



Software Tools

Wardriving Software

□ Kismet:

- <http://www.kismetwireless.net/>

□ Netstumbler:

- <http://www.netstumbler.com/>

Site Survey Software

□ Ekahau *HeatMapper*:

- <http://www.ekahau.com/products/heatmapper/overview.html>

□ Meraki *WiFi Mapper*:

- <http://www.meraki.com/products/wireless/wifi-mapper>

□ TamoSoft *TamoGraph*:

- http://www.tamos.com/products/wifi-site-survey/wireless.php?r1=google&r2=awd_tg

□ AirMagnet Survey:

- <http://www.flukenetworks.com/enterprise-network/wireless-network/AirMagnet-Survey>

Site Survey Software (Free & Trial)

- Ekahau *HeatMapper Free*:
 - <https://dl.dropbox.com/u/24519064/Ekaha-Heatmapper-Setup.exe>
- Ekahau Site Survey Trial:
 - <https://dl.dropbox.com/u/24519064/Ekahau-SiteSurvey-Setup.exe>
 - Quick Start Guide:
 - <https://dl.dropbox.com/u/24519064/ESS-Quick-Guide.pdf>
- Netspot Survey for MACOSX (free):
 - <http://www.netspotapp.com>

Site Planning Software

□ Aerohive:

- <http://www.aerohive.com/planner>

□ AirTight Planner:

- <http://www.airtightnetworks.com/home/products/airtight-planner.html>

□ AirMagnet Planner:

- <http://www.flukenetworks.com/enterprise-network/wireless-network/AirMagnet-Planner>

□ TamoGraph Site Survey (30 days trial):

- <http://www.tamos.com/download/main/>

Site Planning with Cisco WCS

- WCS URL

 - <https://wcs.unitn.it>

- Login credentials (4 groups):

...

Site Planning with Cisco WCS

- Go to Monitor->Maps
- Select the desired Floor from the list
- Select “Planning Mode...” from the upper right selection menu

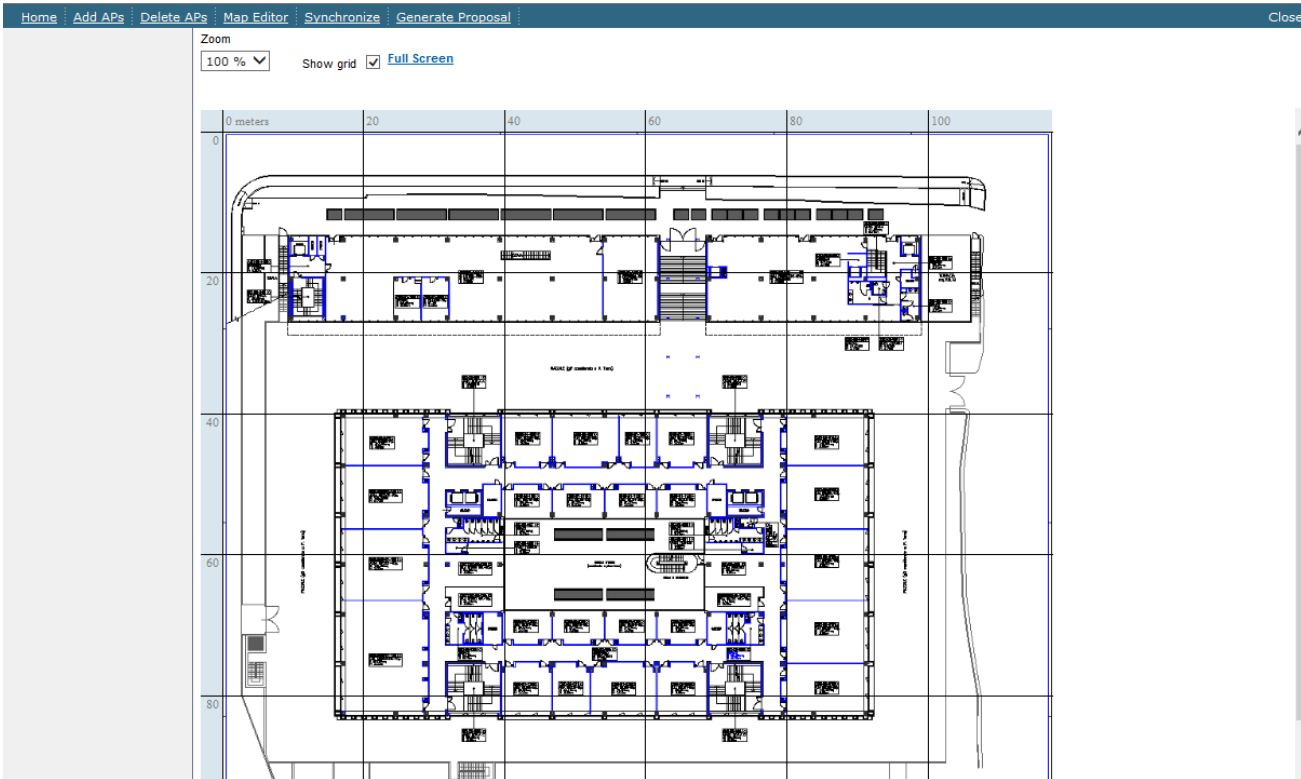
The screenshot displays the Cisco Wireless Control System (WCS) interface. At the top, there is a navigation bar with the Cisco logo on the left and the text "Wireless Control System" on the right. Below the navigation bar, there is a menu with options: Monitor, Reports, Configure, Administration, Tools, and Help. The main content area is titled "Floor View" and shows the path: Monitor > Maps > Trento Collina > Povo1 > Piano Primo. A warning message states: "Data may be delayed up to 15 minutes or more depending on background polling interval". Below this, there is a control panel with a "Zoom" slider set to 100%, a signal strength indicator, and an "Auto Refresh" dropdown set to 5 min. At the bottom, there is a scale bar from 0 to 100 meters. On the right side of the interface, there is a search bar and a "Planning Mode..." dropdown menu with a "Go" button next to it.

- Click “Go”

Site Planning with Cisco WCS

□ You are in planning mode !

Planning Mode Maps > Wifi Lab > Povo1 Group 1 > Floor 1



□ Click on "Add Aps" to begin planning

Site Planning with Cisco WCS

□ You are in planning mode !

Planning Mode Maps > Wifi Lab > Povo1 Group 1 > Floor 1

Cancel

Add APs

Name Prefix

Add APs

AP Type

Enable 11n Support

802.11a/n Antenna

802.11b/g/n Antenna

Protocol

Throughput (MB/s)
802.11a/n
802.11b/g/n

Services: Advanced Options

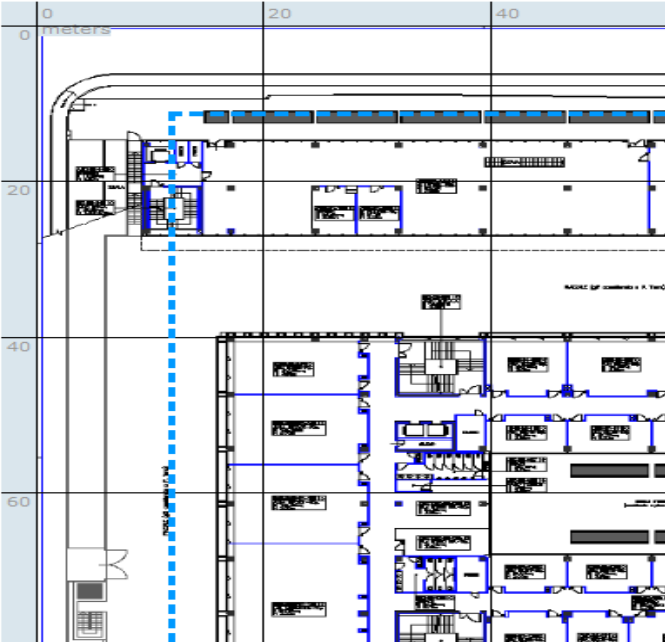
Data/Coverage
 Voice
 Location
 Location with Monitor Mode APs

Total Coverage Area 8335.6 (sq meters)

Recommended AP Count:
Data/Coverage
Voice
Location
Location with Monitor Mode APs
Demand
Override Coverage Per AP

Floor Type: [Cubes And Walled Offices](#)

Add APs Automatically:
Resize and move the rectangle using mouse and SHIFT key and specify placement criteria. Click "Calculate" to determine recommended by WCS. If you are satisfied with the result, p created and automatically positioned on the map.



The diagram shows a floor plan with a grid overlay. The grid has horizontal lines at 0, 20, 40, and 60 meters. A blue dashed rectangle is drawn on the plan, indicating the area where APs are being added automatically. The floor plan includes various rooms, corridors, and a staircase. The text 'MODE OF INTERIOR A Two' is visible on the right side of the plan.

□ Select Automatic/Manual, AP Type, other parameters and start planning

Site Planning with Cisco WCS

- When finished, click on “Generate Proposal”

Planning Mode [Maps](#) > [Wifi Lab](#) > [Povo1 Group 1](#) > [Floor 1](#)

[Home](#) | [Add APs](#) | [Delete APs](#) | [Map Editor](#) | [Synchronize](#) | [Generate Proposal](#) |

- And Save your planning in PDF

Site Planning with Cisco WCS

- Survey reports using WCS:
 - <http://www.petri.co.il/generating-site-survey-reports-using-cisco-wcs.htm>
- Wireless Site Survey FAQ
 - http://www.cisco.com/en/US/tech/tk722/tk809/technologies_q_and_a_item09186a00805e9a96.shtml#qa1
- Site Survey and RF Design Validation
 - http://www.cisco.com/en/US/docs/wireless/technology/vowlan/troubleshooting/8_Site_Survey_RF_Design_Valid.html

Antenna Portfolio (Cisco)

- http://www.cisco.com/en/US/prod/collateral/wireless/ps7183/ps469/product_data_sheet09186a008008883b.html