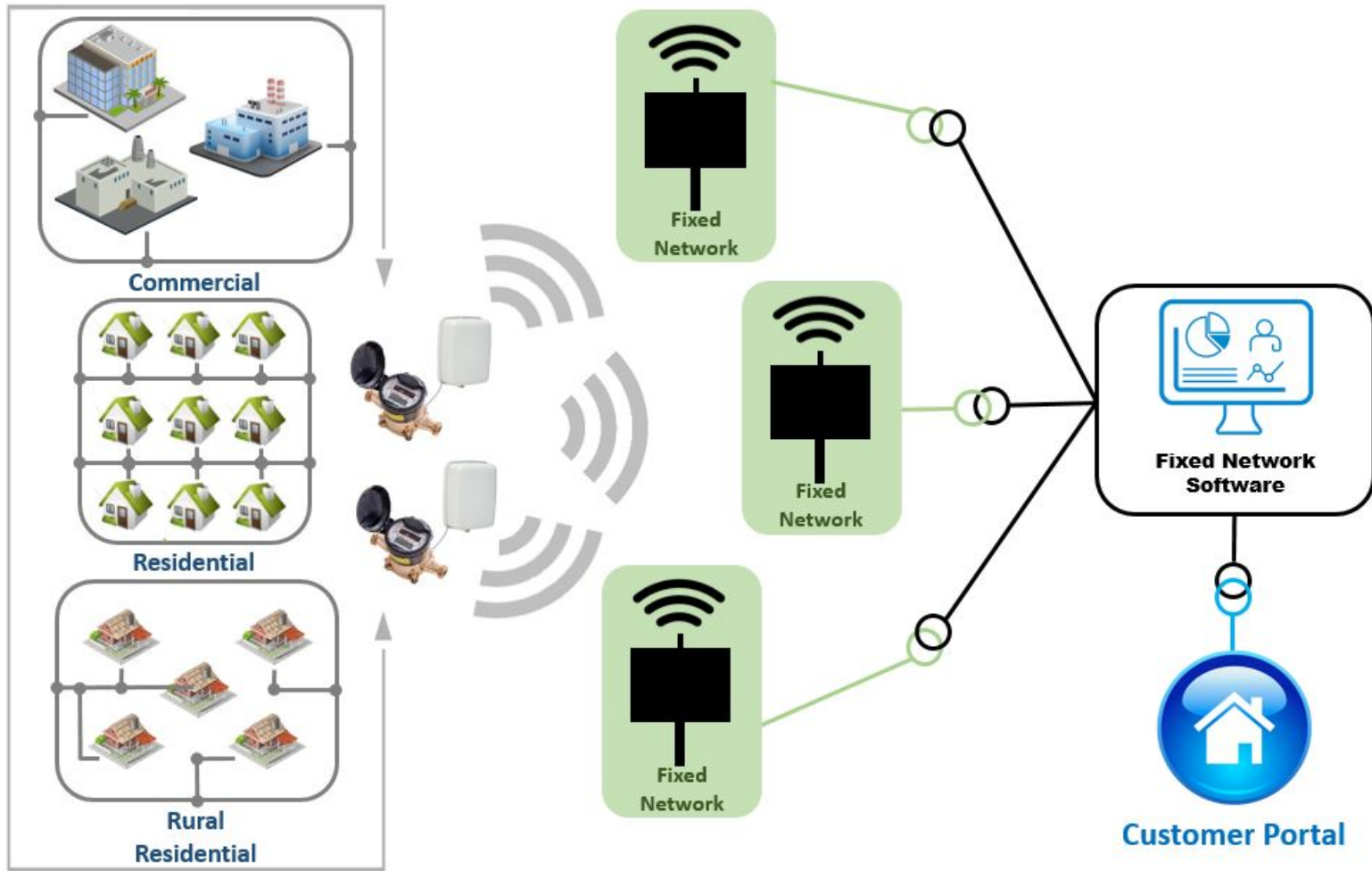


System Architecture Review



System Architecture

1. At each commercial and residential account, an RF R900 Remote Reading Device will be installed on the outside of the property. This remote reading device interacts with the water meter installed within the property via a wired connection. The R900 remote reading device then transmits data through intermittent radio signals (cumulatively less than 1 minute per 24 hours) to a Receiving Gateway antennae installed on City owned property/infrastructure. Only Neptune reading equipment can receive the data transmitted by the R900 devices.
2. Receiving Gateway antennae will be installed at approximately 12 locations throughout the City that solely receive radio data signals from the R900 remote reading devices located at each property. The data will then be routed from the Receiving Gateway antennae to a secure server where the data will be stored.
3. Once the data has been transferred to the server, the data can be accessed by City Staff and will be used for purposes including billing and suspected water leak notifications to customers. It is intended that the data can also be accessed through a customer portal, once the portal has been developed and released.