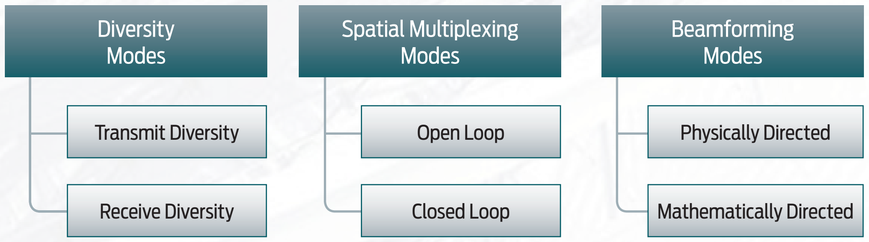
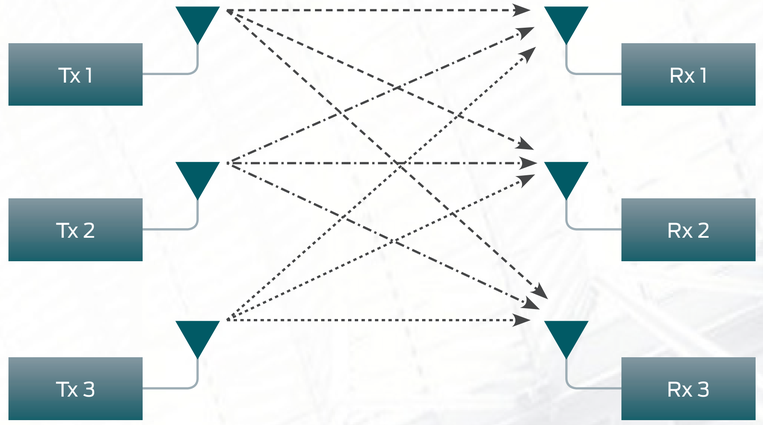
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MIMO in Wi-Fi
WIRELESS STANDARDS REFERENCE

MIMO in Wi-Fi



MIMO Operation and Multipath



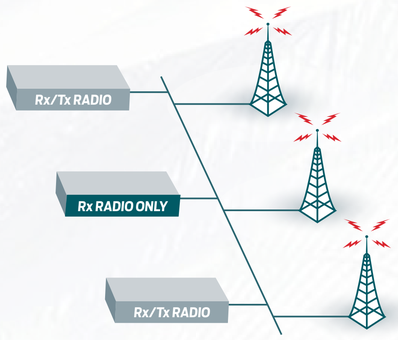
MIMO Diversity

- Receive Diversity: Maximum Ratio Combining (MRC)
- Transmit Diversity: Space Time Block Coding (STBC)

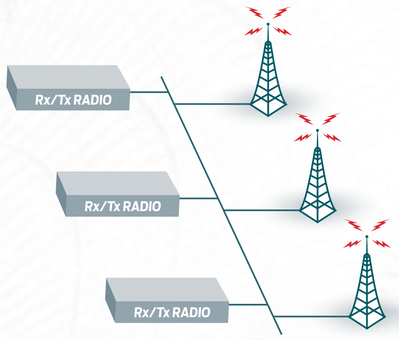
MIMO Spatial Multiplexing

- Send Independant Unique Data Streams

2 x 3:2 MIMO

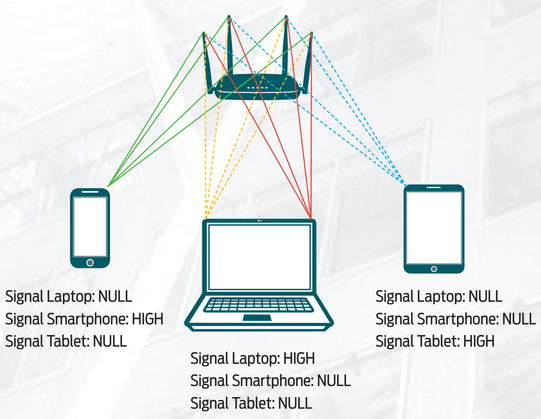


3 x 3:2 MIMO

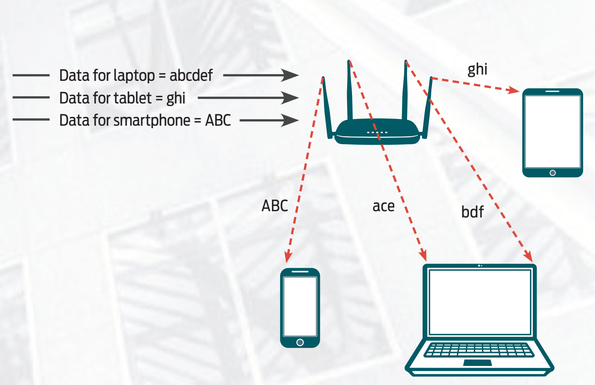


Syntax for MIMO Radio Capabilities N_{Tx} x N_{Rx}: N_{ss}

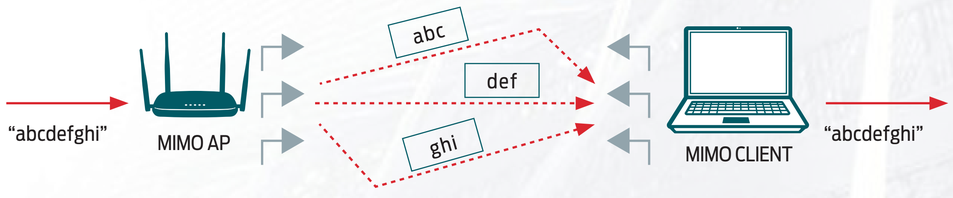
Beamformed Transmission in a MU-MIMO Environment



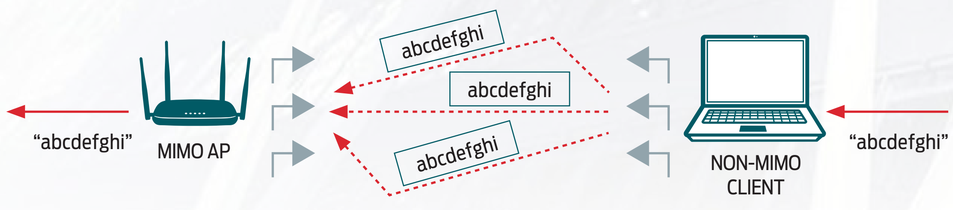
Multiuser MIMO



Multiple Spatial Streams



Maximal Ratio Combining (MRC)



Transmit Beamforming Data

