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## BTS-2.10 - Wireless 802.11 Networks

Administrative Rules Adopted by Bureaus Pursuant to Rule Making Authority (ARB)

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Keywords

Policy number: BTS-2.10

### WIRELESS 802.11 NETWORKS

*Administrative Rule Adopted by Office of Management and Finance Pursuant to Rule-Making Authority*

ARB-BTS-2.10

### HISTORY

Authorized by Ordinance No. 179999 passed by Council March 15, 2006 and effective April 14, 2006.

Revised rule adopted by Chief Administrative Officer of Office of Management and Finance and filed for inclusion in PPD April 17, 2012.

Revised rule adopted by Chief Technology Officer November 15, 2013.

Revised rule adopted by the Chief Administrative Officer of the Office of Management and Finance and filed for inclusion in PPD October 29, 2015.

This rule was reviewed as part of a periodic review and remains unchanged. July 13, 2017.

This rule was reviewed as part of a periodic review. April 30, 2018.

Revised by Chief Technology Officer October 10, 2018.

### Related documents

 [BTS-2.10 Wireless 802.11 Networks Administrative Rule](#) (14.51 Kb)

## **BTS-2.10 - Wireless 802.11 Networks**

### **WIRELESS 802.11 NETWORKS**

*Administrative Rule Adopted by Office of Management and Finance Pursuant to Rule-Making Authority  
ARC-BTS-2.10*

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#### **Purpose**

This policy prohibits access to City networks via unsecured wireless communication mechanisms. Only wireless systems that meet the criteria of this policy or those which have been granted an exclusive waiver by the Chief Technology Officer (CTO) or the Chief Information Security Officer (CISO) are approved for connectivity to the City's networks.

This policy covers all 802.11 wireless data communication devices (e.g., personal computers, laptops, notebooks, smartphones, tablet computers, etc.) which connect to any of the City's networks, resources, or systems.

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#### **Administrative Rule**

**Register Wireless Devices:** All wireless devices (Access Points, Base Stations and Network Interface Cards) connected to the City network must be approved, registered, installed and maintained by the Bureau of Technology Services (BTS).

**Encryption and Authentication:** To connect to the City network, all networking devices with wireless capabilities must utilize a City approved configuration which prohibits all unauthenticated and unencrypted traffic. To comply with this policy, wireless implementations must maintain point-to-point hardware encryption of at least 128- bits. All implementations must support a hardware address (MAC address) that can be registered and tracked. All wireless implementations must support and employ strong user authentication which checks against a BTS approved and managed RADIUS database and support 802.1x authentication.

**Setting the SSID:** All wireless access points shall have their Service Set ID configured so that it does not contain the default supplied by the manufacturer.

**Penetration Tests and Audits:** Wireless Access Points & Base Stations are subject to periodic penetration tests and audits. Unapproved wireless access points are subject to immediate network disconnection and equipment confiscation.

Default wireless manufacturer or vendor settings must be changed, including but not limited to default wireless encryption keys, passwords and SNMP community strings.

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