INTERNATIONAL JOURNAL OF RESEARCH

IN MANAGEMENT & SOCIAL SCIENCE

CRITICAL ANALYSIS ON THE SECURITY CONCERNS OF [IOT] INTERNET-OF-THINGS

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ABSTRACT

The Internet-of-Things [IoT] generates an enormous of data that needs to be managed, analyzed and turned into intelligent business insights. The year 1999 was easily one of the rememberable year for the IoT history, as Kevin Ashton coined the term "the Internet-of-Things." has acquire enormous momentum as a technology in which physical objects would be interconnected as a result of combining of various existing technologies on Internet. Hence the more advancement in technology comes with more potential threats and vulnerable situation can caused by unproper device updates, lack of efficient and robust security design and user unawareness are among the challenges that IoT is facing. Internet-of-Things [IoT] device is burning topic in the current era. We understood how these smart devices developed by mankind for mankind are impacting in both positive and negative ways. These paper examine the security problems and provides a well defined security framework discusses future applications and research challenges.

INTRODUCTION

The Internet-of-Things[IoT] defined as a system of interrelated object connected to internets that are able to collect and transfer data through a wireless network without human interruption.

In the 1960s. During that period, the idea was called pervasive computing or embedded Internet. Ashton presented the IoT concept to improve interconnectivity of activites. However, diverse functionalities of IoT has helped it to gain strong popularity in the summer of 2010. The Chinese government gave strategic priority on IoT by introducing a five-year plan.
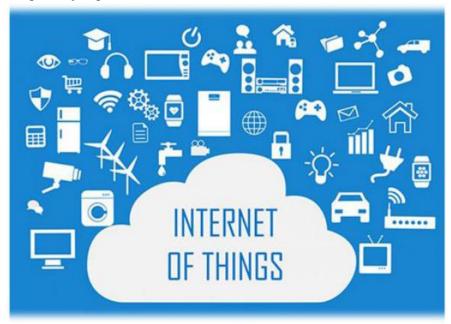

Fig 1. Network Internet-of-Things [IoT] Applications

IoT enabled devices have been used in industrial applications and for multiple business purposes. It is essential to have professionals to overcome these threat concerns and develop comprehensive security measures and policies to protect their business assets and ensure services continuity and stability. For example, smart kitchen home IoT enabled appliances connected to the local network can be a source of the breach for hackers.

In every instance new technology emerges, or changes are made to previous one. For example the latest advances in the 5G network, for example. 5G network is expected to play an essential role in the IoT systems