

ANNEX D

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FACTSHEET *Internet of Things @ Home Initiative*

Singapore is pushing towards becoming the world's first Smart Nation, one that is able to use technology to enhance transport, healthcare and other public services. New technologies, integrating seamlessly in our day to day lives, can improve the quality of life for individuals in an increasing connected world.

The Internet of Things (IoT) represents a connected world that links the objects of the real world with the virtual world, thus enabling anytime, anyplace connectivity for anything and for anyone.

Various IoT applications are evolving and different types of smart devices are being designed and deployed in the home. IoT solutions that are deployed in the homes include wearables, home appliances and other devices. These current solutions are connected within their own networks and their functions are limited within each of the solution, hence resulting in non-interoperability. The network effects arising from such non-interoperability is inhibited, in that such devices are not able to "talk" to one another, and thus unable to operate optimally for the benefit of the users. This in turn impacts the potential of the services and hence, the utility of such IoT solutions in the home setting.

The ***IoT@Home Initiative*** aims to address a central challenge in making IoT a reality, which is the enablement of seamless interoperability between each connected smart device as they are applied in a home setting. Addressing this challenge is essential to unlocking the full potential of the IoT.

The initiative involves working with industry to identify relevant open standards and open architecture, as well as developing and trialling innovative IoT solutions for homes. Specific areas of applications considered include *Wellness, Active Ageing, Home-based Care and Sustainable Living*.

Identify Open Standards

An industry Working Group has been set up within the auspices of the IT Standards Committee, to identify relevant open standards which are appropriate for the home setting, which a set of Technical References will be developed.

Industry Engagement Sessions

Industry players will be invited to join IDA in a series of engagement sessions to discuss and contribute ideas on the possible innovative IoT products and services that can be developed and deployed for the Singapore homes.

As part of the initiative, IDA will be working with HDB to conduct an IoT technical performance study and to identify the relevant technical standards to be applied for IoT solutions to be used in public flats.

Another possible area of collaboration could be to establish a volunteer base to understand and gather user needs in homes and to serve as volunteer homes in a specific residential zone to trial the potential IoT solutions in a public housing setting.

For media clarification, please contact:

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