

LexEVS 6.4 VPN Analysis

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The purpose of this page is to compare the results we found from testing both the site-to-site VPN and the software VPN. To do this, we connected to both VPNs at random times over the course of a week and performed X window forwarding of the Eclipse IDE and a browser window. We recorded the response time it took for multiple tasks to complete including a button click, text entry, window resize, and highlighting a table row.

Site To Site VPN

- How many times tested
 - **Monday**
 - 3:00 PM findings
 - lbGUI(Scott)
resizing limited probably works as below
2 to ten second delay in window resolution
1 second delay in response to button press
3 to 4 second delay to highlight table row
No delay in text entry.
 - 4:50 PM findings
 - lbGUI(Scott)
resizing solved
2 to ten second delay in window resolution
1 second delay in response to button press, radio button activation
3 to 4 second delay to highlight table row
Maybe a bit slower response on the text edit but admittedly usable
 - **Tuesday**
 - 8:50 AM findings
 - Eclipse(Scott)
Startup time about a minute and a half to open the application
Windowing about 2 to 5 seconds.
Starting a new Java Project
2 to 3 second lag on right click to package explorer
10 seconds plus opening java project window
5 second lag entering project name in the text box, not very usable
1 to 2 second lag on opening project
Almost a 20 second lag time opening new class wizard
Similar lag time in text box for class creation of 5 seconds
Crashed on class creation
This version of eclipse is apparently unusable on this kernel version. It keeps crashing. I'll download another version
 - **Wednesday**
 - 2:30 PM findings
 - Eclipse Neon With Java8 (Scott)
1.5 minute startup, but launched differently
5 second delay on right click
3 second wizard startup
text box lag seems to be absent
class editing is still jittery. Irritating, but more usable than delays by seconds we've seen.
Eclipse runs without crashing — so far.
 - **Thursday**
 - 10:30 AM findings
 - Browser (Cory)
• Opened Firefox through X forwarding on DEV (128.231.245.238)
Scrolling and button clicking in the browser was about 1 second lag time
Resizing the screen took about 2, 3, 5 and 10 seconds when trying multiple times
Typing text was 1/2 delay
 - 1PM findings
 - Eclipse Neon With Java8 (Scott)
Startup about 1:30 minutes
Right click response about 5 seconds
Wizard startup about 4 - 6 seconds
1-2 second delays in opening project folders
check boxes have one second delay
Text box entries and Text Editing is jittery but no long delays
 - **Friday**

- Typing text was 1/2 delay
 - 1PM findings
 - Eclipse Neon With Java8 (Scott)
 - 50 second startup
 - slightly faster right click response
 - Wizard response 4 seconds
 - project and other folders open sub second
 - check boxes have one second delay but are sometimes faster here
 - editing is still jittery and about the same as S2S
 - Friday
 - 11:30 AM findings
 - Browser (Cory)
 - Opened Firefox through X forwarding on DEV (ncias-d1224)
 - Scrolling and button clicking in the browser was about 2 second lag time
 - Resizing the screen took about 2 seconds
 - Typing text was < 1/2 delay
 - 4:20 PM findings
 - Eclipse Neon With Java8 (Scott)
 - Startup about a minute 10 seconds
 - Right click response time about 5 seconds
 - Window response about 5 seconds
 - Text box entry is flawless
 - Three seconds response to open folder
 - Check box response is sub second but noticeable
 - Usual jitteriness in the text editor
 - Findings
 - How many times un-usable
 - Eclipse juno crashed consistently. This had more to do with application fault than network issues.
 - Other factors add to overall usability including consistently slow wizard window start up and long delays in right click menus.
 - Jittery text entry is irritating in the java editor, but it's still usable
 - Eclipse neon did not crash.
 - Overall slightly faster than S2S by a second or two in most functions. Much faster startup time for some reason.

Conclusion

Site to Site is slower, more prone to unacceptable time delays and much less flexible than software VPN.