

## FBC Acronyms & Jargon

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|--------|---|-------|--|
| 3GPP   | 3rd Generation Partnership Project          | IXP   | Internet Exchange Point                  |
| AAA    | Authentication, Authorization, & Accounting | KPIs  | Key Performance Indicators               |
| ACS    | Auto-Configuration Server                   | LTE   | Long Term Evolution                      |
| AGW    | Access Gateway                              | MAC   | Medium Access Control                    |
| AP     | Application Protocol                        | MBB   | Mobile Broadband                         |
| APN    | Access Point Name                           | MSC   | Managed Software Center                  |
| ATC    | Air Traffic Control                         | MNOs  | Mobile Network Operator                  |
| AUC    | Authentication Center                       | MOSE  | Mobile Operator Support Engineering      |
| BF     | Beamforming                                 | MME   | Mobility Management Entity               |
| BGP    | Border Gateway Protocol                     | NMS   | Network Monitoring System                |
| CBRS   | Citizens Broadband Radio Service            | OCS   | Online Charging System                   |
| CN     | Client Node                                 | OCN   | Open Core Network                        |
| CPE    | Customer Premise Equipment                  | OTN   | Optical Transport Network                |
| CWF    | Carrier WiFi                                | OVS   | Open vSwitch                             |
| DGW    | Distributed Gateway                         | PCEF  | Policy and Charging Enforcement Function |
| DN     | Distributed Node                            | PCRF  | Policy and Charging Rules Function       |
| DPI    | Deep Packet Inspection                      | PDN   | Packet Data Network                      |
| EGP    | Exterior Gateway Protocol                   | PGW   | Packet Data Gateway                      |
| eNodeB | Evolved Node B                              | RAN   | Radio Access Network                     |
| ENS    | Edge & Network Services                     | RAP   | Rural Access Program                     |
| EPC    | Evolved Packet Core                         | RMIOs | Rural Mobile Infrastructure Operator     |
| EPS    | Evolved Packet System                       | RTT   | Real Time Traffic                        |
| FBC    | Facebook Connectivity                       | SDN   | Software Defined Network                 |
| FEG    | Federated Gateway (original term)           | SGW   | Servicing Gateway                        |
| FGW    | Federated Gateway                           | SIPTO | Selected IP Traffic Offload              |
| FOS    | Facebook Operators Solutions                | SoMA  | Self-organizing Mesh Access              |
| FWA    | Fixed Wireless Access                       | TG    | Terragraph                               |
| GBR    | Guaranteed Bit Rate                         | TIP   | Telecom Infra Project                    |
| GPRS   | general packet radio service                | TLS   | Transport Layer Security                 |
| gRPC   | Remote Procedure Call                       | TR-69 | Application Layer Protocol               |
| GSM    | Global System for Mobile Communications     | TSSM  | Tiered Spectrum Sharing Model            |
| HSS    | Home Subscriber Server                      | UE    | User Equipment                           |
| IDC    | Infrastructure Data Centers                 | WAC   | Wireless Access Controller               |
| IGP    | Interior Gateway Protocol                   | WISP  | Wireless Internet Service Provider       |
| ISP    | Internet Service Provider                   | XFN   | Cross Functional                         |
|        |   | XFW   | Express WiFi                             |

## Terms

### **Backhaul (Backbone)**

In a hierarchical telecommunications network, the backhaul portion of the network comprises the intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network.

### **Beamforming (BF)**

Shaping the beam and steering a radiated beam of energy from a phased array antenna

### **Connection Steering**

Ability to steer a user/client from an LTE/3G network to a Wi-Fi network and vice-versa. An effective Connection Steering is when this can be achieved without any user intervention (barring 1 time initial on-boarding)

### **Express WiFi**

Express Wi-Fi's mission is to bring more people online with fast and affordable Wi-Fi. Wi-Fi Tech seeks to make Wi-Fi cheaper, faster, more resilient, and more convenient and thus help it reach deeper into rural areas

### **Frictionless Connection Experience**

A manifestation of correctly implementing & supporting Profile Distribution & Connection steering with the right set of KPIs to provide the user/client an experience that is on-par or better to cellular experience. It is a consumer experience that keeps a user connected to a high-quality connection around you without user intervention.

### **Handoff**

In cellular communications, the handoff is the process of transferring an active call or data session from one cell to another cell or from one channel to another.

### **MAC-Based Authentication**

To authenticate devices based on their physical media access control (MAC) address. ... can also be used to authenticate Wi-Fi phones as an additional layer of security to prevent other devices from accessing the voice network.

### **mmWave**

Millimeter wave spectrum is the band of spectrum between 30 GHz and 300 GHz. Wedged between microwave and infrared waves, this spectrum can be used for high-speed wireless communications as seen with the latest 802.11ad Wi-Fi standard (operating at 60 GHz)

## FBC Acronyms

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**New User Experience (NUX)** The experience a new user sees when the onboard to the product

**Open/R** Facebook's open source routing and configuration parameters/protocol

### **OpenCellular**

An ecosystem of rural-optimized base station 2G and 4G LTE equipment and software which will enable both MNOs and RMIOs to deploy in low density rural areas at low costs, low power consumption, and without being locked into specific vendors.

### **Profile Distribution**

Ability to create, remove, enable, disable profiles via OTT mechanism that enables a user/client to securely connect to the SSID on a Carrier deployed Wi-Fi Hotspot network.

### **Quick Promotion (QP)**

A Facebook capability to promote a feature to a user

### **Radius Server**

Utilizes a central database to authenticate remote users, converts to JSON

### **Session Continuity**

In Wi-Fi networks, seamless session continuity is analogous to Handoff in cellular networks. The process of transferring an active call (VoIP or Wi-Fi calling) or data session from LTE/3G network to Wi-Fi AP or vice-versa with client IP address preservation

### **Wi-Fi Roaming**

Used generally in Wi-Fi networks, seamless roaming is the process of transferring an active call (VoIP or Wi-Fi calling) from one Wi-Fi AP to another Wi-Fi AP with Client IP Address preservation