Development of Custamizable SoC and SDR in the Beyond5G era

SHARP Be Original.

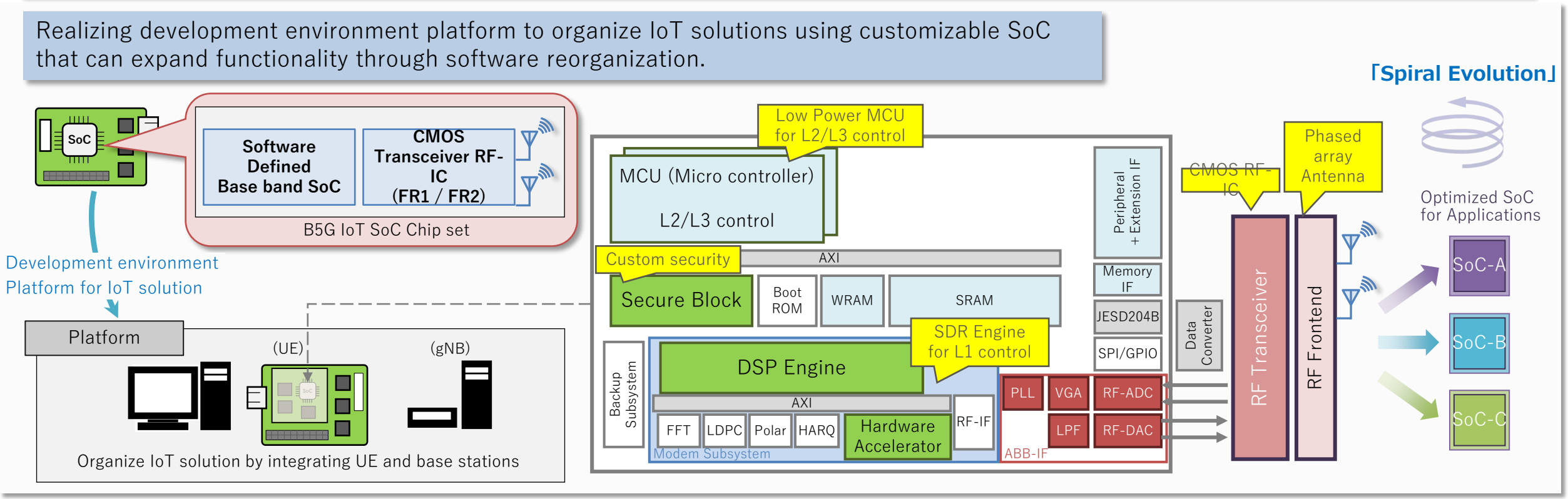
● Research and development of customizable SoC for IoT UEs and the development environment platform for IoT solution in order to expand IoT device market in the B5G era.

-Domestic designed chipset of baseband processing SoC and millimeter-wave compatible CMOS RF-IC.

-Microcontroller-based SoC with advanced security and CMOS RF-IC achieve low power IoT UE devices.

-It will lead to the practical phase of B5G IoT UEs with high international competitiveness.

Realizing development environment platform to organize IoT solutions using customizable SoC that can expand functionality through software reorganization.



This research and development is promoted through research commissioned by the National Institute of Information and Communications Technology (NICT) and the Ministry of Internal Affairs and Communications (MIC).

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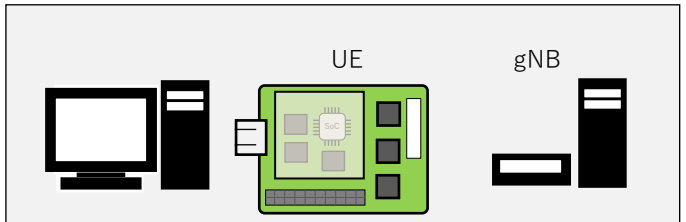
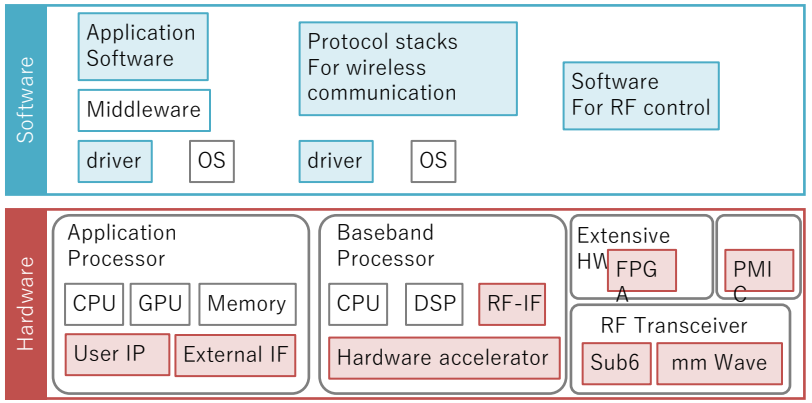
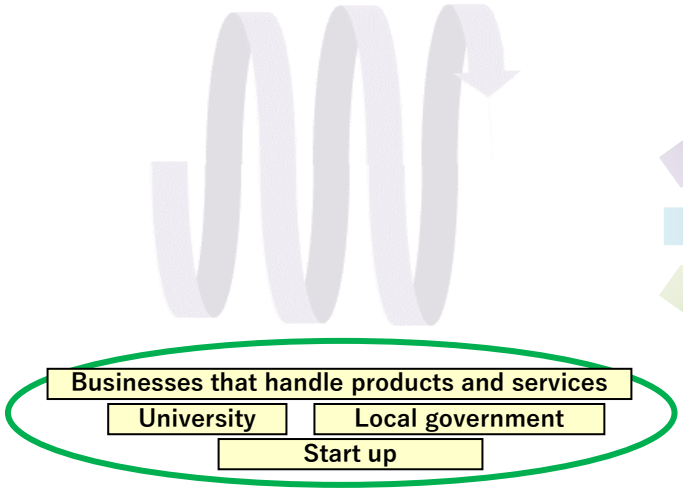
SoC for B5G communication devices created on an open development platform

Platform（B5G SDR-PF）

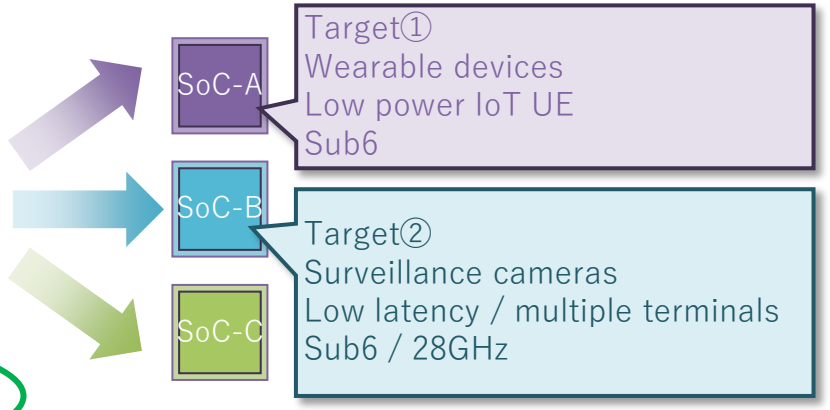


Comprehensive SDR development environment for IoT terminals and base stations





SoC optimized for use cases



～Platform for implementing new ideas～

- Equipped with the functionality for IoT solutions
- Selected functions can be implemented on the SoC in a short period of time
- Featured Interface IP

Expand the HW/SW IP set that can be selected by SDR-PF

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