

Customer Service

Our Customer Management Branch offers S6 / IMO / IASO training and other information technology services for official government stakeholders on Joint Base San Antonio. You can reach us at:

Customer Management Branch

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The U.S. Army Signal Network Enterprise Center – JBSA thanks you for your cooperation as we strive to improve services supporting our *Soldiers, Families, and Civilians.*



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Our Mission

Providing Command, Control, Communications, Computers, and Information Management (C4IM) base services which enable battle command readiness supporting Joint, Combined and operational Army mission requirements, worldwide contingencies, and the working environment for thousands of Military, Civilians and Families today and in the future.

Our Vision

To be a customer-focused organization with a highly competent and disciplined workforce, providing excellent technological services by applying only best business practices.

Award Wining NEC of the Year
"Medium Category"

★ Army Level 2011

★ 106th Signal Brigade 2012



JOINT BASE SAN ANTONIO



***802.1x and
Wake-on-LAN
Implementation***

**Joint Base San Antonio - Fort Sam
Houston's
'Information Management Team'**

www.samhouston.army.mil/NEC

What is 802.1x / Wake-on-LAN (WoL)?

802.1X provides an authentication mechanism to devices wishing to connect to a Local Area Network (LAN) or Wide Area Network (WAN). It is the IEEE standard for port-based Network Access Control which enables restricted use of IEEE 802 LAN service access ports in order to secure communication between authenticated and authorized devices on the network.

WoL is an Ethernet computer networking standard that allows a computer to be turned on or awakened by a network message usually sent by a program executed on the same LAN. Other terms associated with WoL include remote wake-up, power on by LAN, power up by LAN, resume by LAN, resume on LAN, and wake up on LAN.

Why implement?

Security and flexibility are Joint Base San Antonio – Fort Sam Houston requirements to which both are equally as important and critical components when implementing 802.1x and WoL. From a cyber-security

perspective, security is crucial on any network. Flexibility is provided in the form of “roaming.” Therefore, Ethernet networks such as this complex Army network enterprise infrastructure needs an authentication method that is secure and not tied to a port’s physical location.

Benefits

802.1x:

- Rapidly becoming an expected component of any network infrastructure.
- User authentication resolves multiple requirements and relatively uncomplicated and has very little impact on network performance.
- It is a protocol that is medium-independent – highly effective when applied on wired connections.

WOL:

- Transparent to computer users.
- Remotely power up sleeping computer workstation so they can receive network security patches/updates.
- Allows administrators to perform maintenance on systems even if the user has powered them down.

Cost Savings

802.1x savings can be apparent from the annual reduction of technical and or customer productivity loss while WoL will represent energy conservation savings for computer systems.

End State

Our goal is to be a partner in this process to set the model of compliance within the spirit of environmental and resource conservation law and regulations. To provide overall device mobility for **stronger security, user and device authentication** along with associated cost saving in the form of **minimizing downtime** and **energy consumption**.

