SWIFT® FWSGAUS
FlashScan® Wireless Gateway

NOTIFIER® by Honeywell

Intelligent Wireless Devices

General

The SWIFT® Wireless System can be applied in many situations that are problematic for traditional wired devices. In cases where areas of a building are difficult or impossible to wire, visually sensitive, or have restricted access, SWIFT wireless sensors provide an efficient, reliable solution. SWIFT wireless devices communicate via a proprietary wireless mesh protocol to communicate with a NOTIFER® ONYX® fire alarm system by means of a SWIFT Wireless Gateway. The SWIFT Gateway connects to the SLC loop of an AFP-3030 panel using FlashScan® protocol. New type IDs for wireless devices are supported that allow the FACP to display all events such as alarms and fault indications, as well as unique fault conditions required for wireless devices.

Wireless devices in a SWIFT network develop "parent-child" communication links with other devices in the mesh, so that a message originating from a remote device "hops" to the closest parent device, and then to successive parent devices until the message reaches the gateway. Alternate paths are also identified and supervised by the SWIFT protocol providing approved closed loop wireless communication. If a device does not have an established communication path with adequate signal strength, an additional device such as a wireless module may be installed in between so that it will act as a repeater.

A SWIFT Gateway system supports up to 50 devices: 1 SWIFT Gateway and up to 49 wireless detectors and monitor modules. The Gateway assumes one SLC address (module), and each wireless device assumes one module or detector address. The maximum number of gateways on a system is limited

by the number of available SLC addresses on the FACP, or a maximum of 4 gateways within common wireless range.

The SWIFT system has been designed so that it can be installed using only typical hand tools and magnets. However, the SWIFT Tools PC utility provides many benefits that can enhance the process of performing a site evaluation (Site Survey), installing a system (Mesh Configuration), or extracting detailed information from the system (Diagnostics). The utility runs on a Windows® laptop, and uses a USB radio antenna (W-USBAUS) inserted into a USB slot to communicate with wireless devices within range of the PC. Once devices have formed a mesh, SWIFT Tools can provide current information on all devices in the mesh as long as the PC is within range of the SWIFT Gateway.

The result is a fire system that combines both wired and wireless detection and presents all event information at the panel and/or network displays, when used.



FWSGAUS FlashScan Wireless Gateway

Features & Benefits

- SWIFT wireless mesh protocol specifically for fire and life safety systems:

- Operates in 915-928 MHz frequency.

- Patented cascading-wave mesh operation provides a verification of redundant communication paths Maximum Remote Users: 50.

- In the event that a communication path is interrupted at any point by a change in the radio environment, the SWIFT mesh system will use the redundant or backup communication path History File Capacity: 2.5 Million Records.

- In the event that any links cannot be established with sufficient signal strength, any SWIFT device can be added to act as a repeater, eliminating the need for wired repeaters. A wireless monitor module is recommended for this function, as modules are not subject to spacing requirements.

- Each SWIFT gateway system support up to 50 devices: 1 wireless gateway and up to 49 SWIFT devices.

- Multiple SWIFT wireless mesh networks can be installed on the same fire alarm control panel, or on multiple panels in the same area.

- Up to 4 wireless networks can be installed with overlapping radio network coverage.

- Site Survey feature allows for an evaluation of a site before the installation, including a series of point-to-point communication tests and a background scan for radio interference.
- SWIFT wireless devices use a standard “code wheel” mechanism for setting the SLC address.
- SWIFT wireless devices use (4) CR-123A lithium batteries (Panasonic CR123A or Duracell DL123A) with a minimum a battery life of 2 years.Operating Temperature Range : Photo: -10 to 49°C; Acclimate with.

Swift Tools

SWIFT Tools is a Windows PC-based utility that is used for site evaluation, system configuration, and diagnostics. The SWIFT Tools program is used with the W-USBAUS adapter to communicate with wireless devices that are not joined in a network, or with one or more wireless gateways and all devices that have formed a network with each gateway. A graphic representation of the wireless network provides important system data in an effective format, including communication links, signal strength, battery voltage, and more.
Tool-less operation is supported, allowing you to perform site evaluation and system configuration and installation can be accomplished without using SWIFT Tools when necessary.

Multi-colored LEDs on SWIFT devices provide feedback for interactions. At any point, only one instance of SWIFT Tools can run on a laptop or PC.

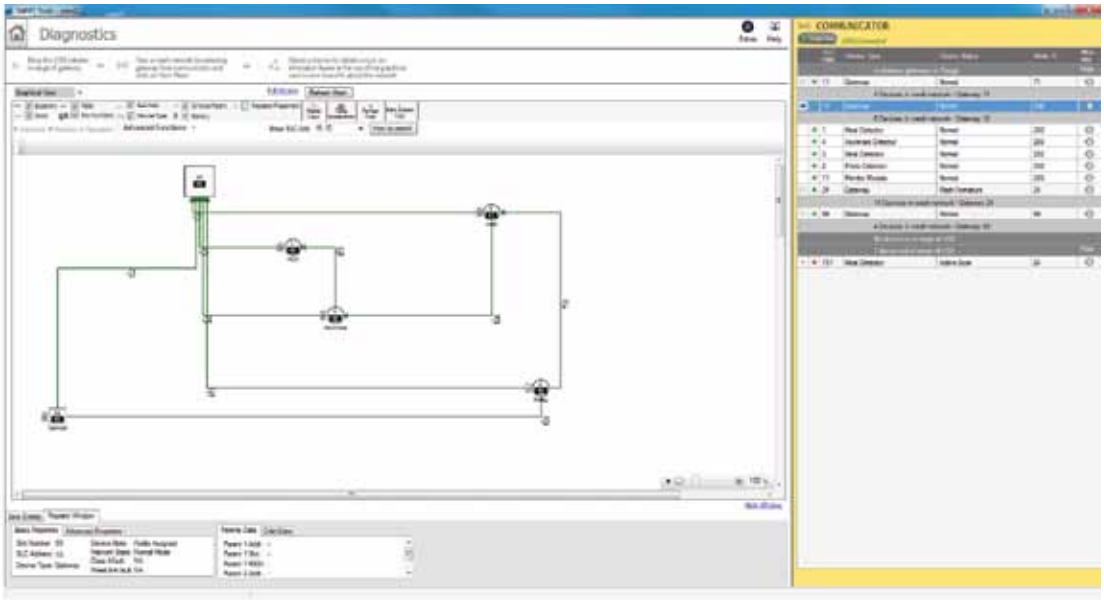
SWIFT Tools has the following utilities:

- Site Survey
- Create Mesh Network
- Diagnostics

SWIFT Tools works in a wireless environment with the FWSGAUS and devices within a range of approximately 6 meters SWIFT Tools is designed for systems running Microsoft Windows.

MINIMUM SYSTEM REQUIREMENTS

Operating System : Windows XP Professional (SP3), Vista, Windows 7, and Windows 8 (32 bit and 64 bit).
Hard Drive : 20 GB hard drive space with minimum 1GB free space on hard disk.
RAM : Minimum 512MB RAM.
Processor speed : 1GHz minimum (2.4 GHz recommended) Processor, 512K Cache.



Example of SWIFT Tools’ Diagnostic Utility

Ordering

FWSGAUS : FlashScanWireless SWIFT Gateway - 1 SWIFT Gateway is required for each wireless mesh, and supports up to 49 SWIFT detectors or modules. Connects to the SLC loop of a compatible panel using FlashScan protocol. Power may be supplied by the SLC circuit or via an optional 24VDC input.

NOTE: Use of the 24VDC input may be more convenient for service as it allows for powering down a gateway without shutting down an SLC loop.

FWD-200PAUS : FlashScan intelligent, wireless photo detector. Requires one B501W base for installation. Requires (4) CR-123A batteries (included).

FWD-200ACCLIMATEAU : FlashScan intelligent wireless Acclimate® heat and photo detector using combined heat and smoke sensor information and the ability to automatically adjust sensitivity based on ambient changes in the environment. Requires one B501W base for installation. Requires (4) CR-123A batteries (included).

FWH-200FIX135AUS : FlashScan intelligent wireless fixed-temperature 57°C heat detector. Requires one B501W base for installation. Requires (4) CR-123A batteries (included).

FW-MMAUS : FlashScan wireless monitor module. Used to monitor devices with mechanical contact actuation. Includes a special cover with a tamper magnet built in. Recommended for installation in a SMB500 box (ordered separately) rather than a metal backbox for best performance. Ships with 4 Panasonic CR123A or 4 Duracell DL123A batteries. (See data sheet for more information).

SMB500 : Optional surface-mount backbox.

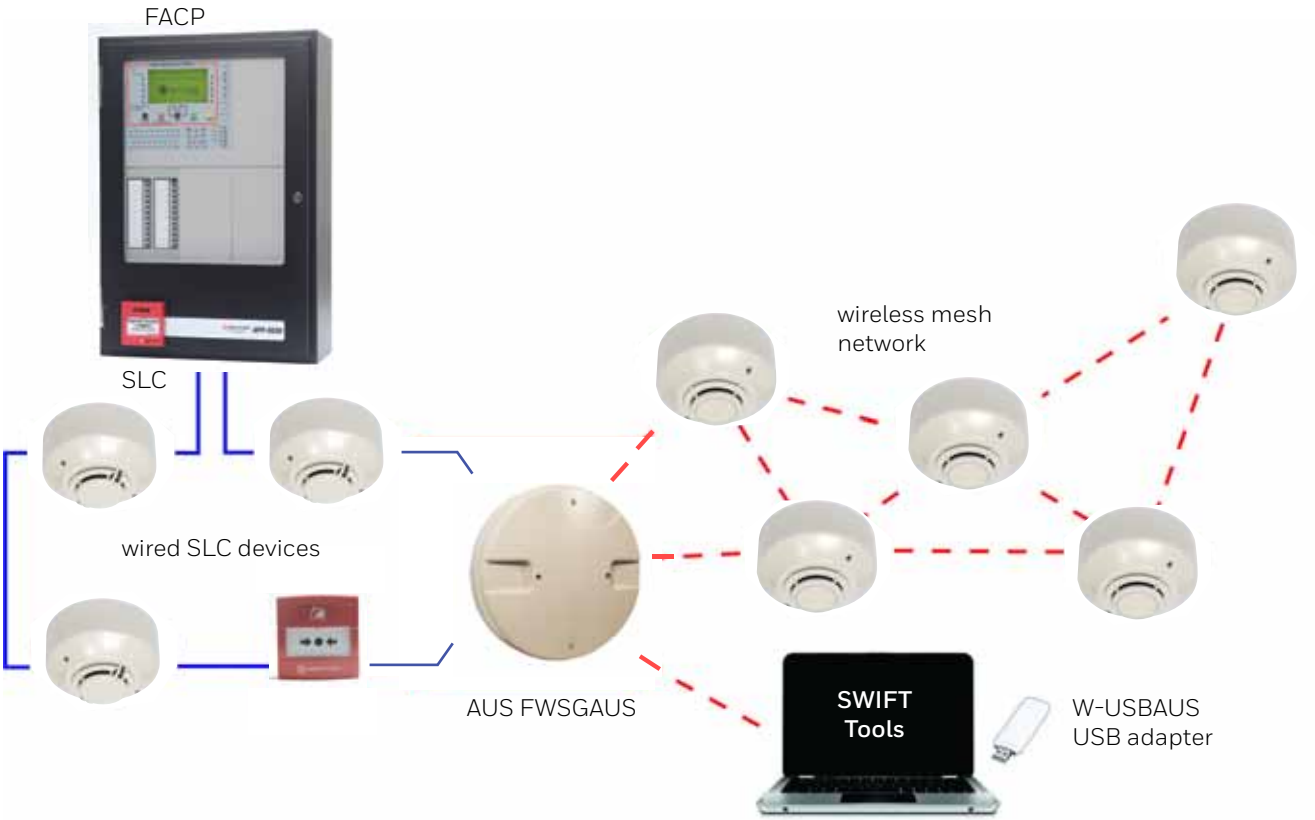
B501W : Detector base used for wireless detectors. Includes a built-in magnet so that wireless devices can establish installed and tampered states.

FW-PTOOL : System Requirements for SWIFT Tools). Requires the W-USBAUS radio/antenna dongle for communication with SWIFT Wireless devices.

NOTE: SWIFT Tools is intended for use with NOTIFIER branded products. It will not work with other brands.

W-USBAUS : Wireless USB radio/antenna dongle that plugs into the USB port of a PC running SWIFT Tools. The W-USBAUS provides a communication link with SWIFT Wireless devices that are within approximately 6 meters and have not formed a mesh. Alternately, when the devices have formed a mesh, bringing the PC/W-USBAUS within range (6m) of the gateway for that mesh will allow SWIFT Tools to acquire information on all devices in that mesh, including point-to-point signal strength for all links.

SWIFT Network



Agency Listings and Approvals

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult system consultant for latest listing status.

AS ISO 7240.25:2015
AS ISO 7240.18:2015
AS ISO 7240.17:2015
AS 7240.5-2004
AS 7240.7-2004
Approved to NZ 4512:2021, FPANZ Listed

* Compliant with ACMA Radiocommunications Class 2000 and Class 2002 National Rules.

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