



## Smart Secure Platform (SSP); Part 2: Integrated SSP (iSSP) characteristics (Release 15)

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## Reference

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## Keywords

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The present document is part 2 of a multi-part deliverable covering Smart Secure Platform (SSP), as identified below:

Part 1: "General characteristics";

**Part 2: "Integrated SSP (iSSP) characteristics".**



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# 1 Scope

The present document details the technical specifications for the Smart Secure Platform (SSP) integrated into an SoC, also known as iSSP. The present document defines specific attributes on top of the generic SSP specified in ETSI TS 103 666-1 [3].

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## 2 References

### 2.1 Normative references

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- [1] ETSI TS 102 221: "Smart Cards; UICC-Terminal interface; Physical and logical characteristics".
- [2] ETSI TS 102 223: "Smart Cards; Card Application Toolkit (CAT)".
- [3] ETSI TS 103 666-1: "Smart Secure Platform (SSP); Part 1: General characteristics".
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- [41] ETSI TS 129 002: "Mobile Application Part (MAP) specification (3GPP TS 29.002)".

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The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] BSI-DSZ-CC-0827-V7-2018: "Security IC Platform Protection Profile, Version 1.0, 15 June 2007".
- [i.2] Recommendation ITU-T E.212: "The international identification plan for public networks and subscriptions".

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## 3 Definition of terms, symbols and abbreviations

### 3.1 Terms

For the purposes of the present document, the terms given in ETSI TS 103 666-1 [3] and the following apply:

**3GPP network registration:** procedure defined by 3GPP allowing a terminal to get access to services provided by telecommunication networks compliant with 3GPP specifications, using the subscription information stored within the said terminal in a SIM, a USIM or an ISIM application

**address space:** set of addresses that can be used by a particular program or functional unit

**custodian:** organization that defines family identifier specific requirements (e.g. trusted CIs, product certification) within its iSSP ecosystem

**family identifier:** UUID identifying a family of Secondary Platform Bundles. It is equivalent to Firmware Family in GP OFL specification [6]

**plaintext:** intelligible data that has meaning and can be understood without the application of decryption (see NISTIR 7298 [12])

**process:** independent sequences of execution running within independent virtual address space and which may have shared virtual memories with other processes (e.g. virtual shared memory for communication between processes)

**program:** independent set of instructions executed by CPU

**Secondary Platform Bundle (SPB) container:** packaged code and data to create a Secondary Platform Bundle instance

**Secondary Platform Bundle (SPB) image:** data encapsulating an encrypted Secondary Platform Bundle container and cryptographic data to extract a Secondary Platform Bundle container

**Secondary Platform Bundle (SPB) instance:** runtime instance of the container, running on top of the Primary Platform Interface

**Secondary Platform Bundle (SPB) loader:** Secondary Platform Bundle instance with special privileges that enable managing Secondary Platform Bundle containers

**Secondary Platform Bundle (SPB) management operation:** operation related to the state of the Secondary Platform Bundle, including its enablement, its disablement and its deletion

**Secondary Platform Bundle (SPB) provisioning:** sequence of operations related to the downloading of a Secondary Platform Bundle from a SPB Manager, its loading and its installation within the iSSP

**service:** hardware dependent low level software running in unprivileged mode

**telecom Secondary Platform Bundle (SPB):** Secondary Platform Bundle (SPB) which contains or is intended to contain at least one 3GPP NAA

**telecom family identifier:** family identifier having a reserved value, used to identify a Secondary Platform Bundle as a Telecom Secondary Platform Bundle

**test telecom bundle:** telecom bundle containing a 3GPP NAA which is intended to access a 3GPP test network (e.g. a network compliant with ETSI TS 134 108 [28])

**user intent:** direct, real time acquisition and validation of the end user input on the LBA to trigger locally a Secondary Platform Bundle provisioning or a Secondary Platform Bundle management operation

**virtual address:** in a virtual storage system, the address assigned to a storage location in external storage (i.e. outside the SE) to allow that location to be accessed as though it were part of main storage (i.e. inside the SE)

**virtual address space:** set of virtual addresses that can be used by a particular program or functional unit

## 3.2 Symbols

Void.

## 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in ETSI TS 103 666-1 [3] and the following apply:

ABI	Application Binary Interface
API	Application Programming Interface
HLOS	High Level Operating System
iNVM	(internal NVM) Non-Volatile Memory inside the SSP
iRAM	(internal RAM) volatile Random Access Memory inside the SSP