



IoT in Telecommunication



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Cell towers, or more accurately cell site are the lifeline of the telecommunications industry. The cell site consists of the tower, the control room and power sources. Monitoring and maintaining these sites is difficult, but IoT is here to make it a whole lot easier. Here's how.



Cell Tower

The tower consists of valuable electronics which enable communication. IoT enables smart monitoring through real-time tracking. So, even if electronic components are stolen, they could be located and retrieved.



The Control Room

The control room is the brain of cell site. If someone with malicious intent gains physical access to the control room, they can wreak havoc. IoT enables smart monitoring and advanced user verification to help prevent unauthorised physical access to and usage of the control room.



Power Sources

There are three power sources for the cell sites, the grid, battery and diesel generator. IoT enables monitoring the health of these power sources, so that we can get efficient and cost effective usage out of them. IoT also helps us monitor diesel consumptions, detect theft and maintaining adequate supply. Since diesel and batteries are involved, fire, either accidental or intentional, is something we need to handle and IoT helps in doing that in the best possible way.

About Redeem Systems

Redeem Systems is a pure-play Engineering and Digital Services Company with focus on mission critical highly engineered + high availability systems. Our global presence spans Asia-Pacific, Middle-east, Europe and North-America.

Our focus verticals include – Tele-communications, Medical Electronics and Aerospace & Strategic Electronics.

Our Product Engineering competencies include Product Design and Development, Verification & Validation, Emerging Markets Strategy and Product Life-Cycle Extension through Value Analysis and Value Engineering

Our Digital competencies are focused on Industrial Internet-of-Things (IIoT), Engineering Big Data Analytics and Software Defined Networking (SDN)/ Network Functions Virtualization (NFV).