

# Spectrum and airtime inventory

QoS decides who waits in line; separation decides who is in the line at all, so count everything on the air first.

One row per radio or traffic class on the channel

| System | Owner | Band and channel | Width | Traffic, direction, rate | Criticality | Priority (marking) | Delay tolerance | Schedule |
|--------|-------|------------------|-------|--------------------------|-------------|--------------------|-----------------|----------|
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## Before you trust the inventory

- ☐ Add what never joins your network: car head units, phones, hotspots, Bluetooth, microwave ovens.
- ☐ List cameras and instrument networks with their owners, bands, and channels.
- ☐ Per flow: how fast data changes, how much, delay tolerance, and criticality.
- ☐ Count SSIDs per radio. Each beacons on its own at the lowest basic rate.
- ☐ Check marking with a capture on both sides of the access point, not a configuration screen.
- ☐ Flag every row where a bulk class shares a channel with a control class.
- ☐ Move updates, map pushes, and log uploads into windows outside production.
- ☐ Above 60% channel use, one AMR maker reports latency and packet loss.