

University of Manitoba
Information Services and Technology
Wireless Networking Hardware and Technical Requirements

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Purpose:

This document is intended to assist the deployment of wireless networking technology on the University of Manitoba campus. It is intended as a follow-up to the Information Services and Technology (IST) **Standards for Wireless Networks** <http://www.umanitoba.ca/campus/acn/reports/wireless.shtml> document and the **Wireless Networking Procedures** located at <http://www.umanitoba.ca/acn/networking/wireless-guidelines.pdf>. The objective is to ensure interoperability, reliability and security to the wireless network service while protecting the University's information resources and electronic communications. The inherent nature of the wireless technology requires cooperation and coordination between departments and faculties to facilitate deployment in different buildings and prevent possible radio frequency spectrum interference or network impairments.

Hardware:

- Cisco Aironet 1200 Series Access Point® supporting 802.11b and 802.11g
- Cisco 2.4 GHz antennas as specified in the wireless site survey (see below)
- Cisco Catalyst 35xx series, 24 Ethernet 10/100 ports with in-line power (prefer 802.3af PoE) and 2 small form-factor pluggable (SFP) or GBIC ports.
- Wireless 802.11b or 802.11g client card (dependant on wireless network standard 802.11b or 802.11g, client's workstation and level of encryption required)

Software:

- client software drivers etc. to support client card
- Alfa+Ariss client to support EAP-TTLS (*presently only supported by some client cards)

ACN will work with faculties and departments to arrange a formal wireless site survey and the configuration of the wireless access points on a fee basis. The University of Manitoba wireless network is physically separate from the wired Campus network. The wireless network users will be required to authenticate with a valid "cc" account and password. Connection details are provided at <http://www.umanitoba.ca/acn/networking/>

For more current and detailed information, please contact Doug Dennis at 474-8290 or dennis@cc.umanitoba.ca