



Brightening Connected Communities with Innovation RFI FAQ

Who can apply for this opportunity?

- Municipalities, non-profit organizations, housing authorities, etc. All must have a need to increase connectivity points on the streetscape to improve digital services for its residents and users and need to have access to fiber or high-speed connections on the streetscape. An authority, public or private, that has continuously strived to build digital solutions to counter most imminent challenges but is seeking to achieve the same outcome with remarkably lower cost and time to implementation.

Please share more about your safety solutions that integrate with the Signify platform.

Do you have any examples you can share?

- The solution supports the 802.11ay/ad industry protocol with encryption levels of 128B (details below), which are the highest industry standards for communication safety.

What happens after the pilot? The RFI states that communities will be positioned “for future project expansion based on pilot outcomes and insights.” I’d like more information about what that looks like.

- The goal is that communities will be prepared to expand their ability to serve with this technology. We'll help you understand what scale and capability looks like and how time and cost factor in. If the community would prefer to take the gear offline, Signify will remove it. The key here is to evaluate how the future scalable infrastructure expansion can be built (referenced)

What is the financial commitment that a partner needs to make?

- There is no immediate commitment needed. We are looking for communities interested in showing how they'll expand in the future. This is not a "pilot for pilot's sake" project. In-kind and match will be weighed accordingly.

What is the actual technology solution/equipment that will be provided? What hardware component is provided (pole, lighting fixtures, wi-fi node, something else?)?

- You will receive broadband-enabled LED luminaires. The integrated technology is standardized as per IEE 802.11 AD. It's license-free based on the 60Ghz spectrum. All that is needed is the swap of the existing luminaires to the BrighSites luminaires; the light pole will not be removed or changed.



In terms of Wi-Fi capabilities, we need to understand how this technology can be managed, how to address vulnerabilities and firmware updates, and whether it supports the latest Wi-Fi 7 standards. We also need to know the 4g/5g backhaul radio type and how the radio/modem can be managed for vulnerabilities and firmware updates.

- Backhaul for 4G/5G: PtP, PtMP, Mesh (60GHz) TDD/TDMA
- Security: AES 128-bit OTA, GUI over HTTPS, CLI over SSH
- Vulnerabilities & Firmware update: In line with industry standards, the highest quality assurance is ensured, and remote FW upgrades are enabled to ensure any vulnerabilities (standard for RF equipment) are contained.
- Wi-Fi 7 support: It is compatible with all variants of current and future WiFi standards.

What type of maintenance do the BrightSites require? Would Signify provide support on resolving issues on-site if they arise?

- No additional capabilities will be required. Signify will support all alarms, triggers, and knockdowns.

Can you speak to the appropriate scale of pilot projects? For example, the number of light poles/blocks addressed?

- An ideal pilot would be within 1 square mile downtown to provide public Wi-Fi to citizens and tourists. This would require changing approximately 10-15 existing luminaires to broadband-enabled luminaires.

Will this webinar recording be available?

- Yes, and slides!

How does it work when the lights are out, and can we monitor the performance in real time?

- Signify will grant access to the city to monitor the performance of the network through a dashboard.

Can you elaborate on the requirement “Have at least one point of fiber available for the pilot”? Does this need to be located at one of the streetlights?

- The preference is to have fiber at or immediately adjacent to the light pole already. Absent that, either a plan to have it available or even the existence of an option would be helpful. The main point is just making clear in the project that that element is the applicant's responsibility and not Signify's.