NETWORK DOCUMENTATION

Standard network setup

A practical reference for installation teams and customer IT. Router-based management, dedicated camera networks and optional 4G connectivity.

SCOPE

Standard AIS rack with a Teltonika RUT901 router, internal camera switch, Rosepetal Controller, Panel PC and four cameras. The camera addressing shown is the reference scheme.

IN THIS DOCUMENT

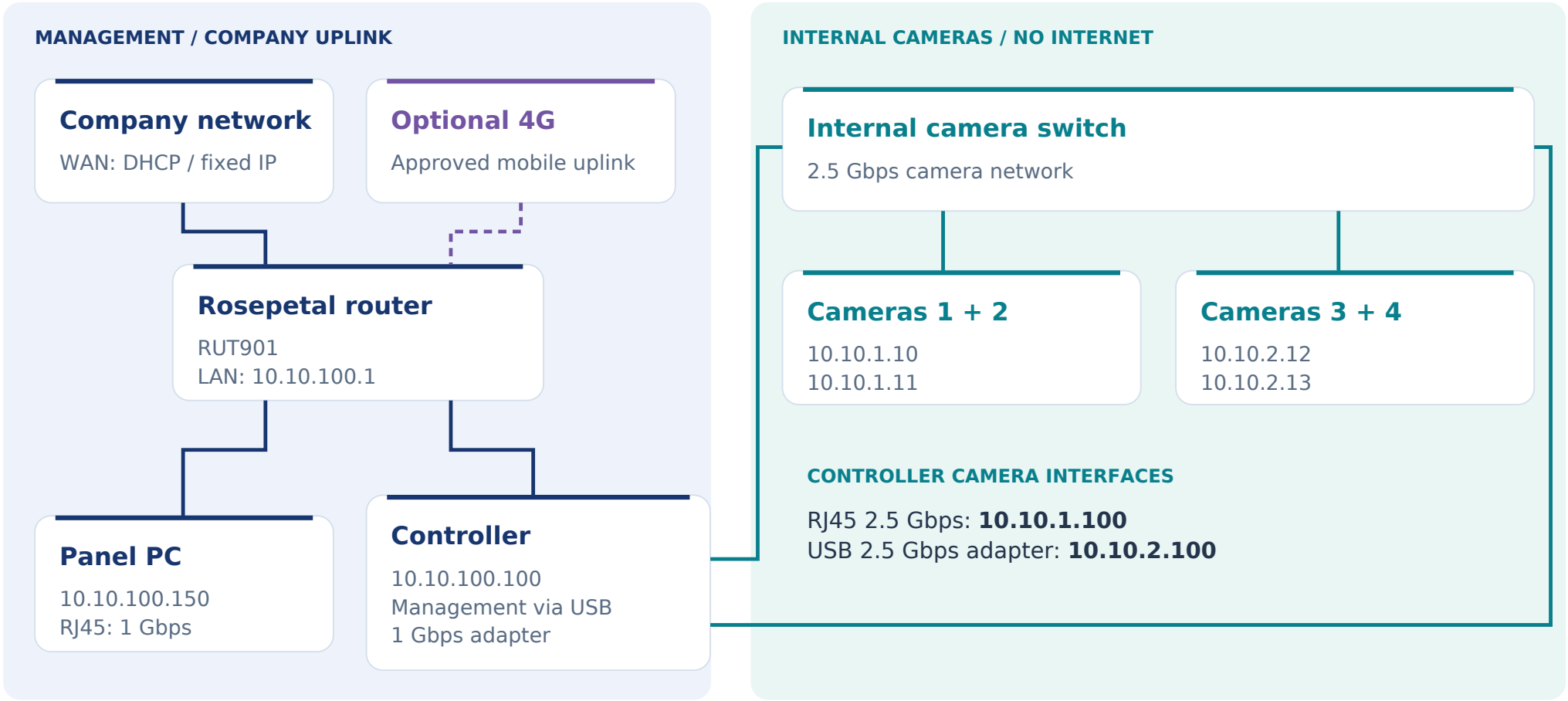
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01 / PHYSICAL NETWORK

Standard network topology

A separate management connection and two 2.5 Gbps camera interfaces on the Controller.



The Controller is the only device in both scopes. Keep the camera networks off the company LAN and the internet.

02 / CONFIGURATION

Addressing and installation

Reference configuration for the standard router-based layout.

Equipment	Interface / connection	Reference IP
Router	WAN - RJ45 1 Gbps; DHCP or fixed IP	Client-defined
Router	LAN	10.10.100.1
Panel PC	RJ45 1 Gbps to router	10.10.100.150
Controller	USB 1 Gbps adapter to router	10.10.100.100
Controller	RJ45 2.5 Gbps to internal switch	10.10.1.100
Controller	USB 2.5 Gbps adapter to internal switch	10.10.2.100
Cameras 1 / 2	Internal camera switch	10.10.1.10 / 10.10.1.11
Cameras 3 / 4	Internal camera switch	10.10.2.12 / 10.10.2.13

INSTALLATION CRITERIA

Segmentation. Keep management (10.10.100.x) separate from the camera networks (10.10.1.x and 10.10.2.x). Do not bridge or route cameras onto the company LAN.

Uplink. Agree DHCP or fixed WAN settings with IT. Check for overlapping company routes. Optional 4G commissioning requires site approval, coverage and an active data plan.

Remote-access firewall requirements: read the companion standard guide