

WindX Security Improvements

PxPlus 2016 (v13)



WindX Security Improvements

- Host access authorization
 - URL access security enhancements
 - Access controls by function
- Support of SSH connection
- Mitigation of “Denial of Service” attacks

- Improved Get File Box format

PxPlus 2014 FP1



DireXions 2016

WindX Security Improvements

- WindX provides the server significant access to the user workstation
 - Applications can take advantage of this to improve the end-user experience
- **BUT**, with great power comes potential danger



WindX Security Improvements

- What have we done to minimize risk
 - Provided warnings for ALL windx://server style connections from sites that have not previously been accepted by user
 - Added warning messages whenever a host attempts to access workstation
 - User can suppress messages



WindX Security Improvements

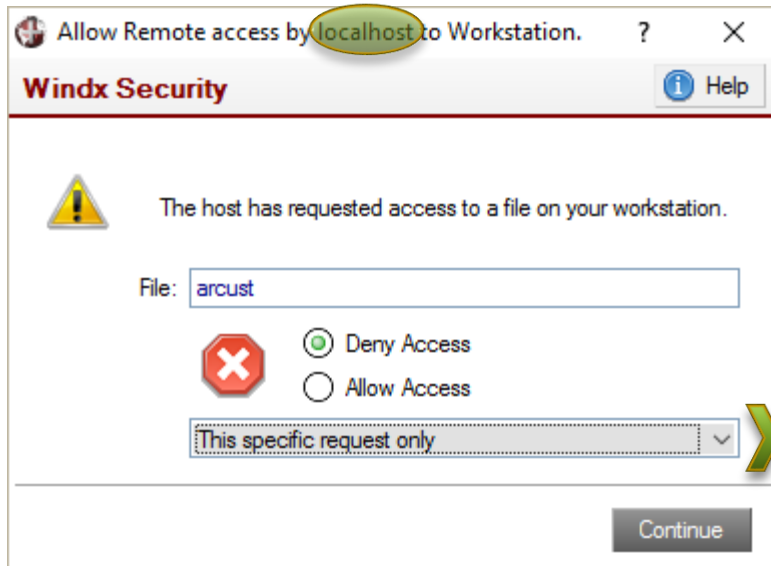
- Conditions flagged and reported to user:

Prompt	Add'l info
The host has requested access to a file on your workstation.	File name
The host wants to create a file on your workstation.	File info
The host would like to delete a file from your workstation.	File name
The host would like to update a file on your workstation.	File name
The host would like to execute application logic on your workstation.	Call/Execute
The host would like to invoke an OS command on your workstation.	Command

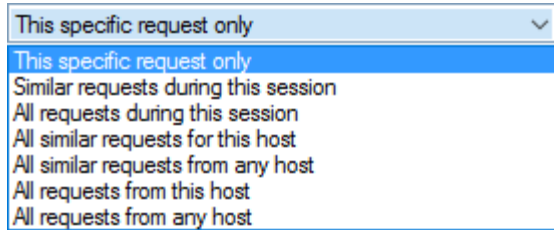


WindX Security Improvements

- Sample warning message sent to user:



Messages are multi-lingual based on Windows language (EN, FR, ES, DE, NL)



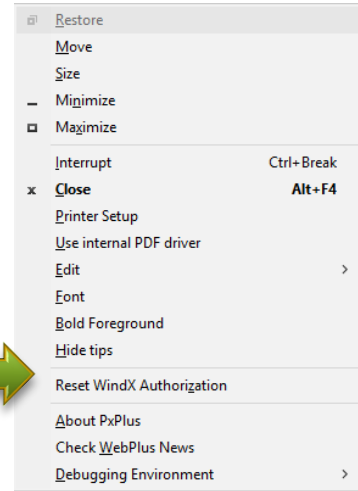
WindX Security Improvements

- Security settings saved on the workstation

- User can reset **ALL** settings by either

- Pressing CTRL-SHIFT-INSERT
- Pressing ALT-SPACE and selecting from the WindX system menu

Reset WindX Authorization



- This will allow the user to reset all their WindX security settings to their initial value



WindX Security Improvements

- First time WindX is run or security is reset, the user is prompted to either Enable or Disable security



- If Disabled no further warnings will be issued nor will security be checked
 - EXCEPTION new windx://server connections



WindX Security Improvements

- WindX now supports SSH connections
 - Industry standard encrypted TELNET-style interface over TCP/IP
 - Default connection method for terminals to Linux/Unix
 - Provides either userid/password or certificate based login security
 - WindX interface based on PUTTY/PLINK utility
 - PLINK included with WindX plugin and PxPlus for Windows



WindX Security Improvements

- Three methods to invoke SSH connection
 - *SSH program:

```
pxplus.exe *ssh -arg host port userid password *
```

- windx:// URL

```
windx://host:ssh:port/args *
```

- WindX connection manager

* *port*, *userid*, and *password* are optional



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 2016 (version 13) release.

- [WindX Security](#)
- [PXP CS OPT Environment Variable](#)
- [WindX Connection Manager](#)
- [PxPlus Simple Client-Server Interface](#)

