

#### Business Central 2.0: Your effortless cloud network

Business Central 2.0 is a secure, cloud based IT service platform designed to provide small to mid-sized organizations with an affordable way to establish, provision and manage key IT networking services. Effortlessly.

# Simplify wireless management with anytime, anywhere access directly from the cloud

NETGEAR® Business Central 2.0 Wireless Manager leverages Software-as-a-Service (SaaS) infrastructure to provide centralized control and comprehensive monitoring of all wireless access points and clients directly from the cloud. With an intuitive user interface and a comprehensive dashboard, Business Central 2.0 Wireless Manager is the optimum tool for wireless management for small to large enterprises, managed service providers, and organizations with single to multiple branch locations.

Business Central 2.0 Wireless Manager requires no hardware installation at the customer premise, provides a cost effective pay-as-you-go model, and manages a complete line of ProSAFE® 802.11n and 802.11ac access points. Access is by way of a single sign-on integration with the MyNetgear support portal that provides a single database repository for all NETGEAR products. The same logon credentials are used to access associated Business Central 2.0 services and allow users access to information about the latest available firmware, FAQ, knowledge database, and customized views for all of the NETGEAR products that the user owns. The need for multiple NETGEAR logins and passwords are eliminated. Centrally hosted with sophisticated load balancing and redundancy, the platform delivers maximum uptime while minimizing capex cost expenditure.

#### **Features**

#### Simplified Management

- Plug and play for ease of access point deployment
- Single Sign-On integration with MyNetgear support portal for complete inventory management
- Anytime, anywhere access for configuration and comprehensive monitoring

#### Superior Scalability

- Supports multiple access points and clients
- Centrally hosted in geographically redundant data centers
- Seamlessly manage distributed and remotely located branches and offices

#### **Encrypted Management Architecture**

- Separation of management and data traffic to maximize scalability and security
- Secured communication between access points and wireless manager through SSL and certificate validation
- Support VLAN segmentation to ensure maximum security for a variety of user types

#### Flexible Deployment Model

- Support management of AP's from multiple branch locations behind firewalls
- Optimal solution for retail chains, coffee shops, small offices, multiple branch offices, restaurant chains
- Support management of single or multiple AP's in single or multiple locations

#### Complete wireless feature set

- Support complete list of wireless security features (WPA, WPA2, AAA)
- Automatically adjust AP parameters by constantly monitoring the RF environment
- Private and public wireless access with complete control and visibility

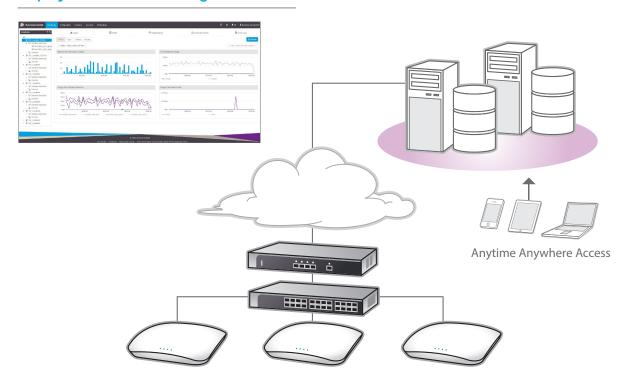
#### Cost effective solution

- Pay-as-you-go model with cost effective subscription model
- Industry best total cost of ownership for managed access point architecture
- Simple deployment maximizes managed service provider's return on investment
- Create free or chargeable wi-fi hotspots for additional revenue opportunities

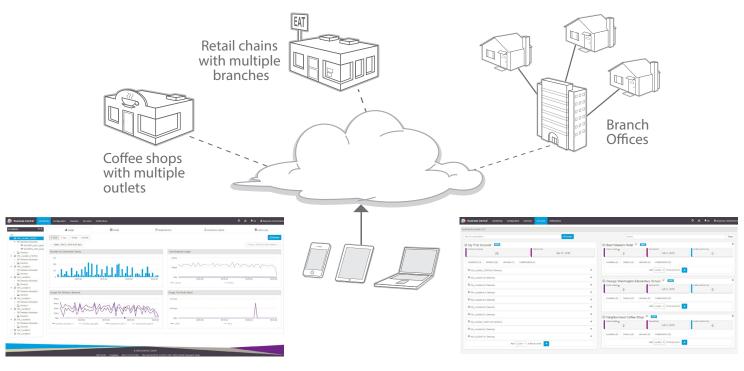




### Deployment model for single location



## Common use cases for multiple locations



Business Central Wireless Manager. End user self-managed route Business Central Wireless Manager. Managed service provider route

# Business Central 2.0 Wireless Manager

Data Sheet

## **Supported Access Points**

Access Points	Description	Part Numbers	Typical Deployment	Product Image (Front)	Product Image (Back)
WAC730	ProSAFE Wireless-AC 3x3:1.7 Gbps High Performance Access Point	WAC730-100NAS WAC730-10000S	Medium to large enterprise, higher education, mid to large hotels and hospitals requiring ultra high density throughput	6 4 4 mag	
WAC720	ProSAFE Wireless-AC 2x2:1.2 Gbps Premium Access Point	WAC720-100NAS WAC720-10000S	Medium enterprise, higher education, hospitality requiring high density and throughput	a a a max	
WNDAP660	ProSAFE Wireless-N Dual Band Concurrent Premium Access Point	WNDAP660-100AUS WNDAP660-100NAS WNDAP660-100PES WNDAP660-100PRS WNDAP660-100UKS	High density, multi-site establishments (restaurants, hotels, coffee shops, retail) for dual band client access	40000	0° 4.00 0 7 4 0
WNDAP360	ProSAFE Wireless-N Dual Band Concurrent Access Point	WNDAP360-100AJS WNDAP360-100NAS WNDAP360-100PES WNDAP360-100PRS WNDAP360-100UKS	Medium density, multi-site establishments (restaurants, hotels, coffee shops, retail) for dual band client access		(S. A. A. 1 € 0)
WNDAP350	ProSAFE Wireless-N Dual Band Concurrent Access Point (Metal)	WNDAP350-100AUS WNDAP350-100NAS WNDAP350-100PES WNDAP350-100UKS	Medium density industrial multi-site deployments (ware-house, hardnened locations) for dual band client access	Approx Ap	
WNAP320	ProSAFE Wireless-N Single Band Access Point	WNAP320-100AUS WNAP320-100NAS WNAP320-100PES WNAP320-100PRS WNAP320-100UKS	Low density, multi-site establishments (restaurants, hotels, coffee shops, retail) for single band client access	AND THE SECOND S	[S* E T : B0]
WNAP210	ProSAFE Wireless-N Single Band Access Point	WNAP210-200AUS WNAP210-200NAS WNAP210-200PES WNAP210-200PRS WNAP210-200UKS	Entry level wireless with minimal density (restaurants, hotels, coffee shops, retail) for single band client access	Miles areas and a second and a second areas area	

### Business Central 2.0 Wireless Manager

Data Sheet

#### **Features**

#### **Ease of Management**

Business Central 2.0 Wireless Management is performed by remote access through a standard web browser. With an intuitive dashboard and simple to use configuration wizards, the IT administrator can configure and monitor single or multiple access points all with a click of a mouse. Leveraging NETGEAR's best-in-class user experience design, Business Central 2.0 Wireless Management gives the IT administrators clear and comprehensive status of remote locations, and reduces the operational expenses to manage access points in multiple locations.

#### **Multi Tenancy Management**

Business Central 2.0 enables Managed Service Providers (MSPs), to use a single, scalable platform to manage multiple customers in a segmented and secured manner. Business Central 2.0 Multi-Tenancy functionality allows a MSP to create separate multiple Customer views for end users and ensure that each end user can only access devices assigned to them. The Manager view of Multi-Tenancy gives MSPs the overall status of the entire managed domain in a simple and intuitive dashboard for proactive alerts and network monitoring.

#### **Near Limitless Scalability**

Business Central 2.0 Wireless Manager is built on a distributed architecture that does not depend on a centralized controller for either wireless traffic control plane or wireless traffic data plane management. This key differentiating characteristic allows unparalleled scalability of wireless network environments without needing to upgrade or resize a wireless controller. Also, as additional resource is needed, the hosting environment automatically adds resources without the need for users to intervene.

#### **Secured Data Flow**

Client traffic is kept entirely on the organization's Local Area Networks. Business Central 2.0 Wireless Manager only communicates management changes (configuration, setup, administration, and reporting) and traffic monitoring reports for given access points. The Business Central 2.0 Wireless Manager is out of band from the data path. NETGEAR Business Central 2.0 Wireless Manager intelligently and securely separates data and controls traffic. While the data traffic remains in the local area network, the cloud management platform handles the control and monitors traffic independently of the data path. Following the model of Software Defined Networking, this distributed model ensures maximum scalability and ease of introducing new features and functionality independent of the access network.

#### Secured and Private Information Storage

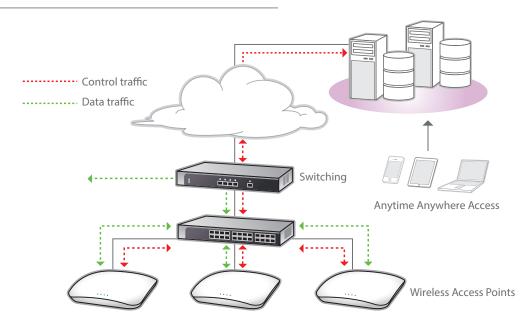
NETGEAR follows strict rule for privacy of personal data storage. By implementing the Safe Harbor rule, NETGEAR guarantees that all data are securely and privately maintain with no possibility of offering data to other third parties under the strictest guideline.

US-EU Safe Harbor is a streamlined process for US companies to comply with the EU Directive 95/46/EC on the protection of personal data. Intended for organizations that store customer data, the Safe Harbor Principles are designed to prevent accidental information disclosure or loss.

#### **Encrypted Management Architecture**

Control traffic between Business Central Wireless Manager and the access points is conducted over secure connections using HTTPS. The access point verifies the authenticity of the cloud management system using a X.509 certificate. The authenticated connection uses TLSv1, encrypted with 128-bit encryption using Advanced Encryption System (AES). In addition, the data transmitted through this secure connection does not involve client data traffic.

#### **Features**



The above figure shows how Business Central 2.0 would be deployed in a typical network. All data traffic flows directly from the AP's to the access wired network (as shown by the green line) while the control and monitoring traffic flows between the AP's and the cloud management platform (as shown by the red line). This approach allows user data to be quickly routed via the most efficient path to the Internet. Furthermore, any additional security treatment of the data path can be implemented directly on the various models of the NETGEAR switching portfolio.

#### Flexible Deployment Model

The tunnels between the Business Central 2.0 Wireless Manager and the AP's are initiated by the AP's and not by the Cloud Management System, thereby ensuring that the organization's firewall will not need to have a port open on inbound connections. This approach ensures that the deployment can be easily supported in all network topology, including a NATted environment where the AP's are located behind a firewall and/or a branch gateway such as DSL or cable modem.

#### Redundancy and High Availability

Multiple geographically distributed data centers are used to host the Cloud Management System, thereby ensuring that the management system continues to function even in the event of a catastrophic failure of one data center.

Since the Business Central 2.0 Wireless Manager is out of band for all data traffic, in the event that the organization's link to the Internet is interrupted, client data traffic will continue to flow normally — only configuration and administrative changes are temporarily impacted during an Internet connection outage. The system is automatically updated after the restoration of the Internet link.

#### **Simplified Deployment**

The provisioning of a wireless network just requires the deployment of supported access points — with setup and ongoing management undertaken inside the cloud management platform. Sizing, installation, configuration, and maintenance of a controller for management or traffic control plane is eliminated. Additional re-sizing of a controller when AP deployments grow is also eliminated.

### Business Central 2.0 Wireless Manager

Data Sheet

#### **Features**

#### Single Sign-On Integration with MyNetgear.com portal

Leveraging a common database, namely the NETGEAR Support portal, customers now can have a single database repository for all NETGEAR products. From the MyNetgear.com portal, users can get information about the latest available firmware, FAQ, knowledge database, and customized views with information for all of the NETGEAR products that the user owns. The user does not need to remember multiple logins and passwords, and can now enjoy the simplicity of one log-on profile from a single portal page. The same logon credentials are used to access associated Business Central 2.0 services.

#### Minimal IT Administration

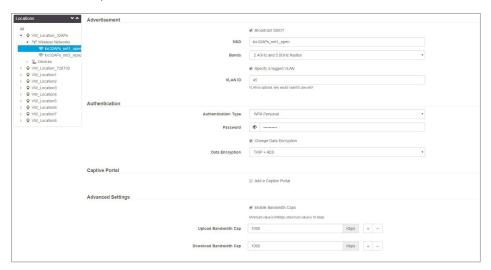
Because the Cloud Management System is hosted by NETGEAR (through cooperation with Amazon), updates and upgrades to the software are completely managed by NETGEAR during scheduled maintenance windows and are transparent to the organization's IT staff. Firmware updates of the wireless APs under cloud management are also conducted by NETGEAR, making time-intensive infrastructure maintenance updates a thing of the past.

#### **Cost Effective Centralized Licensing Framework**

As part of Business Central 2.0 flexible licensing scheme, customers can not only purchase licenses for the number of APs that need to be supported, but also can adjust the number of licenses purchased based on the time that customers plan to manage the AP's. This two dimensional model (time and number of AP's) provides a totally flexible pay as you go model to suit customer requirements.

#### **Robust Wireless Security**

With identity-based security features such as support for RADIUS, Active Directory and internal or external AAA server, Business Central 2.0 Wireless Manager truly unifies wired and wireless access without compromising on security. From the configuration menu of Business Central 2.0, the user can configure various wireless security settings such as WPA, WPA2, ACLs, radio parameters and push the settings to selected access points.



### **Business Central 2.0 Wireless Manager**

Data Sheet

#### **Features**

#### **Guest Access, Captive Portal and Logging**

Guest access allows restricted access to the network, using an integrated captive portal. Three methods of entry are provided (Click-Thru, Click-Thru with email and Click-Thru with additional custom fields). Click-Thru guest access requires no authentication for the user to simply click through to access the wireless network. Click-Thru with email requires customers to enter the user email address to access the network. Click-Thru with additional custom fields option allows the operator of the Captive portal access to capture relevant user information for possibilities of targeted advertising and marketing campaign.

#### Dynamic RF management

Business Central 2.0 Wireless Manager provides automatic control of access points' transmit power and channel allocation to ensure optimal coverage by minimizing channel interferences. Business Central 2.0 Wireless Manager performs scheduled automatic channel allocation to deliver an enterprise class reliable wireless experience.

#### **Client Load Balancing**

Business Central 2.0 Wireless Manager performs automatic load balancing of clients across access points to ensure even distribution of the traffic amongst the deployed APs.

#### SSID based Rate Limiting

Business Central 2.0 Wireless Manager provides the capability to specify uplink and downlink throughput limitation on per SSID basis. This ensures maximum customer satisfaction by ensuring appropriate allocation of bandwidth for various services.

# Business Central 2.0 Wireless Manager

Data Sheet

### **Technical Features**

RF MANAGEMENT			
Automatic Channel Allocation	<ul> <li>Automatic channel distribution to minimize interferences</li> <li>Auto-channel allocation taking into consideration of the environment, interferences, traffic load and neighboring AP</li> <li>Modifiable list of corporate channels to be used</li> <li>Scheduled mode for Auto-channel allocation</li> <li>Automatic mode in case of high level of interferences available</li> </ul>		
Automatic Power Control	Optimum transmit power determination based on coverage requirements  Automatic power control mode available  Neighborhood scan of RF environment to minimize neighboring AP interference and leakage accross floors		
Load Balancing	APs load monitoring and overloading prevention     Clients redirection to lightly loaded neighboring APs		
QUALITY OF SERVICE			
WMM Quality of Service	WMM (802.11e) prioritizes traffic for both upstream traffic from the stations to the Access Points (station EDCA parameters) and downstream traffic from the Access Points to the client stations (AP EDCA parameters)		
WMM Queues in decreasing order of priority	<ul> <li>Voice: The highest priority queue with minimum delay, which makes it ideal for applications like VoIP and streaming media</li> <li>Video: The second highest priority queue with low delay is given to this queue. Video applications are routed to this queue</li> <li>Best Effort: The medium priority queue with medium delay is given to this queue. Most standard IP application will use this queue</li> <li>Background: Low priority queue with high throughput. Applications, such as FTP, which are not time-sensitive but require high throughput can use this queue</li> </ul>		
WMM Power Save option	WMM Power Save helps conserve battery power in small devices such as phones, laptops, PDAs, and audio players using IEEE 802.11e mechanisms		
WIRELESS SECURITY			
Client Authentication Protocols	Open, WEP, WPA/WPA2-PSK 802.11i/WPA/WPA2 Enterprise with standard interface to external AAA / RADIUS Server		
Distinct AAA Server per location	Yes		
RADIUS Accounting Protocol	Per Client tracking for:  • Bytes Tx/Rx  • Login/Logout Time		
Integrated AAA Server	Local Database Authentification		
Guest Access	• Click-Thru • Click-Thru with email • Click-Thru with additional custom fields		
Captive Portal	Configurable Portal page, including image files		
Rogue Access Points	<ul> <li>Rogue AP definition: AP with radio SSID oberved by any of the Managed AP and seen transmitting on same L2 wired network</li> <li>Detection and Mapping of up to 512 Rogue APs</li> </ul>		

## **Business Central 2.0 Wireless Manager**

Data Sheet

#### **Technical Features**

WIRELESS NETWORK MONITORING					
Monitoring Summary	Summary of the Managed Access Points status, rogue Access Points detected, Wireless stations connected				
Managed Access Points	APs status for the Managed Access Points and details that includes configuration settings, current Wireless settings, current Clients and detailed Traffic statistics				
Rogue Access Points	Rogue Access Points Reported     Rogue Access Points in same channel     Rogue Access Points in interfering channels				
Wireless Clients	Clients statistics and details per AP, per SSID, per location     Trending display per hour, day, week, and month				
Wireless Network Usage	Network Usage Statistics display plots of average received/transmitted network traffic per Managed Access Point.				
ORDERING INFORMATION					
SKU	Description				
WM1AP1YL-10000S	Business Central 2.0 Wireless Manager for managing 1 AP 1 year				
WM1AP3YL-10000S	Business Central 2.0 Wireless Manager for managing 1 AP 3 years				
WM10AP1YL-10000S	Business Central 2.0 Wireless Manager for managing 10 APs 1 year				
WM10AP3YL-10000S	Business Central 2.0 Wireless Manager for managing 10 APs 3 years				
WM50AP1YL-10000S	Business Central 2.0 Wireless Manager for managing 50 APs 1 year				
WM50AP3YL-10000S	Business Central 2.0 Wireless Manager for managing 50 APs 3 years				

### Sign Up Today

Visit http://businesscentral.netgear.com/

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