6GHz band for unlicensed services

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### Extending Wi-Fi into 6GHz

#### Capacity

<table>
<thead>
<tr>
<th>Band</th>
<th>Channels @ 20MHz</th>
<th>Channels @ 40MHz</th>
<th>Channels @ 80MHz</th>
<th>Channels @ 160MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.4GHz</td>
<td>3</td>
<td>1</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>5GHz</td>
<td>25</td>
<td>12</td>
<td>7</td>
<td>2</td>
</tr>
<tr>
<td>6GHz</td>
<td>58</td>
<td>29</td>
<td>14</td>
<td>7</td>
</tr>
</tbody>
</table>

#### Efficiency

- 6 channels @ 320 MHz

#### Performance

- Source: IEEE spec
Data generated from each respective country’s regulatory agency. Updated in March/23.
6GHz outdoor - Gabriele D’Annunzio
First 6GHz outdoor in Latin America launched in Dec/22

Implemented by:

With the support from Anatel
Automated Frequency Coordination: service coexistence

Qualcomm® AFC Solution

* live in-field demonstration with Anatel approval
AFC unlocks increased performance and new use cases for 6GHz spectrum

From 4x to 64x higher power indoors

Outdoor operations

Weatherized enclosure
Delivering enhanced 6 GHz operation

Qualcomm® Automated Frequency Coordination (AFC) Service
Turnkey platform-to-cloud solution

Qualcomm AFC service conditionally approved for operation by FCC to enable standard power for unlicensed devices in the 6GHz band

AFC Device Agent
- Embedded device agent
- AFC messaging
- Channel/Power setting

Geolocation
- GNSS
- Wi-Fi based

AFC Cloud
- Qualcomm® Service Cloud
- AFC protection area
- List of permissible operation

Management
Cloud based provisioning and management
Platform-to-cloud turnkey solution

Qualcomm® Immersive Home Platform

Qualcomm® Networking Pro Series

Dozens of Wi-Fi 6E products have been already certified by Anatel

Advanced home applications

Enterprise applications
Unlocking a higher-performance longer-range version of 6 GHz operation

Outdoor operations
Enhanced indoor operations
New use cases and applications
Complete Qualcomm AFC turnkey solution
The 6GHz unlicensed spectrum presents tremendous opportunities supported by a fast-growing Wi-Fi 6E ecosystem.

LATAM region benefits from strong regulatory support for the 6GHz unlicensed spectrum for indoor (LPI) operations.

Standard Power outdoor/indoor operations with the use of AFC will unlock new use cases and applications.

Wi-Fi 7 is here with end-to-end solutions ready to take full advantage of the 6GHz spectrum and deliver breakthrough experiences.