

## **Software defined Network for IoT Systems with Site redundancy**

In present Industry Revolution, Industry 4.0, the trend is towards Process automation with Artificial Intelligence, IoT Technology, Cyber Physical systems and Cloud & Cognitive computing. Even though with the technology improves the quality of life, the concept emerges from a human brain. The world is surging towards the industry 5.0 where Human- Robot collaboration dominates the world. With advent of IoT Sensors in process industry, the process automation & integration machine made easy for production. However, there are critical challenges such as computational capabilities, communication bandwidth and redundancy of computational systems.

The focus of this proposal is to investigate & implement Software Defined Networks for IoT Systems/ Sensors with site redundancy for making high available & reliable resources for an Automation plant. The proposal is to establish & prove the network topology with virtualization environment for IoT Systems/Sensors & establishing redundancy of Computing resources.