

Team transforms rings and structure fingernails into user interfaces (w/ Video)

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VTT Technical Research Centre of Finland has developed technology whereby a ring, structure nail or wristband acts as a user interface allowing files to be transferred directly from one screen to another by touch. The new technical solution is the first step towards the interactivity of various objects and jewellery through a cloud service.

The solution developed by VTT allows files to be received, sent and shared more easily than before. You can touch a file on one screen, for example, with a structure nail and transfer it through the nail to your friend's smartphone or even to your car. This emphasises intuitivity and interactivity. Consumers will find the new InTouch user interfaces easy to use and interoperable in the world of digital devices and objects.

The new concept also enables entirely new kinds of interactive devices and product categories and generations, and opens up new business possibilities. Areas of application might include digital devices, cars, the manufacturing industry, logistics and health care. There is a patent pending for this technology.

From end user viewpoint the data transfer between devices is currently handled using memory sticks, short-range point-to-point connections (for example, Bluetooth) or the cloud (sharing services). All these methods are fundamentally tied to traditional devices and standardised usage methods e.g. deep menu hierarchies.

The InTouch [user interface](#) operates with touch screens and conforms to

the NFC standard. InTouch allows file transfer either directly or via a cloud service. Security and privacy are retained through the integrated security functionality.

Provided by VTT Technical Research Centre of Finland

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