



VLAN ID	Service Name	IP Address Range	Main Gateway	Purpose
1	Internet Entry	10.45.1.x	0.1	The ISP connection and Site Firewalls.
2	Office & Staff	10.45.2.x	0.2	Staff PCs, Laptops, and Office Printers.
3	Staff Radio	10.45.3.x	0.2	Digital radio base stations for site comms.
4	Power & Charging	10.45.4.x	0.2	EV Chargers (Slow/Fast), UPS, and Meters.
5	Tech Bench	10.45.5.x	0.2	Testing area for new equipment/diagnostics.
6	Core Servers	10.45.6.x	0.2	DNS, Domain Controllers, and Databases.
7	Telephony	10.45.7.x	0.2	VoIP Office Phones and Intercoms.
8	Building HVAC	10.45.8.x	0.2	Air Conditioning and Heating Controllers.
9	Data Storage	10.45.9.x	0.2	Central File Storage and Backup Drives.
10	Net Management	10.45.10.x	0.2	Monitoring tools for the IT Team.
11	CCTV Security	10.45.11.x	0.2	All Security Cameras and Video Recorders.
12	Hardware Mgmt	10.45.12.x	0.2	"Back door" access (iDRAC/iLO) for Servers.
13	Wireless Wi-Fi	10.45.13.x	0.2	All Wireless Access Points (APs).
15	Core Routing	10.45.15.x	N/A	The "Brain" (Router A & B) of the site.
16	Fiber Backbone	10.45.16.0/24	N/A	The high-speed links between buildings.
998	Payment Chat	192.168.45.x	None	Secure, isolated lane for POS Terminals.
999	Safety Parking	None	None	A "dead-end" for unauthorized plugs.
1000	Blackhole	172.30.0.x	None	Discarded traffic for maximum security.

Notes:

In the Forecourt Building, the Campus Distributor (CD-01) is the "brain" of that specific building.

We reserve the lower numbers (10.45.11.1 to 10.45.11.99) for the "Core" security equipment.

In the Forecourt, typically have 2 to 3 APs to cover the shop floor and the seating area.

In the Forecourt Building, we follow a hierarchical "nesting" logic. The CD (Campus Distributor) manages the whole building, the BD (Building Distributor) links the floors together, and the FDs (Floor Distributors) provide the final ports for your devices.

Unlike other devices, the POS (Till Terminal) system uses a specific IP range (192.168.45.x) that is non-routing. We use this "Non-Routing" range specifically for the Forecourt so that the payment traffic is completely invisible to the rest of the site's 10.45.x.x network.