



PROSPER FIRE RESCUE

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NFPA Supervising Station Communication Methods

The Town of Prosper recognizes the rapidly retreating support of traditional analog copper-based telephone communications methods in favor of newer transmission technologies and their advanced communication capability. In consideration of the impact these advances have on fire alarm systems, the Town of Prosper embraces and promotes the use of listed equipment using alternate communication methods described in Chapter 26 of NFPA 72, 2019 Edition.

All methods of communications between the protected premises and a Listed/Approved Supervising Station are accepted in the Town of Prosper as long as they comply with:

- Federal Communications Commission Rules & Regulations as applicable
- The manufacturer's product as Listed and/or F.M. Approved for such Services
- Compatibility between the manufactured product and the supervising station
- "Performance-Based Designs" must comply with Section 26.6.3 of NFPA 72, 2019 Edition.

As such, in accordance with Section 26.6, Communications Methods for Supervising Station Alarm Systems, of NFPA 72, the following are the only permitted communication methods allowed by the Town of Prosper.

- (1) One-way private radio alarm system
- (2) Two-way RF multiplex system
- (3) Cellular 4G or 5G systems.
- (4) IP based systems.

POTS, plain old telephone systems, traditionally the analog copper phone lines are not permitted for any new installations. Existing installations shall be replaced with the above methods when the existing POTS lines no longer function as part of the sunseting of traditional underground copper phone lines as noted by the FCC.

Regardless of the communication method chosen from the fire alarm control panel (protected premise) to the central station monitoring (CSM) center, the method of communication shall comply with the provisions noted in NFPA 72 for backup power, path supervision and shall be listed by UL 864.

Exhibit 26.9 illustrates the communications methods addressed by the Code and permitted by the Town of Prosper.

26.6 Communications Methods for Supervising Station Alarm Systems.

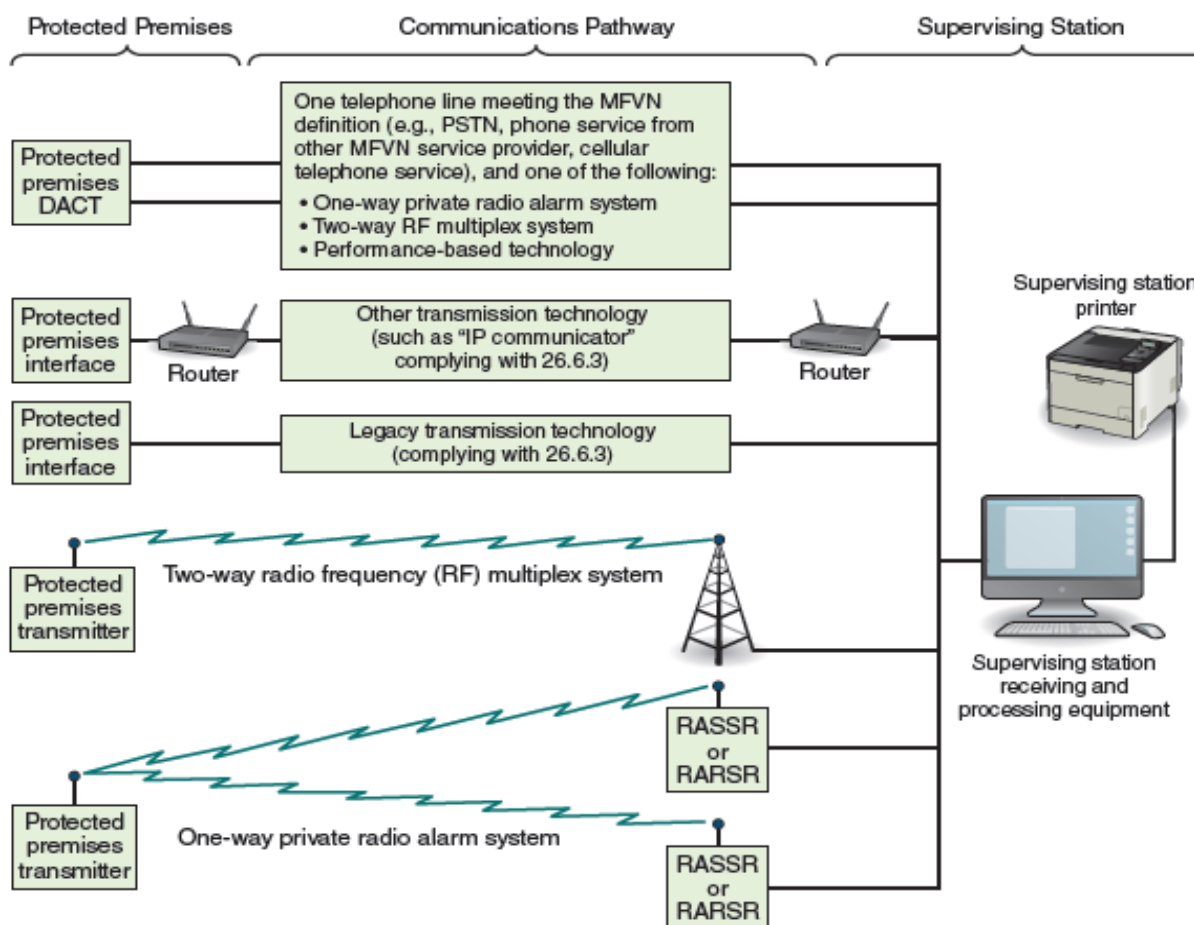
There are five communications methods addressed in the Code. The first communications method is a digital alarm communicator system (DACS), addressed in 26.6.4, which uses a DACT at the protected premises. The second method is a more general category of performance-based communications methods, addressed in 26.6.3, which uses what was formerly called "other technology" such as an "IP communicator" at the protected premises. The third method is the category known as "legacy" transmission technologies, which are no longer being installed and are addressed only conceptually in 26.6.3 (see also A.26.6.3). The fourth and fifth communications methods are two types of radio systems, addressed in 26.6.5, that use radio transmitters at the protected premises. All these communications methods are addressed in more detail in subsequent commentary.

Exhibit 26.9 illustrates the communications methods addressed by the Code.

26.6.1* Application.

A.26.6.1 Refer to Table A.26.6.1 for communications methods.

EXHIBIT 26.9



Communications Methods for Supervising Station Alarm Systems.