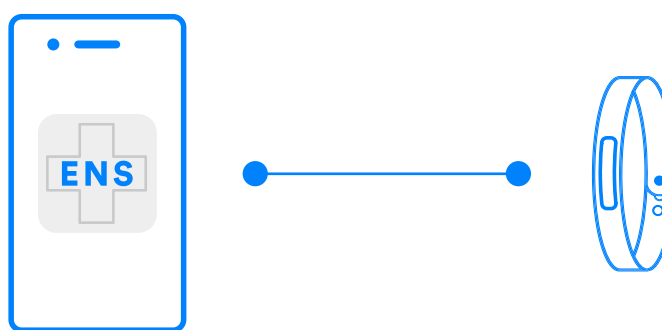


Extending an ENS to Support Wearable Devices

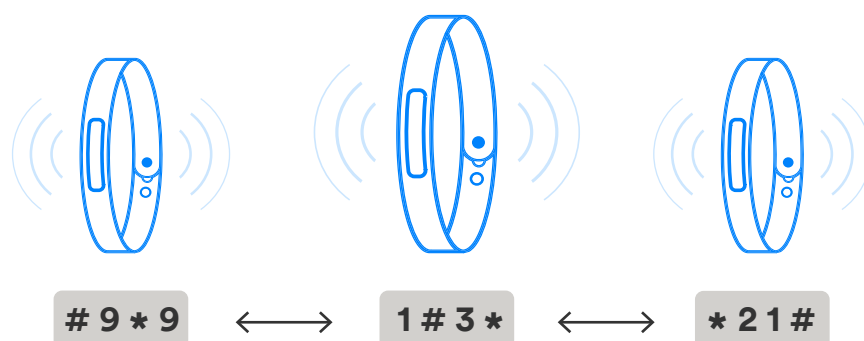


Typically deployed by a government health agency, an Exposure Notification System (ENS) leverages Bluetooth® technology embedded in smartphones to inform people when they have been in proximity to someone who was later diagnosed with COVID-19. By supporting wearables such as wristbands, an ENS can better address population groups that are critical to managing a pandemic but have low smartphone adoption, including young children attending primary school.

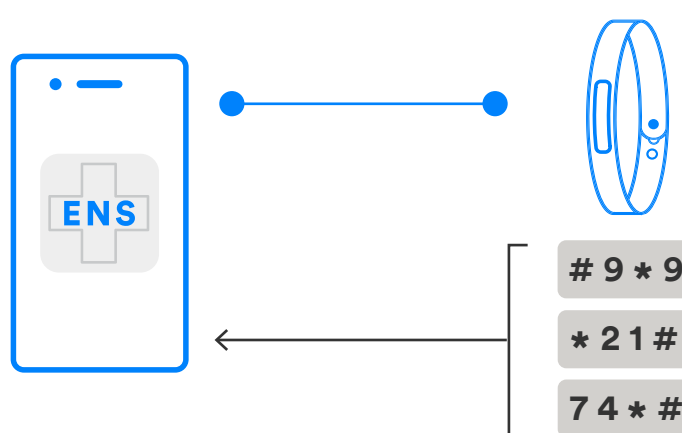


Sarah would like to know if her son Steve is exposed to someone infected with COVID-19 but Steve is too young to have a smartphone.

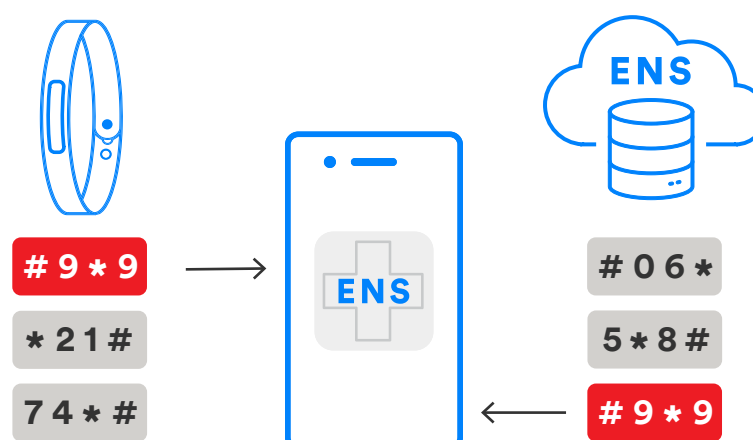
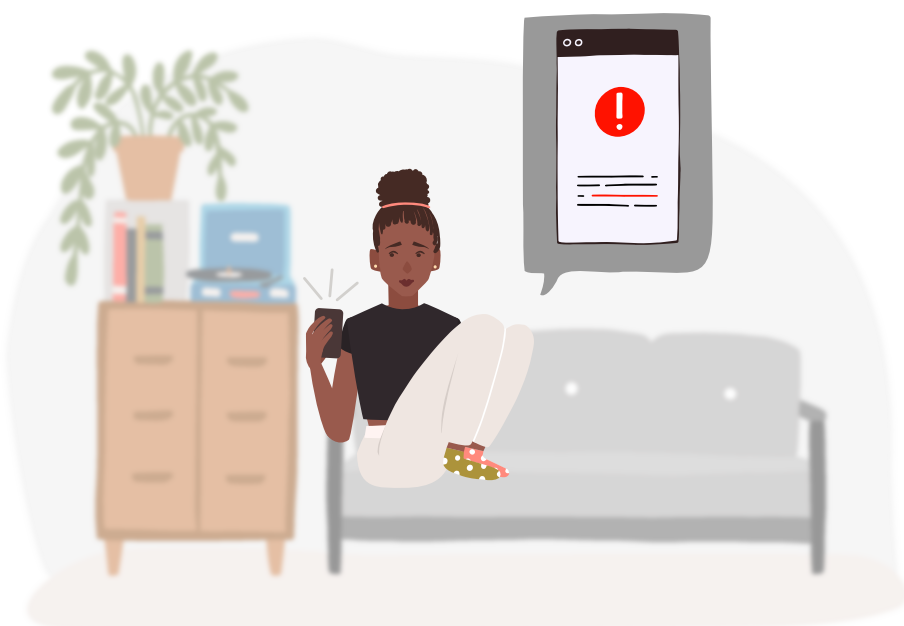
She acquires an ENS-enabled wristband for her son and pairs it with her smartphone using the ENS app. Steve's wristband begins broadcasting its own unique random IDs.



Steve wears his wristband throughout the day, and it exchanges random IDs with other nearby ENS-enabled devices, storing all received IDs.



Steve's wristband periodically connects to Sarah's smartphone and uploads its list of recently received IDs.



Sarah's smartphone periodically retrieves the list of IDs associated with positive COVID-19 cases and compares it to the list of received IDs from Steve's wristband. If the ENS app discovers any matches, it notifies Sarah with further instructions for Steve.