

Enabling Connected Homes with Optical Fiber Solutions

With the advent of the Internet of Things (IoT) creating a surge in applications, real-estate developers, property owners and building tenants alike are looking at leveraging emerging technologies to make their residential assets smart ready for the future. This transformation is not limited to just building heating, ventilation, energy control and security systems but enabling these and many others to exchange information over the cloud. In addition, the lifestyle and experience of residential tenants is being significantly improved with an incredible amount of technology that makes its foray into their daily lives. The communications infrastructure is at the heart of such change, which is quickly adopting fiber optics both to and inside residences. This future proof technology with almost unlimited capacity operating at the speed of light, has accelerated globally over the past few years to facilitate the exchange of machine to machine information inside the building and residence, as well as service the insatiable demand for bandwidth by high touch applications such as video streaming, education, telehealth, gaming and others. This white paper will discuss the drivers, trends and benefits of installing optical fiber to and inside brownfield and greenfield homes.

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Roughly 8-10 pages

- Title / Authors
- Abstract – similar to proposal on IoT, growth of smart devices etc. requiring future proof infrastructure
- Introduction to IoT and latest trends – maybe draw on CABA thinktank, CES etc.
- Connecting homes – drivers and what is going into homes
 - Video - OTT / Streaming, conferencing, mobile apps
 - Data – gaming, VT and regular staple
 - Devices – smart meters, control systems, smart electronics
- Discuss growing needs for bandwidth and relate to secure futureproof infrastructure
- Present data points on the uptake of fiber, homes passed, connected and trends
- Offer Fiber as one solution and discuss various solutions for
 - Brownfield
 - Greenfield
- Summary
- Author bios
- References