

What is WindX?

PxPlus 2017 (v14) & PxPlus 2018 (v15)

What is WindX?

- Graphical workstation interface
 - Original design was to bring graphical interface to Unix/Linux
 - Goal was to allow both Unix and Windows systems to run consistent graphical applications
 - Connected as a terminal (RS232 and Telnet)
 - Provided Text terminal emulation integrated with graphical controls
 - Enhanced to provide remote file access and processing

WindX is **NOT** a
Window cleaner



Supported Terminal Emulations

- Limited terminal emulations provided
 - Wyse50
 - ANSI, VT100/200
- Designed to allow some native OS processing
 - Allows users to sign-on and run shell commands
- Provided automatic recognition for **'ansi'** terminal type
 - Device driver for TERM=ansi detects WindX
 - Native terminal type is "winterm"

Supported Connection Types

- Multiple methods to connect
 - Terminal (RS232) and Telnet over TCP/IP
 - Native "raw" TCP/IP Used by thin client interfaces
 - NTHost/Slave brought "terminal" style connectivity to Windows NT
 - Application server added security, single port, and structure
 - Simple CS provided single port access and now additional security
 - Native connection much faster than telnet

PxPlus 2016 added SSH

- Ships with 'plink' command (part of the putty terminal emulator)

Accessing Local Resources

- Provides access to workstation for server to



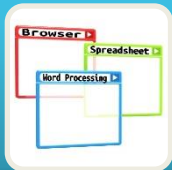
Access Workstation files

Allow file Read, Write, Create and Delete



Route data to workstation printer

Windows spooler and direct device connectivity



Run Windows Application

Server can launch local processes such as Word/Excel



Execute PxPlus logic/programs locally

Server can Execute PxPlus code or call local objects/subroutines

Accessing Local Resources

- Dynamic redirection of request using prefix
 - Prefix file pathname or command with "[WDX]"
 - Forces request to be sent to workstation
 - PxPlus allows "[LCL]" which redirects, if possible
 - Assures resource on Workstation not server

Examples

```
OPEN (nn) "[LCL]C:\User\JohnSmith\data"
```

```
OPEN (nn) "[LCL]*WINPRT*"
```

```
INVOKE "[LCL]notepad"
```

```
myObj = NEW("[LCL]MyObj")
```

```
OPEN CREATE (nn) "[LCL]C:\User\JohnSmith\data"
```

2018

Launching WindX

- Launching WindX to connect manually
 - Based on starting directory of WindX

`C:\...\pxplus.exe windx`

- Launches WindX to display connection options
- Can have `-arg file` to load options from a file

`C:\...\pxplus.exe launcher`

- Allows connection using Telnet, SSH, or any of the native TCP/IP connections
- Load and Save connection options provided

Launching WindX

- Launching WindX with preset connection
 - Starting directory can be anything

```
C:\...\pxplus.exe *plus/cs/client -arg server;port [program]
```

- Connects to Simple CS at 'server' on specified 'port' and runs 'program'
- Add ';secure' following port to specific secure connection using SSL

```
C:\...\pxplus.exe *ntslave -arg server program port [-SSL]
```

- Connects to NTHost as 'server' on specified 'port' and runs 'program'
- Add '-SSL' following port to specific secure connection using SSL

```
C:\...\pxplus.exe *client -arg server port application
```

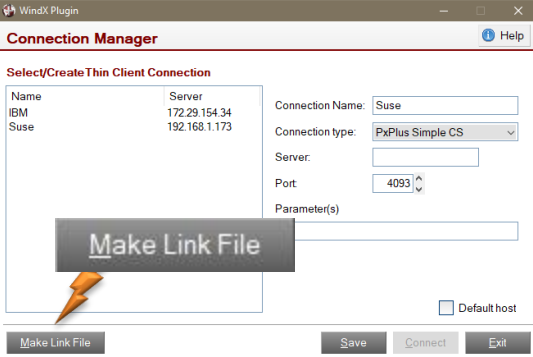
- Connects to Application server as 'server' on specified 'port' and runs 'application'

```
C:\...\pxplus.exe *ssh -arg server port [user] [password]
```

- Connects to specified server using secure SSH connection (port defaults to SSH standard)

WindX Shortcuts

- The ".windx" file suffix "link" file
 - Text file containing program and arguments
 - Allows connections to be easily exchanged
 - Email attachment, web download
 - Will use the most recently installed WindX
 - No need to change links during upgrade
 - Starts connection in the directory where .windx file exists
 - Can create Windows Shortcut for desktop



WindX Connection manager has option to create these link files

WindX Shortcuts

- The ".windx" file suffix examples

```
C:\...\pxplus.exe *plus/cs/client -arg Server1;4093 Menu
```

- .windx file contents:
*plus/cs/client
Server1;4093
Menu

```
C:\...\pxplus.exe *ntslave -arg Server1 Menu 10000
```

- .windx file contents:
*ntslave
Server1
Menu
10000

Additional Resources

The help link(s) below refer to the current on-line help pages. The functionality may have been further updated since the PxPlus 2018 (version 15) release.

- [WindX Overview](#)
- [Thin Client Environment](#)
- [WindX Connection Manager](#)
- [Launching WindX From a Browser](#)