
 14  13 ms  10 ms  7 ms  172.217.7.142
Trace complete.
C:\Users\mhf22332>
  
```

```

C:\Windows\system32\cmd.exe
C:\Users\mhf22332>tracert baidu.com
Tracing route to baidu.com [180.149.132.47]
over a maximum of 30 hops:
  0  1 ms  <1 ms  <1 ms  10.194.13.3
  1  232 ms  20 ms  31 ms  10.193.241.189
  2  <1 ms  <1 ms  1 ms  10.193.241.244
  3  2 ms  2 ms  2 ms  10.193.242.242
  4  1 ms  1 ms  1 ms  10.193.248.56
  5  1 ms  1 ms  1 ms  10.193.248.56
  6  2 ms  2 ms  2 ms  204.148.24.117
  7  2 ms  2 ms  2 ms  204.148.24.117
  8  2 ms  2 ms  2 ms  204.148.24.117
  9  5 ms  5 ms  5 ms  204.148.24.117
 10  7 ms  12 ms  12 ms  104.73.248.101.1008.ALTER.NET [148.222.235.35]
 11  5 ms  6 ms  8 ms  204.148.29.46
 12  7 ms  7 ms  8 ms  188.149.128.8
 13  9 ms  8 ms  8 ms  216.239.54.205
 14  13 ms  10 ms  7 ms  172.217.7.142
Trace complete.
C:\Users\mhf22332>
  
```

```

C:\Windows\system32\cmd.exe
C:\Users\mhf22332>tracert dir.texas.gov
Tracing route to dir.texas.gov [168.44.248.25]
over a maximum of 30 hops:
  0  1 ms  <1 ms  <1 ms  10.194.13.3
  1  232 ms  20 ms  31 ms  10.193.241.189
  2  <1 ms  <1 ms  1 ms  10.193.241.244
  3  2 ms  2 ms  2 ms  10.193.242.242
  4  1 ms  1 ms  1 ms  10.193.248.13
  5  1 ms  1 ms  1 ms  10.193.248.13
  6  2 ms  2 ms  2 ms  10.193.248.180
  7  2 ms  2 ms  2 ms  10.193.248.180
  8  5 ms  5 ms  5 ms  204.148.24.117
  9  7 ms  12 ms  12 ms  104.73.248.101.1008.ALTER.NET [148.222.239.83]
 10  8 ms  8 ms  8 ms  192.206.36.157
 11  12 ms  10 ms  11 ms  192.206.36.157
 12  50 ms  51 ms  53 ms  cp01.vobdc.ip.att.net [112.122.134.150]
 13  50 ms  50 ms  50 ms  cp1.vobdc.ip.att.net [112.122.134.261]
 14  51 ms  51 ms  46 ms  cp2.vobdc.ip.att.net [112.122.134.27]
 15  50 ms  50 ms  64 ms  cp3.vobdc.ip.att.net [112.122.134.212]
 16  50 ms  50 ms  47 ms  vbr1-n04nyv.ip.att.net [112.122.2.11]
 17  64 ms  61 ms  61 ms  cp01.usitx.ip.att.net [112.122.180.118]
 18  72 ms  67 ms  105 ms  vbr1-dltxv.ip.att.net [112.122.139.189]
 19  51 ms  55 ms  42 ms  112.249.54.14
 20  47 ms  46 ms  46 ms  141.198.250.90
 21  49 ms  58 ms  45 ms  141.198.250.92
 22  51 ms  55 ms  52 ms  141.198.8.26
 23  63 ms  49 ms  53 ms  204.67.242.22
 24  68 ms  66 ms  71 ms  204.67.242.22
 25  47 ms  47 ms  47 ms  204.67.241.38
 26  =  =  =  Request timed out.
 27  =  =  =  Request timed out.
 28  =  =  =  Request timed out.
 29  =  =  =  Request timed out.
 30  =  =  =  Request timed out.
Trace complete.
C:\Users\mhf22332>
  
```

Remarks

PURPOSE: To figure out latency with site to site versus cloud exchange paths. Network latency is the term used to indicate any kind of delay that happens in data communication over a network. Network connections in which small delays occur are called low-latency networks whereas network connections which suffer from long delays are called high-latency networks. <https://www.techopedia.com/definition/8553/network-latency>