Fire-Lite Alarms
by Honeywell

October 2014 – Webinar Questions and Answers
Less Wire. More Opportunities!   Introducing SWIFT Wireless
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The recorded webinar along with copy of the presentation used can be found on webinar section of Fire-Lite's website.

1. Where can Fire-Lite's SWIFT Wireless devices be purchased?
   a. Fire-Lite's SWIFT Wireless devices can be purchased from wholesale distributors who carry Fire-Lite products. Contact a Regional Sales Manager to locate a distributor near you.

2. What is a Class-A Mesh Network?   Why is that important with this system?
   a. Class-A is a communications classification where a single fault does not obstruct the system operation. In our case, the mesh network implements redundant paths for all communications, so a single instance when communication is disrupted will not impede the products performance. *In wired circuits, this means that a single open circuit or a single short circuit on the communication lines will not prevent the circuit from functioning (typically because there is an alternate/return path).* In wireless communications, there are no open or short circuit conditions, but there are times when a communication may be blocked (interference or physical blockage). SWIFT implements two communication paths, so even if one is blocked, the message still gets through.

3. Is there a tester for signal strength?
   a. The detectors in site survey mode can be used to test signal strength between two locations.

4. Are there interference problems to be concerned about when setting up a system?
   a. Interference is an obstacle that has been considered during all phases of the development. We do ask that intentional interference be avoided during the initial setup of the system (mesh formation and mesh restructuring) so the signal strengths of the connections in the mesh network can be measured accurately. Interference during the setup (mesh formation and mesh restructuring) may delay the overall setup process.

5. What's the difference between a Wireless Gateway and a Wireless Device Driver?   They look the same?
   a. The two units have different circuits for different functions.   The gateway has a circuit to communicate with the panel via the SLC and the display driver has a different circuit to communicate with an annunciator.

6. What panels are supported?   Any plans for the 9050?
   a. The MS-9200UDLS and the MS-9600(UD)LS are supported in LiteSpeed™ mode. There are currently no plans for the MS-9050UD.

7. Can you use more than one gateway on the system?   What's the max?
   a. Yes, you can use more than one gateway on the system. There are physical limits and there are radio communication limits. The physical limits would be the maximum number of devices in a single mesh network (48 plus the gateway and display driver make 50), and the maximum number of points on the panel (number of loops and points per loop). The radio communication limit is 4 overlapping systems though. For more information see below about the radio communication overlap.

8. What do you mean by overlapping?   Examples of overlapping?
    a. Overlap occurs when a mesh network is in radio range of another mesh network, creating the opportunity for a transmission in a mesh to interfere with the communication of another mesh. This could be with a system installed on the 1st floor of a multi-story building overlapping with a second network installed on the 2nd floor of a multi-story building. SWIFT Wireless supports a scheme where 4 mesh networks can co-existence in the same RF environment (overlapping) **without** interfering with each other - This is the limit. If there is a 5th mesh network added to the overlap condition then a system trouble will be indicated for each network that is compromised by the condition.

9. What information can you pull from the wireless detectors?
    a. In panel read status you will have all the capabilities you would get with your wired device (snapshot of chamber values, database settings).   With SWIFT Tools, you can retrieve statistics which will have the battery voltages, communication links and signal strength, noise floor measurements, etc. You can also retrieve wireless history from the gateway.

10. Where can I get the SWIFT Site Survey tool?   Is it free to download?
    a. All SWIFT detectors and the SWIFT module have the site survey capability built into them. The SWIFT tool that is used to analyze the data is a free download. To use the tool, you must have the W-USB wireless adapter. The W-USB is available for purchase at your local wholesale distributor.

11. What does the SWIFT tool help with?
    a. The tool provides visibility to the radio communication. It has three main functions.
        i. Extract and analyze site survey data; providing recommendations.
        ii. Installation (assigning profiles, removing profiles, starting/stopping mesh formation, etc.)
        iii. Diagnostics (viewing mesh infrastructure, statistics, history, signal strengths, battery information)

12. Will there be more information on the SWIFT tool available?   Online training?
    a. There are a series of short videos on YouTube to demonstrate the capabilities of not only the SWIFT tool, but the SWIFT products in general.

13. Does each network need their own ANN-80-W?
    a. Yes, the ANN-80-W physically connects to the Display Driver (W-DIS-D) to display the wireless specific events from the wireless network.

14. What information will show on the ANN-80-W?
    a. ONLY wireless specific events for its mesh network.   Low battery, tamper events, weak links, devices missing a redundant path, jamming, etc. It will <u>not</u> show alarms, activations, non-wireless troubles (AC fail, open circuit, short circuit, etc.), or events from other mesh networks.

15. Why do you need a separate ANN-80?
    a. The separate annunciator is to fulfill the NFPA, UL, and FM requirements for event display of the wireless specific events. It is separated so the product line is compatible with the current FACP without requiring an upgrade.

16. What about a SWIFT Fire-CO detector?
    a. This is our first release of SWIFT Wireless. We are currently evaluating the roadmap future products. The FIRE-CO detector is being considered for future development.

17. What about SWIFT Pull Stations?
    a. This is our first release of SWIFT Wireless. We are currently evaluating the roadmap future products. The Wireless pull station is being considered for future development.

18. What kind of battery is used in the SWIFT devices?
    a. (4) CR123A batteries.

19. For batteries, 2 years doesn't seem very long.   What's the deal?
    a. Two years is very competitive for a commercial fire wireless system. The combination of being a commercial system which requires devices to report their status much more frequently than a wireless solution for residential or security applications as well as the mesh technology contribute to the battery life. Mesh networks have many advantages over point to point systems, but one of the downsides is that the radio is more active, using more battery power.

20. Where would someone purchase batteries for the SWIFT devices?
    a. The batteries for the SWIFT devices are widely available and can be purchased at your local wholesale distributor.

21. Is this included in Fire-Lite's Battery Calculations tool?
    a. Not yet, but it is being developed. Stay Tuned!

22. Has SWIFT received CSFM, FDNY, UL or ULC approvals?
    a. Yes, SWIFT has received UL listing, CSFM approval, and FM approval. FDNY is pending. SWIFT is not ULC listed.

23. How can you get a local AHJ to accept wireless?
    a. Wireless technology is already accepted in many jurisdictions. If you need help with approval in your jurisdiction, please [contact](#) a Regional Sales Manager.

24. Does NFPA 72 accept wireless?
    a. Yes. Wireless has been included/covered in NFPA 72A since 1987.   In the 2013 edition of NFPA 72 refer to section 23.16 which covers "Special Requirements for Low-Power Radio (Wireless) Systems."

25. Are there instances where you shouldn't use SWIFT in an installation?
    a. Yes, there are a few instances where SWIFT wireless should not be used – 1) Areas where the site survey has determined there is too much in-band activity or the noise floor is too high; 2) Anywhere the site survey indicates you do not have sufficient signal strength to establish a connection and there is no option for a repeater; 3) Anywhere that the operational limits of the products are exceeded.

26. What is Clip Mode v LiteSpeed™?
    a. Both are communication protocols between the Fire-Lite fire alarm control panels and the addressable devices. LiteSpeed™ is an advanced communication protocol capable of higher speeds enabling additional features. LiteSpeed™ is only supported on the MS-9200UDLS and MS- 9600(UD)LS.

27. I have a location with a need for projected beam detector. Is there a power source that can be used so a non-wireless detector can be used without wires?
    a. No. The only possible solution would be using a wireless monitor module to monitor an existing

conventional detector.

28. Will the SWIFT wireless products be available in other countries?
    a. Yes, but it is currently only available in the United States.

29. Will SWIFT include sounder bases eventually?   Wireless Control Relays?
    a. This is our first release of SWIFT Wireless. We are currently evaluating the roadmap future products. Outputs such as relay modules, control modules, sounder bases, and horn/strobes are being considered for future development.

30. What happens at the panel when a device is off or out of service?   What shows on the panel?   Or ANN-80-W?
    a. The point will be an invalid reply (*INVREP*) at the FACP. In addition, on the ANN-80-W you may have a latching event to indicate tamper if the device was removed from the base or you may have a latching low battery trouble if the device is completely inoperable.

31. What resources are available to help learn more about the products?   Videos? Tech Support? Training?
    a. Overview and technical videos are available on www.firelite.com. We are working on incorporating a wireless session in the 2015 Fire-Lite Academy trainings.

32. Will this webinar be available to re-watch?
    a. Yes, the webinar is available to watch at online.

33. Are other brands carrying these products?
    a. Yes, other Honeywell brands carry these products. Each brand's products are unique to that brand.

34. Is there a wireless system guide? Any way to work up a quote without doing a site survey?
    a. A simple site survey is the best way to gauge if the environment is conducive to wireless technology. Without doing a site survey, there is a risk that certain aspects of the building have a negative effect of signal strength.

35. Will you have subsequent webinars on this topic?
    a. Yes, the next topic will go into more detail on site surveys and SWIFT Tool. You can register here.

36. Are CEU credits available for this webinar?
    a. Sorry, but there are no CEU credits for this webinar. Fire-Lite Alarms holds training classes around the U.S. that offers CEUs. Please check our website for more information.

Please note:
While we have tried to answer your questions as fully as possible there are some questions that need a more detailed answer. If you have questions regarding what was heard in this webinar here are some contacts to reach out to:
Fire-Lite Alarms Technical Support is available for brand specific questions. Fire-Lite Tech can be reached online, via email at firelite.tech@honeywell.com or by calling 1-800-627-3473, Monday – Friday, from 8 am to 7 pm ET. Find a Regional Sales Manager in your area.