

## Why should I care about land management?

Land management covers a range of services and responsibilities managed by state and local government departments and agencies. Municipal assets such as land, natural resources, buildings, and public facilities are monitored to manage growth and enhance the livability of communities.

These departments usually include staff members that conduct inspections and gather data in the field. While in the field, they typically don't have access to their department's databases and applications, and thus have to return to their offices to accomplish paper work and conduct calls.

Mobile and automated land management solutions can help to streamline the inspection and approval process, allowing government inspectors to work more efficiently in the field, reduce travel time, expedite inspection processing, and eliminate duplicate or erroneous data entry. Cisco Outdoor Wireless Solutions can give mobile field workers access to all the information and applications that are available typically in the office. The solution enables mobile employees to easily enter and retrieve data in real time, verify activities, check an application status, and access necessary information to conduct their business most efficiently.

## Cisco Wireless Mesh Network for Land Management

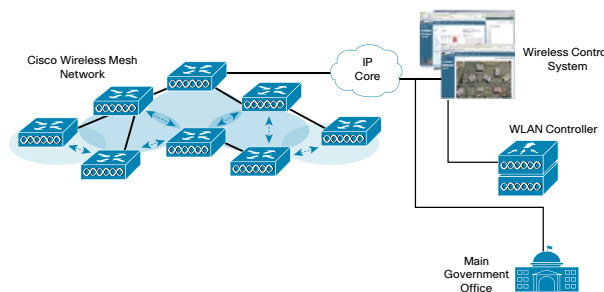
With a Cisco Wireless Mesh Network, you can deploy a small, cost-effective wireless mesh network to connect field workers with applications and information. As use of the network grows, the solution can be easily expanded by simply adding more access points in the field.

The Cisco Wireless Mesh Network provides a wireless infrastructure that extends your office to the field by offering the same level of security, manageability and reliability. It is based on the Cisco Aironet® 1500 Series of outdoor Wi-Fi mesh access points, which can be mounted on power poles, streetlights, or buildings to cover a wide area.

The Cisco Wireless Mesh Network offers the following main benefits:

- **Self-configuring:** The solution supports zero-touch configuration deployment; access points discover each other automatically and select the best path for maximizing system capacity and minimizing latency by using intelligent wireless routing.
- **Self-healing:** The Cisco Wireless Mesh Network is resilient and self-healing for interference or outages, and dynamically re-optimizes when new sectors are added.
- **End-to-end security:** The network is designed for secure outdoor Wi-Fi, compliant with Wi-Fi Protected Access 2 (WPA2), and employ hardware-based Advanced Encryption Standard (AES) encryption between wireless nodes.
- **Ease of deployment and centralized management:**
  - Cisco wireless LAN controllers and the Cisco Wireless Control System (WCS) enable centralized network management
  - The solution is based on Lightweight Access Point Protocol (LWAPP)
  - Cisco's new Adaptive Wireless Path Protocol (AWPP)

**Figure 1: Cisco Outdoor Wireless Solution for Land Management**



## What are the benefits of a land management solution?

Governments today are looking for ways to increase the efficiency of their employees, find additional revenue sources, and improve citizen satisfaction. A Cisco Outdoor Wireless Solution can help reduce the travel time for field workers and accelerate the processing of paperwork and the response time for citizen applications.

### Benefits of a land management solution with the Cisco Wireless Mesh Network include:

**Increased employee productivity:** Inspection management is available from the vehicle. This reduces driving time back to the office, facilitates schedule changes, and gives public workers quick access to inspection forms.

**Improved response time:** Portable mobile printers allow inspectors and superintendents to print approvals, correction notices, permits, and reports onsite. Agency customers can obtain the approvals or directions they need.

**Accelerated revenue collection:** A more efficient work process with shorter response times accelerates an agency's ability to collect revenue and improve forecasting and budgeting.

**Easy to use, secure, anytime access:** With a Cisco Outdoor Wireless Solution, a government employee can easily and efficiently accomplish most office tasks from the road.

For more information on Cisco Outdoor Wireless Solutions, visit: <http://www.cisco.com/go/outdoorwireless>