

Attendance verification

Supplementary information

Emergency services



With the advent of Fire Control there is a need to determine firefighter attendance at the station with an automatic firefighter attendance verification system.

Attendance information should be fed back in real time to the originating Fire Control RCC, which can then make an informed decision as to the viability of continuing the mobilisation to that station, dependent upon attending personnel. In addition, the personnel attendance may be displayed within the station.

The system will utilise the RPR602 firefighter's alerter, which will contain Ekotek electronics, with minimal drain on battery life.

Usability

- The system only needs to be active for mobilisations
- All timings are referenced from the Firecoder, which is referenced from the main command and control
- The system is able to send data to other nodes via existing resilient bearer infrastructure
- The format of this data will be in industry or custom protocol standards
- Station personnel are able to replace pagers and attach their identity to that unit. This may be under the control of a station officer
- For wholetime stations, it may be required to have a continuous on-site display so that personnel can be tracked within the station
- Additional hubs within pumps log the "riders" on to that pump

RPR602 paging receiver



Repeater



Hub



Solar powered repeater



Automatic firefighter attendance verification system

An RPR602 alerter will have a modified EkoTek fob installed within the alerter. The fob will be activated upon receipt of a valid call to that alerter and will remain activated for a defined period (15 minutes). The fob will continue to "seek" the hub every 15 seconds during the 15 minute period.

Every "log on" will be outputted to the ES-Firecoder via the SysLog protocol and every "log off" will be outputted to the ES-Firecoder via the SysLog protocol. The ES-Firecoder will accept the output of the SysLog protocol via a LAN connection (preferred) or a serial port should LAN be unavailable. The ES-Firecoder will then transpose the data into GD92 packets for transmission to another node.

The recipient node will accept the data and display the following on a monitor:

- name of the logged in user
- fire service number of that user
- rank of the user
- job function of the user
- time logged on
- time logged off

EkoTek technical specification

Operation frequency:	2.4 GHz-16 channels
Radio power:	10 mW
Radio structure:	Self-configuring/repairing mesh for range and easy expansion
Hub interfaces:	DC power input, alarm contacts, serial to external paging, input/output antenna
Powering:	All devices battery powered except for the Hub which has an external DC power input and internal backup batteries for operation during mains failure

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