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## Cyber Security Challenges within the Connected Home Ecosystem Futures

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#### 4. Conclusions

The paper discussed the issue of connected home ecosystem futures in reference to various threats that makes such systems vulnerable and a lucrative target for cybercriminals. In the near future, cyber security experts will see an increasing threat to the home infrastructures as the key target and challenge for them to address as cybercriminals will find such systems easy to use and infiltrate. This is also true to mobile smart device users who can expect to see a striking increase in malware and notable advancements in malware-related attacks, particularly on the Android platform as the user base grow exponentially. Today's users utilize their mobile smart devices for everything from accessing emails to sensitive transactions such as online banking and payments. As users become more dependent on their mobile devices as digital wallets, this creates a very lucrative target for cybercriminals, and a huge challenge for security experts. Mobile smart device users can expect to see a significant malware increase on finance related applications, such as mobile banking.

This work is part of ongoing research to design and implement a security model for smart devices in smart home connected ecosystem futures, where in our previous publications we have proposed frameworks and provide some implementations of how to handle some of the identified threats discussed in this paper. The focus of our future work is to provide a test bed that will allows cybersecurity experts experiments on way of addressing this increasing threats and how to align this with the development on tackling cybersecurity in national infrastructures.