

PSIM Suite

<http://portablesim.idc.nttdocomo.co.jp/en/>



PSIM Suite Licensing Begins

NTT DOCOMO has developed Portable SIM technology for transmitting subscriber identity between devices, enabling authentication of target devices on the desired mobile network as needed.

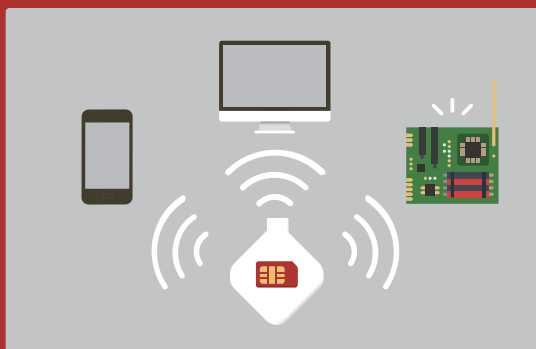
NTT DOCOMO has begun licensing the technologies to companies who wish to consider making use of it for device/solutions development. Portable SIM technology was first announced in June 2014, followed by announcement of an additional version in March 2015. All of a Portable SIM technology with the latest update “psim proxy” has now been packaged as PSIM Suite.

About Portable SIM

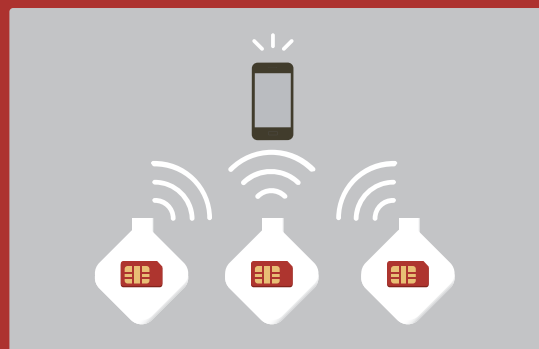
Usually, one SIM card is plugged into one device. When switching to a different carrier for traveling or for other reasons, the SIM card has to be replaced each time.

With Portable SIM technology, a master device which equips the SIM card can transmit SIM information to target devices wirelessly. This technology allows the SIM to be freed from conventional the one-on-one relationship with the device, enabling a wider range of combinations.

Available Combinations



- One master device connects to multiple target devices



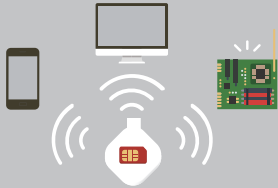
- Multiple master devices connect to one target device

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Core Technologies of Portable SIM

Technology for transmitting
SIM card information to
target devices wirelessly



Portable SIM device (master device)

- Physically separate SIM card from mobile phone
- SIM card information can be transmitted to target devices via Bluetooth
- Main modules of master device is only Bluetooth and SIM card.
- NFC function simplifies pairing

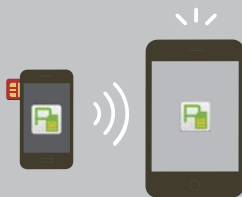
Technology for receiving
Portable SIM device information
to connect a mobile network



psim proxy (target device)

- SIM card-type Bluetooth device
- A target device with a “psim proxy” can connect to master device and receive the SIM card information
- A dedicated application (Android/iOS) can switch the Bluetooth connection from one master device to another

Technology enabling
a smartphone or tablet to be
a master and target device



Software enabling Portable SIM functions (※Referred to below as PSIM software)

- Application (Android) and chipset software (developed with Qualcomm) enabling Portable SIM to be a master and target device
- When used as a master device, SIM information on the card plugged into the device can be transferred to a target device
- When used as a target device, SIM information is received from the master device and used to connect to a carrier network

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Example of Master and Target Device Combinations

| | Master device | | Target device |
|---|---------------------------|---|---------------------------|
| A | Portable SIM device | × | psim proxy |
| B | Portable SIM device | × | Device with PSIM software |
| C | Device with PSIM software | × | psim proxy |
| D | Device with PSIM software | × | Device with PSIM software |

License Cases

vol.1 Cerevo Inc.

A development arrangement was announced with hardware startup firm Cerevo Inc. as the first company to license the technology.

Licensed technology

- Portable SIM device
- psim proxy



Application case for a product

<https://www.youtube.com/watch?v=dFhiD9wKHrc>



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Use Cases of Portable SIM Technology

Use case ①



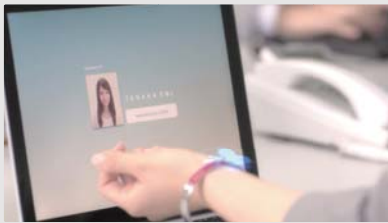
A concept movie of Portable SIM technology (announced in October 2014)

Using a PSIM device as a wearable device

Taking advantage of the compact size to turn a PSIM device into a wearable device. Another potential use is as a personal authentication device, making use of NFC or Bluetooth.

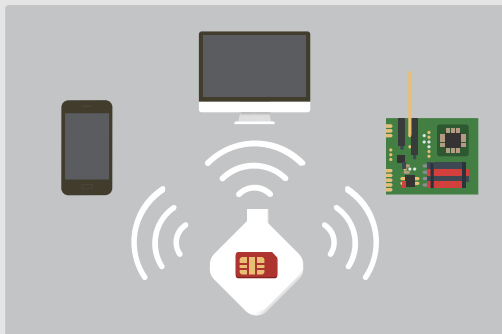
Technology used

- Portable SIM device
- Software enabling Portable SIM



https://www.youtube.com/watch?v=UQF_Vc4i1n0

Use case ②



Connecting IoT or similar device to SIM card only when required

Making use of multiple “psim proxy” functions, multiple devices can be used while switching SIMs, with one SIM card and one PSIM device.

Technology used

- Portable SIM device
- psim proxy

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License Offering



Portable SIM device

- Firmware source code
- Hardware circuit diagrams
- Related documents



psim proxy

- Provision of device itself (consultation with partner firms Microtek and Dyna Card)
- Dedicated application source code (Android/iOS)
- Dedicated application related documents



Software enabling Portable SIM

- Application source code (Android)
- Application related documents
- Chipset software (consultation with partner firm Qualcomm)

Contact Us



IoT device developers, service providers,
and others interested in PSIM Suite should inquire as follows.

contact-psimsuite-ml@nttdocomo.com

PSIM Suite Development Team

NTT
docomo

Dynac **MICROTEK** **SHARP**