



**Voice over IP Telephony**

**Request for Proposal**

**Clarifications and Amendments**

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Following the pre-bid conference held August 28<sup>th</sup> 2008 at the NOC building Tsaile campus the following clarifications and amendments are issued.

## **Clarifications**

### ***Bid submissions***

1. Please note that FedEx overnight is hardly ever overnight on the Navajo Nation.

### ***Existing plant and systems***

1. Four diagrams were distributed and are available for download from:  
<http://www.dinecollege.edu/current/it-rfp.php>
2. The wireless between Shiprock North (Old) and Shiprock South (New) is built with dual Redline AN50e 54Mbps links.
3. Voice QoS is set up on the link using priority queues.
4. The PSTN connection at Shiprock North campus is currently 8 inbound and 8 outbound analog ground start lines. This will change to an ISDN/T1 line.
5. Tsaile campus currently uses a non-ISDN T1 connection to the PSTN and will change to an ISDN T1.
6. The College uses B1 business lines at each of the campuses/centers.
7. The College uses DID numbers at Tsaile and Shiprock campuses.
8. Please note that Tsaile campus has OPX lines to adjacent housing, maximum length less than 10,000ft.
9. Router details:
  - a. The core Router at Tsaile campus must have interfaces for eight (8) T1 lines for the college WAN, and at least two (2) Ethernet interfaces for a LAN connection and Internet through a Cisco firewall.
  - b. The Shiprock Router must have two (2) T1 line interfaces for connection to Tsaile, and at least two Ethernet interfaces for a LAN connection and Internet through a Cisco firewall.

- c. The six (6) center Routers must have one (1) T1 line interface for connection to Tsaille campus and two (2) Ethernet interfaces for LAN connection.

## **Amendments**

1. All QoS settings will be reviewed by the vendor and changed to optimize for VoIP, keeping in mind the College's video applications and other needs. All QoS configurations will be consistent across campuses and thoroughly documented.
2. IOS will be upgraded by vendor as needed.
3. An inventory of all existing equipment will be provided to allow the bidder to estimate man-hours needed for reconfiguration.
4. The vendor will review UPS run time as it applies to IDFs involved in the VoIP deployment and make necessary recommendations.
5. In most cases personal computers will be connected to the LAN via the IP Phone. All configurations and equipment must be compatible with PEAP-based 802.1X using Active Directory for both Mac OSX and Windows XP and Vista computers.
6. Please quote Emergency Responder as an option.
7. Some redesign will be needed at the 6 community centers to leverage the layer-3 capabilities of the 3560 Cisco Switches already in place.
8. Please note that the Cisco Call Manager/Unity at Shiprock campus could be upgraded or replaced. Please specify your recommended option.