



Evacuation Alert Systems (EAS) to Existing residential tower blocks

The Logistics of installing an EAS or, when more applicable, an automatic fire alarm to a building that already has residents in place could be a huge problem, but these hurdles must be overcome.

14 floors with potentially 10 flats per floor equates to a logistical nightmare for installing traditional fire alarm equipment.

A solution that will speed up & aid the process of installation is to combine two technologies.

- Install the main infrastructure as hard-wired loops securing the system's integrity by using enhanced fire-resistant cable and with each floor having a dedicated Wireless Translator.
- Arrange installation day with tenants to gain access to the flats then quickly & efficiently install radio wireless devices to include Sounders, Beacons, (Smoke and Heat detection for FDA systems only) even output relays (to assist with the hearing impaired etc.), then out of the flat and done.
- A floor of individual dwellings can then be installed and tested within a day causing as little disruption as possible and a complete building system can be gradually installed in a controlled manner.

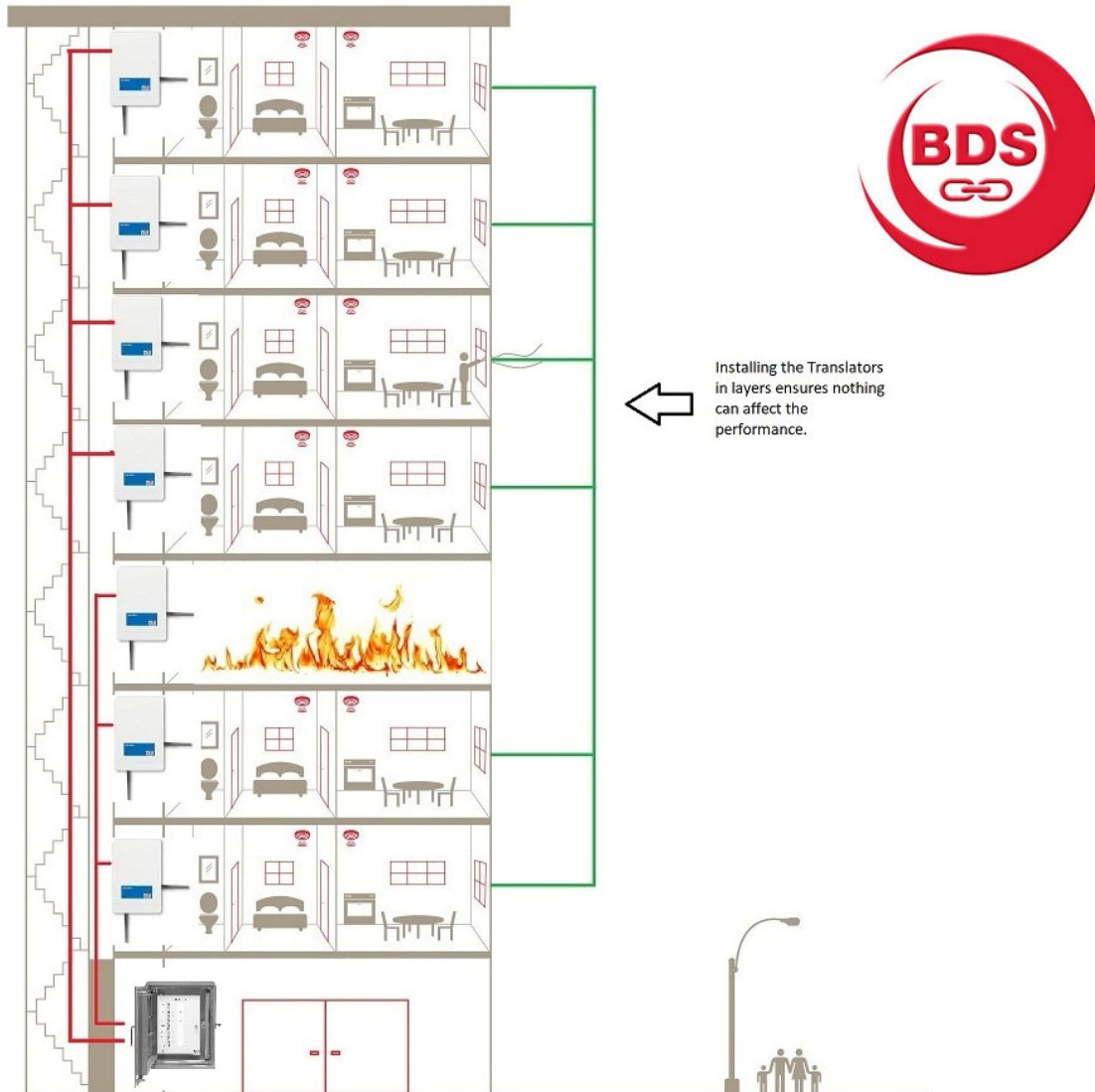
A source of concern appeared through The Grenfell report, which stated that at some building fires, firefighters had issues communicating with their radios between the ground and the top floors.

Due to the distance of the signal and the interference present from hot twisting metals and metallic particles in the hot smoke etc, you may expect that signal attenuation would have occurred. However, due to the architecture required for a BS8629 system, as stipulated in the code of practice, there will be a translator on every floor for the wireless elements of the system.

As such, the signal will never have to pass up or down a floor. Even if there was a fire in the floor above, the signal wouldn't need to pass through it to reach the relevant sounders.

If there were a fire grave enough to distort the signals on a singular floor those on that floor should have already been evacuated by the fire service regardless. By using a Hybrid system, we won't be stretching the wireless system to any degree in terms of distance.

We have included a diagram to demonstrate this solution.



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