

## WIRELESS ACCESS POINTS TECHNICAL SPECIFICATIONS

### GENERAL OVERVIEW

The AZNet II managed WIFI solution is an optional service offered to provide WIFI connectivity which releases the user from a dedicated hardwired connection offering mobility. A user on WIFI therefore has the ability to work and access the Network resource wherever WIFI is installed and available for the customer, therefore becoming increasing mobile. The optional services as a standard is configured with two SSIDs per access point (public & private).

### TECHNICAL OVERVIEW

The AZNet II managed WIFI solution platform consists of three (3) licensed based centralized Cisco 5508 controllers, which provide redundancy. The Cisco 5508 controllers are optimized for high-performance wireless networks, offering improved mobility and prepare the business for the next wave of mobile devices and applications. The 5508 controllers support a higher density of clients and deliver more efficient roaming with at least nine times the throughput of existing 802.11a/g networks. The 5508 Controllers automates wireless configuration and management functions and allows AZNet II network managers to have the visibility and controls needed to cost-effectively manage, secure and optimize the performance of the wireless networks.

- AZNet II currently deploys Cisco 3502I access points. User transition is seamless from access point to access point.
- Wireless standard such as IEEE 802.11a, 802.11b, 802.11g, 80d.11d, 802.11ac to name a few are all supported.
- Cisco 3502KI access points transmit at a distance of 300ft
- Standard QoS is applied on each access point. Cisco recommends no more than 20-25 users per access point.

### SECURITY OVERVIEW

- Wireless transmission is encrypted between the client and the AP.
- Offers control and provisioning for wireless access points (CAPWAP) – compliant DTLS encryption to help ensure full-line-rate encryption between access points and controllers across remote WAN/LAN Links.

On the Copper Wireless Network, State of Arizona through ADOA security blocks and restricts websites per their Websense filtering product. Inappropriate or NSFW (Not Safe for Work) are blocked via ADOA Websense filtering product.

The following security standards are supported (These are only a small sampling):

• WPA	• IEEE 802.11i (WPA2, RSN)	• MD5	• IKE
• TLS	• IPSec	• ISAKMP	

AZNet II WIFI solution also supports IEEE 802.1x (Radius authentication), PPT EAP-TLS, and RADIUS Tunnel Accounting to name a few.

For information on how to request AZNet II – Optional Wireless Services and the infrastructure requirements, please refer to <https://aset.az.gov/aznet-ii-arizona-network>.

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### BACKGROUND

In accordance with Arizona Revised Statutes § 41-712, the Arizona Department of Administration (ADOA) was tasked to establish and oversee a statewide contract for telecommunication services and equipment, known as AZNet-Arizona Network. Within ADOA, the Enterprise Infrastructure and Communication (EIC) team is responsible for contract oversight and vendor management.

The State of Arizona is currently contracted with CenturyLink, AZNet II, to provide these managed services. To view the complete AZNet II contract, visit [procure.az.gov](http://procure.az.gov).