

IoT Sensor Types used in Private Networks



Source: Ericsson

Key Use-Cases for Indoor Private Wireless Net Public MNO indoor coverage (of offload) ▶ Use of DAS, small cells, Wi-Fi for indoor coverage of MNO mobile broadband services Local / Guest IT LAN & Internet access Mostly Wi-Fi for accessing cloud/web/compute ► Local IoT (static) ¢ ▶ Various techs for sensors, other fixed IoT Mix of Wi-Fi, BT, LoRa, NBIoT, etc. ▶ Local IoT (mobile) Devices that move of need indoor/outdoor coverage Local OT (operational / critical / industrial) EDGE Very high reliability / low latency / deterministic ► Local voice / comms Ę, Ż, ▶ Walkie-talkies, 2-way radio, etc. Source: Disruptive Analysis

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4G vs 5G vs Wi-Fi vs Wi-Fi 6E					
	4G	5G	Wi-Fi	Wi-Fi 6E	
Data Rate	Low/Medium	High	Low/Medium	High	
Latency	Low/Medium	Ultra Low	Medium	Low/Medium	
Scheduler	Yes	Yes	No	No	
Interference	Low	Low	High	Low	
Security	High	High	Low/Medium	Medium	

Connected Technology using Private Networks in Smart Buildings



Top Reasons for Enterprises to Adopt Private Cellular Networks

COVERAGE	CONTROL
In-building	> Security
> Rural	> Autonomy
Industrial	> Customized
> Offices	> Beyond Wi-
> Road / Rail	> Deploymen
> Utility	Lifecycle
> Metro areas	Mobility
> Military / Govt.	Private QoS

Source: Disruptive Analysis

