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One Battle of a Larger War

- War against licensed spectrum
- 902-928 MHz – FCC licensed Progeny
- 2.4-2.483 – FCC cusp of approving Globalstar TLPS
- 3550-3650 – Approve Licensed; delay Unlicensed
- 5 GHz – Cellular license holders want 5 GHz “Free Gold” to replace Wi-Fi w/ LTE
- LTE-U/LAA downlinks in unlicensed spectrum is a one-way technology (Broadcast technology)
- Instead of “listen before transmit” it may be “transmit and never listen”.

Who Uses 5 GHz Unlicensed?

1. Toddlers with play toys ?
2. Serious adults with real-world communications needs?
3. 3 ½ million people who rely on unlicensed to receive broadband service at home and at work?
4. Critical infrastructure industry that uses long-distance 5 GHz unlicensed links to manage pipeline networks that delivery electricity, water, natural gas, petroleum products and sewage service to American homes and businesses?

Licensed LTE is More Efficient at What?

- More bits/Hertz = Yes
- Mobile costs more (Dollars/Gigabyte) = Yes
- The same amount of cellular data costs (how many times more) than fixed wireless broadband data?
- License auction costs need amortization
- Mobile technology costs need amortization
- If we allow LTE-U/LAA to kill unlicensed are we all willing to pay 10 times more for Internet service and substantially more for electricity, natural gas, water, petroleum products and sewage services?
- LTE is more efficient at extracting revenue from the wallets of American citizens.