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Due to the inextricably linked nature of IoT to the existing Internet framework, a solid understanding of existing Internet standards was also necessary along with some background information as to how and why standards are developed. A thorough understanding of the cryptographic approaches involved in modern Internet standards was very important for assessing the quality of alternative approaches.

#### Objective 2:

In conjunction with the generalised research into IoT, an alternative authentication approach has been proposed as an alternative to TLS which utilises a zero-knowledge proof to reliably authenticate devices for a relatively low computational overhead (Goldwasser, Micali, & Rackoff, 1985). An initial proof-of-concept prototype was to be developed to ensure the protocol's viability. Following the successful implementation of this initial prototype, the focus moved toward achieving a means with which to ensure confidentiality of data sent over the network and an updated version of the prototype was produced which aims to achieve this goal.

## **1.4 Published Works**

The work undergone in the research process for this thesis led to papers for the work being accepted at two conferences to be presented over the summer of 2014. This thesis expands upon the content of these papers by delving into the subject in significantly greater detail. It also features a practical implementation of the protocol.

- “ZKP in M2M Communications”  
Irish Signals & Systems Conference 2014; Limerick, Ireland  
(Schukat & Flood, 2014a)
- “Peer-to-Peer Authentication for Small Embedded Systems”  
10<sup>th</sup> Annual Conference on Digital Technologies, Zilina, Slovakia  
(Schukat & Flood, 2014b)

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