

# LANCOM Reference Projects

## Outdoor wireless LAN in scout camps



### Client/Project

The Dutch scouting organization **Scouting Nederland**, celebrated its Centenary Jubilee by holding Europe's largest scout camp with 13,000 attendees. The wireless network designed especially for the event was used for more than just administrative purposes such as food ordering. The WLAN was also used to update the JubJam100 web site and to upload the video clips from ScoutTV. The scouts themselves could also conduct their own Internet activities (e.g. Facebook, etc.) at an Internet café and by wireless hotspot.

### Idea / Requirements

- **Wireless LAN** over the whole camp (60 hectares)
- Network to be used for **various services**: Logistics, Internet radio, video streaming, hotspot
- **High availability** even with poor weather conditions
- Easy management and **maximum security**

### Solution

- Setup of a WLAN with **12 dual-radio outdoor access points** (mast mounted)
- 1st radio module for the **backbone (5 GHz)**
- **WLAN distribution** over the 2nd radio module (2.4 GHz)
- Separation into **logical networks**: Logistics, hotspot, etc.
- Central management by a **wireless LAN controller**

### Advantages

- **Optimization of the overall camp logistics** (including food ordering for 13,000 scouts)
- **Video and radio streaming** from all central locations (radio and TV station on camp), updates to the web site
- **WLAN Internet hotspot** for the scouts
- All **services operate on the same infrastructure**
- Network virtualization provides **maximum security**



### Infrastructure

12x LANCOM outdoor access points  
1x LANCOM WLAN controller

