



Intro

- Enterprise WLAN needs enhanced functionality to deliver voice
- VoWLAN requirements interact, and can demand compromise

Bullet 1: Five Key Areas

- Because of the expectations set by traditional voice solutions, any replacement technology must meet or exceed requirements in order to be considered
- Delivering voice on a data-oriented network demands enhanced functionality to meet these requirements
 - Quality of Service:** Can the WLAN adequately handle the unique requirements of voice?
 - Security:** Does the WLAN ensure that only authorized users can access it, and that voice calls are confidential?
 - Mobility:** Can voice sessions maintain quality as users move across the enterprise in a manner that is both transparent (fast) and secure?
 - Security:** Is overall network security compromised or does this solution create vulnerabilities which cannot be reasonably addressed?
 - High Availability:** Will users always be able to get a dial tone, even in the event of failures or extended usage?
 - TCO:** Will the VoWLAN solution easily integrate into an existing network environment to minimize ongoing operating costs and leverage existing capital investments? Will convergence of voice and data yield TCO advantages over maintaining two separate infrastructures?

•These items represent the key areas of concern that any manager must consider when deploying voice over a WLAN infrastructure

Bullet 2: Tradeoffs and Interdependencies

- In an ideal world, wireless LANs would be able to deliver voice with the highest level of quality, security, mobility, and reliability, all in a cost-effective manner
- However, the reality is that there are a number of interdependencies between these elements, meaning that excellence in one area may require tradeoffs in another.
- An example of a tradeoff: deciding to implement an air-tight security solution may mean having to accept lower call quality or higher latency times; in the event that a manager was unwilling to compromise on any of these areas, they could compensate by spending more on infrastructure, but this would come at the price of a higher TCO.