

NEWBRIDGE CMC

Centralised Management Central – Wi-Fi, Identity, Guest Access and Edge Services



WI-FI

IDENTITY

EDGE

Every Newbridge module on one licence – Network Controller for Wi-Fi, RADIUS for authentication, Captive Portal for guest access, and On-Premise services at the edge. Cloud or on-premise, with an optional Gateway appliance.

4

MODULES, ONE LICENCE

27

REPORT TEMPLATES

Cloud

OR ON-PREMISE

COMPLETE MODULE SET

- Network Controller, RADIUS, Captive Portal and On-Premise on one licence
- One console, one identity directory, one audit trail
- 27 report templates across access points, RADIUS and captive portal

WI-FI MANAGEMENT

- Zero-touch provisioning and automated rolling firmware upgrades
- Live Link telemetry and remote command from anywhere
- Floor plans, AP templates, and bulk radio configuration

IDENTITY & GUEST ACCESS

- Permanent users, vouchers, BYOD devices and social logins
- Policy profiles binding bandwidth, quota and session limits
- Branded captive portals with surveys and advertisement campaigns

EDGE SERVICES

- Optional on-premise Gateway appliance
- Firewall, DHCP server, DNS forwarder, hotspot and web server
- Internet load balancing and NAT firewalling

INTRODUCTION

Newbridge CMC enables the platform's complete module set. It is the same console as Newbridge Controller and Newbridge IAM, with every module switched on: access-point management, AAA, guest onboarding, and the on-premise services that run at the network edge.

One licence, one console, one audit trail. The access point a user associates with, the identity that authenticated them, the portal that onboarded them and the policy that shaped their session are all administered and reported from the same place.

Run it as a cloud subscription, or on-premise on a Newbridge controller appliance. Add the optional Gateway appliance when the deployment needs firewall, DHCP, DNS forwarding, hotspot and web services inside the building.

Where a deployment needs only Wi-Fi management, **Newbridge Controller** is the right product. Where it needs only identity and guest access, that is **Newbridge IAM**. CMC is for the deployments that need both, and the edge services besides.

ADVANTAGES

Wi-Fi, identity and edge services are usually three products from three vendors, each with its own console and its own idea of what happened. CMC makes them one.

One licence, every module

Network Controller, RADIUS and Captive Portal on one licence, plus On-Premise wherever a Gateway is deployed. Nothing to reconcile.

One audit trail

The AP, the identity, the portal and the policy that shaped a session are reported from the same console, over the same retention window.

Deploy it your way

The same console and feature set as a cloud subscription or an on-premise appliance. A deployment choice, not a feature trade.

Edge services, optionally

Add the Gateway appliance on-premise for firewall, DHCP, DNS forwarding, hotspot and web services at the network edge.

User traffic stays local

Split-plane architecture sends only management and accounting data to the control plane. Client traffic never leaves the site.

Rollouts in minutes

Zero-touch provisioning: connect the device, register its serial and MAC, and it pulls its own configuration. No on-site engineer.

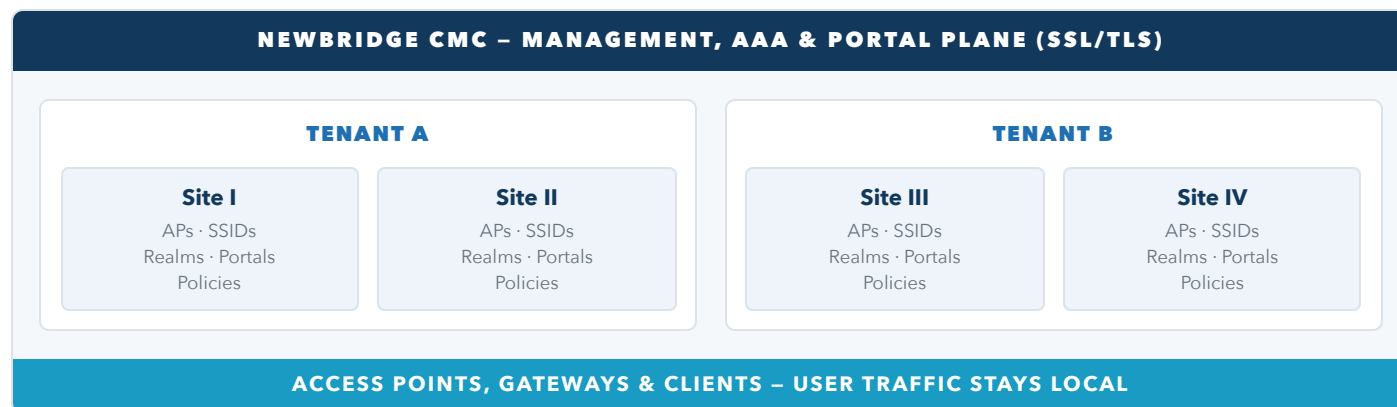
Evidence, not guesswork

27 report templates – 11 for access points, 9 for RADIUS, 7 for captive portal – on demand or on a schedule.

One pane, many tenants

Isolated sites and realms inside a single account, with role-based permissions assigned per cloud or per site.

ARCHITECTURE



Each tenant is isolated. Only management and accounting data reaches the control plane; user traffic stays local.

FOUR MODULES, ONE LICENCE

CMC enables the Network Controller, RADIUS and Captive Portal modules. Ordered with a Gateway, it additionally enables the On-Premise module. Each is described in full on the pages that follow.

NETWORK CONTROLLER	RADIUS	CAPTIVE PORTAL	ON-PREMISE
Access-point management: inventory, radios, SSIDs, templates, firmware, sites, groups, floor plans, dashboards and AP reports. ENABLED	AAA services: permanent users, vouchers, BYOD devices, social users, policy profiles, NAS devices, realms and called stations. ENABLED	Guest access: portal configurations, surveys, advertisement campaigns, and a terms-and-conditions editor. ENABLED	Edge services: network interfaces and routes, firewall, DNS forwarder, DHCP server, hotspot and web server. ON-PREMISE, ON THE GATEWAY

DEPLOYMENT OPTIONS

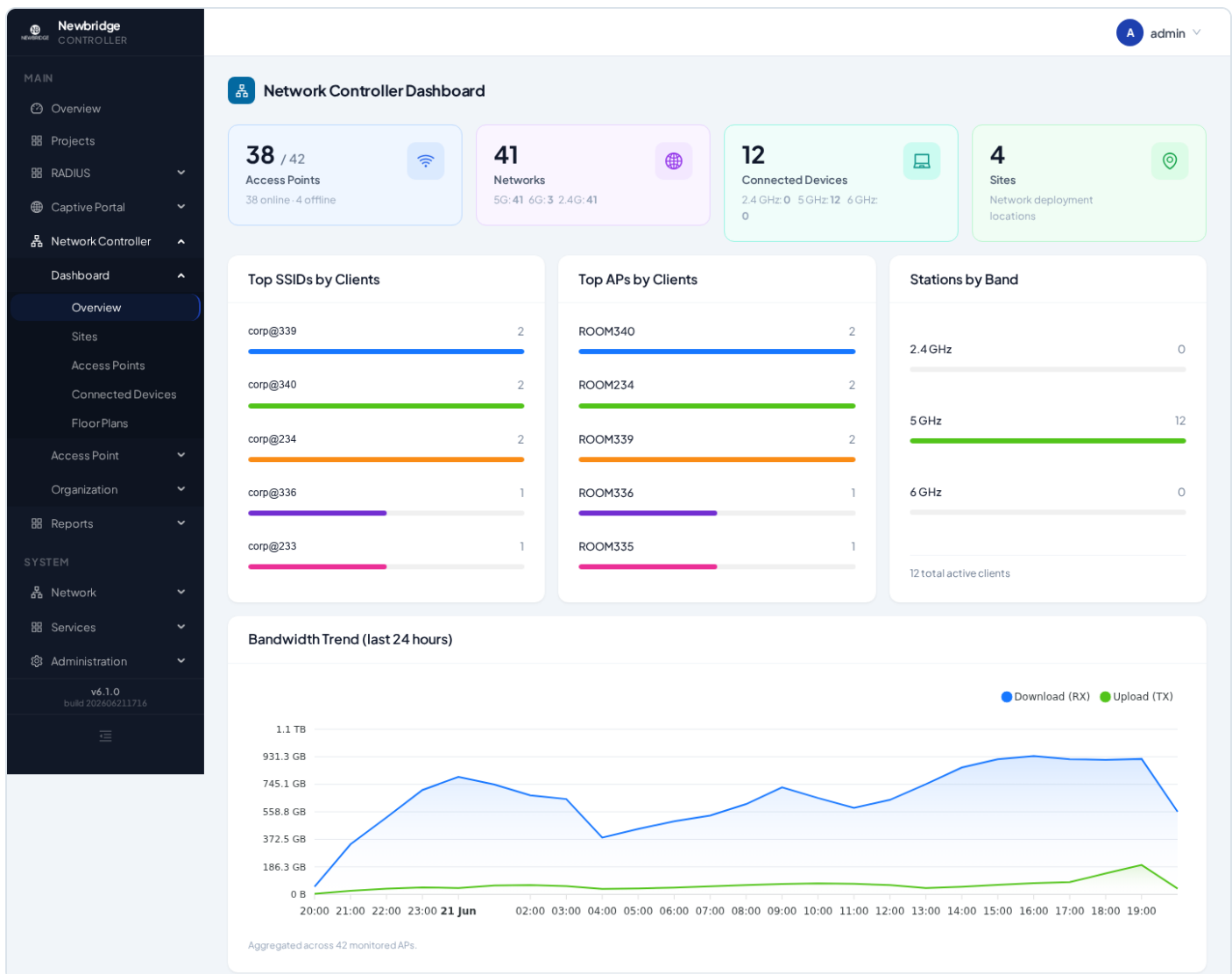
	CLOUD	ON-PREMISE
Control plane	Newbridge-hosted, serverless	Newbridge controller appliance
Console	Identical web interface	Identical web interface
Modules	Network Controller, RADIUS, Captive Portal	All four, with the Gateway
Capacity	Max APs, Max Online Users, Max Portals	Licence-controlled, bounded by the appliance
Optional Gateway	–	NB-IAMG appliance
User traffic	Stays local	Stays local

THE NEWBRIDGE MANAGEMENT FAMILY

NEWBRIDGE CONTROLLER	NEWBRIDGE IAM	CMC
Wi-Fi management: the Network Controller module. SEPARATE PRODUCT	Identity and guest access: RADIUS and Captive Portal. SEPARATE PRODUCT	The complete module set, cloud or on-premise. THIS DATASHEET

WI-FI MANAGEMENT

- **Zero-Touch Provisioning** – connect, register the serial and MAC, and the device pulls its own configuration.
- **Automated Rolling Upgrades** – update the fleet sequentially, scheduled off-peak, so most of the network stays live.
- **Organization** – sites, groups, floor plans, AP placement and projects.
- **Configure** – AP inventory, radios, bulk radio configuration, SSID library and per-model AP templates.
- **Live Link** – throughput per interface, CPU, memory, operating temperature, channel utilization, PoE load, and one-click reboot.



Network Controller dashboard – fleet status, stations by band, top SSIDs and APs, and the 24-hour bandwidth trend.

ACCESS POINTS OVERVIEW

Needs-attention counters surface offline devices, out-of-sync configuration and pending firmware, alongside AP status, stations by band, and client count over time. Tabs drill into SSIDs, wireless load, and channel health.

RADIUS – AUTHENTICATION, AUTHORIZATION & ACCOUNTING

- **Identity classes** – permanent users, voucher batches, single vouchers (one-time pass), BYOD devices and social users.
- **Policy profiles** – bandwidth, quota and session limits, composed from reusable components.
- **Network** – NAS devices, realms and called stations, routing and matching authentication requests across sites.
- **RADIUS dashboard** – active sessions, authentication outcomes, and identity classes in use.

CAPTIVE PORTAL – GUEST ONBOARDING

- **Portals** – branded splash pages per site or per SSID, with configurable login methods.
- **Surveys** – structured questions presented during onboarding.
- **Advertisements** – campaigns measured by impression and click-through.
- **Terms & Conditions** – a versioned editor; acceptance is recorded against the session.

ON-PREMISE – EDGE SERVICES

Available in on-premise deployments, on the Gateway appliance.

- **System** – network interfaces with an audit log, network routes, and firewall.
- **Services** – DNS forwarder, DHCP server, hotspot and web server.
- **Gateway** – captive portal, internet load balancing and NAT firewalling at the edge.

ONBOARDING FLOW

1**Associate**

The guest joins the SSID and is redirected to the branded portal.

2**Identify**

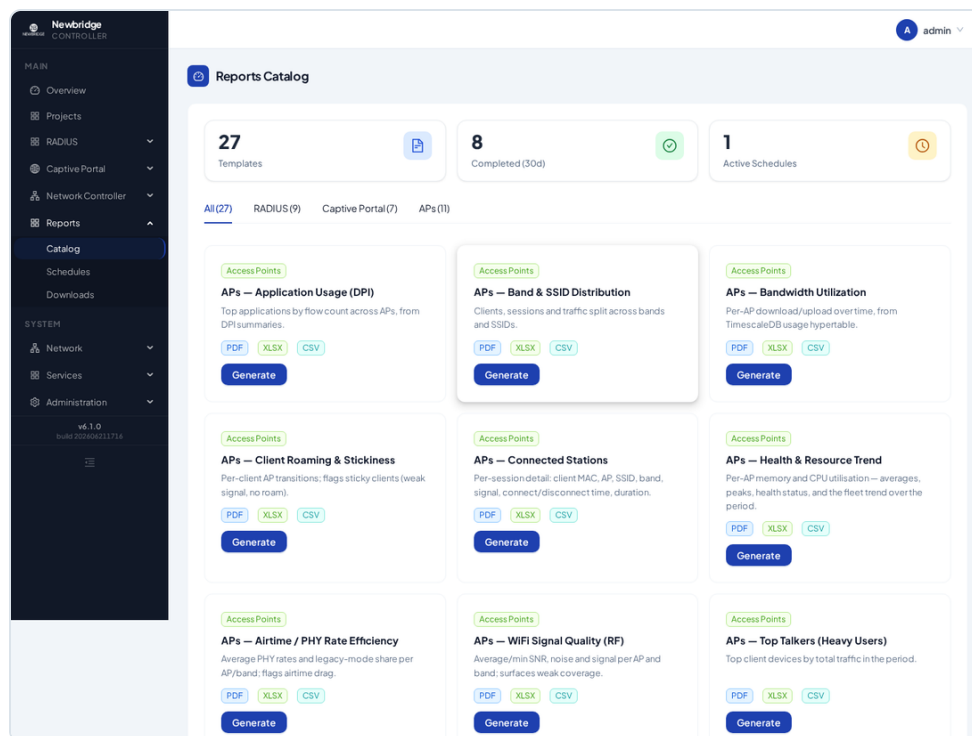
Voucher, social login, BYOD device or permanent account; terms accepted and recorded.

3**Authorize**

RADIUS applies the policy profile: bandwidth, quota and session limits.

REPORTS CATALOG

Twenty-seven report templates ship with the complete module set. Generate any of them on demand, or put them on a recurring schedule and collect the output from the downloads archive. Every template exports to PDF, XLSX or CSV.



Reports catalog – templates by category, each generating to PDF, XLSX or CSV.

TEMPLATES BY CATEGORY

CATEGORY	TEMPLATES	COVERAGE
Access Points	11	Application usage (DPI), band and SSID distribution, bandwidth utilization, client roaming and stickiness, connected stations, health and resource trend, airtime / PHY rate efficiency, Wi-Fi signal quality, top talkers, uptime and health, per-device bandwidth
RADIUS	9	Authentication audit, concurrent sessions and peak, data-cap / quota breach, idle / stale session audit, NAS / site utilization, realm / roaming summary, session detail (CDR), usage by user, voucher batch
Captive Portal	7	Portal activity, advertisement performance, login-method breakdown, new vs returning visitors, guest onboarding funnel, survey responses, voucher lifecycle

HISTORICAL STATISTICS

- Throughput rates per interface
- Client counts per wireless interface (SSID) over time
- Channel utilization per wireless radio over time
- Per-session accounting: identity, NAS device, realm and called station
- Voucher state transitions and portal acceptance records
- Retention depends on licence type – two months or more

GRANULAR ACCESS CONTROL

ROLE	SCOPE
Administrator / Owner	Total authority over the environment and all associated sites
Site Manager	Full read/write privileges restricted to specific locations or departments
Guest / Viewer	Read-only access for monitoring and reporting, with no configuration rights

Roles and permissions are defined under Administration → User Management, and applied per cloud or per site.

SECURE & RESILIENT ARCHITECTURE

- **End-to-End Encryption** – all communication between on-premises devices and the control plane is protected with industry-standard SSL/TLS, preventing interception and man-in-the-middle attacks.
- **Separation of Planes** – only management and accounting data travels to the cloud; user traffic stays local, preserving privacy and data sovereignty.
- **Hardened Privacy** – rigorous access controls and data masking keep sensitive network and identity information private and compliant with global standards.
- **Tenant Isolation** – sites, realms, portals and identity directories are scoped to their tenant.

ALERTS, LOGS & AUTOMATION

- **Email alerts** – raised when devices go offline or otherwise need attention
- **Notifications** – event alerting with configurable recipients
- **Audit trail** – operation, upgrade, configuration, client and connection logs
- **Scheduler jobs** – background task monitoring for recurring work
- **Report schedules** – recurring generation with archived downloads
- **Config versions** – firmware-pattern mappings keep each AP model on a known-good schema

MAINTENANCE & UPDATES

- **Automated Rolling Upgrades** – update the fleet sequentially so the majority of the network stays operational while others reboot.
- **Scheduled Execution** – plan upgrades for off-peak hours to eliminate impact on business productivity.
- **Hybrid Configuration** – bulk site-level settings for uniform deployments, granular device-level tuning where hardware differs.
- **Zero-Touch Provisioning** – connect, register, activate. No on-site engineer.

LICENSING

The platform is licensed by module. Newbridge CMC enables the Network Controller, RADIUS and Captive Portal modules. Ordered with a Gateway, it additionally enables the On-Premise module. Each licence carries its own validity period and capacity limits, is imported into the console as a file or as encrypted licence text, and more than one licence may be active at a time.

FIELD	DESCRIPTION
Enabled Modules	Which modules the licence activates
Valid Until	Expiry date of the licence; status is shown as Active or Expired
Max APs	Licence-controlled limit on managed access points
Max Online Users	Licence-controlled limit on concurrent authenticated users
Max Portals	Licence-controlled limit on captive-portal instances
Client Name	Organization the licence is issued to, shown per licence

Capacity limits are set per licence and enforced by the controller. The console reports application version, hardware serial, licence serial and overall status under Administration → Licence Management.

ENTITLEMENT AND THE GATEWAY

The Gateway is what enables the On-Premise module. A CMC appliance ordered without one runs three modules; ordered with one, it runs all four. The two entitlements carry different appliance part numbers.

APPLIANCE ORDER CODE	MODULES ENABLED
NB-9x80-CMC-UK	Network Controller, RADIUS, Captive Portal
NB-9x80-CMCG-UK	Network Controller, RADIUS, Captive Portal, On-Premise – Gateway required

Cloud deployments have no Gateway, so the On-Premise module is not available in the cloud.

CLOUD

ORDER NO.	DESCRIPTION
NB-CLD-CMC-1Y	Newbridge CMC cloud subscription, 1 year
NB-CLD-CMC-2Y	Newbridge CMC cloud subscription, 2 years
NB-CLD-CMC-3Y	Newbridge CMC cloud subscription, 3 years
NB-CLD-CMC-4Y	Newbridge CMC cloud subscription, 4 years
NB-CLD-CMC-5Y	Newbridge CMC cloud subscription, 5 years

ON-PREMISE APPLIANCE

ORDER NO.	DESCRIPTION
NB-9180-CMC-UK	Newbridge 9180 appliance, up to 180 APs – three modules
NB-9480-CMC-UK	Newbridge 9480 appliance, up to 480 APs – three modules
NB-9980-CMC-UK	Newbridge 9980 appliance, up to 980 APs – three modules
NB-9180-CMCG-UK	Newbridge 9180 appliance, up to 180 APs – all four modules, Gateway required
NB-9480-CMCG-UK	Newbridge 9480 appliance, up to 480 APs – all four modules, Gateway required
NB-9980-CMCG-UK	Newbridge 9980 appliance, up to 980 APs – all four modules, Gateway required
NB-9000-LIC-1	MAP licence, one per managed access point

GATEWAY

ORDER NO.	DESCRIPTION
NB-IAMG-980	Internet Access Management Gateway, up to 980 concurrent devices
NB-IAMG-2980	Internet Access Management Gateway, up to 2,980 concurrent devices
NB-IAMG-4980	Internet Access Management Gateway, up to 4,980 concurrent devices

A **CMCG** appliance must be ordered with a Gateway. Cloud subscriptions include Newbridge software and hardware support for the term; appliances and gateways take a separate support contract, available in one- to five-year terms.

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Contact us at <https://www.newbridge-tech.com/>