# Side-By-Side Comparison of Deploying a FirstNet-Compatible Radio Access Network (RAN)[1]

| Category: Expense | Opt-In (FirstNet Provided) | Opt-Out (State Financed) |
|---|---|---|
| CAPEX: eNodeBs, Backhaul equipment, Other infrastructure | No cost to state | State responsible for cost |
| OPEX: Operate for 25 years | No cost to state | State responsible for cost |
| Maintenance, tech refreshes, security upgrades, and reconstitution of the RAN following potential degradation or loss: Over 25 years | No cost to state | State responsible for cost |
| Program Execution Risk: Delays, Compliance | No cost to state | State responsible for cost |
| Spectrum Access to Band 14 | Not applicable | State responsible for yearly fee under spectrum lease agreement with FirstNet that is coterminous with FirstNet's contract with AT&T |
| Program Administration | No cost to state | State responsible for cost |
| Public Safety Adoption Target(s): Proportional to State | No cost to state | State responsible for cost (mandatory, including disincentive payments) |
| RAN Integration with the FirstNet network, including testing, certification, and reporting costs | N/A | State responsible for cost (solution-dependent and likely to change as upgrades occur along w/ continual testing, certification, & reporting requirements) |
| Device and Applications Management over 25 years | No cost to state | State responsible for cost |
| Time to Deployment | Immediate access to existing AT&T network with Priority access over LTE bands and Pre-emption for first responder subscribers by end of 2017. | Due to statutory opt-out process, there is estimated to be at least a two-year delay until construction can begin on the radio access network in the state. |

| Category: Network Services | Opt-In (FirstNet Provided) | Opt-Out (State Financed) |
|---|---|---|
| Coverage | AT&T current footprint plus 5-year deployment build-out, plus expansion over next 20 yrs. post initial deployment | Dependent on state build-out schedule |
| Priority/Pre-emption | Immediate access to existing AT&T network with Priority access over LTE bands and Pre-emption for first responder subscribers by end of 2017 | Dependent on state build-out schedule and only priority/pre-emption over Band 14 unless partner provides other bands. |
| Customer Care | FirstNet (Federal) Customer Care Organization Oversight & AT&T Dedicated, FirstNet-specific, US-based customer care center 24/7/365 | State responsible |
| Cybersecurity | End to end security with dedicated Security Operations Center (SOC), network monitoring, cyber response | State responsible |
| Deployables: Disaster Response, Network Augmentation | Access to fleet of AT&T NDR deployables for disaster response as well as 72 dedicated FirstNet BC14 deployables | State responsible |
| In-Building Coverage solutions | Access to in excess of 6000 Distributed Antennas Systems & 32,000 Wi-Fi Hotspots | State responsible |
| Local Control | Access to Public Safety portal | State responsible |

| Category: Other | Opt-In (FirstNet Provided) | Opt-Out (State Financed) |
|---|---|---|
| Devices, including testing, certification, and reporting | AT&T portfolio with market influence of AT&T for future devices and cost. | Dependent on state solution. Could be limited to BC14. |
| Applications | Dedicated Public Safety App Store | Dependent on state solution |

1 This list in not meant to be an exhaustive or comprehensive list and is informational in nature only to help provide context to states as they make an opt-in v. opt-out decision.