

Project Design Phase-I Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID48307
Project Name	INDUSTRY SPECIFIC INTELLIGENCE FIRE MANAGEMENT SYSTEM
Maximum Marks	4 Marks

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- In automated system, the presence of fire in the building will be picked up on by designated fire detectors. Then these fire detectors will in turn, trigger the fire alarm.
- If the fire is nearby, Remove occupants, enclose the area, activate alarm, call 5555, Try to fight the fire if safe to do so
- Install and maintain fire alarm. Place fire alarm on our factory or industry. Tens fire alarm once a month.
- Industrial fire safety measures include those that are intended to prevent ignition of an uncontrolled fire and those that are used to limit the development and effects of the fire after its starts
- These accidents can occur from faulty wiring defective products, discarded cigarettes left on flammable materials, smoke and fire detectors that failed to activate.
- Detect the presence of fire and alert its presence to the fire officials through mobile hotspot and internet from any place.

EXISTED SYSTEM:

WATER SPRAY FIRE SYSTEM:

Water spray systems are permanently installed systems that take out fire through water spray from interconnected nozzles, often seen in buildings ceilings.

FOAM FIRE SYSTEMS:

A foam fire suppression system is a type of wet sprinkler system that combines both water and foaming agent for large scale fire extinguishment. This water based fire sprinkler system can extinguish extensive fire mere seconds with incredible efficiency.

WATER MIST FIRE SYSTEM:

Water mist sprinkler systems use fine water droplets to extinguish fire, opposed to a heavier quantity of water used by regular sprinklers. They control fires in a number of ways, they can coordinate the flames and the surrounding gases by evaporation, as well as displacing the oxygen.

Solution Architecture Diagram:



