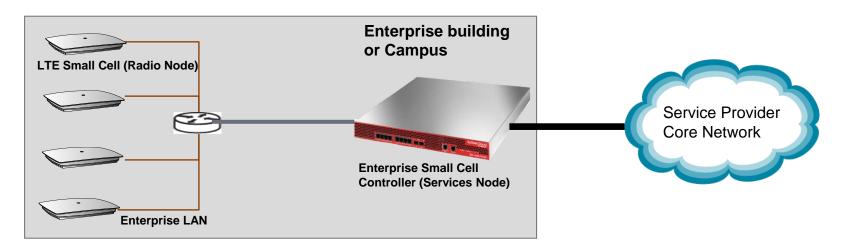






SpiderCloud Enterprise Small Cell System



- Self-organizing, easy-to-deploy, scalable, 3G/LTE small cell network for enterprises
- Services Node manages interference between Radio Nodes, Macro-cellular network

D 2



Commercial Small Cells Offer Spectrum Monitoring



Commercially deployed small cells monitor

- Multiple frequency bands
- Multiple air-interface technologies
- Capable of decoding broadcast channels
- Report RSSI, cell identification

AU Network Nodes should report spectrum use to SAS

- Relatively small cost overhead; better than asking mobile devices to monitor spectrum

3



Benefit of Requiring AU Network Nodes to Monitor Spectrum

- Detect spectrum misuse
 - SAS can use spectrum reports to monitor if transmissions from certain authorized users is visible outside licensed area
- Detect GPS spoofing
 - SAS can use spectrum reports provided by multiple small cells to create RF signature for each location