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IOT EXECUTIVE SUMMARY

To the average person the “Internet of Things” (IoT) means very little, but this is changing as the number of “cyber attacks” that involve them is increasing and public awareness grows.

As the recent attack on the UK Nation Health Service showed, all of our services we take for granted, are being connected to the web, and if they are rendered inoperable then real world issues occur and patients suffer. In the recent Horizon program on the UK BBC channel https://www.youtube.com/watch?v=tlhmRaZ7QN4 it outlined that the most worrying aspect of the attack was the potential not only to affect the computers of the health service – but all the machines: MRI and CAT scanners, Drug Infusion Machines, Patient pacemakers, Vital Statistics Machines....

These machines we describe as IoT because they are not traditional computers as many people understand them (Windows, Mac, iPad, iPhone etc), but they are connected to the internet. The problem is that unlike traditional computers (Apple Mac or Windows PC) which have relatively good security, and can be updated, IoT generally has no security and cannot be updated.

Security for computer systems has largely been left to individuals and companies, with little legislation. Slowly new guidance from government for cyber security is being issued. For example, the “Cyber Essentials” programme in the UK is a good programme, and is designed so that companies can achieve a basic level of cyber security and receive Insurance against compliance with this.
However no guidance exists for any IoT products. Governments, industry and individuals have been left using products with either no security or worse still badly designed security.

As the take up of IoT becomes widespread, and companies such as Gartner predicting some 26Bn devices by 2020, a solution to the Cyber IoT crisis must be found, and quickly.

A number of Industry Experts, large companies and Governments are all looking into this issue and will eventually issue guidance (3-5 years away). In the meantime millions of devices will be produced and used before guidance can be issued.

Blueskytec believes we have a solution to the IoT problem. We understand that there is not a “one-size-fits-all” solution to this problem so we have designed scalable and appropriate technology that targets everything from a $1 internet enabled kettle to a $2,000,000 car.

Blueskytec has a proven track record in securing IoT. We started designing our solution 4 years ago with a mission to produce a range of products designed to meet FIPS140 (currently undergoing certification). Our main lead architect and designer is Dr Chris Mobley, who is well know in the Defence and Security world. Chris has applied his considerable knowledge to the problem of IoT and the result is a range of products that can secure IoT devices with minimum cost and appropriate security.

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