### Big Ideas/Key Concepts: Network operating systems, Wide Area Network (WAN) technologies

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<th>Standards</th>
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| Standard 8.0 – Students will examine major network operating systems (NOS), such as Microsoft Windows 2000, 2003, 2008 server, Linux enterprise server, and/or Novell Netware as well peer-to-peer networks using Microsoft Windows XP, Vista, and future operating systems. | I can:  
- Examine the configuration of a client/server NOS and a peer-to-peer OS.  
- Examine the difference between local and global policies  
- Identify the types of user rights offered and how they affect shared resources  
- Analyze Client/Server Directory Services management (e.g., Microsoft Active Directory, Novell NDS) and how they affect logon and security  
- Examine various WAN technologies both wired and wireless and explain the advantages and disadvantages.  
- Evaluate 802.11a/b/g/n standards as they apply to wireless networking  
- Differentiate between broadband WAN technologies (e.g., ADSL, T1, ISDN, ATM, Frame Relay) | Chapters 7 and 9 in *Network+ Guide to Networks*, Dean, Tamara; CENGAGE Learning |

Standard 9.0 – Students will analyze WAN technologies and how networks interconnect over long distances using wireless or satellite communications.