## ETSI TS 103 999-1 V15.0.0 (2021-09)



Smart Secure Platform (SSP);
Part 1: Test Specification, general characteristics
(Release 15)

# Reference DTS/SCP-0000TSSPvf00-1 Keywords SSP, testing

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Siret N° 348 623 562 00017 - APE 7112B Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° w061004871

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### **Foreword**

This Technical Specification (TS) has been produced by ETSI Technical Committee Smart Card Platform (SCP).

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- z the third digit is incremented when editorial only changes have been incorporated in the document.

## Modal verbs terminology

In the present document "shall", "shall not", "should", "should not", "may", "need not", "will", "will not", "can" and "cannot" are to be interpreted as described in clause 3.2 of the <a href="ETSI Drafting Rules">ETSI Drafting Rules</a> (Verbal forms for the expression of provisions).

"must" and "must not" are NOT allowed in ETSI deliverables except when used in direct citation.

## Introduction

The present document defines tests for the SSP implementations defined in ETSI TS 103 666-1 [1] independently of the respective manufacturer.

## 1 Scope

The present document specifies the test descriptions, test environment and conformance requirements for services running in the Smart Secure Platform and in any terminal hosting a Smart Secure Platform application.

The present document specifies the test descriptions for:

- SSP characteristics
- Physical interfaces
- SSP common layer
- Secure SCL
- Communication layers above SCL

of the SSP.

Tests for the usage or an SSP different to what is defined in ETSI TS 103 666-1 [1] are out of scope of the present document.

## 2 References

#### 2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

• In the case of a reference to a TC SCP document, a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document.

Referenced documents which are not found to be publicly available in the expected location might be found at <a href="https://docbox.etsi.org/Reference/">https://docbox.etsi.org/Reference/</a>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are necessary for the application of the present document.

commands for interchange".

[1]	ETSI TS 103 666-1: "Smart Secure Platform (SSP); Part 1: General characteristics".
[2]	ETSI TS 102 230-1: "Smart Cards; UICC-Terminal interface; Physical, electrical and logical test specification; Part 1: Terminal features".
[3]	ETSI TS 102 695-1: "Smart Cards; Test specification for the Host Controller Interface (HCI); Part 1: Terminal features".
[4]	ETSI TS 102 695-2: "Smart Cards; Test specification for the Host Controller Interface (HCI); Part 2: UICC features".
[5]	ETSI TS 102 622: "Smart Cards; UICC - Contactless Front-end (CLF) Interface; Host Controller Interface (HCI)".
[6]	ETSI TS 102 230-2: "Smart Cards; UICC-Terminal interface; Physical, electrical and logical test specification; Part 2: UICC features".
[7]	ETSI TS 102 221: "Smart Cards; UICC-Terminal interface; Physical and logical characteristics".
[8]	ISO/IEC 7816-4: "Identification cards - Integrated circuit cards - Part 4: Organization, security and

[9]	ETSI TS 102 223: "Smart Cards; Card Application Toolkit (CAT)".
[10]	GlobalPlatform <sup>TM</sup> : "Technology Virtual Primary Platform " Version 1.0.1.
[11]	ETSI TS 101 220: "Smart Cards; ETSI numbering system for telecommunication application providers".
[12]	ETSI TS 102 671: "Smart Cards; Machine to Machine UICC; Physical and logical characteristics".
[13]	ISO/IEC 7816-3: "Identification cards - Integrated circuit cards - Part 3: Cards with contacts - Electrical interface and transmission protocols".
[14]	ETSI TS 102 241: "Smart Cards; UICC Application Programming Interface (UICC API) for Java Card <sup>TM</sup> ".
[15]	ORACLE: "Application Programming Interface, Java Card™ Platform, Classic Edition 3.0.5".
[16]	ORACLE: "Runtime Environment Specification, Java Card™ Platform, Classic Edition 3.0.5".
[17]	ORACLE: "Virtual Machine Specification, Java Card <sup>TM</sup> Platform, Classic Edition 3.0.5".
NOTE:	ORACLE Java Card <sup>TM</sup> Specifications can be downloaded at <a href="https://docs.oracle.com/javacard/3.0.5/index.html">https://docs.oracle.com/javacard/3.0.5/index.html</a> .
[18]	IETF RFC 3629: "UTF-8, a transformation format of ISO 10646".
[19]	IETF RFC 4122: "A Universally Unique IDentifier (UUID) URN Namespace".
[20]	IETF RFC 8141: "Uniform Resource Names (URNs)".
[21]	ETSI TS 102 705: "Smart Cards; UICC Application Programming Interface for Java Card <sup>TM</sup> for Contactless Applications".
[22]	GlobalPlatform <sup>TM</sup> : "Card Specification" Version 2.3.1.
NOTE:	Available at <a href="https://globalplatform.org/specs-library/card-specification-v2-3-1/">https://globalplatform.org/specs-library/card-specification-v2-3-1/</a> .
[23]	GlobalPlatform <sup>TM</sup> : "UICC Configuration" Version 2.0.
[24]	ETSI TS 102 226: "Smart Cards; Remote APDU structure for UICC based applications".
[25]	ETSI TS 103 713: "Smart Secure Platform (SSP); SPI interface".
[26]	IETF RFC 793: "Transmission Control Protocol".
[27]	IETF RFC 792: "Internet Control Message Protocol".
[28]	IETF RFC 6895: "Domain Name System (DNS) IANA Considerations".
[29]	IETF RFC 8446: "The Transport Layer Security (TLS) Protocol Version 1.3".
[30]	ANSI X9.63: "Public Key Cryptography for the Financial Services Industry Key Agreement and Key Transport Using Elliptic Curve Cryptography".

## 2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

• In the case of a reference to a TC SCP document, a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

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]	SCP SSP tooling.
NOTE:	Available at <a href="https://forge.etsi.org/rep/scp/ssp-x509v3-generator/">https://forge.etsi.org/rep/scp/ssp-x509v3-generator/</a> .
[i.2]	ETSI TS 103 813: "Smart Secure Platform (SSP); Test Specification, SPI interface".
[i.3]	ETSI TS 102 613: "Smart Cards; UICC - Contactless Front-end (CLF) Interface; Physical and data link layer characteristics".
[i.4]	IETF RFC 8615: "Well-Known Uniform Resource Identifiers (URIs)".
[i.5]	IETF RFC 7230: "Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing".
[i.6]	IETF RFC 2818: "HTTP Over TLS".
[i.7]	IETF RFC 7252: "The Constrained Application Protocol (CoAP)".
[i.8]	ETSI TS 103 465: "Smart Secure Platform (SSP); Requirements Specification".

ISO/IEC 9646-7:1995: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

## 3 Definition of terms, symbols and abbreviations

#### 3.1 Terms

[i.9]

For the purposes of the present document, the terms given in ETSI TS 103 465 [i.8] and ETSI TS 103 666-1 [1] apply.

## 3.2 Symbols

For the purposes of the present document, the symbols given in ETSI TS 103 465 [i.8] and ETSI TS 103 666-1 [1] apply.

#### 3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AA	Accessor Authentication
AAA	Accessor Authentication Application
AAS	Accessor Authentication Service
AAUTH	Accessor AUTHentication
ACL	Access Control List
AID	Application IDentifier
APDU	Application Protocol Data Unit
ASN.1	Abstract Syntax Notation One
ATR	Answer To Reset
CA	Certificate Authority
C-APDU	Command - APDU
CAT	Card Application Toolkit
CB	Chaining Bit
CI	Certificate Issuer
CLA	CLAss
CLF	ContactLess Frontend
CLK	CLocK
CLT	ContactLess Tunnelling
CPU	Central Processing Unit

CRON Command Run ON
CSS Cascading Style Sheets
DER Distinguished Encoding Rule

DF Dedicated File
DNS Domain Name System
ECC Elliptic Curve Cryptography

ECDHE Elliptic Curve Diffie Hellman Ephemeral ECDSA Elliptic Curve Digital Signal Algorithm

EEPROM Electrically Erasable Programmable Read Only Memory

EF Elementary File
FCI File Control Information
FCP File Control Parameters
FFS For Further Study
FMD File Management Data

FQDN Fully Qualified Domain Name

FS File System

File System Control Application **FSCA FSCS** File System Control Service **FSDA** File System Data Application File System Data Service **FSDS** Galois/Counter Mode **GCM** HCI Host Controller Interface **HCP** Host Controller Protocol Hypertext Markup Language HTML Hypertext Transfer Protocol HTTP

HTTPS HTTP over SSL I2C Inter-Integrated Circuit

IANA Internet Assigned Numbers Authority
ICMP Internet Control Message Protocol
IETF Internet Engineering Task Force

INS INStruction IP Internet Protocol

ISO International Organization for Standardization

KDF Key Derivation Function
LAN Local Area Network
MBM Mobile Broadband Modem
MTU Maximum Transfer Unit
NAA Network Access Application
NFC Near Field Communication
NID Namespace Identifier

NOK Not OK

NSS Namespace Specific String NVM Non-Volatile Memory

OCSP Online Certificate Status Protocol

OID Object Identifier
OOS Out Of Scope
P1 Parameter 1
P2 Parameter 2

PIN Personal Identification Number

PK Public Key
PL Padding Length

PPS Protocol and Parameter Selection RAM Random Access Memory

RE Runtime Environment

REE Rich operating system Execution Environment

RFC Request For Comments
RFU Reserved for Future Use
RNG Random Number Generator

RO Read-Only

ROM Read-Only Memory RQ ReQuirement RSET ReSET

RST	ReSeT
SCL	SSP Common Layer
SCP	Smart Card Platform
SHDLC	Simplified High Level Data Link Control
SI	SharedInfo
SoC	System on Chip
SPB	Secondary Platform Bundle
SPI	Serial Peripheral Interface
SSP	Smart Secure Platform
SSPFS	Smart Secure Platform File System
SSPUI	SSP User Interface
SUT	System Under Test
SWP	Single Wire Protocol
TCP	Transmission Control Protocol
TEE	Trusted Execution Environment
TLS	Transport Layer Security
TLV	Tag Length Value
TRE	Tamper Resistant Element
UDP	User Datagram Protocol
UML	Unified Modelling Language
URI	Uniform Resource Identifier
URL	Uniform Resource Locator
URN	Uniform Resource Name
USB	Universal Serial Bus
UTF	Universal character set Transformation Format
UUID	Universally Unique IDentifier
VNP	VPP Network Protocol
VPP	Virtual Primary Platform
XOR	eXclusive OR
WAN	Wide Area Network

## 3.4 Formats

## 3.4.1 Format of the table of optional features: Table 4.1

The columns in the optional features table, Table 4.1, have the following meaning:

Column	Meaning
Item	Item number, incrementing with each item added to the table
Service	Description of the service that might be supported by the implementation
Status	The status of the service is described following notations defined in ISO/IEC 9646-7 [i.9]:  O optional - the service may be supported or not (default value)
Release	Number of the version the feature was introduced in
Support	The column is blank in the proforma and shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646-7 [i.9], are used for the support column in Table 4.1:  Y or y supported by the implementation N or n not supported by the implementation N/A, n/a or - no answer required (allowed only if the status is N/A, directly or after evaluation of a conditional status)
Mnemonic	The "Mnemonic" column contains mnemonic identifiers for each service

## 3.4.2 Format of the table of optional features: Table 4.2

The columns in the optional features table, Table 4.2, have the following meaning:

Column	Meaning
Item	Item number, incrementing with each item added to the table
Service	Description of the service option, or optional feature that might be supported by the
Option/Optional	implementation
Feature	
Status	The status of the service option / optional feature is described following notations defined in ISO/IEC 9646-7 [i.9]:  O optional - the feature may be supported or not (default value)
	O.i qualified optional - for mutually exclusive or selectable options from a set. "i" is an
	integer which identifies a unique group of related optional items and the logic of their selection which
	is defined immediately following the table
Release	Number of the version the feature was introduced in
Support	The column is blank in the proforma and shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646-7 [i.9] are used for the support column in Table 4.1:
	Y or y supported by the implementation
	N or n not supported by the implementation
	N/A, n/a or - no answer required (allowed only if the status is N/A, directly or after evaluation of a conditional status)
Mnemonic	The "Mnemonic" column contains mnemonic identifiers for each service option / optional feature

## 3.4.3 Format of the applicability Tables 4.3 and 4.4

The columns in the applicability tables, Table 4.3 and Table 4.4, have the following meaning:

Column	Meaning	
Test Identification	A reference to the test identification(s), or range of test identifications detailed in the present document and required to validate the implementation of the corresponding item in the "Description" column	
Description	A short non-exhaustive description of the test purpose is given here	
Release	Number of the version the tested feature was introduced in	
Rel- <x></x>	For a given Release, the corresponding "Rel- <x>" column lists the tests required for the SPI to be declared compliant to this Release</x>	
	Each entry shows the status following notations defined in ISO/IEC 9646-7 [i.9]:  M mandatory - the capability is required to be supported O optional - the capability may be supported or not N/A not applicable - in the given context, it is impossible to use the capability X prohibited (excluded) - there is a requirement not to use this capability in the given context Oi qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer which identifies a unique group of related optional items and the logic of their selection which is defined immediately following the table Ci conditional - the requirement on the capability ("M", "O", "X" or "N/A") depends on the support of other optional or conditional items. "i" is an integer identifying a unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF THEN (IF THEN ELSE) ELSE" shall be used to avoid ambiguities	
Support	Is blank in the proforma and is to be completed by the manufacturer in respect of each particular	
	requirement to indicate the choices, which have been made in the implementation	

#### 3.4.4 Format of the conformance requirements tables

The columns in the requirement tables in clause 5 have the following meaning:

Column	Meaning	
Req.ID	This column shows the ordinal term assigned to a requirement identified in the referenced specification. The following syntax has been used to define the unique R(equirement) terms: R <n><xx><yy>_<zzz>  n: Identification letter for the referenced specification:     Q: ETSLTS 103 666-1 [1]     X: ETSLTS 102 221 [7]  XX: Main clause of the core specification in which the conformance requirement is listed.  YY: Sub-clause of the main clause in the core specification in which the conformance requirement is listed  ZZZ: Continuously increasing number starting with '001'</zzz></yy></xx></n>	
Clause The "Clause" column helps to identify the location of a requirement by listing the clause h down to the sub-clause the requirement is located in		
Release	An optional column that is used if the listed requirement is valid for a specific release or a specific range of releases only, up to a specific release, or from a specific release onwards	
Description	In this column the requirement text is shown. Where the text can either be a copy of the original requirement as found ETSI TS 103 666-1 [1] or ETSI TS 102 221 [7], or a text analogous to the requirement text (e.g.: if the requirement text is descriptive and can be shortened or truncated)	

#### 3.4.5 Numbers and Strings

The conventions used for decimal numbers, binary numbers and strings.

**Table 3.1: Convention of Numbering and Strings** 

Convention	Description		
nnnnn	A decimal number, e.g. PIN value or phone number		
'b'	A single digit binary number		
'bbbbbbbb'	An 8-bit binary number		
'hh'	A single octet hexadecimal number		
'hh hhhh'	A multi-octet hexadecimal number or string		
"SSSS"	A character string		
NOTE: If an 'X	' is present in a binary or hexadecimal number, then the digit might have any allowed value. This 'X'		
value o	value does not need to be interpreted within the particular coding shown.		

#### 3.4.6 Format of test description clauses

In general clauses with test descriptions use the following basic format:

#### X.Y. Group of test descriptions for a particular topic

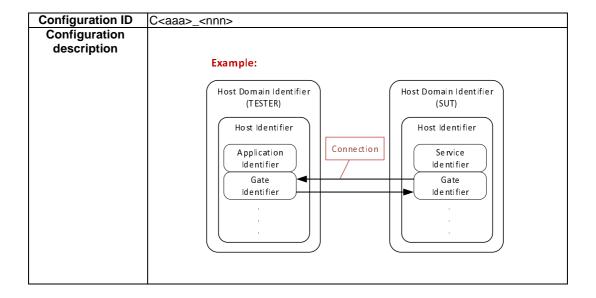
#### X.Y.1 Configurations

This header is used in every clause that includes configuration descriptions. It may be followed by a sentence explaining that there are no specific configurations required for this particular topic or:

#### X.Y.1.1 C<aaa>\_<nnn> <optional>

Where each sub-header of a required configuration is built from a leading 'C' followed by <aaa>, a minimum three-digit abbreviation for the configuration description group, an underscore and <nnn>, a minimum three-digit number to identify the configuration. This sub-header may include explanatory text following the identification.

Whenever a configuration exists it is presented in a table of the following format.



A Configuration description shows a drawing representing the entities involved and the connections available between instances. It does not include explanatory text.

#### X.Y.2 Procedures

This header is used in every clause that includes procedure descriptions. It may be followed by a sentence explaining that there are no specific procedures required for this particular topic or:

#### X.Y.2.1 P<aaa>\_<nnn> <optional>

Where each sub-header of a required procedure is built from a leading 'P' followed by <aaa>, a minimum three-digit abbreviation for the procedure description group, an underscore and <nnn>, a minimum three-digit number to identify the procedure. This sub-header may include explanatory text following the identification.

Whenever a procedure exists it is presented in a table of the following format.

Pro	Procedure ID P <aaa>_<nnn></nnn></aaa>		
Procedure		Description of the procedure objectives.	
ol	bjectives		
Configuration C <aaa>_<nnn></nnn></aaa>		C <aaa>_<nnn></nnn></aaa>	
re	eference	See note 1.	
		Initial conditions	
Text and/or list of procedure IDs identifying the initial conditions that need to be fulfilled before the procedure sequence defined in this table can be executed.			
See no	ote 2.		
		Procedure sequence	
Step		Description	
1	Description of procedure step #1		
n	Description of procedure step #n		
NOTE 1: Reference to the appropriate configuration.			
NOTE 2: Procedure IDs can be referenced if the integration of existing procedure sequences can avoid required procedure steps duplication to achieve the initial conditions. Referenced procedures are intended to be executed in given order.			

Procedures are sequences that are executed to prepare specific initial conditions for a test. As such they do not include verifications of any requirements.

#### X.Y.3 Test descriptions

This header is used for every clause that includes test descriptions. It may be followed by:

#### X.Y.3.1 <aaa>\_<nnn> <optional>

Where each sub-header of a test description is built from <aaa>, a minimum three-digit abbreviation for the test description group, an underscore and <nnn>, a minimum three-digit number to identify the test description. This sub-header may include explanatory text following the identification.

Whenever a test description exists it is presented in a table of the following format.

	Test ID	<aaa>_<nnn></nnn></aaa>		
Test	Test objectives Description of the test objectives.			
	See note 1.			
Configuration C <aaa>_<nnn></nnn></aaa>				
re	eference	See note 2.		
		Initial conditions		
Text and/or list of procedure IDs identifying the initial conditions that need to be fulfilled before the test sequence defined in this table can be executed.				
See no	See note 3.			
	Test sequence			
Step		Description	Req.ID	
1	Description of	f test step #1		
			RQ <xx><yy< th=""></yy<></xx>	
			>_ <zzz></zzz>	
n	Description of	f test step #n		
	NOTE 1: The descriptions reflect the objectives of the requirements verified.			
	NOTE 2: Reference to the appropriate configuration.			
NOTE	NOTE 3: If possible the initial conditions for the test sequence are defined by existing procedures. Referenced			
	procedure	s are intended to be executed in given order.		

Requirement IDs listed in the Req.ID are references to the requirements listed in clause 5.x of the present document. A requirement listed in the test sequence is handled as verified if the response related to the listed requirement has the expected contents. Req.IDs are always assigned to a response step.

If there are no test descriptions defined for a group of tests, but related requirements are available, an appropriate sub-clause informs about the status of the requirements. E.g.:

#### X.Y.3.Z Requirements not testable, implicitly verified or verified elsewhere

The header of this sub-clause is adjusted depending on which condition applies for the identified requirements.

#### Example text for requirements referenced from a different standardization body:

The following requirements identified in <XYZ> are not tested in accordance with the present document, as they are referencing requirements from a different standardization body (<NAME>): <XX><YY>\_<ZZZ>, ...

#### **Example text for requirements implicitly tested:**

The following requirements identified in <XYZ> are generated from descriptive text. An explicit verification is not possible but with correct execution of the related function the requirements can be handled as implicitly verified: <XX><YY>\_<ZZZ>, ...

#### **Example text for requirements not tested:**

The following requirements identified in <XYZ> are either generated from descriptive text or not testable in the defined test environment. A verification of the listed requirements is not possible: <XX><YY>\_<ZZZ>, ...

The clause with explanatory text for the untested or implicitly tested requirements is the last sub-clause in the Test description clause. Nevertheless, it may be provided as the first sub-clause if no executable test sequences are defined.

The hierarchy given in this example structure is not fixed. If building sub-groups is useful this has been done on the appropriate level of the test description hierarchy. Furthermore, sub-groups for all the three main clauses (Configurations, Procedures, Test descriptions) have not been generated if adding a sub-group is not useful in any of these clauses.

E.g.: common Configurations on hierarchy level 3, common Procedures on hierarchy level 3 but subgroups for the test descriptions with a new group header on level 4 and the test descriptions on level 5.

#### 3.4.7 Dynamic content validation in ASN1 structure

In certain test cases, dynamic content returned by the DUT (e.g. value within ASN.1 structure, signature, integer,...) is processed according to the following Textx grammar:

```
operations ::= '<' operation (logical_operator operation)* '>'
operation ::= operation_Identifier ' (' variable_identifier (',' parameter)* ')'
operation_identifier ::= 'STORE'|'REPLACE'|'COMPARE'|'ISFIELDNOTEXIST'
logical_operator ::= 'AND'|'OR'|'XOR'
variable_identifier ::=([A-Z]/[a-z])+[0-9]*
```

#### where:

- Operation\_identifier: is the identifier identifying the operation to perform on a dynamic content of aFieldName as:
  - STORE: store the dynamic content of an aFieldName into a test tool variable identified by a variable identifier
  - REPLACE: retrieve a variable identified by Variable\_identifier and replace the content of aFieldName by the content of the variable
  - COMPARE: compare the content of aFieldName with the content of a variable and return True or False to the test tool. This operator requires one or more additional parameters. The parameters may be combined for ORing them. The parameters are as follow:
    - GT: the content of the aFieldName shall be strictly greater than the content of a variable
    - LS: the content of the aFieldName shall be strictly less than the content of a variable
    - EQ: the content of the aFieldName shall be equal to the content of a variable
    - DIF: the content of the aFieldName shall be different from the content of a variable
  - ISFIELDNOTEXIST: return true, if aFieldName field does not exist
- Variable\_identifier: variable identifier managed by the test tool. The variable identifier shall consist only of a set of alphanumeric characters.

The operations are inserted within a comment associated to a field as follow:

```
aFieldName ... /* operations */
For example:
aResponse SSPCapability ::= {
aSspRelease '0000'H, /*<COMPARE(aSSPRELEASE,GT,EQ)>*/
where
aSSPRELEASE VersionType::= '0F00'H /* <STORE(aSSPRELEASE)> */
```

## 4 Tests environment architecture

#### 4.1 Overview

Figure 4.1 illustrates the overview of the architecture for the SSP test environment.

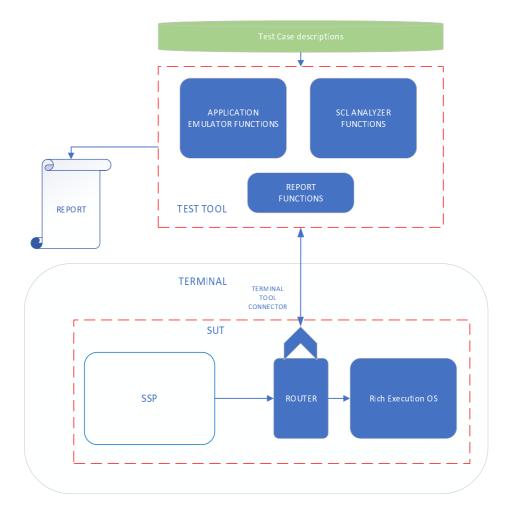


Figure 4.1: SSP test environment overview

The terminal shall contain:

- An SSP as defined in ETSI TS 103 666-1 [1].
- A router as defined in ETSI TS 103 666-1 [1].
- A Rich Execution Environment as defined in ETSI TS 103 666-1 [1].
- A terminal tool connector only available on a terminal prepared for test purposes. This terminal tool connector is mainly used to inject or extract SCL packets to/from the router. This terminal tool connector is provided by the terminal maker according to the requirements expressed in clause 4.2.1.

The test tool shall contain the following functions:

- An SCL analyser to analyse the SCL packets and to compare them with the test case expectations (which are based on test requirements).
- **For a test tool testing the services running in the SSP:** an application emulator for emulating an application running in the terminal. The tester may run multiple application emulators.

- For a test tool testing the services running in the terminal: an application emulator for emulating an application running in the SSP. The tester may run multiple application emulators.
- Report generator creating a report containing the verdicts based on test case outputs.

NOTE: Separate test tool implementations for terminal and SSP testing are permitted.

There are two perspectives of tests possible from Figure 4.1:

- The tests of a service running in the SSP. These tests require an emulator running a terminal application to stimulate the SSP.
- The tests of a service running in the terminal. These tests require an emulator running an SSP application to stimulate the service running in the terminal.

## 4.2 Test Tool Data exchange

#### 4.2.1 Introduction

Figure 4.2 illustrates the data exchange between test tool and terminal test tool connector.

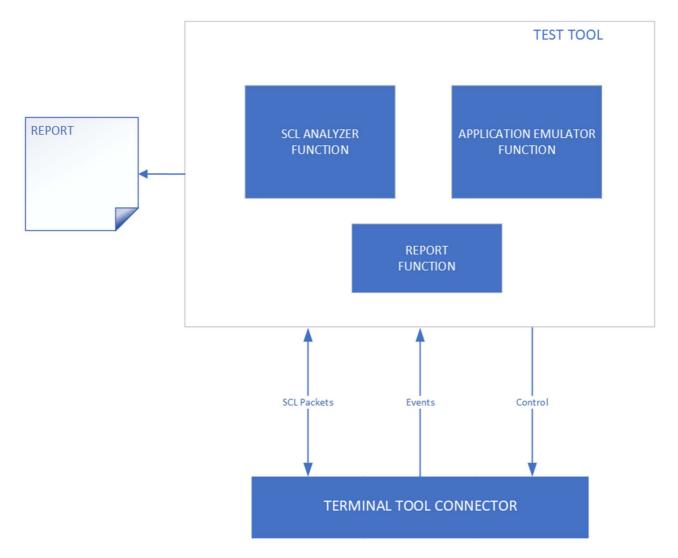


Figure 4.2: Data exchange between test tool and terminal test tool connector

The communication between the SUT and its environment is essentially based on the SCL network conveying the SCL packets.

#### 4.2.2 Test tool requirements

The test tool shall be able to:

- extract the semantic from the SCL packets and compare it with the expected results extracted from a test case;
- emulate SSP/terminal applications to stimulate the SUT;
- collect the events from the SUT in order to get the state of the SCL host in the SUT;
- control the terminal tool connector according to directives from the tests;
- generate a report containing the verdicts based on test case expectations.

#### 4.2.3 Terminal Test Tool connector requirements

The terminal test tool connector plugged into the router shall support the following requirements:

- It shall copy all SCL packets routed by the router into it, excluding the SCL packets from the SCL analyser.
- It shall timestamp the copy of the SCL packet.
- It shall be possible to disable the identification of the host issuing an SCL packet in order to impersonate it.
- It shall be possible to impersonate a host domain by a directive to the router.
- It shall be possible to collect events related to the SPB management (e.g. termination, exceptions, etc.).

#### 4.3 Test of a service in the SSP

Figure 4.3 illustrates the perspective of the tests of a service running in the SSP from an application running on the terminal.

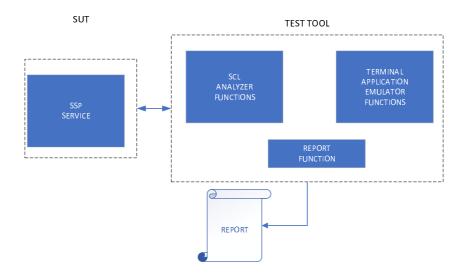


Figure 4.3: Tests of a service in the SSP

#### 4.4 Test of a service in the terminal

Figure 4.4 illustrates the perspective of the tests of a service running in the terminal from an application running in the SSP.

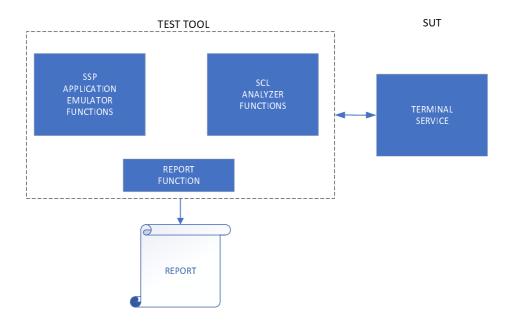


Figure 4.4: Tests of a service in the terminal

#### 4.5 Table of services

The product vendor shall declare which services are supported by their implementation. The services are listed in Table 4.1.

See clause 3.4.1 for the format of the table.

**Mnemonic** Item Service **Status** Release Support 1 UICC File System Service Rel-15 0 O\_UICC\_FS 2 Card Application Toolkit Service Rel-15 0 O\_CAT 3 Accessor Authentication Service Rel-15 0 O\_AAUTH 4 SSP File System Service Rel-15 0 O\_SSP\_FS 5 TCP Service Rel-15 0 O\_TCP O\_UDP 6 **UDP** Service Rel-15 0 **CRON Service** Rel-15 0 O\_CRON 7 8 SCL HCI Service Rel-15 0 O\_SCL\_HCI 9 **HCP** contactless Rel-15 0 O\_SCL\_HCP APDU Service Rel-15 10 O O\_APDU

Table 4.1: Table of optional services

## 4.6 Table of service options and other optional features

The product vendor shall declare which service options and other optional features are supported by their implementation. The service options and optional features are listed in Table 4.2.

See clause 3.4.2 for the format of the table.

Table 4.2: Table of service options and optional features

Item	Service Option/Optional Feature	Status	Release	Support	Mnemonic
1	The Identity service gate returns		Rel-15	0	O_GATE_URN_LIST
	GATE_URN_LIST (tag 81)				
2	Web-based user interface		Rel-15	0	O_SSPUI
3	Proactive polling is indicated as required		Rel-15	0	O_PROACTIVE_POLLING

## 4.7 Applicability table

The applicability tables in this clause are formatted as described in clause 3.4.3.

Table 4.3: Applicability table for SSP

Test Identification	Description	Release	Rel-15
FSS_0011 -	SSP File System	Rel-15	C004
FSS_0094			
INI_001	Capability Exchange of SSPCapabilities	Rel-15	M
SCL_031	Data-flow control in multiple hosts environment	Rel-15	M
SCL_032	loopback Data-flow control	Rel-15	M
SCL_033	Identity Service Gate parameter GATE_URN_LIST	Rel-15	C009
SCL_034	Link Service Gate additional registry entry	Rel-15	M
SCL_035	Credit based data flow control on administration gate	Rel-15	M
SSPUI_001	SSPCapabilities of SSPUI	Rel-15	C010
SSP_REF	Identified tests for SSP commands from ETSI TS 102 230-2 [6]	Rel-15	C001
LCH_REF	Identified tests for Logical channels from ETSI TS 102 230-2 [6]	Rel-15	C001
UFS_REF	Identified tests for UICC file system commands from ETSI TS 102 230-2 [6]	Rel-15	C001
ADD_REF	Identified tests for Additional commands from ETSI TS 102 230-2 [6]	Rel-15	C015
APDU_REF1	Identified tests for APDU transfer from ETSI TS 102 695-2 [4]	Rel-15	C016
APDU_REF2	Identified tests for APDU transfer from ETSI TS 102 695-2 [4]	Rel-15	C016

**Table 4.4: Applicability table for Terminal** 

Test Identification	Description	Release	Rel-15
INI_002	Capability Exchange of TerminalCapabilities	Rel-15	М
TCP_311-TCP_312	Passive TCP Open TCP connection	Rel-15	C005
TCP_313-TCP_317	Passive TCP Open TCP connection LAN-WAN	Rel-15	C011
TCP_318-TCP_319	Passive TCP Open TCP connection	Rel-15	C005
TCP_3110	Passive TCP Open TCP connection IPV6	Rel-15	C011
TCP_321-TCP_322	Active TCP Open TCP connection	Rel-15	C005
TCP_323-TCP_324	Active TCP Open TCP connection	Rel-15	C011
TCP_331-TCP_333	Closing TCP connection	Rel-15	C005
TCP_341-TCP_342	Status TCP connection	Rel-15	C005
TCP_351	TCP data exchange	Rel-15	C005
TCP_361	Accept TCP connection	Rel-15	C005
TCP_371-TCP_3710	TCP events	Rel-15	C005
AAS_311-AAS-314	Root accessor authentication	Rel-15	C003
AAS_321-AAS-3210	Creation of an accessor PINCODE based	Rel-15	C013
AAS_331-AAS-335	Creation of an accessor password based	Rel-15	C013
AAS_341-AAS-348	Creation of an accessor pattern based	Rel-15	C013
AAS_351-AAS-353	Accessor capability	Rel-15	C005
AAS_361-AAS-369	Accessor update	Rel-15	C005
AAS_371	Accessor delete	Rel-15	C005
AAS_381	Anonymous accessor authentication	Rel-15	C005
AAS_391-AAS-393	Accessor group creation	Rel-15	C005
AAS_3101-AAS-3103	Accessor update	Rel-15	C005
SCL_031-SCL032	SCL test descriptions	Rel-15	C008
SCL_033- SCL_034	SCL URN registry	Rel-15	C014
SCL035	SCL data flow control	Rel-15	C008
SSL_031-SCL_034	Secure SCL	Rel-15	C003
UDP_031-UDP_033	UDP request socket	Rel-15	C006
UDP_041	UDP closing socket	Rel-15	C006
UDP_051-UDP_053	UDP socket datagram out	Rel-15	C006
UDP_061	UDP socket datagram in	Rel-15	C006
UDP_031-UDP_033	UDP request socket	Rel-15	C006
UDP_062	UDP socket events	Rel-15	C006
HCP_311-HCP_313	HCP contactless	Rel-15	C012

Table A.3: Execution clauses for applicability tables Table 4.3 and Table 4.4

IF O_UICC_FS THEN M ELSE NA
IF O_UICC_FS AND O_CAT THEN M ELSE NA
IF O_AAS THEN M ELSE NA
IF O_SSP_FS THEN M ELSE NA
IF O_TCP THEN M ELSE NA
IF O_UDP THEN M ELSE NA
IF O_CRON THEN M ELSE NA
IF O_SCL_HCI THEN M ELSE NA
IF O_GATE_URN_LIST THEN M ELSE NA
IF O_SSPUI THEN M ELSE NA
IF O_TCP THEN O ELSE NA
IF O_HCP THEN M ELSE NA
IF O_AAS THEN O ELSE NA
IF O_SCL_HCI THEN O ELSE NA
IF O_UICC_FS AND O_CAT AND O_PROACTIVE_POLLING THEM M ELSE NA
IF O_UICC_FS AND O_APDU THEN M ELSE N/A

## 5 Conformance requirements

#### 5.0 Introduction

All references given in the conformance requirement descriptions are related to text, figures or tables provided in ETSI TS 103 666-1 [1].

## 5.1 SSP architecture

#### 5.1.1 Overview

Reference: ETSI TS 103 666-1 [1], clause 5.1

RQ number	Clause	Description
RQ0501_001	5.1	The SSP is a secure element platform intended for use in a number of use cases which may have very different requirements. For that reason, the SSP is designed to be a modular platform offering a core set of features as well as a number of options that need to be selected at the time of implementation based on the intended use case.
RQ0501_002	5.1	SSP classes are defined in order to address these different use cases and in order to limit the possible configurations.  An SSP class defines a configuration of the SSP platform.

#### 5.1.2 SSP software architecture

Reference: ETSI TS 103 666-1 [1], clause 5.2

RQ number	Clause	Description
RQ0502_001	5.2	SSP Applications are programs running in the SSP.

#### 5.1.3 SSP hardware architecture

## 5.1.4 Protocol stacks

Reference: ETSI TS 103 666-1 [1], clause 5.4

RQ number	Clause	Description
RQ0504_001	5.4	The physical interface(s) between the SSP and the device might be selected from a
		range of options.
RQ0504_002	5.4	The SSP may have multiple physical interfaces.
RQ0504_003	5.4	The data link layer used over the physical interface might also be selected from a range of options.
RQ0504_004	5.4	The SSP should provide means for controlling (e.g. activating, deactivating) the data link and physical layers.
RQ0504_005	5.4	If indicated by the SSP class, the SSP shall support the SSP Common Layer (SCL) implementation comprised of optional network, transport and session layers, as described in clause 8.
RQ0504_006	5.4	If SSP Common Layer (SCL) is not supported, the SSP may support the UICC architecture as defined in ETSI TS 102 221 [7] and ETSI TS 102 622 [5].
RQ0504_007	5.4	An SSP implemented according to one of the existing form factors in ETSI TS 102 221 [7] and in ETSI TS 102 671 [12] shall support the ISO/IEC 7816-3 [13] interface and the transport of APDUs.
RQ0504_008	5.4	In addition, a mandatory core set of security features is provided, together with a number of optional security features which can be selected depending on the application.

## 5.1.5 Execution framework

Reference: ETSI TS 103 666-1 [1], clause 5.5

RQ number	Clause	Description
RQ0505_001	5.5	The optional or mandatory support of specific execution frameworks is defined for each
		specific SSP class.
RQ0505_002		The SSP may support an execution framework as defined for the UICC according to ETSI TS 102 241 [14] based on the Java Card™ Platform [15], [16] and [17].

## 5.2 SSP characteristics

#### 5.2.1 Form factors

RQ number	Clause	Description
RQ0601_001	6.1	The overall definition of the SSP is independent of the form factor, unless specified
		differently for a particular SSP class.

## 5.2.2 Power

RQ number	Clause	Description
	6.2.1	Power mode
RQ0602_001	6.2.1	The following power modes are defined:
		OPERATIONAL: when the SSP performs an internal process or processes    Compared to the co
		incoming data from any of its interfaces. This mode also includes the transmission of data from and to the terminal.
		<ul> <li>SUSPENDED: the SSP does not consume any power, with the ability to resume</li> </ul>
		the logical state at a later time (as described in clause 6.9 of ETSI
		TS 103 666-1 [1]).
		IDLE: the SSP is in idle mode at any other time.
RQ0602_002	6.2.1	The power mode transition time is the maximum duration it takes the SSP to transition
		from one specific power mode, once SSP decided to, to another specific power mode.
	6.2.2	Power sources.
DO0000 000	6.2.2.1	Types of power sources.
RQ0602_003	6.2.2.1	The following power source types are defined for an SSP:  • Interface: power to the SSP is provided by a communication interface according
		to its definition (e.g. ISO/IEC 7816-3 [13], USB).
		<ul> <li>Independent: power source which is not dependent on the power provided by</li> </ul>
		any communication interface (e.g. dedicated power line).
RQ0602_004	6.2.2.1	The combined power sources shall provide sufficient power to operate the SSP in
		accordance with its power mode.
	6.2.2.2	Power source of type Interface.
RQ0602_005	6.2.2.2	Power provided by a communication interface is managed by the interface itself.
D00000 000	6.2.2.3	Power source of type Independent.
RQ0602_006	6.2.2.3	The following voltage classes for a power source of type Independent are defined as follows, unless specified differently for an SSP class:
		Class A: operational voltage class range is defined in Table 5.1 in ETSI
		TS 102 221 [7].
		Class B: operational voltage class range is defined in Table 5.5 in ETSI
		TS 102 221 [7].
		<ul> <li>Class C: operational voltage class range is defined in Table 5.9 in ETSI TS 102 221 [7].</li> </ul>
		Class P: operational voltage class range is proprietary and not defined in the
		present document (ETSI TS 103 666-1 [1]).
RQ0602_007	6.2.2.3	Supply voltage switching is outside the scope for power sources of type Independent.
RQ0602_008	6.2.2.3	Communication interfaces shall operate in relation to the voltage provided by the power source unless specified differently by the communication interface (e.g. ETSI
		TS 102 613 [i.3] operates at a fixed voltage level regardless of the supply voltage).
RQ0602_009	6.2.2.3	For reliable operation, the power source should meet the following characteristics:
	0.2.2.0	When the power source is activated, the supply voltage should rise
		monotonically until reaching the operational voltage range.
		The terminal should activate any communication interfaces only after the supply
		voltage has reached a stable level within the operational voltage range.
		When the power source is deactivated, the supply voltage should fall
D00000 040	0.0.0	monotonically until reaching 0 V ± 0,4 V referenced to ground.
RQ0602_010	6.2.2.3	Before activating the power source again, the supply voltage should remain at $0 \text{ V} \pm 0.4 \text{ V}$ referenced to ground for at least 10 ms.
	6.2.3	Power consumption
RQ0602_011	6.2.3	The maximum power consumption is defined as the maximum amount of power used by
		the SSP when operating in OPERATIONAL power mode.
RQ0602_012	6.2.3	The overall power provided by the terminal to the SSP shall meet the power
		consumption of all active interfaces of the SSP and the internal power consumption of
RQ0602_013	6.2.3	the SSP.  The maximum power consumption may be negotiated during the capability exchange
	5.2.0	procedure, as defined in clause 6.4.2 of ETSI TS 103 666-1 [1].

## 5.2.3 Clock

Reference: ETSI TS 103 666-1 [1], clause 6.3

RQ number	Clause	Description
RQ0603_001	6.3	The SSP shall have its own clock for the processing of all the commands, for the
		execution of its applications and for the access to its volatile and non-volatile memory,
		unless specified otherwise by the SSP class.
RQ0603_002	6.3	If a physical interface provides a clock (for example, the CLK like in the
		ISO/IEC 7816-3 [13] interface), this is independent from the internal clock of the SSP
		and shall not be used for internal processing, but only for the exchange of data over that
		interface.
RQ0603_003	6.3	The SSP shall make sure that its clock frequency does not cause power consumption in
		excess to what is negotiated with the terminal.
RQ0603_004	6.3	The SSP shall provide SSP applications with an interface to a time keeping mechanism,
		which measures elapsed time.
		The value obtained over this interface shall be based on the clock defined in this clause.
		Furthermore, this value shall be monotonic and increasing.

## 5.2.4 SSP initialization

RQ number	Clause	Description
	6.4.1	SSP interface session
RQ0604_001	6.4.1	The SSP interface session begins when the physical interface and the data link layer are
		initialized, and the SSP is in a state where it can receive data from an end-point in the
		terminal or send data to an end-point in the terminal.
	6.4.2	Capability exchange
	6.4.2.1	Overall description
	6.4.2.2	SSP not supporting SCL
	6.4.2.3	SSP supporting SCL
RQ0604_002	6.4.2.3	If the UICC APDU gate described in clause 10.2.8.2 of ETSI TS 103 666-1 [1] is
		supported, then the capability exchange procedure shall be performed with the
		EXCHANGE CAPABILITIES command described in clause 10.2.3.2 of ETSI
		TS 103 666-1 [1].
RQ0604_003	6.4.2.3	In all other cases, the procedure should be performed when a new SCL host is
		registered on the SCL network controller host.
RQ0604_004	6.4.2.3	The procedure is performed by reading the parameter CAPABILITY_EXCHANGE as
		defined in clause 8.4.5.1.3 of ETSI TS 103 666-1 [1].
RQ0604_005	6.4.2.3	The capability exchange procedure is completed after the SCL host outside the SSP has
		read the CAPABILITY_EXCHANGE entry in the identity gate registry of the SCL host in
		the SSP and vice-versa.
	6.4.2.4	Capabilities of the terminal
RQ0604_006	6.4.2.4	Terminal release: it indicates the release of the present document that is implemented by
		the terminal. The major version shall have a value that is greater or equal to '0F' (which
		corresponds to Release 15, as the first release of the SSP).
RQ0604_007	6.4.2.4	Terminal vendor name: it indicates the terminal vendor's name encoded in UTF-8 format,
		as described in IETF RFC 3629 [18].
RQ0604_008	6.4.2.4	Interface power supply: it indicates the maximum current that the terminal can provide
		over the physical interface where the Capability Exchange procedure is performed. The
		value depends on the specific physical interface that is used. If the physical interface
		where the capability exchange procedure is performed does not provide power, value '0'
		is used. For the ISO/IEC 7816-3 [13] interface defined in clause 7.3 of ETSI
		TS 103 666-1 [1], the value indicates the maximum current in mA.
RQ0604_009	6.4.2.4	External power supply: it indicates the maximum current provided by the terminal using
		the external power supply.
		The value indicates the current in mA. The terminal shall use the same value on all the
		interfaces where the Capability Exchange procedure is performed. Value '0' is used
D00004 040	0.4.0.4	when the external power supply is not present.
RQ0604_010	6.4.2.4	Toolkit terminal profile: it indicates the terminal profile used for the Card Application
		Toolkit. It is coded as defined in ETSI TS 102 223 [9], clause 5.2. If the TLV is absent, it
	0.405	means that the terminal does not support the Card Application Toolkit.
	6.4.2.5	Capabilities of the SSP

RQ number	Clause	Description
RQ0604_011	6.4.2.5	SSP release: it indicates the release of the present document (of ETSI TS 103 666-1 [1]) that is implemented by the SSP. The major version shall have a value that is greater or equal to '0F', which corresponds to Release 15 of ETSI TS 103 666-1 [1], as the first release of the SSP.
RQ0604_012	6.4.2.5	SSP vendor name: it indicates the SSP vendor's name encoded in UTF-8 format, as described in IETF RFC 3629 [18].
RQ0604_013	6.4.2.5	SSP class: it indicates the class of the SSP, as defined in clause 11 of ETSI TS 103 666-1 [1]
RQ0604_014	6.4.2.5	SSP class specific capabilities: it contains the SSP capabilities specific for the SSP class. The format is defined in the specification for that SSP class.
RQ0604_015	6.4.2.5	<ul> <li>SSP UICC capabilities: it indicates the capabilities of the SSP to support features defined in the UICC platform:</li> <li>Number of logical channels: it indicates the total number of logical channels, including the default channel, that is supported by the SSP. This value is specific for the interface where the command is exchanged and is applicable only when APDUs are used. It shall have a value between '01' and '14'.</li> <li>Proactive polling requirement: it indicates if the terminal is required to perform the proactive polling, as described in clause 10.2.6.3 of ETSI TS 103 666-1 [1]. This value is specific for the interface where the command is exchanged and is applicable only when APDUs are used. If the value is FALSE, then the proactive polling is not required. In all other cases, this field shall have the value TRUE.</li> <li>Support of the UICC file system: it indicates if the SSP supports the UICC file system, as described in clause 6.6.1 of ETSI TS 103 666-1 [1]. It shall have the value FALSE if the UICC file system is not supported, TRUE otherwise.</li> <li>Support of Card Application Toolkit: it indicates if the SSP supports the Card Application Toolkit. It shall have the value FALSE if the Card Application Toolkit is not supported, TRUE otherwise.</li> <li>Card Application Toolkit capabilities: it indicates the Card Application Toolkit procedures initiated by the terminal that the SSP supports. This field shall be present if the SSP indicates support of the Card Application Toolkit. It is coded as the value in the CAT service list data object defined in ETSI TS 102 223 [9], clause 8.102.</li> </ul>

## 5.2.5 Storage

Reference: ETSI TS 103 666-1 [1], clause 6.5

RQ number	Clause	Description
RQ0605_001	6.5	Whether the NVM is within the SSP or external to the SSP is SSP class dependant.
		Consequently, the technical specification of each SSP class shall indicate if the NVM is
		allowed to be internal and/or external.
RQ0605_002	6.5	When the NVM is within the SSP, it shall be isolated and not be accessible outside the
		SSP.

## 5.2.6 Data Management

RQ number	Clause	Description
	6.6.1	UICC file system
RQ0606_001	6.6.1	The SSP may support the UICC file system as specified in ETSI TS 102 221 [7], clause 8.1, clause 8.2 and clause 8.3, and the associated security features described in ETSI TS 102 221 [7], clause 9. The technical specification of each SSP class shall indicate if it is mandatory, optional or forbidden.
	6.6.2	SSP file system
	6.6.2.1	Overview
	6.6.2.2	SSP file system structure
	6.6.2.2.1	Layout
	6.6.2.2.2	Node types
RQ0606_002	6.6.2.2.2	SSP directory is a particular node that contains the list of references to other nodes and a reference to the parent directory.

RQ number	Clause	Description
RQ0606_003	6.6.2.2.2	SSP root directory is a particular node that contains the list of references to other nodes.
RQ0606_004	6.6.2.2.2	SSP file is a sequence of data bytes.
RQ0606_005	6.6.2.2.2	SSP link contains a link to an SSP file.
RQ0606_006	6.6.2.2.2	SSP link shall not link to an SSP directory (including SSP root directory), or to another
		SSP link.
	6.6.2.2.3	Node descriptor
RQ0606_007	6.6.2.2.3	The SSP file system shall allocate a node descriptor per node. The node descriptor shall
		be represented in ASN.1 syntax containing the following parameters:
		aDirectory: it indicates that the type of the node is a SSP directory.  Siles it is also as a that the type of the node is a SSP directory.  Siles it is also as a that the type of the node is a SSP file and its also is had a second in the node.
		<ul> <li>aFile: it indicates that the type of the node is a SSP file and its size in bytes.</li> <li>aLink: it indicates that the type of the node is a SSP link, the size and the</li> </ul>
		<ul> <li>aLink: it indicates that the type of the node is a SSP link, the size and the identity of the linked SSP file.</li> </ul>
		aMetaData: if present, it contains a collection of proprietary metadata with
		limited size. The content of the metadata of SSP links is the metadata of the
		linked file.
		aACL: if present, it contains a collection of access control. If absent, the node
		inherits the access control list from its parent node.
RQ0606_008	6.6.2.2.3	The SSP file system shall support a tree of nodes with a minimum height of 5.
RQ0606_009	6.6.2.2.3	Each SSP directory shall support a minimum of 256 nodes.
D00000 040	6.6.2.2.4	Node identity
RQ0606_010 RQ0606_011	6.6.2.2.4	All SSP files and SSP directories are referenced by a string, called node name.  The node name of SSP directories and SSP files shall use graphic characters, with a
RQ0606_011	6.6.2.2.4	maximum length of 16 bytes after encoding in UTF-8 format, as described in IETF
		RFC 3629 [18].
RQ0606_012	6.6.2.2.4	The location of an SSP directory or of an SSP file in the hierarchical tree is described by
	0.0.2.2.	a path.
RQ0606_013	6.6.2.2.4	A path in the hierarchical tree shall be described by a pathname. The pathname shall be
		a sequence of one or more node names of SSP directories concatenated by the node
		name separator, starting from the SSP root directory.
RQ0606_014	6.6.2.2.4	SSP file system shall support only the absolute pathname, starting from the root of the
D00000 045	0.0004	hierarchical tree.
RQ0606_015	6.6.2.2.4	The node reference shall be a string composed by a pathname followed by the node name separator and the node name.
		For example: "SSPFS:directory1:directory3" identifies the SSP directory 3.
RQ0606_016	6.6.2.2.4	All SSP files and SSP directories also have a short node name, which is the UUID
		version 5 calculated using the domain name system namespace, as defined in IETF
		RFC 4122 [19] from a URN, as defined in IETF RFC 8141 [20], composed concatenating
		"urn:etsi.org" (NID), the colon character (U+003A) and the Node reference (NSS).
RQ0606_017	6.6.2.2.4	The short node name may be used to access the node.
D00000 040	6.6.2.2.5	File handling
RQ0606_018	6.6.2.2.5	An SSP file can be accessed (i.e. operated) by opening a session. The file session is referenced by a unique identifier called session ID that is provided as a response to the
		file session open command (FS-OP-FILE-OPEN-Service-Command).
RQ0606_019	6.6.2.2.5	The SSP file system shall support minimum two simultaneous file sessions.
RQ0606_020	6.6.2.2.5	Several file sessions may apply on the same SSP file.
RQ0606_021	6.6.2.2.5	A file session can be opened on an SSP file if the access conditions of the SSP file are
_		satisfied.
	6.6.2.2.6	Administrative operations
RQ0606_022	6.6.2.2.6	The SSP file system supports retrieving the capabilities of the SSP file system
D00000 000		(i.e. FS-ADMIN-GET-CAPABILITIES-Service-Command).
RQ0606_023	6.6.2.2.6	The SSP file system supports creating and deleting a node (i.e. FS-ADMIN-CREATE-
RQ0606_024	6.6.2.2.6	NODE-Service-Command, FS-ADMIN-DELETE-NODE-Service-Command).  The SSP file system supports updating the attributes of a node (i.e. FS-ADMIN-
NQ0000_024	0.0.2.2.0	UPDATE-NODE-ATTRIBUTES-Service-Command).
	6.6.2.2.7	SSP file system access rights
RQ0606_025	6.6.2.2.7	eFSAccessRight-RequiresSecurePipe: this right indicates that, in addition to the
		permissions required to access the resource, the accessor shall use a secure pipe, as
		defined in clause 9 of ETSI TS 103 666-1 [1].
RQ0606_026	6.6.2.2.7	eFSAccessRight-ReadContent: in case of SSP file and SSP link, this right allows access
		to read the content. In case of SSP directory, this right allows access to the list of the
BO0600 007	66007	contained nodes (if the command is allowed).
RQ0606_027 RQ0606_028	6.6.2.2.7	eFSAccessRight-GetInfo: this right allows access to retrieve information of a node.
\Q\0000_U28	6.6.2.2.7	eFSAccessRight-Write: in case of SSP file and SSP link, this right allows access to write the content. In case of SSP directory, this right allows creation of a node within the SSP
		directory.
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RQ number	Clause	Description
RQ0606_029	6.6.2.2.7	eFSAccessRight-UpdateMetadata: this right allows the update of the metadata of the node.
RQ0606_030	6.6.2.2.7	eFSAccessRight-UpdateACL: this right allows the update of the access control list of the node.
RQ0606_031	6.6.2.2.7	eFSAccessRight-Delete: this right allows the deletion of the node.
RQ0606_032	6.6.2.2.7	eFSAccessRight-DeleteChild: this right allows the deletion of any node contained in the SSP directory, regardless of the value of eFSAccessRight-Delete of each contained node.
RQ0606_033	6.6.2.2.7	When SSP links are used for operations that access the content of nodes (i.e. FS-OP-FILE-OPEN-Service-Command) or for operations that access the metadata of nodes (i.e. FS-OP-NODE-GET-INFO-Service-Command and FS-ADMIN-UPDATE-NODE-ATTRIBUTES-Service-Command), the SSP shall verify the access control list of both the SSP link and the linked SSP file.
	6.6.2.3	Primitives of the SSP file system
RQ0606_034	6.6.2.3.1 6.6.2.3.1	FS-ADMIN-GET-CAPABILITIES-Service-Command  With the command FS-ADMIN-GET-CAPABILITIES-Service-Command, an SSP file system application requests the SSP file system service to retrieve the capabilities of the SSP file system. It has no parameters.
RQ0606_035	6.6.2.3.1	When the FS-ADMIN-GET-CAPABILITIES-Service-Command is successful, then the SSP file system service shall include eFS-OK in the response and the following parameters:  • aVersion: major and minor release version supported by the file system control service gate;
		<ul> <li>aSimultaneousFileSessions: maximum number of simultaneous file sessions supported;</li> <li>aSimultaneousFileSessionsPerFile: maximum number of simultaneous file sessions supported on the same file. This value shall be less or equal than aSimultaneousFileSessions;</li> <li>aTotalCapacity: total capacity of the SSP file system in bytes;</li> <li>aFreeCapacity: remaining free capacity in the SSP file system in bytes;</li> <li>aMaxMetaDataSizePerNode: maximum metadata size allowed per node in bytes.</li> </ul>
	6.6.2.3.2	FS-ADMIN-CREATE-NODE-Service-Command
RQ0606_036	6.6.2.3.2	With the command FS-ADMIN-CREATE-NODE-Service-Command, an SSP file system application may create an SSP file, an SSP directory or an SSP link within a hierarchical tree of SSP directories. It has the following parameters:  • aNodeDescriptor: contains the node descriptor to create a node;  • aNodeDirectoryIdentity: is the SSP Directory into which the new node shall be placed.
RQ0606_037	6.6.2.3.2	The accessor creating a node in a SSP directory shall have the eFSAccessRight-Write access rights on that SSP directory.
RQ0606_038	6.6.2.3.2	The SSP file system service shall ignore the short name included in aNodeDescriptor and compute it.
RQ0606_039	6.6.2.3.2	If the node descriptor indicates an SSP link, the SSP file system service shall ignore the file size and the metadata included in aNodeDescriptor, as the file size and the metadata are provided by the linked SSP file.
RQ0606_040	6.6.2.3.2	When the FS-ADMIN-CREATE-NODE-Service-Command is successful, then the SSP file system service shall include eFS-OK in the response.
	6.6.2.3.3	FS-ADMIN-DELETE-NODE-Service-Command
RQ0606_041	6.6.2.3.3	With the command FS-ADMIN-DELETE-NODE-Service-Command, an SSP file system application requests the SSP file system service to delete a node. It has the following parameter:  • aNodeldentity: identity of the node to be deleted.
RQ0606_042	6.6.2.3.3	An accessor is authorized to delete an SSP node if it has the eFSAccessRight-Delete right on the node to be deleted, or if it has the eFSAccessRight-DeleteChild right on the SSP directory containing the node.
RQ0606_043	6.6.2.3.3	The SSP file system shall reject the deletion of a node with the error eFS-NODE-BUSY if a session is ongoing on the node.
RQ0606_044	6.6.2.3.3	The deletion of an SSP directory implies the deletion of all the nodes contained in the SSP directory.
RQ0606_045	6.6.2.3.3	The deletion of a SSP link shall not impact the SSP file that is linked.
RQ0606_046	6.6.2.3.3	After the deletion of a node, all SSP links pointing to that node shall also be deleted by the SSP file system service, irrespective of the delete right to each SSP link.
RQ0606_047	6.6.2.3.3	After an SSP file is erased, it shall not be possible to restore its content.
RQ0606_048	6.6.2.3.3	When the FS-ADMIN-DELETE-NODE-Service-Command is successful, then the SSP
		file system service shall include eFS-OK in the response.

RQ number	Clause	Description
	6.6.2.3.4	FS-ADMIN-UPDATE-NODE-ATTRIBUTES-Service-Command
RQ0606_049	6.6.2.3.4	With the command FS-ADMIN-UPDATE-NODE-ATTRIBUTES-Service-Command, an
		SSP file system application requests the SSP file system service to update the access
		control and the metadata of a node. It has the following parameters:
		<ul> <li>aNodeIdentity: identity of the node to update;</li> <li>aMetaData: the new meta data of the node;</li> </ul>
		· ·
RQ0606_050	6.6.2.3.4	aACL: the new access control list of the node.  The accessor updating the metadata of a node shall have the eFSAccessRight-
NQ0000_000	0.0.2.5.4	UpdateMetadata right on that node.
RQ0606_051	6.6.2.3.4	If the update is performed on an SSP link, the accessor shall also have the
	0.0.2.0.	eFSAccessRight-UpdateMetadata right on the linked node.
RQ0606_052	6.6.2.3.4	The accessor updating the access control list of a node shall have the eFSAccessRight-
_		UpdateACL right on that node.
RQ0606_053	6.6.2.3.4	When the FS-ADMIN-UPDATE-NODE-ATTRIBUTES-Service-Command is successful,
_		then the SSP file system service shall include eFS-OK in the response.
	6.6.2.3.5	FS-OP-FILE-OPEN-Service-Command
RQ0606_054	6.6.2.3.5	With the command FS-OP-FILE-OPEN-Service-Command, an SSP file system
		application requests the SSP file system service to open a file session on a specified
		SSP file. It has the following parameters:
		aNodeldentity: identity of the node;
		<ul> <li>aAccessMode: the type of access to the SSP file;</li> </ul>
		aGateURI: the dynamic URI of the gate to open the pipe session for the SSP
		file system data gate linked to the opened SSP file for transferring the read or
		write data. This parameter shall be used only when the data is exchanged over
		a dedicated data pipe session.
RQ0606_055	6.6.2.3.5	The accessor opening a session on a SSP file or SSP link shall have the
		eFSAccessRight-ReadContent and/or the eFSAccessRight-Write right on that node
D00000 050		depending on the access mode.
RQ0606_056	6.6.2.3.5	If the command is performed on an SSP link, the accessor shall also have the same
DO0000 057	0.000.5	right(s) on the linked node.
RQ0606_057	6.6.2.3.5	Opening a session on a file sets its current offset pointer to 0.
RQ0606_058	6.6.2.3.5	When the FS-OP-FILE-OPEN-Service-Command is successful, then SSP file system
		service shall include eFS-OK with following parameters in the response:
	6.6.2.3.6	<ul> <li>aSessionID: this is the session identifier to reference the SSP file for operation.</li> <li>FS-OP-FILE-CLOSE-Service-Command</li> </ul>
RQ0606_059	6.6.2.3.6	With the command FS-OP-FILE-CLOSE-Service-Command, an SSP file system
1100000_009	0.0.2.3.0	application requests the SSP file system service to close a specified file session opened
		by FS-OP-FILE-OPEN-Service-Command command. It has the following parameters:
		aSessionID: this is the session identifier to the open SSP file.
RQ0606_060	6.6.2.3.6	If the SSP file system application sends a FS-OP-FILE-CLOSE-Service-Command
		command while a previous command is ongoing in the same file session, the SSP file
		system shall perform one of the following operations:
		Terminate the ongoing command and close the ongoing session.
		Reject the FS-OP-FILE-CLOSE-Service-Command command with the error
		eFS-NODE-BUSY.
RQ0606_061	6.6.2.3.6	When FS-OP-FILE-CLOSE-Service-Command is successful then SSP file system
		service shall include eFS-OK in the response.
RQ0606_062	6.6.2.3.6	If there is a pipe session associated with the aSessionID, the SSP file system application
	0.0.5.5	closes this pipe session.
200000 225	6.6.2.3.7	FS-OP-NODE-GET-INFO-Service-Command
RQ0606_063	6.6.2.3.7	With the command FS-OP-NODE-GET-INFO-Service-Command, an SSP file system
		applications requests the SSP file system service to read the information about an SSP
		file or an SSP directory. It has the following parameters:
		aNodeldentity: identity of the node;     aPaguage Type: indicates the type of the request.
RQ0606_064	6.6.2.3.7	aRequestType: indicates the type of the request.  The accessor retrieving the NodeDescriptor structure shall have the eFSAccessRight-
1140000_004	0.0.2.3.7	GetInfo right on that node.
RQ0606_065	6.6.2.3.7	If the command is performed on an SSP link, the accessor shall also have the
1.0000_000	0.0.2.3.7	eFSAccessRight-GetInfo right on the linked node.
RQ0606_066	6.6.2.3.7	The accessor retrieving a NodeDescriptor structure list of child's node of an SSP
1.0000_000	0.0.2.3.7	directory (i.e. when aContain is set) shall have the eFSAccessRight-ReadContent right
		on that SSP directory.
RQ0606_067	6.6.2.3.7	When FS-OP-NODE-GET-INFO-Service-Command is successful, then the SSP file
	0.0.2.0.7	system service shall include eFS-OK with following optional parameter in the response:
		aNodeDescriptorList: it contains the list of node descriptors requested by the SSP file system application. This list is limited to 255 node descriptors.

RQ number	Clause	Description
	6.6.2.3.8	FS-OP-FILE-READ-Service-Command
RQ0606_068	6.6.2.3.8	With the command FS-OP-FILE-READ-Service-Command an SSP file system application requests the SSP file system service to read the content of a SSP file that was previously opened with the command FS-OP-FILE-OPEN-Service-Command. It has the following parameters:
		<ul> <li>aSessionID: this is the session Identifier to reference the SSP file for operation;</li> <li>aOffset: start position in the SSP file from offset 0. If omitted, read from the current offset of the SSP file;</li> </ul>
		<ul> <li>aNumberOfBytes: number of byte to read. If set to 0, the whole SSP file shall be read out.</li> </ul>
RQ0606_069	6.6.2.3.8	If the SSP file system application sends a FS-OP-FILE-READ-Service-Command command while a previous command is ongoing in the same file session, the SSP file system shall reject the command with the error eFS-NODE-BUSY.
RQ0606_070	6.6.2.3.8	When FS-OP-FILE-READ-Service-Command is successful, then SSP file system service shall include eFS-OK with the following optional parameters in the response:  • aData: data bytes read from the SSP file. This parameter is used only if the
		SSP file system application did not pass the gate URI when it opened the file session.
RQ0606_071	6.6.2.3.8	If the read data is received by the SSP file system application on a separate SCL pipe, then the FS-OP-FILE-READ-Service-Response is sent back to the SSP file system application on the same pipe as the FS-OP-FILE-READ-Service-Command after the last data byte has been received on the separate data channel.
	6.6.2.3.9	FS-OP-FILE-WRITE-Service-Command
RQ0606_072	6.6.2.3.9	With the command FS-OP-FILE-WRITE-Service-Command, an SSP file system application requests the SSP file system service to write data into an SSP file that was previously opened with the command FS-OP-FILE-OPEN-Service-Command. It has the following parameters:
		<ul> <li>aSessionID: this is the session Identifier to reference the SSP file for operation;</li> <li>aOffset: start position in the SSP file from offset 0. If omitted, write from the current offset of the SSP file;</li> </ul>
		<ul> <li>aNumberOfBytes: number of byte to write. The data shall be sent over a pipe session opened to a file system application data gate;</li> <li>aData: the data buffer to write into the SSP file from the provided offset. It is recommended to use this option only for short data.</li> </ul>
RQ0606_073	6.6.2.3.9	If the SSP file system application sends a FS-OP-FILE-WRITE-Service-Command command while a previous command is ongoing in the same file session, the SSP file system shall reject the command with the error eFS-NODE-BUSY.
RQ0606_074	6.6.2.3.9	When FS-OP-FILE-WRITE-Service-Command is successful, then SSP file system service shall include eFS-OK in the response.
RQ0606_075	6.6.2.3.9	If the write data is sent by the SSP file system application on a separate channel, then the FS-OP-FILE-WRITE-Service-Response is sent back to the SSP file system application on the same pipe as the FS-OP-FILE-WRITE-Service-Command after the last data byte has been received on the separate data channel.
	6.6.2.3.10	FS-OP-FILE-GET-POSITION-Service-Command
RQ0606_076	6.6.2.3.10	With the command FS-OP-FILE-GET-POSITION-Service-Command, an SSP file system application requests to SSP file system service to retrieve the current offset position in an SSP file that was previously opened with the command FS-OP-FILE-OPEN-Service-Command. It has the following parameters:  • aSessionID: this is the session Identifier to reference the SSP file for operation.
RQ0606_077	6.6.2.3.10	If the SSP file system application sends a FS-OP-FILE-GET-POSITION-Service- Command command while a previous command is ongoing in the same file session, the SSP file system shall reject the command with the error eFS-NODE-BUSY.
RQ0606_078	6.6.2.3.10	When the FS-OP-FILE-GET-POSITION-Service-Command is successful then the SSP file system service shall include eFS-OK in the response with the following parameter:  • aCurrentOffset: current offset of the SSP file.
	6.6.2.4	Response code
	6.6.2.4.1	Overview

RQ number	Clause	Description
RQ number RQ0606_079	<b>Clause</b> 6.6.2.4.1	The SSP file system service provides the following response codes to SSP file system primitives:  • eFS-OK: Command completed successfully;  • eFS-E-CMD-PAR-UNKNOWN: Format of the command parameters is wrong;  • eFS-E-NOK: Command was rejected and/or not completed;  • eFS-NODE-BUSY: The file system is already processing an operation on the file;  • eFS-NODE-NOT-FOUND: Node not found;  • eFS-OPERATION-ILLEGAL: Illegal operation (e.g. opening a file with a
		<ul> <li>eFS-OPERATION-ILLEGAL. Illegal operation (e.g. operating a file with a directory identity instead a file identity);</li> <li>eFS-NOT-ENOUGH-SPACE: The operation exceeds the size limit of a file or the size limit of the metadata;</li> <li>eFS-BAD-SESSSION-ID: The session identifier related to a file does not exist;</li> <li>eFS-ACL-RULES-VIOLATIONS: The operation of the administration violates the ACL rules associated to a node;</li> <li>eFS-MAX-FILE-SESSION-REACHED: The maximum number of file sessions has been reached.</li> <li>The possible response code returned for each primitives is shown in Table 6.3 of ETSI TS 103 666-1 [1].</li> </ul>
	6.6.2.4.2	Response code to SSP file system primitives

## 5.2.7 SSP identification

Reference: ETSI TS 103 666-1 [1], clause 6.7

RQ number	Clause	Description
RQ0607_001	6.7	The SSP identification mechanism for the SSP is dependent on the SSP class and is
		specified for each class.

### 5.2.8 Runtime environment

RQ number	Clause	Description
	6.8.1	CAT Runtime environment
RQ0608_001	6.8.1	If SSP supports the CAT Runtime Environment as specified in ETSI TS 102 241 [14] based on the Java Card <sup>™</sup> Platform [15], [16] and [17], then clause 6.8.1 of ETSI TS 103 666-1 [1] shall apply.
RQ0608_002	6.8.1	If SSP supports CAT-RE, Card application toolkit specific fields in the capability exchange procedure indicate the support and the capabilities for the card application toolkit in the SSP.
RQ0608_003	6.8.1	If terminal supports CAT-RE, Card application toolkit specific fields in the capability exchange procedure indicate the support and the capabilities for the card application toolkit in the terminal.
RQ0608_004	6.8.1	If SSP implements SCL and supports UICC APDU service gate as described in ETSI TS 103 666-1 [1], clause 10.2.8.2, then CAT-RE shall send and receive APDUs as defined in ETSI TS 102 221 [7], via the UICC APDU service gate defined in ETSI TS 103 666-1 [1], clause 10.2.8.2.2.
RQ0608_005	6.8.1	If SSP implements SCL and supports UICC APDU service gate as described in ETSI TS 103 666-1 [1], clause 10.2.8.2, then CAT-RE shall Issue an EVT_TOOLKIT_REQUEST as defined in ETSI TS 103 666-1 [1], clause 10.2.8.2.3.3, if a proactive command has to be sent to the terminal.
RQ0608_006	6.8.1	If SSP implements SCL and supports UICC APDU service gate as described in ETSI TS 103 666-1 [1], clause 10.2.8.2, then CAT-RE shall map the SSP command EXCHANGE CAPABILITIES as defined in ETSI TS 103 666-1 [1], clause 10.2.3.2 to the events EVENT_PROFILE_DOWNLOAD and EVENT_FIRST_COMMAND_AFTER_ATR as defined in ETSI TS 102 241 [14].
RQ0608_007	6.8.1	If SSP implements SCL and supports CAT gate as described in ETSI TS 103 666-1 [1], clause 10.8, then CAT-RE shall Send and receive CAT commands and responses, via the CAT application gate.

RQ number	Clause	Description
RQ0608_008	6.8.1	If SSP implements SCL and supports CAT gate as described in ETSI TS 103 666-1 [1],
		clause 10.8, then CAT-RE shall Trigger the applets based on events received by the
		CAT application gate, replacing the APDU based triggering mechanism.
RQ0608_009	6.8.1	If SSP implements SCL and supports CAT gate as described in ETSI TS 103 666-1 [1],
		clause 10.8, then CAT-RE shall Map the capability exchange procedure to the events
		EVENT_PROFILE_DOWNLOAD and EVENT_FIRST_COMMAND_AFTER_ATR.
RQ0608_010	6.8.1	If SSP implement UICC file system, the events EVENT_EXTERNAL_FILE_UPDATE and
		EVENT_REMOTE_FILE_UPDATE shall be raised according to ETSI TS 102 241 [14] on
		update operations on the UICC file system.
RQ0608_011	6.8.1	If SSP is supporting the Contactless Framework as defined in ETSI TS 102 705 [21]
		based on the Java Card™ Platform [15] and if SSP implements SCL, the Contactless
		Framework shall register an HCl gate defined in ETSI TS 103 666-1 [1], clause 10.7.2.

## 5.2.9 SSP suspension

Reference: ETSI TS 103 666-1 [1], clause 6.9

RQ number	Clause	Description
RQ0609_001	6.9	The usage of the suspension mechanism by terminal is allowed only if the SSP has a single active physical interface.
RQ0609_002	6.9	When the SSP is suspended, the terminal deactivates the physical interface to the SSP, following the sequence specified for that physical interface
RQ0609_003	6.9	The suspension procedure can be used only when it is indicated as supported by the SSP in the capability exchange procedure.
RQ0609_004	6.9	If terminal suspends SSP, then terminal shall maintain the logical status as before the suspension and it shall resume the SSP for any event for which it had previously registered.
RQ0609_005	6.9	To resume the SSP, the terminal shall first perform the initialization of the SSP as described in ETSI TS 103 666-1 [1], clause 6.4, including the capability exchange procedure.
RQ0609_006	6.9	To resume the SSP, the electrical parameters shall remain unchanged during and after the resume operation.
RQ0609_007	6.9	If indicated as supported by the SSP in the capability exchange procedure, suspension is supported using APDU as defined in ETSI TS 103 666-1 [1], clause 10.2.7.
RQ0609_008	6.9	In case SCL is used, SSP suspension shall be rejected when there are more than 1 pipe (only pipe available is for transporting APDUs as defined in ETSI TS 103 666-1 [1], clause 10.2.8) to the SSP.

## 5.2.10 SSP applications

RQ number	Clause	Description
	6.10.1	Overview
RQ0610_002	6.10.1	The SSP shall allow one or more SSP Applications to exchange data with other entities outside the SSP.
RQ0610_003	6.10.1	If there are no restrictions of the execution environment and/or of the application protocol, One SSP Application shall not block another SSP Application from exchanging data with the terminal on a different SSP interface session
RQ0610_004	6.10.1	If there are no restrictions of the execution environment and/or of the application protocol, One SSP Application shall not block another SSP Application from exchanging data with the terminal on the same SSP interface session, if supported by the protocol stack of the interface
	6.10.2	Ownership and security considerations
RQ0610_005	6.10.2	If the SSP implements the CAT Runtime Environment according to ETSI TS 102 241 [14], the rules and mechanisms for the management of Applications on the UICC shall apply, which are based on the GlobalPlatform Card Specification [22], its Amendments and the GlobalPlatform UICC Configuration [23] as described in ETSI TS 102 226 [24].
	6.10.3	Lifecycle management

RQ number	Clause	Description
RQ0610_006	6.10.3	If SSP Applications is running in the CAT Runtime Environment according to ETSI
		TS 102 241 [14], then the rules and mechanisms for the management of the lifecycle of
		Security Domains and Applications according to GlobalPlatform Card Specification [22]
		and ETSI TS 102 226 [24] shall apply.
	6.10.4	Identification and discovery

## 5.2.11 SSP security

RQ number	Clause	Description
Tt c Hambon	6.11.1	SSP security architecture
RQ0611_001	6.11.1	The SSP is intended to provide a programmable, secure execution environment for
1140011_001	0	applications.
RQ0611_002	6.11.1	Any entity external to the SSP shall not be able to directly access any hardware or
		software component within the SSP.
	6.11.2	Mandatory requirements
	6.11.2.1	Overview
	6.11.2.2	Security of SSP code
RQ0611_003	6.11.2.2	SSP shall provide confidentiality, integrity, and replay protection (i.e. ability to prevent
		outdated code from running on the same SSP and ability to prevent code of an SSP from
		running on another SSP) for any code executable inside the SSP.
RQ0611_004	6.11.2.2	Any SSP code shall be authenticated by the SSP entity that loads it.
	6.11.2.3	Privacy of data
	6.11.2.3.1	Secure storage
RQ0611_005	6.11.2.3.1	The SSP code and data shall be exclusively processed within the SSP.
RQ0611_006	6.11.2.3.1	The SSP code shall not be exposed outside the SSP in clear text.
RQ0611_007	6.11.2.3.1	The SSP data shall only be exposed outside the SSP under the control of the SSP.
RQ0611_008	6.11.2.3.1	If SSP code and data need to be stored outside the SSP, they shall be encrypted and
		integrity protected.
RQ0611_009	6.11.2.3.1	All the credentials used to encrypt the code and data shall only be stored and used
		within the SSP. The SSP shall depend only on its own cryptographic means.
RQ0611_010	6.11.2.3.1	The SSP shall implement mechanisms to prevent that an older version of the non-volatile
	0.14.0.4	storage can be re-used after it was superseded by a new SSP transaction.
D00044 044	6.11.2.4	SSP transactions
RQ0611_011	6.11.2.4	An SSP transaction starts when the SSP receives a command to process and terminates
		when the SSP sends the response for that command. The transaction may be started by
		a command from the terminal, from the network or from an application running in the SSP itself.
RQ0611_012	6.11.2.4	If the status of the non-volatile memory needs to be modified after the execution of an
11.00011_012	0.11.2.4	SSP transaction, the SSP shall perform the update of the non-volatile memory before
		providing the response of the transaction to the client that initiated it. This includes the
		fact that it shall not be possible to restore the previous state of the non-volatile memory.
		If the NVM modification has not been successful for any reason, the previous content of
		NVM shall be restored.
	6.11.2.5	Attack resistance
RQ0611_013	6.11.2.5	The SSP shall be resistant to various attacks including but not limited to:
		Side channel attacks such as simple power-analysis, differential power-analysis
		and timing analysis. Fault injection via voltage and clock frequency alterations,
		exposure to extreme light or temperatures.
		<ul> <li>Physical probing or tampering.</li> </ul>
		<ul> <li>Injection via well-crafted input messages into the SSP.</li> </ul>
		<ul> <li>Analysis through usage of test circuitry.</li> </ul>
		The levels of resistance and attack prevention schemes are left to the specific SSP
		class.
	6.11.3	Optional requirements
	6.11.3.1	Overview
D00044 044	6.11.3.2	Random number generator
RQ0611_014	6.11.3.2	An SSP may have its own Random Number Generator (RNG). The characteristics of the
	6 11 0 0	RNG depend on the SSP class and are defined in the corresponding specification.
	6.11.3.3	Remote provisioning

RQ number	Clause	Description
RQ0611_015	6.11.3.3	The SSP may include an optional secure mechanism in order to allow remote provisioning of its software components, including applications, part of or all the operating system. The mechanisms for the remote provisioning depend on the SSP class and are defined in the corresponding specification
	6.11.3.4	Remote auditing
RQ0611_016	6.11.3.4	Remote auditing is defined as the assessment of the integrity of the SSP hardware platform and optionally of some of the software components of the SSP by an entity outside the terminal. The assessment shall ensure with a coverage higher than 80 % that the SSP hardware platform and the optional software components have not changed since the reference SSP used for the certification.
RQ0611_017	6.11.3.4	Remote auditing process is optional. If supported:         The SSP class shall define an interface to the remote audit function of the SSP accessible from SSP Applications.         The SSP class may define an interface to the remote audit function of the SSP accessible from terminal.         The results of the remote audit function operations from the terminal interface shall be different than the ones collected from the SSP applications interface when using the same input parameters of the remote audit function.
	6.11.4	Security certification
	6.11.4.1	Overview
RQ0611_018	6.11.4.1	A certification process may be defined for each SSP class.  These certification processes shall help the secure application provider to assess the level of trust it can give to the SSP and thus assess if its secure applications can be hosted by this particular SSP.

## 5.2.12 User interface

RQ number	Clause	Description
	6.12.1	Web-based user interface
	6.12.1.1	Overview
RQ0612_01	6.12.1.1	If the SSP supports the web-based user interface, it shall:
		indicate the URL to be used for the entry page in the capability exchange, as
		defined in clause 6.4.2.5 of ETSI TS 103 666-1 [1];
		<ul> <li>support the SCL protocol, as defined in clause 8 of ETSI TS 103 666-1 [1];</li> </ul>
		<ul> <li>open a TCP server socket with local access only using the TCP control gate, as</li> </ul>
		defined in clause 10.4 of ETSI TS 103 666-1 [1], using the same local port as indicated in the URL.
RQ0612_02	6.12.1.1	The web server in the SSP is accessed by the terminal using the URL retrieved during
		the exchange capability procedure, and using the TCP gates of the SCL protocol
	6.12.1.2	Port values
RQ0612_03	6.12.1.2	The SSP user interface should use the TCP port number 3516 for HTTP and the port
		4116 for HTTP over TLS. Both ports are already reserved by IANA. Port 3516 is
		reserved as "smartcard Port" and port 4116 as "smartcard-TLS".
	6.12.1.3	Presentation of SSP user interface
RQ0612_04	6.12.1.3	The icon and corresponding text to indicate the availability of the SSP user interface to
		the user may be retrieved using the following URLs defined in the well-known URI format
		as defined in IETF RFC 8615 [i.4]:
		<ul> <li>Icon: SSP user interface URL as defined in clause 6.4.2.5 of ETSI</li> </ul>
		TS 103 666-1 [1] followed by "/.well-known/icon.png".
		<ul> <li>Text: SSP user interface URL as defined in clause 6.4.2.5 of ETSI</li> </ul>
		TS 103 666-1 [1] followed by "/.well-known/text".
		The text shall be encoded in UTF-8 as defined in IETF RFC 3629 [18].

## 5.2.13 Accessor authentication service

6.13.1. Overview RO0613_001 6.13.1. The for the access to a resource, an accessor shall authenticate itself based on some oredentials with the accessor authentication service. 6.13.2.1 Overview RO0613_002 6.13.2.1 If an access control includes a grantor then the grantor shall expose an accessor identity, RO0613_003 6.13.2.1 If an access control includes a grantor then the grantor shall expose an accessor identity, RO0613_003 6.13.2.1 If an access control includes a grantor then the grantor shall expose an accessor identity, an operation shall be included in the list of operations allowed by the rights in the access control, the accessor and the grantor are authenticated otherwise the accessor in the access control, the accessor and the grantor are authenticated otherwise the access to the resource is denied RO0613_005 6.13.2.1 The rights provided in the accessor or and the grantor are authenticated otherwise the access onthe accessor identity and the accessor inglist RO0613_006 6.13.2.2 The access control shall contain the accessor identity and the accessor rights RO0613_006 6.13.2.2 The access control may contain the grantor identity 6.13.2.3 Accessor rights to a resource RO0613_007 6.13.2.3 Accessor rights to a resource shall apply only if the accessor has been successfully authenticated using the accessors authentication service. 6.13.3.1 Accessor Ortifol List (ACL) is a list of access controls which shall be formed using ASM notation as defined in clause 6.13.2 of ETSITS 103.666-1 [1] 6.13.4.1 Accessor of the grantor are accessor identity (AccessorIdentity), the members of group as a SET OF accessor identity (AccessorIdentity), and an access control list (AccessOntorIdentity) and an accessor ordifications (AccessorIdentity) and an accessor ordifications (AccessorIden	RQ number	Clause	Description
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height of at least 3 points and at most 10 points.  RQ0613_059 6.13.4.7 aPinPatternCredential: the length of the pattern shall be between 4 and 255 points.  RQ0613_060 6.13.4.7 aPinPatternCredential: if allowed by the credential policy, the same point may appear more than once in the pattern  RQ0613_061 6.13.4.7 aCertificates shall be a set of X.509 certificates of the accessor  RQ0613_062 6.13.4.7 aHostDomainCredential shall be a list of SCL host domains.  6.13.4.8 Accessor credential policy  RQ0613_063 6.13.4.8 AccessorCredentialsPolicy shall comply with ASN.1 description at 6.13.4.8 in ETSI  TS 103 666-1 [1]  RQ0613_064 6.13.4.8 aPinNumericPolicy: alsDisableForbiden shall indicate if PIN can be disabled  RQ0613_065 6.13.4.8 aPinNumericPolicy: aMinSize shall indicate the minimum size for PIN  RQ0613_066 6.13.4.8 aPinNumericPolicy:aMaxSize: shall indicate the maximum size for PIN, if not present,			
RQ0613_0596.13.4.7aPinPatternCredential: the length of the pattern shall be between 4 and 255 points.RQ0613_0606.13.4.7aPinPatternCredential: if allowed by the credential policy, the same point may appear more than once in the patternRQ0613_0616.13.4.7aCertificates shall be a set of X.509 certificates of the accessorRQ0613_0626.13.4.7aHostDomainCredential shall be a list of SCL host domains.6.13.4.8Accessor credential policyRQ0613_0636.13.4.8AccessorCredentialsPolicy shall comply with ASN.1 description at 6.13.4.8 in ETSITS 103 666-1 [1]TS 103 666-1 [1]RQ0613_0646.13.4.8aPinNumericPolicy: alsDisableForbiden shall indicate if PIN can be disabledRQ0613_0656.13.4.8aPinNumericPolicy: aMinSize shall indicate the minimum size for PINRQ0613_0666.13.4.8aPinNumericPolicy:aMaxSize: shall indicate the maximum size for PIN, if not present,	1.40013_036	0.13.4.7	
RQ0613_060 6.13.4.7 aPinPatternCredential: if allowed by the credential policy, the same point may appear more than once in the pattern  RQ0613_061 6.13.4.7 aCertificates shall be a set of X.509 certificates of the accessor  RQ0613_062 6.13.4.7 aHostDomainCredential shall be a list of SCL host domains.  6.13.4.8 Accessor credential policy  RQ0613_063 6.13.4.8 AccessorCredentialsPolicy shall comply with ASN.1 description at 6.13.4.8 in ETSI  TS 103 666-1 [1]  RQ0613_064 6.13.4.8 aPinNumericPolicy: alsDisableForbiden shall indicate if PIN can be disabled  RQ0613_065 6.13.4.8 aPinNumericPolicy: aMinSize shall indicate the minimum size for PIN  RQ0613_066 6.13.4.8 aPinNumericPolicy:aMaxSize: shall indicate the maximum size for PIN, if not present,	RO0613 059	6 13 4 7	
more than once in the pattern  RQ0613_061 6.13.4.7 aCertificates shall be a set of X.509 certificates of the accessor  RQ0613_062 6.13.4.7 aHostDomainCredential shall be a list of SCL host domains.  6.13.4.8 Accessor credential policy  RQ0613_063 6.13.4.8 AccessorCredentialsPolicy shall comply with ASN.1 description at 6.13.4.8 in ETSI  TS 103 666-1 [1]  RQ0613_064 6.13.4.8 aPinNumericPolicy: alsDisableForbiden shall indicate if PIN can be disabled  RQ0613_065 6.13.4.8 aPinNumericPolicy: aMinSize shall indicate the minimum size for PIN  RQ0613_066 6.13.4.8 aPinNumericPolicy:aMaxSize: shall indicate the maximum size for PIN, if not present,			
RQ0613_0616.13.4.7aCertificates shall be a set of X.509 certificates of the accessorRQ0613_0626.13.4.7aHostDomainCredential shall be a list of SCL host domains.6.13.4.8Accessor credential policyRQ0613_0636.13.4.8AccessorCredentialsPolicy shall comply with ASN.1 description at 6.13.4.8 in ETSI TS 103 666-1 [1]RQ0613_0646.13.4.8aPinNumericPolicy: alsDisableForbiden shall indicate if PIN can be disabledRQ0613_0656.13.4.8aPinNumericPolicy: aMinSize shall indicate the minimum size for PINRQ0613_0666.13.4.8aPinNumericPolicy:aMaxSize: shall indicate the maximum size for PIN, if not present,			
RQ0613_062       6.13.4.7       aHostDomainCredential shall be a list of SCL host domains.         6.13.4.8       Accessor credential policy         RQ0613_063       6.13.4.8       AccessorCredentialsPolicy shall comply with ASN.1 description at 6.13.4.8 in ETSI TS 103 666-1 [1]         RQ0613_064       6.13.4.8       aPinNumericPolicy: alsDisableForbiden shall indicate if PIN can be disabled         RQ0613_065       6.13.4.8       aPinNumericPolicy: aMinSize shall indicate the minimum size for PIN         RQ0613_066       6.13.4.8       aPinNumericPolicy:aMaxSize: shall indicate the maximum size for PIN, if not present,	RQ0613_061	6.13.4.7	
6.13.4.8 Accessor credential policy  RQ0613_063 6.13.4.8 AccessorCredentialsPolicy shall comply with ASN.1 description at 6.13.4.8 in ETSI TS 103 666-1 [1]  RQ0613_064 6.13.4.8 aPinNumericPolicy: alsDisableForbiden shall indicate if PIN can be disabled  RQ0613_065 6.13.4.8 aPinNumericPolicy: aMinSize shall indicate the minimum size for PIN  RQ0613_066 6.13.4.8 aPinNumericPolicy:aMaxSize: shall indicate the maximum size for PIN, if not present,	RQ0613_062		
RQ0613_063 6.13.4.8 AccessorCredentialsPolicy shall comply with ASN.1 description at 6.13.4.8 in ETSI TS 103 666-1 [1]  RQ0613_064 6.13.4.8 aPinNumericPolicy: alsDisableForbiden shall indicate if PIN can be disabled  RQ0613_065 6.13.4.8 aPinNumericPolicy: aMinSize shall indicate the minimum size for PIN  RQ0613_066 6.13.4.8 aPinNumericPolicy: aMinSize shall indicate the maximum size for PIN, if not present,			
TS 103 666-1 [1]  RQ0613_064 6.13.4.8 aPinNumericPolicy: alsDisableForbiden shall indicate if PIN can be disabled  RQ0613_065 6.13.4.8 aPinNumericPolicy: aMinSize shall indicate the minimum size for PIN  RQ0613_066 6.13.4.8 aPinNumericPolicy:aMaxSize: shall indicate the maximum size for PIN, if not present,	RQ0613_063		
RQ0613_065 6.13.4.8 aPinNumericPolicy: aMinSize shall indicate the minimum size for PIN aPinNumericPolicy:aMaxSize: shall indicate the maximum size for PIN, if not present,			
RQ0613_066 6.13.4.8 aPinNumericPolicy:aMaxSize: shall indicate the maximum size for PIN, if not present,	RQ0613_064		
	RQ0613_065		
maximum size is limited to 255.	RQ0613_066	6.13.4.8	
			maximum size is limited to 255.

RQ number	Clause	Description
RQ0613_067	6.13.4.8	aPinNumericPolicy: aMaxAttempts shall indicate the maximum number of attempts
_		allowed for the PIN. The value 0 indicates that an infinite number of attempts is allowed.
RQ0613_068	6.13.4.8	aPinPasswordPolicy: aMinSize shall indicate the minimum size for password.
RQ0613_069	6.13.4.8	aPinPasswordPolicy: aMaxSize shall indicate the maximum size for password, if not
		present, maximum size is limited to 255.
RQ0613_070	6.13.4.8	aPinPasswordPolicy: aRequiresLowerCaseLetter shall indicate if the password shall
D00040 074	0.40.40	contain at least one lower case letter.
RQ0613_071	6.13.4.8	aPinPasswordPolicy: aRequiresUpperCaseLetter shall indicate if the password shall
RQ0613_072	6.13.4.8	contain at least one upper case letter aPinPasswordPolicy: aRequiresNumber shall indicate if the password shall contain at
NQ0013_072	0.13.4.0	least one numeric digit (i.e. between '0' and '9').
RQ0613_073	6.13.4.8	aPinPasswordPolicy: aRequiresSymbol shall indicate if the password shall contain at
11.00010_070	0.10.4.0	least one symbol that is not a letter or a number
RQ0613_074	6.13.4.8	aPinPasswordPolicy: aMaxAttempts shall indicate the maximum number of attempts
_		allowed for the password. The value 0 indicates that an infinite number of attempts is
		allowed.
RQ0613_075	6.13.4.8	aPinPatternPolicy: aMinSize shall indicate the minimum number of points in the pattern.
RQ0613_076	6.13.4.8	aPinPatternPolicy: aMaxSize shall indicate the maximum number of points in the pattern,
		if not present, maximum size is limited to 255.
RQ0613_077	6.13.4.8	aPinPatternPolicy: aEntryPanelMinSize shall indicate the minimum size of the width and
		the height of the pattern. The entry panel of the pattern may be a rectangular, as far as
RQ0613_078	6.13.4.8	both sides have a size that is at least equal to aEntryPanelMinSize.  aPinPatternPolicy: aSamePointMultipleTimes shall indicate if the same point can appear
1.Q0013_076	0.13.4.0	multiple times in the pattern.
RQ0613_079	6.13.4.8	aPinPatternPolicy: aMaxAttempts shall indicate the maximum number of attempts
	000	allowed for the pattern. The value 0 indicates that an infinite number of attempts is
		allowed.
RQ0613_080	6.13.4.8	The credential of type host domain is not intended to be changed by the accessor and
		therefore has no defined policy.
RQ0613_081	6.13.4.8	The token-based credentials has no policy.
	6.13.4.9	Accessor credential status
RQ0613_082	6.13.4.9	AccessorCredentialsStatus shall comply with ASN.1 structure define at 6.13.4.9 in ETSI
D00040 000	0.40.40	TS 103 666-1 [1]
RQ0613_083 RQ0613_084	6.13.4.9 6.13.4.9	alsDisabled shall indicate if the related credential is disabled (authentication not needed) aRemainingAttempts shall indicate the number of attempts remaining. 0 indicates that
KQ0013_004	0.13.4.9	the credential is no more useable, no presence indicates that no maximum number of
		retry is defined.
RQ0613_085	6.13.4.9	The credential of type host domain has no status.
RQ0613_086	6.13.4.9	The token-based credential has no status.
_	6.13.5.	Primitives of the access control
	6.13.5.1	AAS-OP-GET-CAPABILITIES-Service-Command
RQ0613_087	6.13.5.1	The accessor authentication service shall support the command AAS-OP-GET-
		CAPABILITIES-Service-Command as defined by ASN.1 in clause 6.13.5.1 of ETSI
200010 000		TS 103 666-1 [1]
RQ0613_088	6.13.5.1	Accessor authentication service shall support the AAS-OP-GET-CAPABILITIES-Service-
RQ0613_089	6.13.5.1	Command command with parameter eGlobalAuthenticationService  Accessor authentication service shall support the AAS-OP-GET-CAPABILITIES-Service-
KQ0013_009	0.13.3.1	Command command with parameter eAccessorStatus
RQ0613_090	6.13.5.1	When the AAS-OP-GET-CAPABILITIES-Service-Command request is successful then
11.00010_000	0.10.0.1	accessor authentication service gate shall include eAAS-OK in the response as defined
		by ASN.1 in clause 6.13.5.1 of ETSI TS 103 666-1 [1]
RQ0613_091	6.13.5.1	In response, aGlobalAuthenticationService: aAASVersion shall indicate major and minor
		release version supported by the accessor authentication service
RQ0613_092	6.13.5.1	In response, aGlobalAuthenticationService: aAccessorList shall indicate the list of all the
D00010 555	0.40 = :	accessors available in the SSP host
RQ0613_093	6.13.5.1	In response, aGlobalAuthenticationService: aACL shall indicate the access control list of
RQ0613_094	6.13.5.1	the accessor authentication service.  In response, aAccessorStatus: alsAuthenticated shall indicate if the accessor is
11.00013_094	0.13.3.1	authenticated in this accessor authentication service
RQ0613_095	6.13.5.1	In response, aAccessorStatus: aAccessorConditions shall indicate the accessor
	0.10.0.1	conditions to be authenticated
RQ0613_096	6.13.5.1	In response, aAccessorStatus: aAccessorCredentialsStatus shall indicate the status of
		the credentials in this accessor authentication service
RQ0613_097	6.13.5.1	In response, aAccessorStatus: aAccessorCredentialsPolicy shall indicate policies for the
		credentials in this accessor authentication service.
	6.13.5.2	AAS-ADMIN-CREATE-ACCESSOR-Service-Command

RQ number	Clause	Description
RQ0613_098	6.13.5.2	The accessor authentication service shall support the command AAS-ADMIN-CREATE-
_		ACCESSOR-Service-Command as defined by ASN.1 in clause 6.13.5.2 of ETSI TS 103 666-1 [1]
RQ0613_099	6.13.5.2	Accessor authentication service shall allow an accessor to create another accessor and
		store its initial credentials if the accessor authentication service grants the
		eAASAccessRight-Create right to this accessor.
RQ0613_100	6.13.5.2	Accessor authentication service shall support the AAS-ADMIN-CREATE-ACCESSOR-
		Service-Command command parameter aAccessor which indicates the definition of the accessor to be created
RQ0613_101	6.13.5.2	Accessor authentication service shall support the AAS-ADMIN-CREATE-ACCESSOR-
101	0.13.3.2	Service-Command command parameter aAccessorConditions which indicates the initial
		conditions of the accessor to be created
RQ0613_102	6.13.5.2	Accessor authentication service shall support the AAS-ADMIN-CREATE-ACCESSOR-
		Service-Command command parameter a Credential which indicates the initial
		credentials of the accessor to be created
RQ0613_103	6.13.5.2	if aCredential is present and the credentials are not conformant with the policies
D00040 404	0.40.5.0	described in that, then the error eAAS- POLICY-RULES-VIOLATIONS shall be returned
RQ0613_104	6.13.5.2	Accessor authentication service shall support the AAS-ADMIN-CREATE-ACCESSOR-Service-Command command parameter aCredentialsPolicy which indicates the policy for
		the credentials of the accessor to be created
RQ0613_105	6.13.5.2	Accessor authentication service shall support the AAS-ADMIN-CREATE-ACCESSOR-
100	0.10.0.2	Service-Command command parameter a Credentials Status which indicates initial status
		of the credentials of the accessor to be created
RQ0613_106	6.13.5.2	When the AAS-ADMIN-CREATE-ACCESSOR-Service-Command request is successful,
		then accessor authentication service gate shall include eAAS-OK in the response as
		described in ASN.1 in clause 6.13.5.2 of ETSI TS 103 666-1 [1]
	6.13.5.3	AAS-ADMIN-UPDATE-ACCESSOR-Service-Command
RQ0613_107	6.13.5.3	Accessor authentication service shall support the command AAS-AAS-ADMIN-UPDATE-
		ACCESSOR-Service-Command as defined by ASN.1 in clause 6.13.5.3 of ETSI
RQ0613_108	6.13.5.3	TS 103 666-1 [1]  Accessor authentication service shall allow an accessor to update the credentials stored
100	0.13.3.3	within a private storage of another accessor or of itself
RQ0613_109	6.13.5.3	Accessor authentication service shall allow the accessor to update the conditions and
		credentials if it has the eAASAccessRight-Update right
RQ0613_110	6.13.5.3	If credential policies are present in the command or previously in the accessor and the
		credentials are not conformant with the policies, then the error eAAS- POLICY-RULES-
		VIOLATIONS shall be returned
RQ0613_111	6.13.5.3	Accessor authentication service shall allow the accessor to update the access control list
RQ0613_112	6.13.5.3	if it has the eAASAccessRight-UpdateACL right  Accessor authentication service shall allow the accessor to update the members of the
1\Q0013_112	0.13.3.3	group if it has the eAASAccessRight-UpdateGroup right
RQ0613_113	6.13.5.3	Accessor authentication service shall allow the accessor to update the credential policies
	01.0.0.0	if it has the eAASAccessRight-UpdateCredentialPolicy right
RQ0613_114	6.13.5.3	Accessor authentication service shall allow the accessor to update the credential status if
		it has eAASAccessRight-UpdateCredentialStatus right
RQ0613_115	6.13.5.3	The command shall be rejected with eAAS-ACL-RULES-VIOLATIONS if it contains any
		element for which the accessor does not have the rights to update
RQ0613_116	6.13.5.3	Accessor authentication service shall support AAS-AAS-ADMIN-UPDATE-ACCESSOR-
		Service-Command command parameter aAccessor-Identity which indicates the accessor identity of the accessor to be updated
RQ0613_117	6.13.5.3	Accessor authentication service shall support AAS-AAS-ADMIN-UPDATE-ACCESSOR-
100013_117	0.13.3.3	Service-Command command parameter aMembersOfGroup which indicates the updated
		list of the accessors in a group
RQ0613_118	6.13.5.3	Accessor authentication service shall support AAS-AAS-ADMIN-UPDATE-ACCESSOR-
		Service-Command command parameter aACL which indicates the updated access
	1	control list for the accessor
RQ0613_119	6.13.5.3	Accessor authentication service shall support AAS-AAS-ADMIN-UPDATE-ACCESSOR-
		Service-Command command parameter aSetAccessorConditions which indicates the
RQ0613_120	6.13.5.3	access conditions that need to be added  Accessor authentication service shall support AAS-AAS-ADMIN-UPDATE-ACCESSOR-
1.00013_120	0.13.3.3	Service-Command command parameter aRemoveAccessorConditions which indicates
		the access conditions that need to be removed. The removal of an access condition
		does not imply the deletion of the corresponding credentials or the change of the status.
RQ0613_121	6.13.5.3	Accessor authentication service shall support AAS-AAS-ADMIN-UPDATE-ACCESSOR-
		Service-Command command parameter aSetCredential which indicates the new values
		of credentials to be updated

RQ number	Clause	Description
RQ0613_122	6.13.5.3	Accessor authentication service shall support AAS-AAS-ADMIN-UPDATE-ACCESSOR-
_		Service-Command command parameter aRemoveCredential which indicates the list of
		credentials that need to be removed from the SSP. The status of all credentials included
D00040 400	0.40.5.0	in this list shall be disabled
RQ0613_123	6.13.5.3	Accessor authentication service shall support AAS-AAS-ADMIN-UPDATE-ACCESSOR-Service-Command command parameter aCredentialsPolicy which indicates the updated
		credential policy. The values of credential policies that are not included in the command
		shall not be modified
RQ0613_124	6.13.5.3	Accessor authentication service shall support AAS-AAS-ADMIN-UPDATE-ACCESSOR-
_		Service-Command command parameter a Credentials Status which indicates the updated
		credential status. The status values of credentials that are not included in the command
		shall not be modified
RQ0613_125	6.13.5.3	When the AAS-AAS-ADMIN-UPDATE-ACCESSOR-Service-Command request is
		successful, then accessor authentication service gate shall include eAAS-OK in the response as described in ASN.1 in clause 6.13.5.3 of ETSI TS 103 666-1 [1]
	6.13.5.4	AAS-ADMIN-DELETE-ACCESSOR-Service-Command
RQ0613_126	6.13.5.4	Accessor authentication service shall support the command AAS-ADMIN-DELETE-
1140010_120	0.10.0.1	ACCESSOR-Service-Command as defined by ASN.1 in clause 6.13.5.4 of ETSI
		TS 103 666-1 [1]
RQ0613_127	6.13.5.4	Accessor authentication service shall allow an accessor to delete another accessor if it
		grants the eAASAccessRight-Delete to this latter accessor
RQ0613_128	6.13.5.4	Accessor authentication service shall support AAS-ADMIN-DELETE-ACCESSOR-
		Service-Command command parameter aAccessorIdentity which indicates the identity of
RQ0613_129	6.13.5.4	the deleted accessor  When the AAS-ADMIN-DELETE-ACCESSOR-Service-Command request is successful,
KQ0613_129	6.13.5.4	then accessor authentication service gate shall include eAAS-OK in the response as
		described in ASN.1 in clause 6.13.5.4 of ETSI TS 103 666-1 [1]
	6.13.5.5	AAS-OP-AUTHENTICATE-ACCESSOR-Service-Command
RQ0613_130	6.13.5.5	Accessor authentication service shall support the command AAS-OP-AUTHENTICATE-
		ACCESSOR-Service-Command as defined by ASN.1 in clause 6.13.5.5 of ETSI
		TS 103 666-1 [1]
RQ0613_131	6.13.5.5	Accessor authentication service shall support AAS-OP-AUTHENTICATE-ACCESSOR-
		Service-Command command parameter aPinNumericCredential which indicates numeric
RQ0613_132	6.13.5.5	PIN credential Accessor authentication service shall support AAS-OP-AUTHENTICATE-ACCESSOR-
100013_132	0.15.5.5	Service-Command command parameter aPinPasswordCredential which indicates
		password credential
RQ0613_133	6.13.5.5	Accessor authentication service shall support AAS-OP-AUTHENTICATE-ACCESSOR-
		Service-Command command parameter aPinPatternCredential which indicates pattern
		credential
RQ0613_134	6.13.5.5	Accessor authentication service shall support AAS-OP-AUTHENTICATE-ACCESSOR-
		Service-Command command parameter aAccessorTokenCertificationPath which indicates the certification path which end entity is the token generated by the accessor
		authentication application as defined in clause C.2 of ETSI TS 103 666-1 [1]
RQ0613_135	6.13.5.5	Accessor authentication service shall support AAS-OP-AUTHENTICATE-ACCESSOR-
_		Service-Command command parameter aHostDomainCredential which indicates the
		accessor is authenticated if the command is issued by a host inside an host domain
200010		which has its UUID listed in credentials of type host domain
RQ0613_136	6.13.5.5	When the AAS-OP-AUTHENTICATE-ACCESSOR-Service-Command request is
		successful, then accessor authentication service gate shall include eAAS-OK in the response as described in ASN.1 in clause 6.13.5.5 of ETSI TS 103 666-1 [1]
RQ0613_137	6.13.5.5	In response, aCredentialsStatus shall indicate the status of the credentials after the
1100010_101	0.10.0.0	execution of the request
RQ0613_138	6.13.5.5	In response, aServiceTokenCertificationPath shall indicate the certification path which
		end entity is the token generated by the accessor authentication service as defined in
		clause C.2 of ETSI TS 103 666-1 [1]
D00040 400	6.13.5.6	AAS-OP-ACCESS-SERVICE-Service-Command
RQ0613_139	6.13.5.6	Accessor authentication service shall support the command AAS-OP-ACCESS-
		SERVICE-Service-Command as defined by ASN.1 in clause 6.13.5.6 in ETSI TS 103 666-1 [1]
RQ0613_140	6.13.5.6	The error code eAAS-E-NOK is returned if the usage of secure pipe is not requested by
	00.0.0	the accessor in the command, but it is required by the service
RQ0613_141	6.13.5.6	This command shall be executed only after successful authentication of the accessor, or
		the SSP shall reject it with the value eAAS-NOT-AUTHENTICATED
	•	•

RQ number	Clause	Description
RQ0613_142	6.13.5.6	Accessor authentication service shall support AAS-OP-ACCESS-SERVICE-Service- Command command parameter aServiceIdentifier which indicates the gate identifier of a service in the SSP host
RQ0613_143	6.13.5.6	Accessor authentication service shall support AAS-OP-ACCESS-SERVICE-Service-Command command parameter aUseSecurePipe which indicates if a secure pipe is required to access the service
RQ0613_144	6.13.5.6	When AAS-OP-ACCESS-SERVICE-Service-Command request is successful, then accessor authentication service gate shall include eAAS-OK in the response as described in ASN.1 in clause 6.13.5.6 of ETSI TS 103 666-1 [1] where aGateIdentifier shall indicate identifier of the service gate dynamically allocated by the accessor authentication service
	6.13.5.7	AAS-OP-GET-CHALLENGE-Service-Command
RQ0613_145	6.13.5.7	Accessor authentication service shall support the command AAS-OP-GET-CHALLENGE-Service-Command with no parameters
RQ0613_146	6.13.5.7	When the AAS-OP-GET-CHALLENGE-Service-Command request is successful, then accessor authentication service gate shall include eAAS-OK in the response as described in ASN.1 in clause 6.13.5.7 of ETSI TS 103 666-1 [1] where aChallenge indicates challenge used for performing the mutual authentication between the accessor authentication service and the accessor authentication application. The challenge should be a random number of at least 128 bits. The way the challenge is generated is implementation dependant.
RQ0613_147	6.13.5.7	Accessor authentication service shall support response code eAAS-OK when the AAS-OP-GET-CHALLENGE-Service-Command command is completed successfully
	6.13.6.	Response code
	6.13.6.1	Overview
RQ0613_148	6.13.6.1	Accessor authentication service shall support response code eAAS-E-CMD-PAR-UNKNOWN when unknown parameters are used for an operation
RQ0613_149	6.13.6.1	Accessor authentication service shall support response code eAAS-E-NOK when the operation failed
RQ0613_150	6.13.6.1	Accessor authentication service shall support response code eAAS-ACL-RULES-VIOLATION when the operation violates the ACL conditions associated with an accessor
RQ0613_151	6.13.6.1	Accessor authentication service shall support response code eAAS-NOT- AUTHENTICATED when the accessor is not authenticated
RQ0613_152	6.13.6.1	Accessor authentication service shall support response code eAAS-POLICY-RULES-VIOLATION when the operation violates the credential policy
	6.13.6.2	Response code to access control primitives
RQ0613_153	6.13.6.2	Response code shall be returned in accordance with Table 6.6 of ETSI TS 103 666-1 [1]

## 5.3 Physical interfaces

## 5.3.1 Overview

RQ number	Clause	Description
RQ0701_01	7.1	When the SSP contains two or more interfaces, each of them is completely independent,
		both electrically and logically.
		This implies that signalling on a contact assigned to one interface shall not affect the state of
		other contacts assigned to another interface. Similarly, an operation performed on one
		interface shall not alter the logical state of any other interface.

## 5.3.2 Reset

Reference: ETSI TS 103 666-1 [1], clause 7.2

RQ number	Clause	Description
RQ0702_01	7.2	Each physical interface shall support at least one of the following reset types:
		<ul> <li>Reset with dedicated line: this reset requires the presence of a dedicated line in the physical interface that indicates the reset (e.g. the RST line on the ISO/IEC 7816-3 [13] physical interface).</li> </ul>
		<ul> <li>Logical reset: this reset is performed sending a command over the physical interface to indicate the reset to the SSP (e.g. RSET frame in SHDLC or USB Reset). This command may be sent at the data link layer or any layer above.</li> </ul>
		<ul> <li>Hard reset: this reset is performed removing the power, if present, provided by the physical interface to the SSP (e.g. cold reset for the ISO/IEC 7816-3 [13] physical interface).</li> </ul>
RQ0702_02	7.2	If the power provided by one physical interface is the only source of power of the SSP, a hard reset of that physical interface causes the reset of the entire SSP. In all other cases, a reset performed on any interface shall not interfere with the operations on the other interfaces, or with the operational state of the SSP itself.

## 5.3.3 ISO/IEC 7816 interface

RQ number	Clause	Description
	7.3.1	Electrical specifications
	7.3.1.1	Electrical specifications of the interface
RQ0703_01	7.3.1.1	For the electrical specifications of the interface the provisions of ETSI TS 102 221 [7], clause 5
		shall apply with the following exceptions:
		The SSP may support a clock up to 20 MHz for the ISO/IEC 7816-3 [13] physical interface.
		The SSP shall use an internal clock for the processing, when this is mandated by the SSP class. The SSP may use an internal clock in all other cases.
	7.3.1.2	Contacts
RQ0703_02	7.3.1.2	For the contacts the provisions of ETSI TS 102 221 [7], clause 4.5 shall apply with the following exception:
		<ul> <li>References to the usage of contacts C4 and C8 for the Inter-Chip USB interface.</li> </ul>
	7.3.2	Initial communication establishment procedures
	7.3.2.1	SSP interface activation and deactivation
RQ0703_03	7.3.2.1	For the SSP interface activation and deactivation the provisions of ETSI TS 102 221 [7],
		clause 6.1 shall apply with the exceptions to the usage of contacts C4 and C8 for the Inter-
		Chip USB interface.
	7.3.2.2	Supply voltage switching
RQ0703_04	7.3.2.2	For the Supply voltage switching the provisions of ETSI TS 102 221 [7], clauses 6.2.0, 6.2.1 and 6.2.2 shall apply.
RQ0703_05	7.3.2.2	The maximum power consumption of the SSP after ATR shall be restricted to the values indicated in ETSI TS 102 221 [7], Table 6.4, until a different value is negotiated using the SSP capability exchange procedure, described in clause 6.4.2 of ETSI TS 102 221 [7].
	7.3.2.3	Answer To Reset content
RQ0703 06	7.3.2.3	The ATR shall be the first string of bytes sent from the SSP to the terminal after a reset has
_		been performed. The ATR is defined in ISO/IEC 7816-3 [13].
RQ0703_07	7.3.2.3	The historical bytes indicate to the external world how to use the SSP. The information carried by the historical bytes shall follow ISO/IEC 7816-4 [8].
RQ0703_08	7.3.2.3	For the ATR the provisions of ETSI TS 102 221 [7], clauses 6.3.2 and 6.3.3 shall apply.
RQ0703_09	7.3.2.3	The ATR contains also some properties that are not related to the ISO/IEC 7816-3 [13]13
		physical interface and that are negotiated between the SSP and the terminal during the
		capability exchange procedure described in clause 6.4.2 of ETSI TS 103 666-1 [1]. In this
		case, the terminal shall ignore those properties and use only the value negotiated in the
		capability exchange procedure.
	7.3.2.4	PPS procedure.
RQ0703_10	7.3.2.4	For the PPS procedure the provisions of ETSI TS 102 221 [7], clause 6.4 shall apply.
	7.3.2.5	Reset procedure.

RQ number	Clause	Description
RQ0703_11	7.3.2.5	For the Reset procedure the provisions of ETSI TS 102 221 [7], clause 6.5 shall apply:
		The warm reset is a reset with dedicated line, as described in clause 7.2 of ETSI
		TS 103 666-1 [1].
		The cold reset is a hard reset, as described in clause 7.2 of ETSI TS 103 666-1 [1].
	7.3.2.6	Clock stop mode.
RQ0703_12	7.3.2.6	For the Clock stop mode the provisions of ETSI TS 102 221 [7], clause 6.6 shall apply.
	7.3.2.7	Bit/character duration and sampling time.
RQ0703_13	7.3.2.7	For the Bit/character duration and sampling time the provisions of ETSI TS 102 221 [7],
		clause 6.7 shall apply.
	7.3.2.8	Error handling.
RQ0703_14	7.3.2.8	For the Error handling the provisions of ETSI TS 102 221 [7], clause 6.8 shall apply.
	7.3.3	Data link protocols.
	7.3.3.1	Overview.
RQ0703_15	7.3.3.1	For the Data link protocols the provisions of ETSI TS 102 221 [7], clause 7.0 shall apply with
		the exceptions listed below.
		Only the protocol T=1 is mandatory for the terminal. The SSP shall support the protocol T=1.
	7.3.3.2	Character frame.
RQ0703_16	7.3.3.2	For the Character frame the provisions of ETSI TS 102 221 [7], clause 7.2.1 shall apply.
	7.3.3.3	Protocol T=1.
RQ0703_17	7.3.3.3	For Protocol T=1 the provisions of ETSI TS 102 221 [7], clause 7.2.3 shall apply.

### 5.3.4 SPI interface

Reference: ETSI TS 103 666-1 [1], clause 7.4

RQ number	Clause	Description
RQ0704_01	7.4	For the SPI interface the provisions of ETSI TS 103 713 [25] shall apply.

## 5.4 SSP Common Layer (SCL)

### 5.4.1 Introduction

Reference: ETSI TS 103 666-1 [1], clause 8.1

RQ number	Clause	Description
RQ0801_001	8.1	The SSP may support the SSP Common Layer (SCL) implementation comprised of
		optional network, transport and session layers
RQ0801_002		SCL shall be implemented using VNP, as specified in the GlobalPlatform VPP - Network Protocol [10] with the relevant sections and exceptions as described in ETSI TS 103 666-1 [1], clause 8.

### 5.4.2 SCL network

RQ number	Clause	Description
RQ0802_001	8.2	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 3 shall apply
RQ0802_001a	8.2	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 3 shall apply, with the
		exception listed below:
		One of the end points of any dynamic pipe shall be in the SSP host domain.
RQ0802_002	8.2	Table 8.1 of ETSI TS 103 666-1 [1] defines the URN for the additional gates defined in the
		current document, other than the ones referenced from GlobalPlatform VPP - Network
		Protocol [10]. All UUIDs are calculated using the version 5 of the UUID as specified in IETF
		RFC 4122 [19], using the domain name system namespace.
RQ0802_003	8.2	The data acknowledgement mechanism (EVT_ADM_RECEIVED) and the credit-based data
		flow control (EVT_ADM_CREDIT) described in ETSI TS 103 666-1 [1], clause 8.5.3 shall not
		apply unless otherwise specified in the gate description.

## 5.4.3 Protocol layers

Reference: ETSI TS 103 666-1 [1], clause 8.3

RQ number	Clause	Description
	8.3.1	Overview
RQ0803_001	8.3.1	The provisions of GlobalPlatform VPP - Network Protocol [10], clauses 4.1 and 4.2 shall apply,
		with the exception listed below:
		the MTU shall be 20 bytes or greater.
RQ0803_002	8.3.1	For proper operation, the protocol stack underlying the SCL shall provide a means for managing
		the underlying flow control.
RQ0803_003	8.3.1	There shall be an optional means for controlling (e.g. activating, deactivating) the underlying
		protocols and for getting the notifications from an underlying protocol (e.g.
		activation/deactivation of the interface by the terminal).
	8.3.2	Network layer
RQ0803_004	8.3.2	For the network layer, the provisions of GlobalPlatform VPP - Network Protocol [10], clause 4.3
		shall apply.
	8.3.3	Transport layer
RQ0803_005	8.3.3	For the transport layer, the provisions of GlobalPlatform VPP - Network Protocol [10], clause 4.4
		shall apply.
	8.3.4	Session layer
RQ0803_006	8.3.4	For the session layer, the provisions of GlobalPlatform VPP - Network Protocol [10], clause 4.5
		shall apply.

### 5.4.4 SCL core services

RQ number	Clause	Description
	8.4.1	Overview
RQ0804_001	8.4.1	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 5.1 shall apply for SCL core services.
	8.4.2	Common core features
RQ0804_002	8.4.2	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 5.2 shall apply for SCL common core services.
	8.4.3	Link gate
	8.4.3.1	Link service gate
	8.4.3.1.1	General description
RQ0804_003	8.4.3.1.1	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 5.3 shall apply for link gate.
RQ0804_004	8.4.3.1.1	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 5.3 shall apply for link gate with additional registry entries and SSP_MTU as defined in ETSI TS 103 666-1 [1], clause 8.4.3.1.
	8.4.3.1.2	Additional registry entries
RQ0804_005	8.4.3.1.2	Additional entries in the registry of the link service gate are defined in ETSI TS 103 666-1 [1], Table 8.2.
	8.4.3.1.3	SSP_MTU
RQ0804_006	8.4.3.1.3	SSP_MTU contains the value in bytes of the MTU of the link layer between the SCL router and the SSP. The entry shall have a value equal to or greater than 20.
RQ0804_007	8.4.3.1.3	An SCL host shall be able to send an SCL packet to the SSP without fragmentation, if the size of the SCL packet is less or equal to the value provided in this registry.
RQ0804_008	8.4.3.1.3	The SCL router shall be able to forward to the SSP any SCL packet with a size equal or smaller than the value provided in this registry, without any further fragmentation.
	8.4.3.2	Link application gate
RQ0804_009	8.4.3.2	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 5.4 shall apply for the link application gate.
	8.4.4	Administration gate
	8.4.4.1	Administration service gate
RQ0804_010	8.4.4.1	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 5.5 shall apply for the administration service gate. The credit-based data flow control mechanism and the data acknowledgement mechanism are not used in the administration service gate for its own usage (e.g. the reception of an event EVT_ADM_BIND does not trigger the emission of EVT_ADM_RECEIVED nor EVT_ADM_CREDIT).
	8.4.4.2	Administration application gate

RQ number	Clause	Description
RQ0804_011	8.4.4.2	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 5.6 shall apply for the administration application gate. The credit-based data flow control mechanism and the data acknowledgement mechanism are not used in the administration service gate for its own
		usage (e.g. the reception of an event EVT_ADM_BIND does not trigger the emission of EVT_ADM_RECEIVED nor EVT_ADM_CREDIT).
	8.4.5	Identity gate
	8.4.5.1	Identity service gate
	8.4.5.1.1	General description
RQ0804_012	8.4.5.1.1	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 5.7 shall apply for identity service gate.
RQ0804_013	8.4.5.1.1	The identity service gate should not list gates that are created dynamically as a result of an operation on a service of the SSP.
RQ0804_014	8.4.5.1.1	The credit-based data flow control mechanism and the data acknowledgement mechanism shall not be used in the identity service gate.
	8.4.5.1.2	Additional registry entries
RQ0804_015	8.4.5.1.2	Additional registry entries in the identity service gate are defined in ETSI TS 103 666-1 [1], Table 8.3.
	8.4.5.1.3	CAPABILITY_EXCHANGE
RQ0804_016	8.4.5.1.3	The capabilities of the host are coded with ASN.1 syntax as defined in ETSI TS 103 666-1 [1]:
		clause 6.4.2.4, for SCL hosts outside the SSP host domain;
RQ0804_017	8.4.5.1.3	The capabilities of the host are coded with ASN.1 syntax as defined in ETSI TS 103 666-1 [1]:
	0.4544	• clause 6.4.2.5, for SCL hosts inside the SSP host domain.
RQ0804_018	8.4.5.1.4 8.4.5.1.4	GATE_URN_LIST
KQ0004_010	0.4.5.1.4	The GATE_URN_LIST provides an ASN.1 object containing an array of URNs according to IETF RFC 8141 [20] used to compute gate identifiers and the UUID resulting from the computation.
RQ0804 019	8.4.5.1.4	The Identity Application Gate may use this entry for service discovery.
RQ0804_020	8.4.5.1.4	The GATE_URN_LIST may have less, but shall not have more URNs than UUIDs listed in the GATE_LIST entry. All URNs provided in the GATE_URN_LIST shall be present in the GATE_LIST.
	8.4.5.2	Identity application gate
RQ0804_021	8.4.5.2	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 5.8 shall apply for identity application gate.
RQ0804_022	8.4.5.2	In addition to the provisions of GlobalPlatform VPP - Network Protocol [10], clause 5.8, the additional entries in the gate registry defined in ETSI TS 103 666-1 [1], clause 8.4.5.1.2 shall apply for identity application gate.
RQ0804_023	8.4.5.2	The credit-based data flow control mechanism and the data acknowledgement mechanism shall not be used in the identity application gate.
	8.4.6	Loopback gate
	8.4.6.1	Loopback service gate
RQ0804_024	8.4.6.1	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 5.9 shall apply for the loopback service gate.
	8.4.6.2	Loopback application gate
RQ0804_025	8.4.6.2	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 5.10 shall apply for the loopback application gate.

## 5.4.5 SCL procedures

RQ number	Clause	Description
	8.5.1	Host registration
RQ0805_001	8.5.1	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 6.1.2 shall apply for the SCL host registration.
	8.5.2	Host deregistration
RQ0805_002	8.5.2	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 6.1.4 shall apply for the SCL host deregistration.
	8.5.3	Pipe management

RQ number	Clause	Description
RQ0805_003	8.5.3	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 6.2 shall apply for the pipe management. Additionally, if a host receives a binding request and is not able to process the binding procedure for one or more service gates provided in the request, the host should reject the pipe session opening by answering with an EVT_ADM_BIND with a gate binding parameter using the pipe identifier '7F' for the gates on which no pipe session has been opened
RQ0805_004	8.5.3	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 6.2 shall apply for the pipe management. Additionally, a host shall not request a pipe binding for a service gate if this service gate has already a pipe session for this host.
	8.5.4	Registry access
RQ0805_005	8.5.4	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 6.3 shall apply for registry access.
	8.5.5	Hosts and gates discovery
RQ0805_006	8.5.5	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 6.4 shall apply for hosts and gates discovery.
	8.5.6	Loopback testing
RQ0805_007	8.5.6	The provisions of GlobalPlatform VPP - Network Protocol [10], clause 6.5 shall apply for loopback testing.

## 5.5 Secure SCL

### 5.5.1 Protocol Stack

Reference: ETSI TS 103 666-1 [1], clause 9.1.

## 5.5.2 Secure datagram

RQ number	Clause	Description
RQ0902_001	9.2	The value of the DIVERSIFIER defined in the clause C.4.2 of ETSI TS 103 666-1 [1] shall be the logical XOR of the aChallenge value as defined in the clause 6.13.5.7 of ETSI TS 103 666-1 [1] and the service identifier (aServiceIdentifier) as defined in clause 6.13.5.6 of ETSI TS 103 666-1 [1].
RQ0902_002	9.2	PL shall correspond to the number of padding bytes appended to the message fragment (see padding below). PL is coded on bits 1 to 7.
RQ0902_003	9.2	CB shall be set to 1 for the last or only fragment of a message.
RQ0902_004	9.2	The length of the secure message fragment shall be a multiple of 16 bytes.
RQ0902_005	9.2	Secure SCL message: contains the cryptogram of the structure consisting of message fragment, padding, CB and PL. The cryptogram is generated by using a stream cipher algorithm identified by StreamCipherIdentifier value (see clause C.2.2 of ETSI TS 103 666-1 [1]).
RQ0902_006	9.2	ICHECK: Integrity check of the secure SCL message using the stream cipher algorithm identified by StreamCipherIdentifier value.
RQ0902_007	9.2	If the stream cipher algorithm is the GCM then each gate supporting the secure SCL shall manage two GCM monotonic counters which shall be incremented after sending and receiving a secure SCL message.
RQ0902_008	9.2	The GCM counter shall be set to 0 after the successful authentication of the accessor.
RQ0902_009	9.2	The secure SCL message results from the encryption by using the security function as defined in clause C.3.5 of ETSI TS 103 666-1 [1].
RQ0902_010	9.2	The key KS <sup>2</sup> , used by this security function, shall be deduced from the Accessor Authentication Service Protocol as defined in clause 10.9 of ETSI TS 103 666-1 [1].

## 5.5.3 Security protocol

Reference: ETSI TS 103 666-1 [1], clause 9.3

RQ number	Clause	Description
	9.3.1	Overview
	9.3.2	Shared secret initialization
RQ0903_001	9.3.2	The Accessor Authentication Service (AAS) generates a challenge (aChallenge) and sends it to the Accessor Authentication Application (AAA) - see Figure 9.3 in ETSI TS 103 666-1 [1].
RQ0903_002	9.3.2	The accessor authentication application shall generate an ephemeral key pair (ePK.AAA.ECKA, eSK.AAA.ECKA)
RQ0903_003	9.3.2	The accessor authentication application shall generate and send the Certification_Path ATK_AAA which end entity is ATK.AAA.ECKA authentication token as defined in clause C.2.2 of ETSI TS 103 666-1 [1], signed by SK.AAA.ECDSA private key
RQ0903_004	9.3.2	The accessor authentication application shall send the Certification_Path ATK_AAA to the accessor authentication service.
RQ0903_005	9.3.2	The Accessor Authentication Service shall validate Certification_Path ATK_AAA by using PK.CI AAA.ECDSA public key
RQ0903_006	9.3.2	The Accessor Authentication Service shall generate an ephemeral key pair (ePK.AAS.ECKA, eSK.AAS.ECKA)
RQ0903_007	9.3.2	The Accessor Authentication Service shall generate the Certification_Path ATK_AAS which end entity is ATK.AAS.ECKA authentication token as defined in clause C.2.2 of ETSI TS 103 666-1 [1], signed by SK.AAS.ECDSA private key
RQ0903_008	9.3.2	The Accessor Authentication Service shall compute the shared secret ShS by using ECKA_DH (anonymous Diffie-Hellman ECC key agreement) with the ephemeral key pair eSK.AAS.ECKA and ePK.AAA.ECKA as defined in clause C.4 of ETSI TS 103 666-1 [1].
RQ0903_009	9.3.2	The Accessor Authentication Service shall send the Certification_Path ATK_AAS to the accessor authentication application.
RQ0903_010	9.3.2	The accessor authentication application shall validate the Certification_Path ATK_AAS by using PK.CI AAS .ECDSA public key
RQ0903_011	9.3.2	The accessor authentication application shall compute the shared secret ShS by using ECKA_DH (anonymous Diffie-Hellman ECC key agreement) with the ephemeral key pair eSK.AAA.ECKA and ePK.AAS.ECKA.
RQ0903_012	9.3.2	The accessor authentication service shall verify that the Certification_Path ATK_AAA contains aChallenge challenge
RQ0903_013	9.3.2	The accessor authentication application shall verify that the Certification_Path ATK_AAS contains aChallenge challenge
RQ0903_014	9.3.2	ShS shared secret is the seed which shall be used for deriving the keys for the secure SCL communication.
	9.3.3	Secure SCL shared keys generation
RQ0903_015	9.3.3	From the shared secret ShS obtained from the procedure described in clause 9.3.2 of ETSI TS 103 666-1 [1], any service or application may initiate the generation of the key data by using the KDF function defined in clause C.4 of ETSI TS 103 666-1 [1] and a DIVERSIFIER128BIT that is equal to aGateIdentifier defined in clause 6.13.5.6 of ETSI TS 103 666-1 [1].
RQ0903_016	9.3.3	Generation of key data is performed for each AAS-OP-ACCESS-SERVICE-Service-Command as defined in clause 6.13.5.7 of ETSI TS 103 666-1 [1] and when the secure SCL is required

## 5.5.4 Accessor authentication service procedure

RQ number	Clause	Description
	9.4.1	Initialization
RQ0904_001		The accessor authentication application gate requests the initialization of the security protocol through AAS-OP-GET-CHALLENGE-Service-Command
RQ0904_002		The accessor authentication service gate returns the aChallenge as AAS-OP-GET-CHALLENGE-Service-Command response.
RQ0904_003		The accessor authentication application gate requests an authentication based on the authentication token with its Certification_Path ATK_AAA as parameter of AAS-OP-AUTHENTICATE-ACCESSOR-Service-Command
RQ0904_004		The accessor authentication service gate returns its Certification_Path ATK_AAS as parameter of AAS-OP-AUTHENTICATE-ACCESSOR-Service-Command response.

## 5.6 Communication layers above SCL

### 5.6.1 Overview

Reference: ETSI TS 103 666-1 [1], clause 10.1

## 5.6.2 APDU protocol

RQ number	Clause	Description
	10.2.1	Introduction
	10.2.2	Command-response pairs
	10.2.2.1	General definition
RQ1002_001	10.2.2.1	The provisions of ISO/IEC 7816-4 [8], clause 5.1 shall apply, with the exceptions listed
		in the ETSI TS 103 666-1 [1], clause 10.2.2
	10.2.2.2	CLA Byte
RQ1002_002	10.2.2.2	The provisions of ETSI TS 102 221 [7], clause 10.1.1 shall apply.
	10.2.2.3	INS Byte
RQ1002_003	10.2.2.3	SSP shall support following commands on the basic logical channel as defined in ETSI TS 103 666-1 [1], Table 10.1:
		SELECT     MANAGE CHANNEL
		EXCHANGE CAPABILITIES
RQ1002_004	10.2.2.3	The values '6X' and '9X' are invalid as instructions.
11002_004	10.2.2.4	Coding of SW1 and SW2
RQ1002_005	10.2.2.4	If no application is selected and the SSP has support for the UICC file system, the
		provisions of ETSI TS 102 221 [7], clause 10.2.2 shall apply.
RQ1002_006	10.2.2.4	The value '61XX' is reserved as a special value when APDUs are transported over ISO/IEC 7816-4 [8] interface and shall not be used for other purposes.
	10.2.3	SSP commands
	10.2.3.1	Overview
	10.2.3.2	EXCHANGE CAPABILITIES
	10.2.3.2.1	Description
RQ1002_007	10.2.3.2.1	EXCHANGE CAPABILITIES command shall be executed immediately after the SSP Interface Session is started. The command might be executed again if some of the
RQ1002_008	10.2.3.2.1	capabilities change.  The SSP and the terminal shall use the values exchanged during the last execution of
RQ1002_009	10.2.3.2.1	EXCHANGE CAPABILITIES command.  The values of the EXCHANGE CAPABILITIES command shall take precedence over
KQ1002_009	10.2.3.2.1	any equivalent value exchanged over the physical interface (for example, using the
		ATR) or over the transport interface.
	10.2.3.2.2	Command parameters
	10.2.3.2.3	Command data
RQ1002_010	10.2.3.2.3	Command data of "EXCHANGE CAPABILITIES" contains sequence of TLVs, coded as per ETSI TS 103 666-1 [1], clause 6.4.2.4.
	10.2.3.2.4	Command response
RQ1002_011	10.2.3.2.4	Response of command "EXCHANGE CAPABILITIES" contains sequence of TLVs, coded as per ETSI TS 103 666-1 [1], clause 6.4.2.5.
	10.2.3.3	SELECT
RQ1002_012	10.2.3.3	The provisions of ISO/IEC 7816-4 [8] and of ETSI TS 102 221 [7] for the SELECT command with P1 = '04' ("Select by DF name") shall apply. The coding of P2 is
	10.2.4	described in ETSI TS 103 666-1 [1], Table 10.3.
	10.2.4	Logical channels
DO4000 040	10.2.4.1	Overview  The CCD is displayed the province was provided to a second decision of the s
RQ1002_013	10.2.4.1	The SSP indicates the maximum number of supported logical channels during the capability exchange with the terminal.
RQ1002_014	10.2.4.1	A logical channel is opened by using a MANAGE CHANNEL command, in which the card assigns a channel number and returns it in the response.
RQ1002_015	10.2.4.1	The logical channel shall remain open until it is explicitly closed by a MANAGE CHANNEL command, or if the connection between the terminal and the SSP entity handling the APDUs is deactivated.
	10.2.4.2	Manage Channel
RQ1002_016	10.2.4.2	The provisions of ETSI TS 102 221 [7], clause 11.1.17 shall apply.

RQ number	Clause	Description
RQ1002_017	10.2.4.2	Support for "MANAGE CHANNEL" command is mandatory if the SSP indicates support
NQ1002_017	10.2.4.2	for logical channels during the capability exchange procedure.
	10.2.5	
	10.2.5	UICC file system commands Overview
	10.2.5.1	
D04000 040	10.2.5.2	Methods for selecting a file
RQ1002_018	10.2.5.2	The provisions of ETSI TS 102 221 [7], clause 8.4 shall apply.
	10.2.5.3	Reservation of file IDs
RQ1002_019	10.2.5.3	The provisions of ETSI TS 102 221 [7], clause 8.6 shall apply.
	10.2.5.4	Security features
RQ1002_020	10.2.5.4	The provisions of ETSI TS 102 221 [7], clause 9 shall apply.
	10.2.5.5	Additional commands
RQ1002_021	10.2.5.5	In addition to the commands described in clause 10.2.3, these additional commands, as
		defined in ETSI TS 103 666-1 [1], Table 10.4, shall be supported by the SSP on the
		default logical channel.
	10.2.6	Card Application Toolkit
	10.2.6.1	Overview
RQ1002_022	10.2.6.1	When the SSP indicates support for Card Application Toolkit according to ETSI
		TS 102 223 [9], the provisions of ETSI TS 102 221 [7], clause 7.4.2 shall apply.
RQ1002_023	10.2.6.1	When the physical interface used to transport APDUs allows the SSP to remotely wake
		up the terminal in case of proactive command, the SSP shall use that mechanism to
		inform the terminal of a pending proactive command. In this case, the terminal shall use
		the FETCH command APDU (see ETSI TS 102 221 [7]) to get the pending proactive
		command.
RQ1002_024	10.2.6.1	When the physical interface used to transport APDUs does not allow the SSP to
1141002_021	10.2.0.1	remotely wake up the terminal in case of proactive command, the SSP can reply '91XX'
		in place of '9000' to indicate that a proactive command is pending.
RQ1002_025	10.2.6.1	In all cases, the terminal shall send the FETCH and TERMINAL RESPONSE
1141002_020	10.2.0.1	commands on the basic logical channel 0, even if the command to which the card
		replied with '91XX' was sent on a logical channel different from the basic logical
		channel.
	10.2.6.2	Terminal profile
RQ1002_026	10.2.6.2	The Card Application Toolkit terminal profile allows the SSP to determine what the
1002_020	10.2.0.2	terminal is capable of, and the SSP shall then limit its instruction range accordingly.
RQ1002_027	10.2.6.2	If the terminal supports the Card Application Toolkit, the terminal profile shall be
1002_021	10.2.0.2	included in the capability exchange procedure.
RQ1002_028	10.2.6.2	The content of the terminal profile is defined in ETSI TS 102 223 [9], clause 5.2.
	10.2.6.3	Proactive polling
RQ1002_029	10.2.6.3	When the proactive polling is indicated as required in the capability exchange
	10.2.0.0	procedure, the terminal shall perform proactive polling as defined in ETSI
		TS 102 221 [7].
RQ1002_030	10.2.6.3	Proactive polling as defined in ETSI TS 102 221 [7] is optional:
11.002_000	10.2.0.0	when the physical interface used to transport APDUs allows the SSP to remotely wake
		up the terminal;
RQ1002_031	10.2.6.3	Proactive polling as defined in ETSI TS 102 221 [7] is optional:
1002_001	10.2.0.0	when the Card Application Toolkit is not supported by the SSP.
	10.2.6.4	Additional commands
RQ1002_032	10.2.6.4	In addition to the commands described in ETSI TS 103 666-1 [1], clause 10.2.3, these
1002_002	10.2.0.4	additional commands shall be supported by the SSP on the default logical channel as
		defined in Table 10.5 of ETSI TS 103 666-1 [1].
	10.2.7	SSP suspension
RQ1002_033	10.2.7	If the SSP suspension is supported, these additional commands, as defined in
NQ1002_033	10.2.7	Table 10.6 of ETSI TS 103 666-1 [1], shall be supported by the SSP on the default
		logical channel.
	10.2.8	APDU transfer over SCL
	10.2.8.1	Overview
	1	
	10.2.8.2	UICC APDLL overview
PO1002 024	10.2.8.2.1	UICC APDU overview
RQ1002_034	10.2.8.2.1	If APDUs are carried over SCL, an SSP host shall contain no more than one UICC
DO4000 005	40.000.1	APDU service gate.
RQ1002_035	10.2.8.2.1	Each SCL host outside the SSP host domain shall not create more than one pipe
		TENERIOR IN THE LITE LAPITE CONTROL MATE FOR AND MOST
D04000 000	40.000.0	session to the UICC APDU service gate for each SSP host.
RQ1002_036	10.2.8.2.1	The communication between the UICC APDU service gate and the UICC APDU
RQ1002_036	10.2.8.2.1	The communication between the UICC APDU service gate and the UICC APDU application gate shall use the presentation layer defined in ETSI TS 102 622 [5],
RQ1002_036	10.2.8.2.1	The communication between the UICC APDU service gate and the UICC APDU

RQ number	Clause	Description
RQ1002_037	10.2.8.2.1	The UICC APDU gates shall reuse the mechanisms described in ETSI TS 102 622 [5],
		clause 12.
	10.2.8.2.2	UICC APDU service gate
RQ1002_038	10.2.8.2.2	The UICC APDU service gate URN shall support the syntax as defined in ETSI
		TS 103 666-1 [1], clause 8.2, with the values specified in Table 8.1.
RQ1002_039	10.2.8.2.2	The UICC APDU service gate shall support the commands, events and registry as
		described in ETSI TS 102 622 [5], clause 12.2.
	10.2.8.2.3	UICC APDU application gate
	10.2.8.2.3.1	Commands
RQ1002_040	10.2.8.2.3.1	The UICC APDU application gate shall support the commands described in ETSI
		TS 102 622 [5], clause 12.3.1.
	10.2.8.2.3.2	Events
RQ1002_041	10.2.8.2.3.2	The UICC APDU application gate shall support the commands described in ETSI
		TS 102 622 [5], clause 12.3.2, with the addition of the events defined in ETSI
		TS 103 666-1 [1], Table 10.7.
	10.2.8.2.3.3	EVT_TOOLKIT_REQUEST
RQ1002_042	10.2.8.2.3.3	"EVT_TOOLKIT_REQUEST" event shall be sent by the UICC APDU service gate in idle
		state to indicate to the UICC APDU application gate that a proactive command is
		pending.
RQ1002_043	10.2.8.2.3.3	After receiving this event, the UICC APDU application gate shall send an APDU
		containing the STATUS command to allow the SSP to start a proactive session.
	10.2.8.2.3.4	State diagram for the UICC APDU gate
RQ1002_044	10.2.8.2.3.4	Other events or commands received on the UICC APDU gate shall not change its state,
		with the exception of EVT_ADM_UNBIND which can be received in any state.

## 5.6.3 File system protocol

RQ number	Clause	Description
	10.3.1	Overview
RQ1003_001	10.3.1	The SSP file system, as defined in clause 6.6.2 of ETSI TS 103 666-1 [1], may be accessed by entities outside the SSP using the SSP file system service over the SCL protocol.
RQ1003_002	10.3.1	The SSP file system service resides in an SSP host and shall contain a single file system control service gate.
RQ1003_003	10.3.1	The SSP file system application resides in an SCL host outside the SSP host domain and it shall contain a single file system control application gate.
RQ1003_004	10.3.1	SSP file system application may contain multiple file system data application gates.
RQ1003_005	10.3.1	SSP file system service may contain multiple file system data service gates.
RQ1003_006	10.3.1	Small amount of data may then be exchanged via the file system control pipe.
RQ1003_007	10.3.1	The file system control service gate URN supports the syntax defined in clause 8.2 of ETSI TS 103 666-1 [1], with the values specified in Table 8.1 of ETSI TS 103 666-1 [1]
	10.3.2	Presentation layer
RQ1003_008	10.3.2	The file system control service gate and the file system control application gate implement an ASN.1 presentation layer using the definitions in clause 6.6.2. of ETSI TS 103 666-1 [1]
	10.3.3	File system control service gate
	10.3.3.1	Overview
RQ1003_009		An SSP file system application may access to the SSP file system service interfacing the SSP File System via a pipe session between a file system control application gate and a file system control service gate.
RQ1003_010	10.3.3.1	The file system control service gate is in charge of:
	10.3.3.2	Commands

RQ1003_011	
FS-ADMIN-GET-CAPABILITIES-Service-Command, FS-ADMIN-CREATE-NODE-Service-Command, FS-ADMIN-DELETE-NODE-Service-Command, FS-ADMIN-UPDATE-NODE-ATTRIBUTES-Service-Command, FS-OP-FILE-OPEN-Service-Command, FS-OP-FILE-OPEN-Service-Command, FS-OP-FILE-GET-DODE-GET-INFO-Service-Command, FS-OP-FILE-WRITE-Service-Command, FS-OP-FILE-WRITE-Service-Command, FS-OP-FILE-GET-POSITION-Service-Command FS-OP-FILE-GET-POSITION-Service-Command TS-OP-FILE-GET-POSITION-Service-Command TS-OP-FILE-GET-POSITION-Service-Command TS-OP-FILE-GET-POSITION-Service-Response, FS-ADMIN-DELETE-NODE-Service-Response, FS-ADMIN-DELETE-NODE-Service-Response, FS-ADMIN-DELETE-NODE-Service-Response, FS-OP-FILE-OPEN-Service-Response, FS-OP-FILE-OPEN-Service-Response, FS-OP-FILE-OPEN-Service-Response, FS-OP-FILE-GET-POSITION-Service-Response, FS-OP-FILE-GET-PO	
FS-ADMIN-DELETE-NODE-Service-Command, FS-ADMIN-DELETE-NODE-Service-Command, FS-ADMIN-DELETE-NODE-Service-Command, FS-ADMIN-DPATE-NODE-SErvice-Command, FS-OP-FILE-OLOSE-Service-Command, FS-OP-FILE-CLOSE-Service-Command, FS-OP-FILE-GET-NODE-GET-INFO-Service-Command, FS-OP-FILE-GET-READ-Service-Command, FS-OP-FILE-WRITE-Service-Command, FS-OP-FILE-WRITE-Service-Command, FS-OP-FILE-GET-POSITION-Service-Command FS-OP-FILE-GET-POSITION-Service-Command FS-OP-FILE-GET-POSITION-Service-Response, FS-ADMIN-GET-CAPABILITIES-Service-Response, FS-ADMIN-DELETE-NODE-Service-Response, FS-ADMIN-DELETE-NODE-Service-Response, FS-ADMIN-DELETE-NODE-Service-Response, FS-OP-FILE-OLOSE-Service-Response, FS-OP-FILE-OLOSE-Service-Response, FS-OP-FILE-VAITE-Service-Response, FS-OP-FILE-WRITE-Service-Response, FS-OP-FILE-WRITE-SERVICE-WRITE-WRITE-WRITE-SERVICE-WRITE-WRIT	
FS-ADMIN-UPDATE-NODE-Service-Command, FS-OP-FILE-COPEN-Service-Command, FS-OP-FILE-COPEN-Service-Command, FS-OP-FILE-COSE-Service-Command, FS-OP-FILE-READ-Service-Command, FS-OP-FILE-READ-Service-Command, FS-OP-FILE-RETHINFO-Service-Command, FS-OP-FILE-RETHINFO-Service-Command, FS-OP-FILE-GET-POSITION-Service-Command   10.3.3.3	
FS-ADMIN-UPDATE-NODE-ATTRIBUTES-Service-Command, FS-OP-FILE-CLOSE-Service-Command, FS-OP-FILE-CLOSE-Service-Command, FS-OP-FILE-READ-Service-Command, FS-OP-FILE-READ-Service-Command, FS-OP-FILE-WRITE-Service-Command, FS-OP-FILE-WRITE-Service-Command, FS-OP-FILE-WRITE-Service-Command, FS-OP-FILE-WRITE-Service-Command, FS-OP-FILE-WRITE-Service-Command, FS-OP-FILE-WRITE-Service-Command, FS-OP-FILE-WRITE-Service-Command, FS-OP-FILE-WRITE-Service-Command, FS-OP-FILE-WRITE-Service-Response, FS-ADMIN-GEATE-NODE-Service-Response, FS-ADMIN-DELETE-NODE-Service-Response, FS-OP-FILE-OPEN-Service-Response, FS-OP-FILE-OPEN-Service-Response, FS-OP-FILE-OPEN-Service-Response, FS-OP-FILE-WRITE-Service-Response, FS-OP-FILE-OPS-Service-Response, FS-OP-FILE-OPS-FILE-OPS-FILE-WRITE-SERVICE-RESPONSE FR-SPONSE, FS-OP-FILE-OPS-FILE-OPS-FILE-WRITE-SERVICE-RESPONSE FR-SPONSE, FS-OP-FILE-OPS-FILE-WRITE-SERVICE-RESPONSE, FS-OP-FILE-OPS-FILE-O	
FS-OP-FILE-CLOSE-Service-Command, FS-OP-FILE-CLOSE-Service-Command, FS-OP-FILE-CLOSE-Service-Command, FS-OP-FILE-RAD-Service-Command, FS-OP-FILE-WRITE-Service-Command, FS-OP-FILE-WRITE-Service-Command, FS-OP-FILE-WRITE-Service-Command, FS-OP-FILE-GET-POSITION-Service-Command   RS-OP-FILE-GET-POSITION-Service-Command	
FS-OP-NODE-GET-INFO-Service-Command, FS-OP-FILE-RAD-Service-Command, FS-OP-FILE-WRITE-Service-Command, FS-OP-FILE-WRITE-Service-Command, FS-OP-FILE-GET-POSITION-Service-Command   Responses	
FS-OP-FILE-READ-Service-Command, FS-OP-FILE-GET-POSITION-Service-Command, FS-OP-FILE-GET-POSITION-Service-Command, FS-OP-FILE-GET-POSITION-Service-Command, FS-OP-FILE-GET-POSITION-Service-Command, FS-OP-FILE-GET-POSITION-Service-Response, FS-ADMIN-GET-CAPABILITIES-Service-Response, FS-ADMIN-GET-CAPABILITIES-Service-Response, FS-ADMIN-DELETE-NODE-Service-Response, FS-ADMIN-UPDATE-NODE-Service-Response, FS-OP-FILE-CIOES-Service-Response, FS-OP-FILE-CIOES-Service-Response, FS-OP-FILE-CIOES-Service-Response, FS-OP-FILE-CIOES-Service-Response, FS-OP-FILE-CIOES-Service-Response, FS-OP-FILE-GET-POSITION-Service-Response, FS-OP-FILE-GET-POSITION-Service-Response, FS-OP-FILE-GET-POSITION-Service-Response, FS-OP-FILE-GET-POSITION-Service-Response, FS-OP-FILE-GET-POSITION-Service-Response, FS-OP-FILE-GET-Service-Response, FS-OP-FILE-GET-Service-Command command containing the aGateURI value is system again data service gate service and a file system data service shall implement the credit-based data flow condata acknowledgement as defined in clause 8.5.3 of ETSI TS 103 666-1 [1]	
FS-OP-FILE-WRITE-Service-Command   FS-OP-FILE-GET-POSITION-Service-Command   FS-OP-FILE-GET-POSITION-Service-Command   FS-OP-FILE-GET-POSITION-Service-Command   FS-OP-FILE-GET-POSITION-Service-Response   FS-ADMIN-GET-CAPABILITIES-Service-Response   FS-ADMIN-GET-CAPABILITIES-Service-Response   FS-ADMIN-DELETE-NODE-Service-Response   FS-ADMIN-DELETE-NODE-Service-Response   FS-OP-FILE-OPEN-Service-Response   FS-OP-FILE-CLOSE-Service-Response   FS-OP-FILE-CLOSE-Service-Response   FS-OP-FILE-GET-POSITION-Service-Response   FS-OP-FILE-GET-	
FS-OP-FILE-GET-POSITION-Service-Command	
RQ1003_012  10.3.3.3  Responses  The file system control service gate supports the following responses: FS-ADMIN-GET-CAPABILITIES-Service-Response, FS-ADMIN-DELETE-NODE-Service-Response, FS-ADMIN-DELETE-NODE-Service-Response, FS-ADMIN-UPDATE-NODE-ATTRIBUTES-Service-Response, FS-OP-FILE-OPEN-Service-Response, FS-OP-FILE-CLOSE-Service-Response, FS-OP-FILE-CLOSE-Service-Response, FS-OP-FILE-GET-INFO-Service-Response, FS-OP-FILE-FRAD-Service-Response, FS-OP-FILE-FREAD-Service-Response, FS-OP-FILE-FREAD-Service-Response, FS-OP-FILE-FREAD-Service-Response, FS-OP-FILE-GET-POSITION-Service-Response. All the possible response codes are described in clause 6.6.4.2 of ETSI TS 103  10.3.4.4  File system control application gate 10.3.4.1  The file system control application gate provides access to services for administ operation on the SSP file system using the SSP file system control service gate an SSP file system application and an SSP file system service.  RQ1003_014  10.3.4.1  All file sessions and file system data pipe sessions shall be closed upon closure session between the file system control application gate and the file system control application gate and the file system control application gate and the file system control service gate  10.3.4.2  Commands  10.3.4.3  Responses  10.3.5.1  Overview  RQ1003_015  The file system data service gate provides access to a file stream between an S system application and an SSP file system service.  RQ1003_016  10.3.5.1  The SSP file system data service gate provides access to a file stream between an S system application and an SSP file system service.  RQ1003_016  10.3.5.1  The SSP file system data service gate provides access to a file system data application gate when a request to open an SSP file oP-FILE-OPEN-Service-Command containing the aGateURI value is successful.  RQ1003_017  10.3.5.1  The file system data service gate shall implement the credit-based data flow condata acknowledgement as defined in clause 8.5.3 of ETSI TS 103 666-1 [1]	
RQ1003_012   10.3.3.3   The file system control service gate supports the following responses: FS-ADMIN-GET-CAPABILITIES-Service-Response, FS-ADMIN-GET-CAPABILITIES-Service-Response, FS-ADMIN-DELETE-NODE-Service-Response, FS-ADMIN-DELETE-NODE-Service-Response, FS-ADMIN-UPDATE-NODE-ATTRIBUTES-Service-Response, FS-OP-FILE-OPEN-Service-Response, FS-OP-FILE-OLOSE-Service-Response, FS-OP-FILE-OLOSE-Service-Response, FS-OP-FILE-WRITE-Service-Response, FS-OP-FILE-WRITE-Service-Response, FS-OP-FILE-GET-POSITION-Service-Response. All the possible response codes are described in clause 6.6.4.2 of ETSI TS 103	
FS-ADMIN-GET-CAPABILITIES-Service-Response, FS-ADMIN-CREATE-NODE-Service-Response, FS-ADMIN-DELETE-NODE-Service-Response, FS-ADMIN-DELETE-NODE-Service-Response, FS-OP-FILE-OPEN-Service-Response, FS-OP-FILE-CLOSE-Service-Response, FS-OP-FILE-CLOSE-Service-Response, FS-OP-FILE-CLOSE-Service-Response, FS-OP-FILE-READ-Service-Response, FS-OP-FILE-WRITE-Service-Response, FS-OP-FILE-GET-POSITION-Service-Response. All the possible response codes are described in clause 6.6.4.2 of ETSI TS 103  10.3.4.1 Events 10.3.4.1 Overview  RQ1003_013 10.3.4.1 The file system control application gate provides access to services for administ operation on the SSP file system using the SSP file system control service gate an SSP file system application and an SSP file system service.  RQ1003_014 10.3.4.1 All file sessions and file system data pipe sessions shall be closed upon closure session between the file system control application gate and shall be closed upon closure session between the file system control application gate and the file system control application gate and shall be closed upon closure session between the file system control application gate and the file system control application gate and shall be closed upon closure session between the file system data service gate provides access to a file stream between an System application and an SSP file system service.  RQ1003_015 10.3.5.1 The file system data service gate provides access to a file stream between an System application and an SSP file system service.  RQ1003_016 10.3.5.1 The file system data service gate shall implement the credit-based data flow condata acknowledgement as defined in clause 8.5.3 of ETSI TS 103 666-1 [1]	
FS-ADMIN-DELETE-NODE-Service-Response, FS-ADMIN-DELETE-NODE-Service-Response, FS-ADMIN-UPDATE-NODE-ATTRIBUTES-Service-Response, FS-OP-FILE-OPEN-Service-Response, FS-OP-FILE-CLOSE-Service-Response, FS-OP-FILE-CLOSE-Service-Response, FS-OP-FILE-READ-Service-Response, FS-OP-FILE-READ-Service-Response, FS-OP-FILE-READ-Service-Response, FS-OP-FILE-WRITE-Service-Response, FS-OP-FILE-OPEN-Service-Response, FS-OP-FILE-OPEN-Service-Response, FS-OP-FILE-DETS Service-Response, FS-OP-FILE-OPEN-Service-Response, FS-OP-FILE-OPEN-Service-Command command containing the aGateURI value is successful. FRQ1003_017 10.3.5.1 The file system data service gate shall implement the credit-based data flow condata acknowledgement as defined in clause 8.5.3 of ETSI TS 103 666-1 [1]	
FS-ADMIN-DELETE-NODE-Service-Response, FS-ADMIN-UPDATE-NODE-ATTRIBUTES-Service-Response, FS-OP-FILE-OPEN-Service-Response, FS-OP-FILE-CLOSE-Service-Response, FS-OP-NODE-GET-INFO-Service-Response, FS-OP-NODE-GET-INFO-Service-Response, FS-OP-FILE-READ-Service-Response, FS-OP-FILE-WRITE-Service-Response, FS-OP-FILE-WRITE-Service-Response, FS-OP-FILE-GET-POSITION-Service-Response. All the possible response codes are described in clause 6.6.4.2 of ETSI TS 103  10.3.4 File system control application gate  10.3.4.1 Overview  RQ1003_013 10.3.4.1 The file system control application gate provides access to services for administ operation on the SSP file system using the SSP file system control service gate an SSP file system application and an SSP file system service.  RQ1003_014 10.3.4.1 All file sessions and file system data pipe sessions shall be closed upon closure session between the file system control application gate and the file system control gate.  10.3.4.2 Commands 10.3.4.3 Responses 10.3.4.4 Events 10.3.5.1 File system data service gate 10.3.5.1 Overview  RQ1003_015 10.3.5.1 The file system data service gate provides access to a file stream between an S system application and an SSP file system service.  RQ1003_016 10.3.5.1 The SSP file system data service shall open a pipe session between a file system data and a file system service.  RQ1003_017 10.3.5.1 The file system data service shall open a pipe session between a file system data and a file system service.  RQ1003_017 10.3.5.1 The file system data service gate shall implement the credit-based data flow condata acknowledgement as defined in clause 8.5.3 of ETSI TS 103 666-1 [1]	
FS-ADMIN-UPDATE-NODE-ATTRIBUTÉS-Service-Response, FS-OP-FILE-OPEN-Service-Response, FS-OP-FILE-CLOSE-Service-Response, FS-OP-FILE-CLOSE-Service-Response, FS-OP-NODE-GET-INFO-Service-Response, FS-OP-FILE-READ-Service-Response, FS-OP-FILE-GET-POSITION-Service-Response. All the possible response codes are described in clause 6.6.4.2 of ETSI TS 103  10.3.4 Events 10.3.4 File system control application gate 10.3.4.1 Overview  RQ1003_013 10.3.4.1 The file system control application gate provides access to services for administroperation on the SSP file system using the SSP file system control service gate an SSP file system application and an SSP file system service.  RQ1003_014 10.3.4.1 All file sessions and file system data pipe sessions shall be closed upon closure session between the file system control application gate and the file system control gate.  10.3.4.2 Commands 10.3.4.3 Responses 10.3.4.4 Events 10.3.5 File system data service gate 10.3.5.1 Overview  RQ1003_015 10.3.5.1 The file system data service gate provides access to a file stream between an S system application and an SSP file system service.  RQ1003_016 10.3.5.1 The SSP file system data service gate provides access to a file stream between an S system application and an SSP file system service.  RQ1003_016 10.3.5.1 The SSP file system data application gate when a request to open an SSP file OP-FILE-OPEN-Service-Command command containing the aGateURI value is successful.  RQ1003_017 10.3.5.1 The file system data service gate shall implement the credit-based data flow condata acknowledgement as defined in clause 8.5.3 of ETSI TS 103 666-1 [1]	
FS-OP-FILE-OPEN-Service-Response, FS-OP-NODE-GET-INFO-Service-Response, FS-OP-NODE-GET-INFO-Service-Response, FS-OP-FILE-RAD-Service-Response, FS-OP-FILE-WRITE-Service-Response, FS-OP-FILE-WRITE-Service-Response, FS-OP-FILE-WRITE-Service-Response, FS-OP-FILE-WRITE-Service-Response, FS-OP-FILE-WRITE-Service-Response, FS-OP-FILE-WRITE-Service-Response, All the possible response codes are described in clause 6.6.4.2 of ETSI TS 103  10.3.4 Events 10.3.4 File system control application gate 10.3.4.1 Overview  RQ1003_013 10.3.4.1 The file system control application gate provides access to services for administ operation on the SSP file system using the SSP file system control service gate an SSP file system application and an SSP file system service.  RQ1003_014 10.3.4.1 All file sessions and file system data pipe sessions shall be closed upon closure session between the file system control application gate and a file system data service gate provides access to a file stream between an S system application and an SSP file system service.  RQ1003_015 10.3.5.1 The file system data service gate provides access to a file stream between an S system and a file system data application gate when a request to open an SSP file OP-FILE-OPEN-Service-Command command containing the aGateURI value is successful.  RQ1003_017 10.3.5.1 The file system data service gate shall implement the credit-based data flow condition data acknowledgement as defined in clause 8.5.3 of ETSI TS 103 666-1 [1]	
FS-OP-FILE-CLOSE-Service-Response, FS-OP-NODE-GET-INFO-Service-Response, FS-OP-FILE-WRITE-Service-Response, FS-OP-FILE-OPEN-Service-Response, FS-OP-FILE-OPEN-Service gate provides access to service for administ operation on the SP file system using the SSP file system control service gate an SSP file system application and an SSP file system service.  RQ1003_014 10.3.4.1 All file sessions and file system data pipe sessions shall be closed upon closure session between the file system control application gate and an SSP file system service.  RQ1003_015 10.3.5.1 Overview  RQ1003_016 10.3.5.1 The file system data service gate provides access to a file stream between an S system application and an SSP file system service.  RQ1003_016 10.3.5.1 The file system data service gate provides access to a file stream between an S system and a file system data application gate when a request to open an SSP file OP-FILE-OPEN-Service-Command command containing the aGateURI value is successful.  RQ1003_017 10.3.5.1 The file system data service gate shall implement the credit-based data flow condata acknowledgement as defined in clause 8.5.3 of ETSI TS 103 666-1 [1]	
FS-OP-NODE-GET-INFO-Service-Response, FS-OP-FILE-READ-Service-Response, FS-OP-FILE-GET-POSITION-Service-Response. All the possible response codes are described in clause 6.6.4.2 of ETSI TS 103  10.3.3.4 Events 10.3.4 File system control application gate 10.3.4.1 Overview  RQ1003_013 10.3.4.1 The file system control application gate provides access to services for administ operation on the SSP file system using the SSP file system control service gate an SSP file system application and an SSP file system service.  RQ1003_014 10.3.4.1 All file sessions and file system data pipe sessions shall be closed upon closure session between the file system control application gate and the file system control gate.  10.3.4.2 Commands 10.3.4.3 Responses 10.3.4.4 Events 10.3.5 File system data service gate 10.3.5.1 Overview  RQ1003_015 10.3.5.1 The file system data service gate provides access to a file stream between an S system application and an SSP file system service.  RQ1003_016 10.3.5.1 The SSP file system service shall open a pipe session between a file system data gate and a file system data application gate when a request to open an SSP file OP-FILE-OPEN-Service-Command command containing the aGateURI value is successful.  RQ1003_017 10.3.5.1 The file system data service gate shall implement the credit-based data flow con data acknowledgement as defined in clause 8.5.3 of ETSI TS 103 666-1 [1]	
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10.3.4.3   Responses	
10.3.4.4 Events 10.3.5 File system data service gate 10.3.5.1 Overview  RQ1003_015 10.3.5.1 The file system data service gate provides access to a file stream between an S system application and an SSP file system service.  RQ1003_016 10.3.5.1 The SSP file system service shall open a pipe session between a file system data gate and a file system data application gate when a request to open an SSP file OP-FILE-OPEN-Service-Command command containing the aGateURI value is successful.  RQ1003_017 10.3.5.1 The file system data service gate shall implement the credit-based data flow condata acknowledgement as defined in clause 8.5.3 of ETSI TS 103 666-1 [1]	
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RQ1003_015   10.3.5.1   The file system data service gate provides access to a file stream between an S system application and an SSP file system service.  RQ1003_016   10.3.5.1   The SSP file system service shall open a pipe session between a file system data gate and a file system data application gate when a request to open an SSP file OP-FILE-OPEN-Service-Command command containing the aGateURI value is successful.  RQ1003_017   10.3.5.1   The file system data service gate shall implement the credit-based data flow condata acknowledgement as defined in clause 8.5.3 of ETSI TS 103 666-1 [1]	
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data acknowledgement as defined in clause 8.5.3 of ETSI TS 103 666-1 [1]	u control and
ingroup_uro   inc.s.s.r   ine pipes between the hie system data service date and the hie system data abi	
gate allow conveying a data stream. The SCL packets shall have the CB bit (cha	
always set to 0.	(Graining Dit)
10.3.5.2 Commands	
10.3.5.3 Responses	
10.3.5.4 Events	
10.3.6 File system data application gate	
10.3.6.1 Overview	
RQ1003_019 10.3.6.1 The file system data application gate provides access to transfer a file stream us	m using the
SSP file system data service gate between an SSP file system application and a	
system service.	
RQ1003_020 10.3.6.1 The file system data application gate shall implement the credit-based data flow	flow control
and data acknowledgement as defined in clause 8.5.3. of ETSI TS 103 666-1 [1]	

## 5.6.4 Transmission Control Protocol support

10.4 10.4.1	Transmission Control Protocol support
10.4.1	•
	Overview
10.4.1	The TCP data service gate implements the protocol stack to communicate over the
	SCL network to a TCP data application gate for bridging the TCP adapter and TCP
10.11	consumer.
	The TCP adapter is in charge of the creation of the TCP connection;
	The TCP adapter is in charge of the resolution of DNS address, when this is required;
	The TCP adapter is in charge of the triggering of a pipe session as defined in clause 8 for connecting the TCP adapter and the TCP consumer in the SSP.
	The TCP adapter shall contain only one TCP control service gate.
10.4.1	If an SSP host supports the TCP protocol, it shall contain only one TCP consumer, which includes a single TCP control application gate.
10.4.1	An SCL host may contain one or more TCP data service gates.
10.4.1	Each TCP data application gate shall be exclusive for a single SSP Application.
10.4.1	The TCP control service gate URN shall support the syntax as defined in ETSI TS 103 666-1 [1], clause 8.2 with the values specified in ETSI TS 103 666-1 [1], Table 8.1.
10.4.2	Management of TCP connections
10.4.2.1	TCP connection request
10.4.2.1.1	TCP active connection request (client mode)
10.4.2.1.1	Upon request of the TCP consumer to establish an active connection, the TCP adapter shall process a connection establishment to the remote endpoint indicated in the request.
10.4.2.1.1	If an FQDN is provided in the request, the TCP adapter shall perform a DNS resolution if supported.
10.4.2.1.1	If the DNS resolution is not supported by the TCP adapter, or the establishment of the
	connection failed, the TCP adapter shall indicate to the TCP consumer that the connection request failed with the appropriate error indicator.
10.4.2.1.1	After the TCP connection is successfully established, the TCP adapter shall open a TCP data pipe to the TCP data application gate identifier indicated by the TCP
	consumer. This shall be interpreted by the TCP consumer that the TCP connection was successfully established.
	TCP passive connection request (server mode)
	Upon request of the TCP consumer to establish a connection as passive, the TCP adapter shall bind and listen to the port provided in the request
	In case of failure, the TCP adapter shall indicate to the TCP consumer that the connection failed with the appropriate error indicator.
10.4.2.1.2	The TCP adapter shall support multiple passive requests by the TCP consumer with different TCP data application gate identifiers to the same TCP port in order to allow multiple incoming TCP connections on the same port.
10.4.2.1.2	When a connection is successfully established to the listening TCP port, the TCP adapter shall request the TCP consumer to accept the incoming connection before completing the TCP handshake.
10.4.2.1.2	If the TCP consumer accepts the incoming connection, the TCP adapter shall open a TCP data pipe to the TCP data application gate identifier indicated by the TCP consumer in the request.
10.4.2.1.2	If the TCP consumer rejects the incoming connection, the TCP adapter shall close the incoming TCP connection.
10.4.2.1.2	The TCP adapter shall accept additional incoming TCP connections to the same port until all TCP data application gate identifiers corresponding to this port are used.
10.4.2.2	TCP connection established
10.4.2.2	All data received by the TCP adapter in its TCP endpoint shall be transferred via the related TCP data pipe to the TCP consumer.
10.4.2.2	All data sent by the TCP consumer on the TCP data pipe shall be sent to its corresponding TCP endpoint.
10.4.2.3	TCP end of connection
10.4.2.3	If a TCP session is closed by the remote TCP endpoint, the TCP adapter shall close the related TCP data pipe session: in this case, the connection identifier is immediately released and the TCP consumer does not need to send the request to close the TCP connection.
	10.4.1 10.4.2 10.4.2.1 10.4.2.1.1 10.4.2.1.1 10.4.2.1.1 10.4.2.1.1 10.4.2.1.1 10.4.2.1.2 10.4.2.1.2 10.4.2.1.2 10.4.2.1.2 10.4.2.1.2 10.4.2.1.2 10.4.2.1.2 10.4.2.1.2

RQ number	Clause	Description
RQ1004_024	10.4.2.3	If the TCP data application gate ends the TCP data pipe session, the TCP adapter
		shall terminate the connection to the remote TCP endpoint.
RQ1004_025	10.4.2.3	If the TCP control pipe session is closed, all TCP connections and TCP data pipe
	10.10	sessions shall be closed. All passive connection requests are terminated.
DO 400 4 000	10.4.3	Presentation layer
RQ1004_026	10.4.3	The TCP control and application gates shall implement an ASN.1 presentation layer using the definitions, described in ETSI TS 103 666-1 [1], clause 10.4.3.
	10.4.4	TCP control service gate
	10.4.4.1	Overview
	10.4.4.2	Commands
	10.4.4.2.1	List of commands
RQ1004_027	10.4.4.2.1	"TCP control service gate" shall support the commands described in ETSI TS 103 666-1 [1], clause 10.4.4.2.1
	10.4.4.2.2	TCP-REQUEST-CONNECTION-Service-Command
RQ1004_028	10.4.4.2.2	If the FQDN value is used to establish the TCP connection between a TCP consumer and TCP adapter with the command TCP-REQUEST-CONNECTION-Service-Command, the TCP adapter is responsible to perform the DNS resolution, if the feature is supported.
RQ1004_029	10.4.4.2.2	In case of eActive connection mode, the TCP adapter shall initiate a TCP connection, as described in IETF RFC 793 [26], section 3.4.
RQ1004_030	10.4.4.2.2	In case of ePassiveLocal or ePassiveAny connection mode, the TCP adapter shall open a listening port to accept incoming TCP connections.
RQ1004_031	10.4.4.2.2	"TCP-REQUEST-CONNECTION-Service-Command" command shall use the parameters described in ETSI TS 103 666-1 [1], clause 10.4.4.2.2.
RQ1004_032	10.4.4.2.2	Parameter "aDestinationAddress" shall be ignored by TCP adapter for connections in passive mode i.e. aConnectionMode with value ePassiveLocal or ePassiveAny.
RQ1004_033	10.4.4.2.2	Parameter "aDestinationAddress" is mandatory for connection in active mode i.e. aConnectionMode with value eActive.
RQ1004_034	10.4.4.2.2	For connections in passive mode, i.e. aConnectionMode with value ePassiveLocal or ePassiveAny, "aPortNumber" defines the port number that the TCP adapter shall listen on.
RQ1004_035	10.4.4.2.2	"aGateID" is the UUID of the TCP data gate that will be associated to the opened TCP connection.
RQ1004_036	10.4.4.2.2	"aTimeout" is duration of time before the terminal stops the attempt to connect to a remote sever.
RQ1004_037	10.4.4.2.2	"aNetworkParameters" indicates the network parameters using which the TCP connection shall be established.
RQ1004_038	10.4.4.2.2	"aBearerType" indicates the bearer type on which the TCP connection shall be established.
RQ1004_039	10.4.4.2.2	"aNetworkAccessName" provides information to the terminal necessary to identify the gateway entity which provides interworking with an external packet data network. If the parameter is not present, the terminal may use the default network access name in the terminal configuration or the default subscription value. It is defined in clause 8.70 of ETSI TS 102 223 [9].
RQ1004_040	10.4.4.2.2	If the terminal equipment supports a remote access login feature, "aUserLogin and aUserPassword" gives necessary information for authentication as described in ETSI TS 102 223 [9], clauses 6.6.27.2 and 6.6.27.4. The format and content of the data (data coding scheme and text string) is described in clause 8.15 of ETSI TS 102 223 [9].
RQ1004_041	10.4.4.2.2	For all the connection modes, the TCP adapter shall send the response, as described in ETSI TS 103 666-1 [1], clause 10.4.4.2.2, immediately after starting the procedure to establish the TCP connection.
RQ1004_042	10.4.4.2.2	When the connection request is successful then TCP adapter shall include eTCP-OK in the response.
RQ1004_043	10.4.4.2.2 10.4.4.2.3	"aConnectionID" identifier shall be unique across all open TCP sessions.  TCP-CLOSE-CONNECTION-Service-Command
RQ1004_044	10.4.4.2.3	"TCP-CLOSE-CONNECTION-Service-Command" command shall use the parameters as described in ETSI TS 103 666-1 [1], clause 10.4.4.2.3
RQ1004_045	10.4.4.2.3	When successful, on command "TCP-CLOSE-CONNECTION-Service-Command", the TCP adapter shall include eTCP-OK in the response, as described in ETSI TS 103 666-1 [1], clause 10.4.4.2.3
	10.4.4.2.4	TCP-GET-STATUS-CONNECTION-Service-Command
RQ1004_046	10.4.4.2.4	"TCP-GET-STATUS-CONNECTION-Service-Command" command shall use the parameters as described in ETSI 103 666-1 1, clause 10.4.4.2.3

RQ number	Clause	Description
RQ1004_047	10.4.4.2.4	When command "TCP-GET-STATUS-CONNECTION-Service-Command" is
		successful the TCP adapter shall include eTCP-OK in the response, as described in
		ETSI TS 103 666-1 [1], clause 10.4.4.2.4
	10.4.4.3	Responses
RQ1004_048	10.4.4.3	The "TCP Control Service" gate shall support the responses defined in ETSI
DO4004 040	40.4.4.0	TS 103 666-1 [1], clause 10.4.4.3
RQ1004_049	10.4.4.3	The "TCP Control Service" gate shall support the error codes defined in ETSI
	10.4.5.1	TS 103 666-1 [1], Table 10.9  Overview
	10.4.5.1	Commands
	10.4.5.2.1	List of Commands
RQ1004_050	10.4.5.2.1	"TCP CONTROL APPLICATION GATE" supports the commands, as described in ETSI
		TS 103 666-1 [1], clause 10.4.5.2.1
	10.4.5.2.2	TCP-ACCEPT-CONNECTION-Application-Command
RQ1004_051	10.4.5.2.2	"TCP-ACCEPT-CONNECTION-Application-Command" has the parameters, as
		described in ETSI TS 103 666-1 [1], clause 10.4.5.2.2
RQ1004_052	10.4.5.2.2	The TCP consumer shall include eTCP-OK in the "TCP-ACCEPT-CONNECTION-
		Application-Response" if the TCP client connection is accepted.
RQ1004_053	10.4.5.2.2	If the TCP client connection is not accepted, the TCP consumer shall include
		eTCP-E-NOK in the "TCP-ACCEPT-CONNECTION-Application-Response" if the connection is rejected due to internal reasons. The TCP adapter shall terminate the
		incoming TCP connection and move back to eLISTEN state. As described in ETSI
		TS 103 666-1 [1], clause 10.4.5.2.2
	10.4.5.3	Responses
RQ1004_054	10.4.5.3	"TCP control application gate" shall support the response, as described in ETSI
		TS 103 666-1 [1], clause 10.4.5.3
RQ1004_055	10.4.5.3	"TCP control application gate" shall support the error codes defined in ETSI
	10.15.1	TS 103 666-1 [1], Table 10.10
	10.4.5.4	Events
RQ1004_056	10.4.5.4.1 10.4.5.4.1	List of Events  TCP consumer supports events, as described in ETSI TS 103 666-1 [1],
KQ1004_050	10.4.5.4.1	clause 10.4.5.4.1
	10.4.5.4.2	EVT-TCP-ERROR-Application-Event
RQ1004_057	10.4.5.4.2	With the event EVT-TCP-ERROR-Application-Event, the TCP adapter notifies the TCP
_		consumer that an error occurred, as described in ETSI TS 103 666-1 [1],
		clause 10.4.5.4.2
RQ1004_058	10.4.5.4.2	"eUNREACHABLE" parameter means that the destination IP address is unreachable
		as described in ICMP messages defined in IETF RFC 792 [27], In this case, the
		aErrorInfo parameter shall be completed with the code value defined in clause
RQ1004_059	10.4.5.4.2	"Destination Unreachable Message" of IETF RFC 792 [27].  "eREDIRECTION" parameter means that a redirection occurs in the route to convey
11.004_003	10.4.5.4.2	the message as described in clause "Redirect Message" of IETF RFC 792 [27], In this
		case, the aErrorInfo parameter shall be completed with the code value defined in
		clause "Redirect Message" of IETF RFC 792 [27].
RQ1004_060	10.4.5.4.2	"eIP-HEADER-WRONG" parameter means that the message format is wrong as
		described in clause "Parameter Problem Message" of IETF RFC 792 [27], In this case,
		the aErrorInfo parameter shall be completed with the code value defined in clause
RQ1004_061	10.4.5.4.2	"Parameter Problem Message" of IETF RFC 792 [27].  "eTERMINAL-BUSY" parameter means that terminal is currently unable to process the
KQ1004_001	10.4.5.4.2	command as described in clause 8.12.2 of ETSI TS 102 223 [9], In this case, the
		aErrorInfo parameter shall be completed with the value defined in clause 8.12.2 of
		ETSI TS 102 223 [9].
RQ1004_062	10.4.5.4.2	"eNETWORK-BUSY" parameter means that the network is currently unable to process
		the command as described in clause 8.12.3 of ETSI TS 102 223 [9], In this case, the
		aErrorInfo parameter shall be completed with the value defined in clause 8.12.3 of
DO1004 000	10.45.40	ETSLTS 102 223 [9].
RQ1004_063	10.4.5.4.2	"eCALL-CONTROL-INTERACTION-ERROR" parameter means that the connection required to establish the TCP communication was blocked by the terminal due to the
		call control by NAA, as described in clause 7.3 of ETSI TS 102 223 [9], In this case, the
		aErrorInfo parameter shall be completed with the value defined in clause 8.12.8 of
		ETSI TS 102 223 [9].
RQ1004_064	10.4.5.4.2	"eDNS-RESOLUTION-ERROR" parameter means that the destination FQDN could not
		be resolved by the DNS server, In this case, the aErrorInfo parameter shall be
		completed with the code value defined in IETF RFC 6895 [28], clause 2.3.

RQ number	Clause	Description
RQ1004_065	10.4.5.4.2	"eLINK-DROPPED" parameter means that the Bearer Link of the TCP connection has dropped (due to network failure or user cancellation) as described in clause 7.5.11 of ETSI TS 102 223 [9].
	10.4.6.1	Overview
RQ1004_066	10.4.6.1	The pipe session is opened when a requested TCP connection is successfully established.
RQ1004_067	10.4.6.1	The TCP session shall be closed as soon as the pipe session is closed.
RQ1004_068	10.4.6.1	The TCP data service gate shall implement the credit-based data flow control mechanism and data acknowledgement defined in ETSI TS 103 666-1 [1], clause 8.5.3.
RQ1004_069	10.4.6.1	The SCL packets shall have the CB bit (Chaining bit) always set to 0.
	10.4.6.2	Commands
	10.4.6.3	Responses
	10.4.6.4	Events
	10.4.7	TCP data application gate
	10.4.7.1	Overview
RQ1004_070	10.4.7.1	The TCP data application gate shall implement the credit-based data flow control mechanism and data acknowledgement defined in ETSI TS 103 666-1 [1], clause 8.5.3.
	10.4.7.2	Commands
	10.4.7.3	Responses
	10.4.7.4	Events
	10.4.8	Application protocols
	10.4.8.1	HTTP(S) protocol
RQ1004_071	10.4.8.1	The SSP may support HTTP as defined in IETF RFC 7230 [i.5] or HTTPS as defined in IETF RFC 2818 [i.6] using the mechanism described in clause 10.4 of ETSI TS 103 666-1 [1].
	10.4.8.2	TLS protocol
RQ1004_072	10.4.8.2	The SSP may support the TLS protocol using the mechanism described in clause 10.4 of ETSI TS 103 666-1 [1]. If supported, TLS shall be compliant with IETF RFC 8446 [29].

## 5.6.5 User Datagram Protocol support

RQ number	Clause	Description
	10.5	User Datagram Protocol support
	10.5.1	Overview
RQ1005_001	10.5.1	The UDP adapter is in charge of creating the UDP sockets;
RQ1005_002	10.5.1	The UDP adapter is in charge of the resolution of DNS address, when this is required;
RQ1005_003	10.5.1	The UDP adapter is in charge of transferring incoming UDP packets to the appropriate UDP
		application gate;
	10.5.1	The UDP adapter is in charge of sending outgoing UDP packets.
RQ1005_005	10.5.1	The UDP adapter shall contain only one UDP service gate.
RQ1005_006	10.5.1	If an SSP host supports the UDP protocol, it shall contain only one UDP consumer, which
		includes a single UDP application gate.
RQ1005_007	10.5.1	The UDP service gate URN supports the syntax as defined in ETSI TS 103 666-1 [1],
		clause 8.2 with the values specified in ETSI TS 103 666-1 [1], Table 8.1.
RQ1005_008	10.5.1	If the pipe session between the UDP service gate and the UDP application gate is closed, all
		UDP sockets shall be terminated.
	10.5.2	Presentation layer
RQ1005_009	10.5.2	The UDP service and application gates implements an ASN.1 presentation layer using the definitions of the TCP service and application gates, as described in ETSI TS 103 666-1 [1],
		clause 10.4.3, with the additional definitions, described in ETSI TS 103 666-1 [1],
		clause 10.5.2
	10.5.3	UDP service gate
	10.5.3.1	Overview
	10.5.3.2	Commands
	10.5.3.2.1	List of Commands
RQ1005_010	10.5.3.2.1	"UDP service gate" shall support the commands, described in ETSI TS 103 666-1 [1],
		clause 10.5.3.2.1

RQ number	Clause	Description
		UDP-REQUEST-SOCKET-Command
RQ1005_011		If the port number within the command UDP-REQUEST-SOCKET-Command is not defined, the UDP adapter assigns an available port.
RQ1005_012	10.5.3.2.2	"UDP-REQUEST-SOCKET-Command" command has parameters, as defined in ETSI TS 103 666-1 [1], clause 10.5.3.2.2
RQ1005_013	10.5.3.2.2	"aPortNumber" defines the UDP port number on the terminal, If the parameter is missing, the port will be automatically allocated by the UDP adapter;
RQ1005_014	10.5.3.2.2	"aNetworkParameters" contains the parameters for the network connection required for the
1000_014	10.0.0.2.2	UDP socket to be created, The coding is the same as the NetworkParameters defined in ETSI TS 103 666-1 [1], clause 10.4.4.2.2
RQ1005_015	10.5.3.2.2	if "aLocalOnly" has value TRUE, then the UDP socket can only accept UDP datagrams from entities in the terminal. If "aLocalOnly" has value FALSE or it is not present, then the UDP
		socket can accept UDP datagrams from any remote entity.
RQ1005_016	10.5.3.2.2	When the requested socket is created successfully, then UDP service gate shall respond with eUDP-OK with the parameters, as described in ETSI TS 103 666-1 [1], clause 10.5.3.2.2
RQ1005_017	10.5.3.2.2	"aSocketID" identifier shall be unique across all UDP sockets.
	10.5.3.2.3	UDP-CLOSE-SOCKET-Command
RQ1005_018	10.5.3.2.3	"UDP-CLOSE-SOCKET-Command" command has parameters, as defined in ETSI TS 103 666-1 [1], clause 10.5.3.2.3
RQ1005_019	10.5.3.2.3	When successful the UDP application gate shall respond with eUDP-OK with parameters, as defined in ETSI TS 103 666-1 [1], clause 10.5.3.2.3
	10.5.3.3	Responses
RQ1005_020	10.5.3.3	"UDP Service Gate" shall support the responses, as defined in ETSI TS 103 666-1 [1], clause 10.5.3.3
RQ1005_021	10.5.3.3	"UDP Service Gate" shall support the error codes, as defined in ETSI TS 103 666-1 [1], Table 10.11
	10.5.3.4	Events
	10.5.3.4.1	List of events
RQ1005_022	10.5.3.4.1	The UDP service gate supports the events, as described in ETSI TS 103 666-1 [1], clause 10.5.3.4.1
	10.5.3.4.2	EVT-UDP-DATAGRAM-OUT-Service-Event
RQ1005_023	10.5.3.4.2	The UDP consumer may request to send the UDP datagram by passing the IP address or the FQDN value of the server, using the coding, as described in ETSI TS 103 666-1 [1], clause 10.5.3.4.2
RQ1005_024	10.5.3.4.2	If the FQDN value is used for the UDP datagram within the event EVT-UDP-DATAGRAM- OUT-Service-Event, the UDP adapter is responsible to perform the DNS resolution, if the feature is supported.
	10.5.4	UDP application gate
	10.5.4.1	Overview
	10.5.4.2	Commands
	10.5.4.3	Responses
	10.5.4.4	Events
	10.5.4.4.1	List of events
RQ1005_025	10.5.4.4.1	The UDP application gate supports the events, as described in ETSI TS 103 666-1 [1], clause 10.5.4.4.1
	10.5.4.4.2	EVT-UDP-DATAGRAM-IN-Application-Event
RQ1005_026	10.5.4.4.2	With the event EVT-UDP-DATAGRAM-IN-Application-Event, the UDP adapter via the UDP service gate conveys to the UDP consumer via the UDP application gate a datagram received
		on an open UDP socket, using coding as defined in ETSI TS 103 666-1 [1], clause 10.5.4.4.2
DO4005 005	10.5.4.4.3	EVT-UDP-ERROR-Application-Event
RQ1005_027	10.5.4.4.3	With the event EVT-UDP-ERROR-Application-Event, the UDP adapter via the UDP service gate notifies the UDP consumer via the UDP application gate that an error occurred, using service defined in ETSLTS 102.666.1 [1] always 10.5.4.4.2
	10 F F	coding as defined in ETSI TS 103 666-1 [1], clause 10.5.4.4.3
	10.5.5	Application protocols
RQ1005_00X	10.5.5.1 10.5.5.1	CoAP over UDP Protocol The SSP may support CoAP over UDP as defined in IETF RFC 7252 [i.7] using the
V007_00X	10.3.5.1	mechanism described in the clauses above.

## 5.6.6 CRON service support

RQ number	Clause	Description
	10.6.1	Overview
RQ1006_00	10.6.1	If the CRON service is supported by an SCL host outside the SSP host domain, then it shall
1		contain only one CRON service gate.
RQ1006_00	10.6.1	An SCL host residing in the SSP host domain may contain one CRON application gate and
2		shall not have any CRON service gate.
RQ1006_00	10.6.1	The CRON service gate URN supports the syntax as defined in clause 8.2 of ETSI
3		TS 103 666-1 [1] with the values specified in Table 8.1.
	10.6.2	Presentation layer
RQ1006_00	10.6.2	The CRON service gate and the CRON application gates implements an ASN.1 presentation
4		layer using definitions in clause 10.6.2 of ETSI TS 103 666-1 [1]
	10.6.3	CRON service gate
	10.6.3.1	Overview
RQ1006_00	10.6.3.1	The time information used by the CRON service may not be reliable or accurate. SSP
5		applications shall not rely on the time and date provided by the CRON service if they need an
		accurate source of time.
	10.6.3.2	Commands
	10.6.3.2.1	List of commands
	10.6.3.2.2	CRON-REQUEST-TIMER-Command
RQ1006_00	10.6.3.2.2	With the command CRON-REQUEST-TIMER-Command, an SSP Application within the SSP
6		host requests the CRON service to create a timer, in order to be notified when it expires.
RQ1006_00	10.6.3.2.2	CRON-REQUEST-TIMER-Command shall contain either aDateTimeAbsolute or
7		aTimeRelative as time for the initial notification
RQ1006_00	10.6.3.2.2	CRON-REQUEST-TIMER-Command may contain aPeriod as the interval for periodic
8		notification
RQ1006_00	10.6.3.2.2	If the SSP Application requests the timer at an absolute time and the CRON Service does not
9		support it, then the CRON service shall reject the CRON-REQUEST-TIMER-Command,
		responding back eCRON-E-NO-ABSOLUTE-TIME.
RQ1006_01	10.6.3.2.2	If the SSP Application requests the timer at an absolute time in the past, then the CRON
0		service shall reject the CRONREQUEST-TIMER-Command, responding back eCRON-E-
		NOK.
RQ1006_01	10.6.3.2.2	When the CRON request is successful then CRON service gate shall respond with eCRON-
1		OK and shall contain the parameter CRON-ID
RQ1006_01	10.6.3.2.2	When the CRON request is successful then CRON service gate shall respond with eCRON-
2		OK and may contain the parameter aPersistantOverPowerCycle
	10.6.3.2.3	CRON-READ-DATE-TIME-Command
RQ1006_01	10.6.3.2.3	With the command CRON-READ-DATE-TIME-Command a CRON application gate may
3		request to retrieve the UTCTime of the request
RQ1006_01	10.6.3.2.3	When successful the CRON Service shall respond with eCRON-OK with CRON-READ-DATE-
4		TIME-Response which shall contain CRON-READ-DATE-TIME-Response-Parameter
RQ1006_01	10.6.3.2.3	CRON-READ-DATE-TIME-Response-Parameter shall contain aDateTime GeneralizedTime
5		
	10.6.3.2.4	CRON-KILL-TIMER-Command
RQ1006_01	10.6.3.2.4	With the command CRON-KILL-TIMER-Command a CRON application gate may requests to
6		kill a timer previously registered in the CRON service.
RQ1006_01	10.6.3.2.4	CRON-KILL-TIMER-Command shall contain aCRON-ID: identifier of the timer to kill.
7	40.000.0	When the ODON WILL TIMED Occurred to the COOK AND
RQ1006_01	10.6.3.2.4	When the CRON-KILL-TIMER-Command is successful the CRON application gate shall
8	40.000.5	respond with eCRON-OK
DO4000 04	10.6.2.3.5	CRON-KILL-ALL-TIMERS-Command
RQ1006_01	10.6.3.2.5	With the command CRON-KILL-ALL-TIMERS-Command a CRON application gate may
BO1000 00	10 6 2 2 5	request to kill all timers registered by a SSP host.  When the CRON-KILL-ALL-TIMERS-Command is successful the CRON application gate shall
RQ1006_02	10.6.3.2.5	
0	10 6 2 2	respond with eCRON-OK with no parameters.
PO1006 02	10.6.3.3	Responses The error codes in the responses of the CRON convice shall be only one of those listed in
RQ1006_02	10.6.3.3	The error codes in the responses of the CRON service shall be only one of those listed in
1	10.63.4	Table 10.13 of ETSI TS 103 666-1 [1].
	10.6.3.4	Events CRON application gets
	10.6.4	CRON application gate
	10.6.4.1	Commands
	10.6.4.2	Responses
	10.6.4.3	Events

RQ number	Clause	Description
	10.6.4.3.1	List of events
RQ1006_02 2	10.6.4.3.1	The CRON application gate shall support the CRON-ELAPSED-TIMER-Event event.
	10.6.4.3.2	CRON-ELAPSED-TIMER-Event
RQ1006_02	10.6.4.3.2	CRON-ELAPSED-TIMER-Event event shall contain aCRON-Id as the identifier of the timer
3		that has elapsed.

## 5.6.7 Contactless related applications support

Reference: ETSI TS 103 666-1 [1], clause 10.7

RQ number	Clause	Description
	10.7.2	HCP tunnelling over SCL
	10.7.2.1	Overview
RQ1007_00 1	10.7.2.1	A SCL pipe session allows the tunnelling of HCP packets as defined in ETSI TS 102 622 [5] to/from HCl host controller as defined in ETSI TS 102 622 [5].
RQ1007_00 2	10.7.2.1	The SSP host shall at most support a single pipe session to HCI service gate.
RQ1007_00 3	10.7.2.1	The presentation layer of the message conveyed over SCL is the HCP as defined in ETSI TS 102 622 [5], clause 5.1
RQ1007_00 4	10.7.2.1	The session of the HCl protocol uses the session initialization defined in ETSI TS 102 622 [5], clause 8.4 with the assumption that the outcome of the identity check mechanism of the HCl lower layers is always successful.
	10.7.2.2	SCL HCl service gate
RQ1007_00 5	10.7.2.2	The SCL HCl service gate provides access to a SCL HCl fragmentation and reassembly service that manages the transfer of HCP packets as defined in ETSI TS 102 622 [5] from/to a CLF compliant with the ETSI TS 102 622 [5].
RQ1007_00 6	10.7.2.2	The SCL HCl Service shall embed the HCP packet from the HCl Host Controller in SCL message fragments of SCL packet to the SCL HCl application gate towards the SCL HCl application in the SSP host.
	10.7.2.3	SCL HCl application gate
RQ1007_00 7	10.7.2.3	The SCL HCl application gate provides access to a SCL HCl application that emulates an HCl host as defined in ETSI TS 102 622 [5].
RQ1007_00 8	10.7.2.3	The SCL HCl application shall reassembly the HCP packet as defined in ETSI TS 102 622 [5] from the message fragments of SCL packets for the HCl host in the SSP host.

## 5.6.8 Card Application Toolkit (CAT) over SCL

RQ number	Clause	Description
	10.8.1	Overview
RQ1008_001	10.8.1	If the CAT application gate is supported, the CAPABILITY_EXCHANGE entry in the identity
		gate registry of the SCL host in the SSP shall indicate support for Card Application Toolkit.
RQ1008_002	10.8.1	The SSP host shall contain no more than one CAT application gate.
RQ1008_003	10.8.1	Each SSP host shall create no more than one pipe session to CAT service gates.
RQ1008_004	10.8.1	If there are multiple hosts supporting the CAT service gate, the SSP host shall use the host
		in the MBM host domain, if present.
RQ1008_005	10.8.1	The communication between the CAT service gate and the CAT application gate shall use
		the presentation layer defined in ETSI TS 102 622 [5], clause 5.2.
RQ1008_006	10.8.1	When the SSP host has a pipe session to a CAT service gate, the SSP shall behave as
		described in ETSI TS 103 666-1 [1], clause 6.8.1.
	10.8.2	Structure of Card Application Toolkit (CAT) communications
RQ1008_007	10.8.2	CAT commands and responses are sent over the SCL pipe as BER-TLV data objects.
RQ1008_008	10.8.2	The tag of a BER-TLV is a constant value, length one byte, indicating it is a CAT command.
RQ1008_009	10.8.2	The length shall be coded onto 1, 2 or 3 bytes according to ETSI TS 101 220 [11],
		clause 7.1.2. ETSI TS 103 666-1 [1], Table 10.15 details this coding.
RQ1008_010	10.8.2	Any values for byte 1, byte 2 or byte 3 that are not shown in ETSI TS 103 666-1 [1],
		Table 10.15 shall be treated as an error and the whole message shall be rejected.
RQ1008_011	10.8.2	It is mandatory for COMPREHENSION-TLV data objects to be provided in the order given in
		the description of each command.

RQ number	Clause	Description
RQ1008_012	10.8.2	New COMPREHENSION-TLV data objects can be added to the end of a command.
	10.8.3	CAT application gate
	10.8.3.1	Overview
RQ1008_013	10.8.3.1	The events defined in ETSI TS 103 666-1 [1], clause 10.8.3 shall be sent to CAT Application
		gate.
	10.8.3.2	Commands
	10.8.3.3	Responses
	10.8.3.4	Events
	10.8.3.4.1	Supported events
RQ1008_014	10.8.3.4.1	The CAT application gate supports the events listed in ETSI TS 103 666-1 [1], Table 10.16.
_	10.8.3.4.2	EVT_ENVELOPE_CMD
RQ1008_015	10.8.3.4.2	EVT_ENVELOPE_CMD event shall be used by the host outside the SSP in order to send an
_		envelope command (as defined in ETSI TS 102 223 [9]) to the CAT application gate.
RQ1008_016	10.8.3.4.2	The contents of the parameter of event "EVT_ENVELOPE_CMD" are as defined in ETSI
		TS 102 223 [9], clause 7, with the exception of length parameters which is described in ETSI
		TS 103 666-1 [1], clause 10.8.2.
	10.8.3.4.3	EVT_TERMINAL_RESPONSE
RQ1008_017	10.8.3.4.3	EVT_TERMINAL_RESPONSE event shall be used by the host outside the SSP in order to
		send a terminal response (as defined in ETSI TS 102 223 [9]) to the CAT application gate.
RQ1008_018	10.8.3.4.3	The contents of the parameter of event "EVT_TERMINAL_RESPONSE" are as defined in
		ETSI TS 102 223 [9], clause 6.8, with the exception of length parameters which is described
		in ETSI TS 103 666-1 [1], clause 10.8.2.
	10.8.3.5	Registry
	10.8.4	CAT service gate
	10.8.4.1	Overview
	10.8.4.2	Commands
	10.8.4.3	Responses
	10.8.4.4	Events
	10.8.4.4.1	Supported events
RQ1008_019	10.8.4.4.1	The events defined in ETSI TS 103 666-1 [1], clause 10.8.4 shall be sent to CAT Service
DO4000 000	100111	gate.
RQ1008_020	10.8.4.4.1	The CAT service gate URN supports the syntax as defined in ETSI TS 103 666-1 [1],
RQ1008_021	10.8.4.4.1	clause 8.2, with the values specified in ETSI TS 103 666-1 [1], Table 8.1.  The CAT service gate supports the events listed in ETSI TS 103 666-1 [1], Table 10.19.
KQ1006_021	10.8.4.4.1	EVT_PROACTIVE_CMD
RQ1008_022	10.8.4.4.2	"EVT_PROACTIVE_CIVID" event shall be used by the SSP host in order to send a proactive
KQ1000_022	10.6.4.4.2	command (as defined in ETSI TS 102 223 [9]) to the CAT service gate.
RQ1008_023	10.8.4.4.2	The contents of the parameter of "EVT_PROACTIVE_CMD" shall be as defined in ETSI
NQ1000_023	10.0.4.4.2	TS 102 223 [9], clause 6.6, with the exception of length parameters which is described in
		ETSI TS 103 666-1 [1], clause 10.8.2.
	10.8.4.4.3	EVT_ENVELOPE_RSP
RQ1008_024	10.8.4.4.3	EVT_ENVELOPE_RSP event shall be used by the SSP host in order to send an envelope
	10.01.11.10	response to the CAT service gate.
RQ1008_025	10.8.4.4.3	The contents of "EVT_ENVELOPE_RSP" shall contain an optional response payload
	1010111110	followed by SW1/SW2 status words as defined in ETSI TS 102 223 [9], clause 7. The length
		parameters for the optional response payload shall be as described in ETSI
		TS 103 666-1 [1], clause 10.8.2.
	10.8.4.5	Registry
	10.8.5	State diagram for the CAT application gate
RQ1008_026	10.8.5	The states of the CAT application gate are:
		TK_ST_INIT: state of the gate when an open pipe exists to the gate but Capability
		Exchange indicates no terminal support for Card Application Toolkit.
		<ul> <li>TK_ST_IDLE: state of the gate when no Toolkit commands are being processed.</li> </ul>
		TK_ST_PCMD: state of the gate when one or more proactive commands are sent
		out and the terminal response is not yet received for all.
	1	TK_ST_ENV (transient): state of the gate when handling an envelope command.
RQ1008_027	10.8.5	The CAT application gate shall only send proactive commands when it is in TK_ST_IDLE

#### 5.6.9 Access Control Protocol

Reference: ETSI TS 103 666-1 [1], clause 10.9

RQ number	Clause	Description
	10.9.1	Introduction
RQ01091_01	10.9.1	The SSP shall have a dedicated accessor authentication service gate for each accessor.
RQ01091_02	10.9.1	The accessor authentication service gate is automatically created at the creation of the
		accessor.
RQ01091_03	10.9.1	The identifier of the gate has the same value of the accessor identity, as defined in ETSI TS 103 666-1 [1], clause 6.13.4.3.
RQ01091_04	10.9.1	Hosts outside the SSP host domain may contain one or more accessor authentication application gates.
RQ01091_05	10.9.1	The authentication of an accessor using a given pipe session shall not imply the authentication of the same accessor for a different host.
RQ01091_06	10.9.1	The closure of the pipe session to an accessor authentication service gate where the accessor was successfully authenticated shall result in the fact that the corresponding accessor is no longer authenticated for the host, without any impact on the authentication status of the same accessor for other hosts.
RQ01091_07	10.9.1	The pipe sessions created using the accessor authentication service shall remain open.
RQ01091_08	10.9.1	After an accessor is successfully authenticated using a pipe session, it may be used to grant permissions to other accessors authenticated from any host, using the mechanism described in ETSI TS 103 666-1 [1] clause 6.13.2.
RQ01091_09	10.9.1	All pipe sessions to an accessor authentication service gate shall be closed by the accessor authentication service when the corresponding accessor is deleted.
RQ01091_10	10.9.1	The accessor authentication service shall remove the accessor authentication service gate after closing the pipe sessions.
RQ01091_11	10.9.1	If the credentials and/or conditions of an accessor are modified, the authentication status of the accessor is not affected.
	10.9.2	Presentation layer
RQ01092_01	10.9.2	The accessor authentication control service gate and the accessor authentication control application gate implement an ASN.1 presentation layer using the definitions in ETSI TS 103 666-1 [1] clause 6.13.5.
	10.9.3	Accessor authentication service gate
	10.9.3.1	Overview
RQ01093_01	10.9.3.1	An accessor authentication application may access to the accessor authentication service via a pipe session between an accessor authentication application gate and an accessor authentication service gate.
	10.9.3.2	Commands
	10.9.3.3	Responses
	10.9.3.4	Events
	10.9.4	Accessor authentication application gate
	10.9.4.1	Overview
	10.9.4.2	Commands
	10.9.4.3	Responses
	10.9.4.4	Events

# 5.7 Requirements not testable, implicitly verified or verified elsewhere

### 5.7.1 Requirements implicitly tested

The following requirements identified in <XYZ> are generated from descriptive text. An explicit verification is not possible but with correct execution of the related function the requirements can be handled as implicitly verified:

RQ0501\_001, RQ0501\_002

RQ0502\_001

RQ0504\_001, RQ0504\_002, RQ0504\_003, RQ0504\_004, RQ0504\_005, RQ0504\_006, RQ0504\_007, RQ0504\_008

RQ0505\_001, RQ0505\_002

## 6 Test Descriptions: SSP Characteristics

#### 6.1 Form Factors

#### 6.1.1 Requirements not testable, implicitly verified or verified elsewhere

#### 6.1.1.1 Requirements not tested

The following requirements identified in clause 5.2.1 are either generated from descriptive text or not testable in the defined test environment. A verification of the listed requirements is not possible: RQ0601 001.

#### 6.2 Power

### 6.2.1 Requirements not testable, implicitly verified or verified elsewhere

#### 6.2.1.1 Requirements not tested

The following requirements identified in clause 5.2.2 are either generated from descriptive text or not testable in the defined test environment. A verification of the listed requirements is not possible:

RO0602 001, RO0602 002, RO0602 003, RO0602 004, RO0602 005, RO0602 007, RO0602 008, RO0602 011.

#### 6.2.1.2 Requirements verified elsewhere

The following requirements identified in clause 5.2.2 are not tested in accordance with the present document, as they are referencing requirements from a different standardization body:

RQ0602 006, RQ0602 009, RQ0602 010, RQ0602 012, RQ0602 013.

#### 6.3 Clock

#### 6.3.1 Requirements not tested

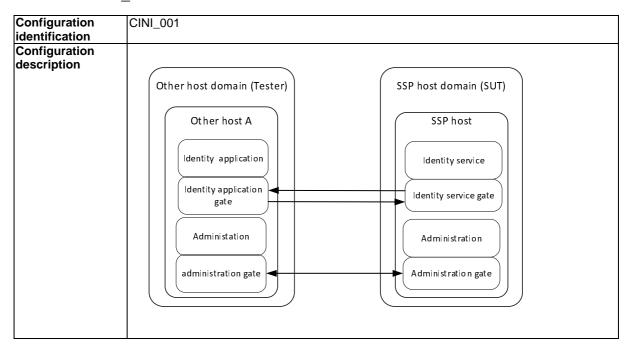
The following requirements identified in clause 5.2.3 are either generated from descriptive text or not testable in the defined test environment. A verification of the listed requirements is not possible:

RQ0603\_001, RQ0603\_002, RQ0603\_003, RQ0603\_004.

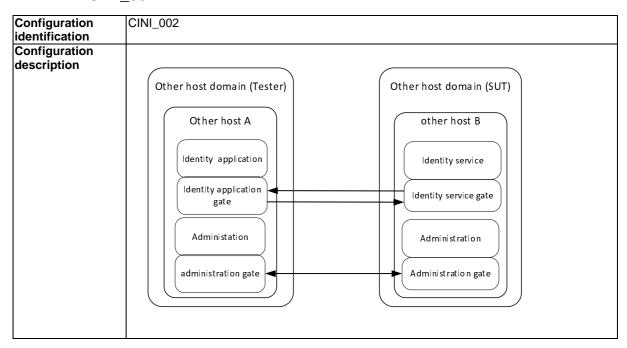
### 6.4 SSP Initialization

## 6.4.1 Configurations

### 6.4.1.1 CINI\_001



#### 6.4.1.2 CINI\_002



#### 6.4.1.3 ASN.1 definitions

The following definitions are used for the procedures and the test descriptions.

```
-- ASN1START
SSPINIconfigurations { itu-t (0) identified-organization (4) etsi (0) smart-secure-platform (3666)
part1 (1) test (2) initialization (1)}
DEFINITIONS
AUTOMATIC TAGS
EXTENSIBILITY IMPLIED ::=
BEGIN
EXPORTS ALL;
/* Imports */
IMPORTS
   SSPClass ,
   SSPCapability,
  TerminalCapability,
VersionType
FROM SSPDefinitions;
-- ASN1STOP
```

#### 6.4.2 Procedures

#### 6.4.2.1 PINI\_001 - Open a pipe session with the Identity gate of the SSP host

Procedure		PINI 001				
identification						
Procedure		The other host shall be able to open a pipe session to the identity gate of the SSP host.				
objectives						
Configuration		CINI_001				
reference						
	Initial conditions					
The SSP host is registered to the SCL network controller host.						
		Procedure sequence				
Step	Descrip	tion				
1	Adminis with:	stration gate in the other host sends EVT_ADM_BIND to Administration gate in the SSP host				
	•	PIPExy: a dynamically assigned pipe identifier for the identity service gate.				
	•	GATE <sub>IDENTITY</sub> : The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-FA1BA497F917).				
2	Adminis with:	dministration gate in the SSP host sends EVT_ADM_BIND to Administration gate in the other host ith:				
	•	PIPE <sub>YX</sub> : a dynamically assigned pipe identifier for the identity application gate.				
	•	GATEIDENTITY: The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-FA1BA497F917).				

## 6.4.2.2 PINI\_002 - Open a pipe session with the Identity gate of the Terminal host

Procedure		PINI_002
identification		
Procedure		The SSP host shall be able to open a pipe session to the identity gate of the Terminal
object	ives	host.
Config	uration	CINI_002
refere	nce	
		Initial conditions
The Te	rminal host is	registered to the SCL network controller host.
		Procedure sequence
Step	Description	
1	Administration	n gate in the host A sends EVT_ADM_BIND to Administration gate in the host B (SUT)
	with:	
	PIPE	xy: a dynamically assigned pipe identifier for the identity service gate.
	<ul> <li>GAT</li> </ul>	EIDENTITY: The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-
	FA1BA497F917).	
2	2 Administration gate in the host B (SUT)sends EVT_ADM_BIND to Administration gate in the host A	
	(tester) with:	
<ul> <li>PIPE<sub>YX</sub>: a dynamically assigned pipe identifier for the identity application gate.</li> </ul>		YX: a dynamically assigned pipe identifier for the identity application gate.
		EIDENTITY: The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-
		$E_{\text{IDENTITY}}$ : The UUID gate identifier of the identity gate (416B66AC-A134-5082-816BA497F917).

## 6.4.3 Test descriptions

## 6.4.3.1 INI\_001 - Capability Exchange of SSPCapabilities

Test identification	INI_001	
Test objectives	To test that the capability exchange procedure is performed when another host supporting SCL	
	is registered on the SCL network controller host.	
Configuration	CINI_001	
reference		
	Initial conditions	
The procedure PINI_0	001 is successfully executed.	
ASN1START		
	TRUE /* <store(atrue)>*/</store(atrue)>	
aFalse BOOLEAN ::=	FALSE /* <store(afalse)>*/</store(afalse)>	
aEMPTY_2 OCTET STR aSSPRELEASE Version present document the aSSPCLASS_1 SSPClanaSSPCLASS_2 SSPClanaSSPCLASS_3 SSPClanaSSPCLASS_3 SSPCLASS_3 SSPCLASS_5 SSP	aEMPTY_1 UTF8String ::= "" /* <store(aempty_1)>*/ aEMPTY_2 OCTET STRING ::= ''H /*<store(aempty_2)>*/ aSSPRELEASE VersionType::= '0F00'H /* <store(assprelease)> *//* it indicates the release of the present document that is implemented by the SSP*/ aSSPCLASS_1 SSPClass ::= eSSPClass-Integrated /* <store(asspclass_1)> */ aSSPCLASS_2 SSPClass ::= eSSPClass-Embedded-Type1 /* <store(asspclass_2)> */ aSSPCLASS_3 SSPClass ::= eSSPClass-Embedded-Type2 /* <store(asspclass_3)> */ aSSPCLASS_4 SSPClass ::= eSSPClass-Removable /* <store(asspclass_4)> */</store(asspclass_4)></store(asspclass_3)></store(asspclass_2)></store(asspclass_1)></store(assprelease)></store(aempty_2)></store(aempty_1)>	
NBLOGICALCHANNELS_MIN INTEGER ::= 1 /* <store(anblogicalchannels_min)> *//* it indicates the dinimum nb of logical channels, including the default channel, that can be supported by an SSP*/NBLOGICALCHANNELS_MAX INTEGER ::= 14 /* <store(anblogicalchannels_max)> *//* it indicates the daximum nb of logical channels, including the default channel, that can be supported by an SSP*/- ASN1STOP</store(anblogicalchannels_max)></store(anblogicalchannels_min)>		

	Test sequence			
Step	Description	Requirements		
1	Identity application gate sends ANY_GET_PARAMETER command with the register identifier '80' (CAPABILITY_EXCHANGE) to the Identity service gate.			
2	The Identity service gate sends aResponse to the Identity application gate.  ASN1START  ARESPONSE SSPCapability ::= {	RQ0604_003 RQ0604_004 RQ0604_005 RQ0604_011 RQ0604_012 RQ0604_013 RQ0604_014 RQ0604_015 RQ0606_001		

#### 6.4.3.2 INI\_002 - Capability Exchange of TerminalCapabilities

Test ic	Test identification INI_002			
<b>Test objectives</b> To test that the capability exchange procedure is performed when a Terminal host su		st supporting		
	SCL is registered on the SCL network controller host.			
Config	Configuration CINI_002			
	reference			
		Initial conditions		
The pr	ocedure PINI_0	002 is successfully executed.		
ASI	N1START			
aEMPTY_1 UTF8String ::= "" /* <store(aempty_1)>*/ aEMPTY_2 OCTET STRING ::= ''H /*<store(aempty_2)>*/ aTERMINALRELEASE VersionType::= '0F00'H /* <store(aterminalrelease)> *//* it indicates the release of the present document that is implemented by the Terminal*/ aINTERFACEPOWERSUPPLY INTEGER ::= 0 /*<store(ainterfacepowersupply> *//* it indicates the maximum current that the terminal can provide over the physical interface where the Capability Exchange procedure is performed*/ aEXTERNALPOWERSUPPLY INTEGER ::= 0 /*<store(aexternalpowersupply> *//* it indicates the maximum current provided by the terminal using the external power supply*/ ASNISTOP</store(aexternalpowersupply></store(ainterfacepowersupply></store(aterminalrelease)></store(aempty_2)></store(aempty_1)>				
		Test sequence		
Step	Description		Requirements	
1		ation gate sends ANY_GET_PARAMETER command with the register identifier		
'		.ITY_EXCHANGE) to the Identity service gate.		
		ervice gate sends aResponse to the Identity application gate.	RQ0604_003	
	ASN1START		RQ0604_004	
		erminalCapability ::= {	RQ0604_005	
		Release '0000'H,	RQ0604_006	
İ		ATERMINALRELEASE,GT,EQ)>*/	RQ0604 007	
		aTerminalVendorName "0",		
2		OTEXIST()> OR <compare(aempty_1,dif)>*/</compare(aempty_1,dif)>	RQ0604_008 RQ0604_009	
4		ProwerSupply 0,	_	
		aINTERFACEPOWERSUPPLY,EQ,GT)>*/ PowerSupply 0,	RQ0604_010	
		EXTERNALPOWERSUPPLY,EO,GT)>*/		
		erminalProfile '00'H		
		DTEXIST> OR <compare(aempty_2,dif)>*/</compare(aempty_2,dif)>		
	) TOP THEIDING	ALDIE OR COMMENTILZ DIF / /		
1	ASN1STOP			

#### 6.4.3.3 End of test descriptions - INITIALIZATION ASN.1 descriptions

#### 6.4.3.3.1 Annex - End of ASN.1 structure

```
-- ASN1START
END
-- ASN1STOP
```

#### 6.4.3.4 Implicitly tested requirements

The following requirements identified in clause 5.2.4 are generated from descriptive text. An explicit verification is not possible but with correct execution of the related function the requirements can be handled as implicitly verified:

RQ0604\_001.

## 6.5 Storage

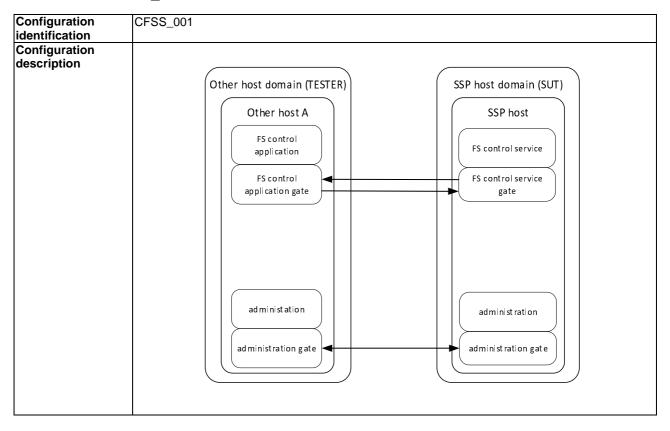
### 6.5.1 Requirements not tested

The following requirements identified in clause 5.2.5 are either generated from descriptive text or not testable in the defined test environment. A verification of the listed requirements is not possible: RQ0605\_001, RQ0605\_002.

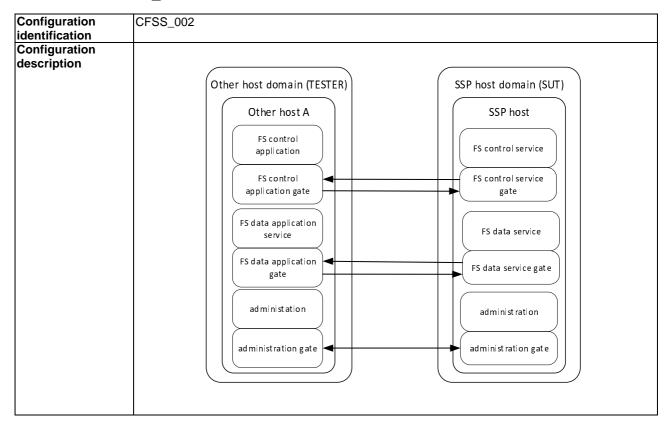
## 6.6 SSP File System

## 6.6.1 Configurations

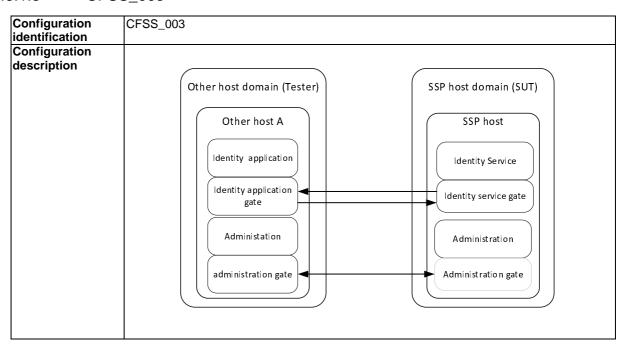
## 6.6.1.1 CFSS\_001



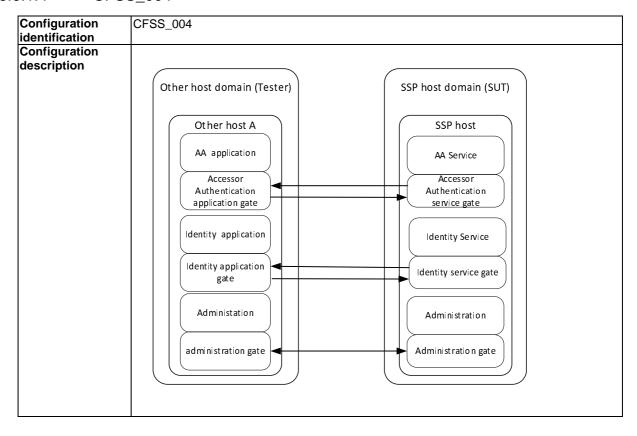
### 6.6.1.2 CFSS\_002



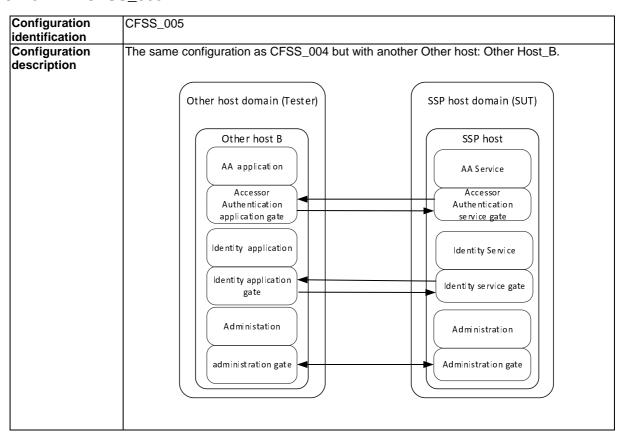
#### 6.6.1.3 CFSS\_003



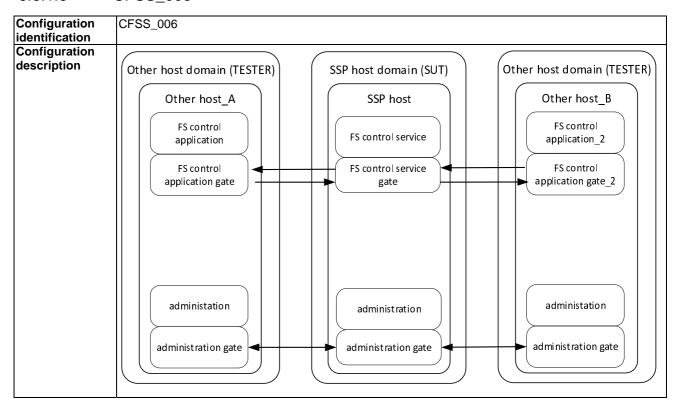
#### 6.6.1.4 CFSS\_004



#### 6.6.1.5 CFSS\_005



#### 6.6.1.6 CFSS\_006



#### 6.6.1.7 ASN.1 Configuration

The following configuration is used for the procedures and the test descriptions.

```
-- ASN1START
SSPFSconfigurations { itu-t (0) identified-organization (4) etsi (0) smart-secure-platform (3666)
part1 (1) test (2) fs (2)}
DEFINITIONS
AUTOMATIC TAGS
EXTENSIBILITY IMPLIED ::=
BEGIN
EXPORTS ALL;
/* Imports */
IMPORTS
  NodeName, -- RFC5280 Certificate X.509v3
  FileSize
  AccessMode,
  UUID,
  SessionID,
  AccessorRights,
  AccessorConditionsPIN,
  AccessorConditions,
  AAS-CONTROL-SERVICE-GATE-Commands,
  AAS-CONTROL-SERVICE-GATE-Responses,
  FS-CONTROL-SERVICE-GATE-Commands,
  FS-CONTROL-SERVICE-GATE-Responses,
  Certificate,
  AuthenticationToken,
  Version
  FROM SSPDefinitions
ECDSA-Sig-Value,
id-ecPublicKey
  FROM PKIX1Algorithms88;
```

```
eFS-Name-SSPFS NodeName ::= "SSPFS"
eFS-Name-file1 NodeName ::="file1
eFS-Name-file2 NodeName ::="file2"
eFS-Name-file3 NodeName ::="file3"
eFS-Name-file4 NodeName ::="file4"
eFS-Name-file5 NodeName ::="file5"
eFS-Name-file6 NodeName ::="file6"
eFS-Name-file7 NodeName ::="file7"
eFS-Name-file8 NodeName ::="file8"
eFS-Name-filelongfilename NodeName ::="filelongfilename"
eFS-Name-link1 NodeName ::="link1"
eFS-Name-directory1 NodeName ::="directory1"
eFS-Name-directory2 NodeName ::="directory2"
eFS-Name-directory3 NodeName ::="directory3"
eFS-Name-directory4 NodeName ::="directory4"
                      UUID::='B8B7F613E7F45C9CA96EBC4BCA1B5A5C'H
eFS-ID-SSPFS
eFS-ID-directory1
                      UUID::='805B48D9A392523BA44C1DBEB35FC2B6'H
                      UUID::='2B80EFE42F1C534395578EAA2ECC9DD8'H
eFS-ID-directory2
                      UUID::='EF51886AB542579A8E52FD1A67B52C8A'H
eFS-ID-directory3
                      UUID::='E74184B62A9B588EB78739A7A5C2DE3B'H
eFS-ID-directory4
                      UUID::='D44BD2F74D0B597BB70F2C66F2BE5F9B'H
eFS-ID-file1
eFS-ID-file2
                      UUID::='F979107AD6BF5743B552869717C35433'H
eFS-ID-file3
                      UUID::='64EAFD2989875036B664DE81BA17DCF5'H
eFS-TD-file4
                      UUID::='4831D4AE7B70566E939F05AC9F65C1AF'H
eFS-ID-file5
                      UUID::='3C5DD13F2CB050A8BCA1BE25040E6E3E'H
eFS-ID-file6
                      UUID::='3B968F5DFADC5CCB96B52542036EC8B9'H
eFS-ID-file7
                      UUID::='8055D64E010D55C4AC91250D3C1A998B'H
eFS-ID-file8
                     UUID::='3B851B68EFB058FBB70F1D7ED59A98F6'H
eFS-ID-filelongfilename UUID::='78D7BAFF1407582C88AF14939B139B8F'H
eFS-ID-link1
                      UUID::='C51F3C1E96F35ABFB24993408C998A25'H
                      UUID::='366BD642D7DE584ABD3BA3DCE29FC075'H -- ETSI FS control service
eFS-ID-FSCS
identifier
eFS-ID-file-fake
                         eRight-Bit1, eFSAccessRight-RequiresSecurePipe,
                      eRight-Bit2, eFSAccessRight-ReadContent,
                      eRight-Bit3, eFSAccessRight-GetInfo,
--
__
                      eRight-Bit4, eFSAccessRight-Write,
__
                      eRight-Bit5, eFSAccessRight-UpdateMetadata,
                      eRight-Bit6, eFSAccessRight-UpdateACL,
                      eRight-Bit7, eFSAccessRight-Delete, eRight-Bit8 eFSAccessRight-DeleteChild
eFS-ACL-SSPFS
                      AccessorRights ::= {
                      eRight-Bit2, --eFSAccessRight-ReadContent,
                      eRight-Bit3, --eFSAccessRight-GetInfo, eRight-Bit4, --eFSAccessRight-Write,
                      eRight-Bit5, --eFSAccessRight-UpdateMetadata,
                      eRight-Bit6, --eFSAccessRight-UpdateACL,
                      eRight-Bit7, --eFSAccessRight-Delete,
                      eRight-Bit8 --eFSAccessRight-DeleteChild
eFS-ACL-directory1
                            AccessorRights ::= {
                      eRight-Bit2, --eFSAccessRight-ReadContent,
                      eRight-Bit3, --eFSAccessRight-GetInfo, eRight-Bit4, --eFSAccessRight-Write,
                      eRight-Bit5, --eFSAccessRight-UpdateMetadata,
                      eRight-Bit6, --eFSAccessRight-UpdateACL,
eRight-Bit7 --eFSAccessRight-Delete,
                            AccessorRights ::= {
eFS-ACL-directorv2
                      eRight-Bit2, --eFSAccessRight-ReadContent,
                      eRight-Bit3, --eFSAccessRight-GetInfo,
                      eRight-Bit4, --eFSAccessRight-Write, eRight-Bit5, --eFSAccessRight-UpdateMetadata,
                      eRight-Bit6, --eFSAccessRight-UpdateACL,
                      eRight-Bit7, --eFSAccessRight-Delete, eRight-Bit8 --eFSAccessRight-DeleteChild
                            AccessorRights ::= {
eFS-ACL-directorv3
                      eRight-Bit2, --eFSAccessRight-ReadContent,
                      eRight-Bit3, --eFSAccessRight-GetInfo,
                      eRight-Bit4, --eFSAccessRight-Write,
                      eRight-Bit5, --eFSAccessRight-UpdateMetadata, eRight-Bit6, --eFSAccessRight-UpdateACL,
```

```
eRight-Bit7, --eFSAccessRight-Delete,
                           eRight-Bit8 --eFSAccessRight-DeleteChild
eFS-ACL-directory4
                                   AccessorRights ::= {
                           eRight-Bit2, --eFSAccessRight-ReadContent,
                           eRight-Bit3, --eFSAccessRight-GetInfo,
                           eRight-Bit4, --eFSAccessRight-Write, eRight-Bit5, --eFSAccessRight-UpdateMetadata,
                           eRight-Bit6, --eFSAccessRight-UpdateACL,
                           eRight-Bit7, --eFSAccessRight-Delete, eRight-Bit8 --eFSAccessRight-DeleteChild
eFS-ACL-file1
                               AccessorRights ::= {
                           eRight-Bit2, --eFSAccessRight-ReadContent,
                           eRight-Bit3, --eFSAccessRight-GetInfo, eRight-Bit4, --eFSAccessRight-Write,
                           \verb|eRight-Bit5|, -- eFSAccessRight-UpdateMetadata|,\\
                           eRight-Bit6, --eFSAccessRight-UpdateACL,
eRight-Bit7 --eFSAccessRight-Delete
                               {\tt AccessorRights} \; ::= \; \{ \;
eFS-ACL-file2
                           eRight-Bit2, --eFSAccessRight-ReadContent,
eRight-Bit3, --eFSAccessRight-GetInfo,
                           eRight-Bit4, --eFSAccessRight-Write,
                           eRight-Bit5, --eFSAccessRight-UpdateMetadata, eRight-Bit6, --eFSAccessRight-UpdateACL,
                           eRight-Bit7 --eFSAccessRight-Delete
eFS-ACL-file3
                               AccessorRights ::= {
                           eRight-Bit3, --eFSAccessRight-GetInfo,
eRight-Bit4, --eFSAccessRight-Write,
                           eRight-Bit5, --eFSAccessRight-UpdateMetadata, eRight-Bit6, --eFSAccessRight-UpdateACL,
                           eRight-Bit7 --eFSAccessRight-Delete
eFS-ACL-file4
                               AccessorRights ::= {
                           eRight-Bit2, --eFSAccessRight-ReadContent, eRight-Bit3, --eFSAccessRight-GetInfo,
                           eRight-Bit5, --eFSAccessRight-UpdateMetadata,
                           eRight-Bit6, --eFSAccessRight-UpdateACL, eRight-Bit7 --eFSAccessRight-Delete
eFS-ACL-file5
                               AccessorRights ::= {
                           eRight-Bit2, --eFSAccessRight-ReadContent,
                           eRight-Bit3, --eFSAccessRight-GetInfo,
                           eRight-Bit4, --eFSAccessRight-Write,
                           eRight-Bit5, --eFSAccessRight-UpdateMetadata,
                           eRight-Bit6, --eFSAccessRight-UpdateACL,
                           eRight-Bit7 --eFSAccessRight-Delete
eFS-ACL-file6
                               AccessorRights ::= {
                           eRight-Bit2, --eFSAccessRight-ReadContent,
eRight-Bit4, --eFSAccessRight-Write,
                           eRight-Bit5 --eFSAccessRight-UpdateMetadata
eFS-ACL-file7
                               AccessorRights ::= {
                           eRight-Bit1, --eFSAccessRight-RequiresSecurePipe, eRight-Bit2, --eFSAccessRight-ReadContent,
                           eRight-Bit3, --eFSAccessRight-GetInfo,
                           eRight-Bit4, --eFSAccessRight-Write,
                           eRight-Bit5, --eFSAccessRight-UpdateMetadata,
eRight-Bit6, --eFSAccessRight-UpdateACL,
                           eRight-Bit7 --eFSAccessRight-Delete
eFS-ACL-file8
                               AccessorRights ::= {
                           eRight-Bit2, --eFSAccessRight-ReadContent,
eRight-Bit3, --eFSAccessRight-GetInfo,
                           eRight-Bit4, --eFSAccessRight-Write,
                           eRight-Bit5, --eFSAccessRight-UpdateMetadata,
                           eRight-Bit6, --eFSAccessRight-UpdateACL,
                           eRight-Bit7 --eFSAccessRight-Delete
eFS-ACL-link1
                               AccessorRights ::= {
                           eRight-Bit2, --eFSAccessRight-ReadContent,
eRight-Bit3, --eFSAccessRight-GetInfo,
                           eRight-Bit4, --eFSAccessRight-Write, eRight-Bit5, --eFSAccessRight-UpdateMetadata,
```

```
eRight-Bit6, --eFSAccessRight-UpdateACL,
                        eRight-Bit7 --eFSAccessRight-Delete
eFS-ACL-filelongfilename AccessorRights::={
                        eRight-Bit2, --eFSAccessRight-ReadContent, eRight-Bit3, --eFSAccessRight-GetInfo, eRight-Bit5 --eFSAccessRight-UpdateMetadata,
eFS-ACL-file_upd
                              AccessorRights ::= {
                        eRight-Bit2, --eFSAccessRight-ReadContent,
eRight-Bit3, --eFSAccessRight-GetInfo,
                        eRight-Bit4, --eFSAccessRight-Write,
                        eRight-Bit5, --eFSAccessRight-UpdateMetadata, eRight-Bit6 --eFSAccessRight-UpdateACL
-- urn:etsi.org:asn.1:accessor:fsa:1
                       UUID::='3377F1EB69985D70BCA7D8E390DF084F'H
eFS-ACC-FSA1
 -- urn:etsi.org:asn.1:accessor:fsa:2
eFS-ACC-ROOT
                       UUID::='DD61116FF0DD57F48A4F52EE70276F24'H
eAS-Challenge
                      UUID::='BA64E9EE888952F4891DA79401758FF4'H
aSessionID_1 SessionID ::= 01
aSessionID_2 SessionID ::= 02
aSizeFile1 FileSize ::= 5
aSizeFile2 FileSize ::= 5
aSizeFile3 FileSize ::= 5
aSizeFile4 FileSize ::= 5
aSizeFile5 FileSize ::= 256
aSizeFile6 FileSize ::= 5
aSizeFile7 FileSize ::= 5
aSizeFile8 FileSize ::= 5
aSizeFileLF FileSize ::= 5
eRequestTypeDEF BIT STRING ::= '000'B
eOID OBJECT IDENTIFIER ::= { 0 0 }
--eAASAccessRight-RequiresSecurePipe AccessorRights ::= {eRight-Bit1 }
--eAASAccessRight-Create AccessorRights ::= { eRight-Bit2
--eAASAccessRight-Delete AccessorRights ::= { eRight-Bit3 --eAASAccessRight-Update AccessorRights ::= { eRight-Bit4
--eAASAccessRight-UpdateACL AccessorRights ::= { eRight-Bit5 }
--eAASAccessRight-UpdateGroup AccessorRights ::= { eRight-Bit6 }
--eAASAccessRight-UpdateCredentialPolicy AccessorRights ::= { eRight-Bit7 } --eAASAccessRight-UpdateCredentialStatus AccessorRights ::= { eRight-Bit8 }
-- The root accessor has all accessor rights
eFS-ACL-ROOT
                           AccessorRights ::= {
--eAASAccessRight-RequiresSecurePipe-- eRight-Bit1,
--eAASAccessRight-Create AccessorRights--eRight-Bit2,
--eAASAccessRight-Delete-- eRight-Bit3,
--eAASAccessRight-Update AccessorRights--eRight-Bit4,
--eAASAccessRight-UpdateACL-- eRight-Bit5,
--eAASAccessRight-UpdateGroup-- eRight-Bit6,
--eAASAccessRight-UpdateCredentialPolicy-- eRight-Bit7,
--eAASAccessRight-UpdateCredentialStatus-- eRight-Bit8
                           AccessorRights ::= {
eFS-ACL-FSA1
--eAASAccessRight-RequiresSecurePipe-- eRight-Bit1,
--eAASAccessRight-Create AccessorRights--eRight-Bit2,
--eAASAccessRight-Delete-- eRight-Bit3,
--eAASAccessRight-Update AccessorRights--eRight-Bit4,
--eAASAccessRight-UpdateACL-- eRight-Bit5,
--eAASAccessRight-UpdateGroup-- eRight-Bit6,
--eAASAccessRight-UpdateCredentialPolicy-- eRight-Bit7,
--eAASAccessRight-UpdateCredentialStatus-- eRight-Bit8
                        }
```

```
eFS-ACL-FSA2 AccessorRights ::= {
    --eAASAccessRight-RequiresSecurePipe-- eRight-Bit1,
    --eAASAccessRight-Create AccessorRights--eRight-Bit2,
    --eAASAccessRight-Delete-- eRight-Bit3,
    --eAASAccessRight-Update AccessorRights--eRight-Bit4,
    --eAASAccessRight-UpdateACL-- eRight-Bit5,
    --eAASAccessRight-UpdateGroup-- eRight-Bit6,
    --eAASAccessRight-UpdateCredentialPolicy-- eRight-Bit7,
    --eAASAccessRight-UpdateCredentialStatus-- eRight-Bit8
    }
}
-- ASN1STOP
```

The Authentication token and certificates are given as examples. Tools are available in the ETSI forge repository in [SCP x509v3] to generate the needed certificates for creating the certification path.

```
-- ASN1START
eAS-ATK-01 AuthenticationToken::={
     tbsToken {
       version v1,
       subjectPublicKeyInfo {
         algorithm {
           algorithm { 0 0 }
         subjectPublicKey '0'B
       aATK-Content {
         aKey-Size e128,
         aStreamCipherIdentifier aAES-CGM-StreamCipherIdentifier
     signatureAlgorithm {
       algorithm { 0 0 }
     signature {
      r 0,
       s 0
eAS-CERT-01 Certificate ::= {
  tbsCertificate {
    version v3,
    serialNumber 1,
    signature {
     algorithm \{ 0 0 \},
     parameters OCTET STRING : '00'H
    issuer rdnSequence : {
        type { 0 0 },
        value OCTET STRING : '00'H
    validity {
    notBefore utcTime : "000101000000Z",
     notAfter utcTime : "000101000000Z"
    subject rdnSequence : {
        type { 0 0 },
        value OCTET STRING : '00'H
     }
    subjectPublicKeyInfo {
     algorithm {
      algorithm id-ecPublicKey
```

```
subjectPublicKey '0'B
},
issuerUniqueID '0'B,
subjectUniqueID '0'B,
extensions {
    {
       extnID { 0 0 },
       critical FALSE,
       extnValue '00'H
    }
},
signatureAlgorithm {
    algorithm { 0 0 },
    parameters OCTET STRING : '00'H
},
signature '0'B
}
```

## 6.6.2 Procedures

## 6.6.2.1 PFSS\_001 - Open a pipe session with the identity gate

Procedure		PFSS 001
identification		1100_001
Procedure objectives		The other host shall be able to open a pipe session to the identity gate of the SSP host. From the GATE_LIST registry, the UUID of the root accessor shall be listed. If the procedure is successful then a pipe session is open between the identity application in the other host and the identity service in the SSP host.
Config	uration	CFSS_003
referen	ice	
		Initial conditions
		DD61116F-F0DD-57F4-8A4F-52EE70276F24) is existing.
		available in SSP prepared for procedures purpose. The Tester acting as an accessor shall cated by using an authentication token authenticated by a certification path.
		Procedure sequence
Step	Description	·
1	Administration	gate sends EVT_ADM_BIND to Administration gate in the SSP with:
	<ul> <li>PIPE</li> </ul>	xy: a dynamically assigned pipe identifier for the identity service gate.
		The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-
	FA1BA497F9	
2		gate sends EVT_ADM_BIND to Administration gate in the other host with:
		yx: a dynamically assigned pipe identifier for the identity application gate.
	<ul> <li>GATE<sub>IDENTITY</sub>: The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-FA1BA497F917).</li> </ul>	
	Identity applica	ation gate sends ANY_GET_PARAMETER command (pipe PIPExy) to the identity service
	gate in the SS	P host with the register '04'H.
4		e gate sends ANY_GET_PARAMETER response (pipe PIPEyx) to the identity application
	gate in the oth	
		entifier 'DD61116F-F0DD-57F4-8A4F-52EE70276F24' shall be present. The procedure is
		ne previous requirement is satisfied.
5		gate sends EVT_ADM_UNBIND event to the administration gate in the SSP host with:
		xy: a dynamically assigned pipe identifier for the identity service gate.
		ion between the Identity application gate and the Identity service gate is closed. This step
	is required to	clean up the context of the tests but it is not essential for the procedure objective.

## 6.6.2.2 PFSS\_002 - Open a pipe session with the Accessor Authentication service

Procedure		PFSS_002
identif	ication	
Procedure		The other host shall be able to open a pipe session to the authentication service gate of
object	ives	the SSP host.
-		If the procedure is successful then a pipe session is open between the accessor authentication application in the other host and the accessor authentication service in the SSP host.
Config	uration	CFSS_004
referer	nce	
		Initial conditions
Root a	ccessor (UUID	: DD61116F-F0DD-57F4-8A4F-52EE70276F24) is existing. This UUID is also the identity
		This root accessor is dedicated for the tester and assigned to the test providers using the
	SP tests.	
The pro	ocedure PFSS	_001 shall be successfully executed.
		Procedure sequence
Step	Description	·
1	Administration	gate sends EVT_ADM_BIND to Administration gate in the SSP with:
	PIPE	BA: a dynamically assigned pipe identifier for the Accessor Authentication service gate.
		EROOT: The UUID gate identifier of the root Accessor Authentication service gate
		61116F-F0DD-57F4-8A4F-52EE70276F24).
2	Administration	gate sends EVT_ADM_BIND to Administration gate in the other host with a binding
parameter equal to:		
	PIPE	AB: a dynamically assigned pipe identifier for the Accessor Authentication application gate.
	• GAT	EROOT: The UUID gate identifier of the root Accessor Authentication application gate
		61116F-F0DD-57F4-8A4F-52EE70276F24).
		all be present in one of the binding parameters (see VNP[XX]. If present then the
	procedure is s	• • • • • • • • • • • • • • • • • • • •

## 6.6.2.3 PFSS\_003 - Authentication of the root accessor

Hure	PFSS 003		
	The root accessor shall be able to be authenticated with the Accessor Authentication		
ives	service by using:		
	The aAAS-OP-GET-CHALLENGE-Service-Command command.		
	The aAAS-OP-AUTHENTICATE-ACCESSOR-Service-Command command.		
	The authentication mean is based on the authentication tokens.		
	CFSS_004		
nce			
	Initial conditions		
ocedure PFSS_	_002 shall be successfully executed.		
	Procedure sequence		
	ds an AAS-CONTROL-SERVICE-GATE-Commands command to AAS gate with:		
ASN1START			
	ommand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-GET-CHALLENGE-		
	nana : {}		
	ds AAS-CONTROL-SERVICE-GATE-Responses response to AAA gate with:		
ASMISTART	us AAS-CONTROL-SERVICE-GATE-Responses response to AAA gate with.		
	esponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-OP-GET-CHALLENGE-		
	.ce-Response eAAS-OK,		
aParameter	i de la companya de		
	nge eAS-Challenge,		
	cates {eAS-CERT-01}}}		
	a set of contification a Challenge is a random number (120 hit) generated by the AAC. The		
	a set of certificates. aChallenge is a random number (128 bit) generated by the AAS. The		
	ed in the procedure is given as example. ds AAS-CONTROL-SERVICE-GATE-Commands command to AAS gate with:		
	ommand-02 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-AUTHENTICATE-		
	evice-Command : {		
	al aAccessorTokenCredential : {		
aToken e	PAS-ATK-01, aTokenCertificationPath {eAS-CERT-01}}}		
ASN1STOP			
	ation token shall contain the challenge as recovered at the step 2.		
	ation token shall be verified by using the certification path.		
	ds AAS-CONTROL-SERVICE-GATE-Responses response to AAA gate with:		
	esponse-02 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-AUTHENTICATE- rvice-Command : {		
	al aAccessorTokenCredential : { aToken eAS-ATK-01,		
	icationPath {eAS-CERT-01} }		
}	, ,		
ASN1STOP			
	ation token shall contain the challenge as recovered at the step 2.		
	ation token shall be verified by using the certification path.		
	e is successful if the same challenge is in all authentication tokens and all of them have		
	Description  AAA gate sen ASN1STARI aPFSS-003-cc Service-Comm ASN1STOP  AAS gate sen ASN1STARI aPFSS-003-rc Service-Resg aAAS-Servi aParameter aCertificate is value express  AAA gate sen ASN1STOP aCertificate is value express  AAA gate sen ASN1STARI aPFSS-003-cc ACCESSOR-Ser aCredentia aToken c ASN1STOP The authentic The authentic AAS gate sen ASN1STARI aPFSS-003-rc ACCESSOR-Ser aCredentia aTokenCertif } ASN1STOP The authentic The authentic The authentic The authentic The authentic The authentic		

## 6.6.2.4 PFSS\_004 - Access to the Authentication Service from the root accessor

Procedure		PFSS_004	
identification			
Procedure		The authenticated root accessor shall be able to access the Accessor Authentication	
object	ives	service by using:	
, , , , ,		The aAAS-OP-ACCESS-SERVICE-Service-Command command.	
		If the procedure is successful then the accessor can open a secure pipe session to the	
		Accessor Authentication service.	
Confid	guration	CFSS 004	
refere		0.00_001	
		Initial conditions	
The pro	ocedure PFSS	_003 shall be successfully executed.	
		Procedure sequence	
Step	Description	·	
1	AAA gate sen	ds an AAS-OP-ACCESS-SERVICE-Service-Command command to AAS gate with:	
	ASN1STAR		
	aPFSS-004-co	ommand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-ACCESS-SERVICE-	
	Service-Com	and : {	
	aServiceId	dentifier 'DD61116FF0DD57F48A4F52EE70276F24 'H,	
	aUseSecure	ePipe TRUE	
	}		
	ASN1STOP		
2 AAS gate sends an AAS-OP-ACCESS-SERVICE-Service-Response response to AAA gate with		ds an AAS-OP-ACCESS-SERVICE-Service-Response response to AAA gate with:	
	ASN1STAR		
		esponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-OP-ACCESS-SERVICE-	
	Service-Resp		
		aAAS-Service-Response eAAS-OK,	
aParamete			
aGateIdentifie		entifier eAS-ID-ASS-GateID_1 /* <store(eas-id-ass-gateid_1)> */</store(eas-id-ass-gateid_1)>	
}			
}			
ASN1STOP			
		rns the gate identifier on which the authenticated root accessor can access the accessor	
		service by using a secure pipe.	
	The procedure	e is successful if the AAS returns eAAS-OK.	

#### PFSS\_005 - Open a pipe session with the Accessor Authentication service 6.6.2.5

Procedure	PFSS_005
identification	
Procedure	The other host shall be able to open a pipe session to the authentication service gate of
objectives	the SSP host.
	If the procedure is successful then a pipe session is open between the accessor authentication application in the other host and the accessor authentication service in the SSP host.
Configuration	CFSS_004
reference	
	Initial conditions

#### Initial conditions

Root accessor (UUID: DD61116F-F0DD-57F4-8A4F-52EE70276F24) is existing. This UUID is also the identity of the Root accessor. This root accessor is dedicated for the tester and assigned to the test providers using the ETSI SSP tests.

The accessor has obtained the gate identifier on the accessor authentication service for the root accessor by using a secure pipe session.

The procedure PFSS_004 shall be successfully executed.				
_	Procedure sequence			
Step	Description			
1	Administration gate sends EVT_ADM_BIND to Administration gate in the SSP with:			
	<ul> <li>PIPE<sub>CD</sub>: a dynamically assigned pipe identifier for the Accessor Authentication service gate.</li> </ul>			
	GATE <sub>ROOTBIS</sub> : The dynamically assigned UUID gate identifier returned by AAS in PFSS_004 (eAS-ID-ASS-GateID_1).			
2	Administration gate sends EVT_ADM_BIND to Administration gate in the other host with a binding			
	parameter equal to:			
	PIPE <sub>DC</sub> : a dynamically assigned pipe identifier for the Accessor Authentication application gate.			
	GATE <sub>ROOTBIS</sub> : The dynamically assigned UUID gate identifier returned by AAS in PFSS_004 (eAS-ID-ASS-GateID_1).			
	GATE <sub>ROOTBIS</sub> shall be present in one of the binding parameters (see VNP [10]). If present then the procedure is successful.			
	A secure pipe session is opened between the AAA acting for the root accessor and AAS as the authentication service.			

## 6.6.2.6 PFSS\_006 - Creation of FS accessors

## 6.6.2.6.1 PFSS\_061 - Creation of an accessor FS Accessor 1

Procedure		PFSS_061
identification		1.1.00_001
Procedure		The Accessor Authentication application shall be able to create an FSA1 accessor from
objectives		the Accessor Authentication service using an aAAS-ADMIN-CREATE-ACCESSOR-
l l		Service-Command.
		File System Accessor 1 (FSA1):
		Accessor identity: eFS-ACC-FSA1
		The FSA1 accessor authentication mean shall be based on the pincode.
	uration	CFSS_004
referen	ice	Initial conditions
The pro	ocedure PESS	_005 shall be successfully executed.
THE PIC	because i i ee	Procedure sequence
Step	Description	
1		ds AAS-CONTROL-SERVICE-GATE-Commands to AAS gate with:
	ASN1START	
		command-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-ADMIN-CREATE-
		rvice-Command : { aAccessorUser : {
		orldentity eFS-ACC-FSA1,
		orConditions {
		ssConditionsPIN ePinNumeric
	}, aACL {	
	aACL (	
	,	cessorIdentity eFS-ACC-ROOT,
	aAcc	cessorRights eFS-ACL-ROOT
	},	
	{	responted on tity of C. ACC. FCA1
		cessorIdentity eFS-ACC-FSA1, cessorRights eFS-ACL-FSA1
aAC		SUBBOLKING CID NOD IDNI
	}	
	},	2 (
		al { aPinNumericCredential "1234" }, alsPolicy {
		ericPolicy {
		orbidden FALSE, aMinSize 4, aMaxSize 255, aMaxAttempts 3
	}	
	},	
		alsStatus { ericStatus {
		onStatus {
		Disabled FALSE
	}	
	}	
	}	
	ASN1STOP	
		ssor has all rights on the procedure accessor.
		e accessor shall be authenticated by using the pin code.
2	AAS gate sen	ds aAAS-ADMIN-CREATE-ACCESSOR-Service-Response to AAA gate with:
		r cesponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-ADMIN-CREATE-
		rvice-Response : {
		ice-Response eAAS-OK
	}	
	ASN1STOP	
	The procedure	e is successful if the aAAS-Service-Response is eAAS-OK.
	in procodure	The second secon

# 6.6.2.6.2 PFSS\_0062 - Open a pipe session with the Accessor Authentication service for the FSA1 accessor

D	-1	DECC 0000
Procedure		PFSS_0062
identification		
Procedure		The other host shall be able to open a pipe session to the authentication service gate of
object	ives	the SSP host.
		If the procedure is successful then a pipe session is open between the accessor
		authentication application in the other host and the accessor authentication service in the
		SSP host.
Config	guration	CFSS_004
refere	nce	
		Initial conditions
The pr	ocedure PFSS	_0061 shall be successfully executed.
		Procedure sequence
Step	Description	
	Requirement	es s
1	Administration	n gate sends EVT_ADM_BIND to Administration gate in the SSP with:
	PIPE	BA: a dynamically assigned pipe identifier for the Accessor Authentication service gate.
	<ul> <li>GAT</li> </ul>	E <sub>TEST</sub> : The UUID gate identifier of the FSA1 accessor AA service gate (3377f1eb-6998-
5d70-bca7-d8e390df084f).		D-bca7-d8e390df084f).
2	Administration	n gate sends EVT_ADM_BIND to Administration gate in the other host with a binding
	parameter equal to:	
	<ul> <li>PIPEAB: a dynamically assigned pipe identifier for the identity application gate.</li> </ul>	
	<ul> <li>GAT</li> </ul>	E <sub>TEST</sub> : The UUID gate identifier of the FSA1 accessor AA application gate (3377f1eb-6998-
		D-bca7-d8e390df084f).
	GATETEST Sha	all be present in one of the binding parameters (see VNP[XX]. If present then the
procedure is s		successful.

### 6.6.2.6.3 PFSS\_0063 - Authentication of the accessor

Procedure		PFSS_0063	
identification			
Procedure		The Accessor Authentication application shall be able to authenticate FSA1 accessor	
objecti	ives	from the Accessor Authentication service using an aAAS-OP-AUTHENTICATE-	
_		ACCESSOR-Service-Command.	
Config	uration	CFSS_004	
referer			
		Initial conditions	
The pro	ocedure PFSS	_0062 shall be successfully executed.	
		Procedure sequence	
Step	Description		
	Requirements		
1	AAA gate sen	ds AAS-CONTROL-SERVICE-GATE-Commands to AAS gate with:	
	ASN1START		
	aPFSS-0063-c	command-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-AUTHENTICATE-	
		cvice-Command : {	
	aCredential aPinNumericCredential: "1234"		
	}		
	ASN1STOP		
2		ds AAS-CONTROL-SERVICE-GATE-Responses to AAA gate with:	
	ASN1START		
	aPFSS-0063-response-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-OP-AUTHENTICATE-		
		rvice-Response : {	
		ce-Response eAAS-OK}	
	ASN1STOP		
	The procedure is successful if the aAAS-Service-Response is eAAS-OK.		

#### 6.6.2.6.4 PFSS\_0064 - Creation of an accessor FS Accessor 2

Procedure	PFSS_0061
identification	
Procedure	The Accessor Authentication application shall be able to create an FSA2 accessor from
objectives	the Accessor Authentication service using an aAAS-ADMIN-CREATE-ACCESSOR-Service-Command.
	File System Accessor 2 (FSA2):
	Accessor identity: eFS-ACC-FSA2
	The FSA2 accessor authentication mean shall be based on the pincode.
Configuration	CFSS_005
reference	

#### **Initial conditions**

The procedure PFSS\_005 shall be successfully executed. PFSS\_005 and all of the referenced procedures shall be executed on Other Host\_B.

#### Procedure sequence Description AAA gate sends AAS-CONTROL-SERVICE-GATE-Commands to AAS gate with: - ASN1START aPFSS-0064-command-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-ADMIN-CREATE-ACCESSOR-Service-Command : { aAccessor aAccessorUser : aAccessorIdentity eFS-ACC-FSA2, aAccessorConditions { aAccessConditionsPIN ePinNumeric aACL { { aAccessorIdentity eFS-ACC-ROOT, aAccessorRights eFS-ACL-ROOT aAccessorIdentity eFS-ACC-FSA2, aAccessorRights eFS-ACL-FSA2 aCredential { aPinNumericCredential "1234" }, aCredentialsPolicy { aPinNumericPolicy { aIsDisableForbidden FALSE, aMinSize 4, aMaxSize 255, aMaxAttempts 3 aCredentialsStatus { aPinNumericStatus { aCommonStatus alsDisabled FALSE } -- ASN1STOP The root accessor has all rights on the procedure accessor. The procedure accessor shall be authenticated by using the pin code. AAS gate sends aAAS-ADMIN-CREATE-ACCESSOR-Service-Response to AAA gate with: -- ASN1START aPFSS-0064-response-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-ADMIN-CREATE-ACCESSOR-Service-Response : { aAAS-Service-Response eAAS-OK - ASN1STOP The procedure is successful if the aAAS-Service-Response is eAAS-OK.

# 6.6.2.6.5 PFSS\_0065 - Open a pipe session with the Accessor Authentication service for the FSA2 accessor

Procedure identification		PFSS_0065
Procedure		The other host shall be able to open a pipe session to the authentication service gate of
object	ives	the SSP host.
		If the procedure is successful then a pipe session is open between the accessor
		authentication application in the other host and the accessor authentication service in the SSP host.
Config	guration	CFSS_005
refere	nce	
		Initial conditions
The pr	ocedure PFSS	5_0064 shall be successfully executed.
	_	Procedure sequence
Step	Description	
	Requirements	
1	Administratio	n gate sends EVT_ADM_BIND to Administration gate in the SSP with:
	PIPI	EBA: a dynamically assigned pipe identifier for the Accessor Authentication service gate.
		ETEST: The UUID gate identifier of the FSA2 accessor AA service gate
	(a2beb42e-8863-555e-b0da-1957001a06c2).	
2		
	parameter equal to:	
	<ul> <li>PIPEAB: a dynamically assigned pipe identifier for the identity application gate.</li> </ul>	
GATETEST: The UUID gate identifier of the FSA2 accessor AA application gate		ETEST: The UUID gate identifier of the FSA2 accessor AA application gate
		peb42e-8863-555e-b0da-1957001a06c2).
	GATETEST Sh	all be present in one of the binding parameters (see VNP [10]). If present then the
	procedure is	successful.

### 6.6.2.6.6 PFSS\_0066 - Authentication of the accessor

		PFSS_0066	
identification			
Proced		The Accessor Authentication application shall be able to authenticate FSA2 accessor	
objecti	ives	from the Accessor Authentication service using an aAAS-OP-AUTHENTICATE-	
		ACCESSOR-Service-Command.	
Config	uration	CFSS 005	
referer		_	
		Initial conditions	
The pro	ocedure PFSS_	_0065 shall be successfully executed.	
		Procedure sequence	
Step	Description		
	Requirements		
1	AAA gate sen	AAA gate sends AAS-CONTROL-SERVICE-GATE-Commands to AAS gate with:	
	ASN1START		
aPFSS-0066-command-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-AUTHENTICATE-		command-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-AUTHENTICATE-	
	ACCESSOR-Ser	rvice-Command : {	
	aCredentia	al aPinNumericCredential : "1234"	
	}		
	ASNISTOP		
2	AAS gate sen	ds AAS-CONTROL-SERVICE-GATE-Responses to AAA gate with:	
	ASN1START		
	aPFSS-0066-response-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-OP-AUTHENTICATE-		
ACCESSOR-Ser		rvice-Response : {	
		ce-Response eAAS-OK}	
	ASN1STOP		
	The procedure is successful if the aAAS-Service-Response is eAAS-OK.		

## 6.6.2.7 PFSS\_007 - Open a secure pipe session to FS control service

#### 6.6.2.7.1 PFSS\_0071 - Access to FS control service for FSA1 with secure pipe

Procedure		PFSS_0071
identification		
Procedure objectives		The Accessor Authentication application on the behalf of FSA1 accessor shall be able to access the FS control service from the Accessor Authentication service using an aAAS-OP-ACCESS-SERVICE-Service-Command.  The FS control service identifier is 366BD642-D7DE-584A-BD3B-A3DCE29FC075.
	guration	CFSS_004
refere	nce	
		Initial conditions
The pr	ocedure PFSS	S_0063 shall be successfully executed.
		Procedure sequence
Step	Description	nds an AAS-OP-ACCESS-SERVICE-Service-Command to AAS gate with:
	Service-Com aServiceI aUseSecur } ASN1STOP	command-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-ACCESS-SERVICE-mand : { dentifier eFS-ID-FSCS, ePipe TRUE
2	ASN1STAR aPFSS-0071- Service-Res aAAS-Serv aParamete aGateId } ASN1STOP	response-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-OP-ACCESS-SERVICE-ponse : { ice-Response eAAS-OK,
System service by using a secure pipe.  The procedure is successful if the AAS returns eAAS-OK.		ce by using a secure pipe.

## 6.6.2.7.2 PFSS\_0072 - Open a secure pipe session with the FS control service for the FSA1 accessor

_		India and
Procedure		PFSS_0072
identification		
Procedure		The other host shall be able to open a pipe session to the FS control service gate of the
object	ives	SSP host on the behalf of the FSA1 accessor.
_		If the procedure is successful then a pipe session is open between the FS control
		application in the other host and the FS control service in the SSP host.
Config	guration	CFSS_004
refere		
		Initial conditions
The pr	ocedure PFSS	_0071 shall be successfully executed.
		Procedure sequence
Step	Description	-
1	Administration	n gate sends EVT_ADM_BIND to Administration gate in the SSP with:
	PIPE	EBA: a dynamically assigned pipe identifier for the File System service gate.
		E <sub>TEST</sub> : The dynamically assigned UUID gate identifier returned by AAS in PFSS_0071
	(eAS-ID-ASS-GateID_2).	
2	Administration	n gate sends EVT_ADM_BIND to Administration gate in the other host with a binding
	parameter equ	ual to:
	PIPE	FAB: a dynamically assigned pipe identifier for the file system application gate.
		ETEST: The dynamically assigned UUID gate identifier returned by AAS in PFSS_0071
(eAS-ID-ASS-GateID_2).		
		all be present in one of the binding parameters (see VNP [10]. If present then the
	procedure is s	
A secure pipe session is opened between the FSA1 accessor and the File System service ga		session is opened between the FSA1 accessor and the File System service gate.

## 6.6.2.7.3 PFSS\_0073 - Access to FS control service for FSA2 with secure pipe

Procedure		PFSS_0073
identification		
Procedure objectives		The Accessor Authentication application on the behalf of FSA2 accessor shall be able to access the FS control service from the Accessor Authentication service using an aAAS-OP-ACCESS-SERVICE-Service-Command.  The FS control service identifier is 366BD642-D7DE-584A-BD3B-A3DCE29FC075.
Config	guration	CFSS_005
reierei	iice	Initial conditions
The pr	ocedure PFSS	_0066 shall be successfully executed.
		Procedure sequence
Step	Description	
	Service-Communication aServiceI aUseSecure } ASN1STOP	command-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-ACCESS-SERVICE-mand : { dentifier eFS-ID-FSCS, ePipe TRUE
2	ASN1STAR aPFSS-0073-: Service-Res aAAS-Serv aParamete: aGateId: } } ASN1STOP The AAS retu System service	response-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-OP-ACCESS-SERVICE-ponse : { ice-Response eAAS-OK,

# 6.6.2.7.4 PFSS\_0074 - Open a secure pipe session with the FS control service for the FSA2 accessor

Droop	dura	DESC 0074
Procedure		PFSS_0074
identification		
Proce	dure	The other host shall be able to open a pipe session to the FS control service gate of the
object	ives	SSP host on the behalf of the FSA2 accessor.
		If the procedure is successful then a pipe session is open between the FS control
		application in the other host and the FS control service in the SSP host.
Config	guration	CFSS_005
refere	nce	
		Initial conditions
The pr	ocedure PFSS	_0073 shall be successfully executed.
		Procedure sequence
Step	Description	•
1	Administration	n gate sends EVT_ADM_BIND to Administration gate in the SSP with:
	<ul><li>PIPE</li></ul>	EBA: a dynamically assigned pipe identifier for the File System service gate.
	GAT	E <sub>TEST</sub> : The dynamically assigned UUID gate identifier returned by AAS in PFSS_0073
	(eAS-ID-ASS-GateID_3).	
2	Administration gate sends EVT_ADM_BIND to Administration gate in the other host with a binding	
	parameter eq	
	PIPEAB: a dynamically assigned pipe identifier for the file system application gate.	
	GATE <sub>TEST</sub> : The dynamically assigned UUID gate identifier returned by AAS in PFSS_0073	
	(eAS-ID-ASS-GateID_3).	
	GATE <sub>TEST</sub> shall be present in one of the binding parameters (see VNP [10]). If present then the	
	procedure is	• • • • • • • • • • • • • • • • • • • •
		e session is opened between the FSA2 accessor and the File System service gate.
	Iv secure bibe	s bession is opened between the FSA2 accessor and the File System service gate.

#### 6.6.2.8 PFSS\_008 - Create directories

#### 6.6.2.8.1 PFSS\_0081 - Create directory 1

```
Procedure identification
                               PFSS_0081
Procedure objectives
                                The File System Application shall be able to create a directory in the SSP file
                               system using FS-ADMIN-CREATE-NODE-Service-Command.
                                The objective is the creation of the directory 1
Configuration reference
                               CFFS_001
                                             Initial conditions
The procedure PFSS_0072 shall be successfully executed.
                                           Procedure sequence
       Description
Step
       FSCA gate sends aCreateDirectory1 to FSCS gate with:
        - ASN1START
       aCreateDirectory1 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-NODE-Service-Command
         aNodeDescriptor {
           aNodeName eFS-Name-directory1,
           aShortName eFS-ID-directory1,
           aNode aDirectory : {
           aACL {
               aAccessorIdentity eFS-ACC-FSA1, --FSA1
               aAccessorRights eFS-ACL-directory1
           }
       aNodeDirectoryIdentity aShortName eFS-ID-SSPFS
          ASN1STOP
       FSCS gate sends aCreateDirectory2Response to FSCA gate with:
        - ASN1START
       aCreateDirectory1Response FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-CREATE-NODE-
       Service-Response : {
         aFS-Service-Response eFS-OK
          ASN1STOP
```

## 6.6.2.8.2 PFSS\_0082 - Create directory 2

Procedure identification		PFSS_0082	
Proced	dure objectives	The File System Application shall be able to create a directory in the SSP file	
		system using FS-ADMIN-CREATE-NODE-Service-Command.	
		The objective is the creation of the directory 2	
Config	uration reference	CFFS_001	
		Initial conditions	
The pro	ocedure PFSS_0072 shall be	e successfully executed.	
		Procedure sequence	
Step	Description		
1	FSCA gate sends aCreatel	Directory2 to FSCS gate with:	
	ASN1START		
	_	ONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-NODE-Service-Command	
	: {		
	aNodeDescriptor {     aNodeName eFS-Name-	directory	
	aShortName eFS-ID-o		
	aNode aDirectory:	<u>.                                     </u>	
	},		
	aACL {		
	{		
		ty eFS-ACC-FSA1,FSA1	
	aAccessorRights	s eFS-ACL-directory2	
	}		
	}.		
	aNodeDirectoryIdentity	aShortName eFS-ID-SSPFS	
	}		
	ASN1STOP		
2	2 FSCS gate sends aCreateDirectory2Response to FSCA gate with:		
	ASN1START	THE COMPANY CHANGE CAME DANGE AND ALL ADD ADMIN CHANGE NODE	
	Service-Response : {	nse FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-CREATE-NODE-	
	aFS-Service-Response	eFS-OK	
	}		
	ASN1STOP		

## 6.6.2.8.3 PFSS\_0083 - Create directory 3

Proced	dure identification	PFSS_0083	
Procedure objectives		The File System Application shall be able to create a directory in the SSP file	
	-	system using FS-ADMIN-CREATE-NODE-Service-Command.	
		The objective is the creation of the directory 3	
Confid	uration reference	CFFS 001	
	•	Initial conditions	
he pr	ocedure PFSS_0072 shall b	e successfully executed.	
	ocedure PFSS_0081 shall b		
	<del>_</del>	Procedure sequence	
Step	Description	•	
1	FSCA gate sends aCreatel	Directory3 to FSCS gate with:	
	ASN1START	,	
	aCreateDirectory3 FS-C	${ t ONTROL-SERVICE-GATE-Commands}::= { t afs-ADMIN-CREATE-NODE-Service-Command}$	
	: {		
	aNodeDescriptor {		
	aNodeName eFS-Name	<u> </u>	
aShortName eFS-ID-directory3,		<b>-</b> ,	
	aNode aDirectory : { }, aACL {		
	{		
aAccessorIdentity eFS-ACC-FSA1,FSA1 aAccessorRights eFS-ACL-directory3			
	aaccessorright;	s ers-Act-directorys	
	1		
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	aNodeDirectoryIdentity	aShortName eFS-ID-directory1	
	}	•	
	ASN1STOP		
2	FSCS gate sends aRespor	nse to FSCA gate with:	
	ASN1START		
aResponse FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-CREATE-NODE-Service-Response		- · · · · · · · · · · · · · · · · · · ·	
	aFS-Service-Response	eFS-OK	
	}		
	ASN1STOP		

## 6.6.2.8.4 PFSS\_0084 - Create directory 4

Procedure identification		PFSS_0084	
Proce	dure objectives	The File System Application shall be able to create a directory in the SSP file	
	•	system using FS-ADMIN-CREATE-NODE-Service-Command.	
		The objective is the creation of the directory 4	
Config	guration reference	CFFS_001	
		Initial conditions	
The pr	ocedure PFSS_0072 shall	be successfully executed.	
The pr	ocedure PFSS_0083 shall	be successfully executed.	
		Procedure sequence	
Step	Description		
1	FSCA gate sends aCreat	eDirectory4 to FSCS gate with:	
	ASN1START		
		CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-NODE-Service-Command	
	: {    aNodeDescriptor {		
	aNodeDescriptor {    aNodeName eFS-Nam	ne-directory4	
	aShortName eFS-II	• '	
	aNode aDirectory	• <i>'</i>	
	},	(	
	aACL {		
	{		
		tity eFS-ACC-FSA1,FSA1	
	aAccessorRigh	ts eFS-ACL-directory4	
	}		
	}		
	<pre>}, aNodeDirectoryIdentit</pre>	y aShortName eFS-ID-directory3	
	}	y abhorewame erb ib directorys	
	ASN1STOP		
2	FSCS gate sends aCreat	eDirectory4Response to FSCA gate with:	
	ASN1START		
		onse FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-CREATE-NODE-	
	Service-Response : {		
	aFS-Service-Respons	se eFS-OK	
	} ASN1STOP		
	ADNISIUP		

#### 6.6.2.9 PFSS\_009 - Create files

#### 6.6.2.9.1 PFSS\_0091 - Create file 1

```
Procedure
                   PFSS_0091
identification
Procedure
                    The File System Application shall be able to create a file 1 in the SSP file system using
objectives
                   FS-ADMIN-CREATE-NODE-Service-Command.
Configuration
                   CFFS_001
reference
                                         Initial conditions
The procedure PFSS_0083 shall be successfully executed.
                                       Procedure sequence
Step
      Description
       FSCA gate sends aCreateFile1 to FSCS gate with:
        -- ASN1START
       aCreateFile1 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-NODE-Service-
       Command : {
        aNodeDescriptor {
           aNodeName eFS-Name-file1,
           aShortName eFS-ID-file1,
           aNode aFile : {
             aFileSize aSizeFile1
           aACL {
             {
               aAccessorIdentity eFS-ACC-FSA1,
               aAccessorRights eFS-ACL-file1
           }
         aNodeDirectoryIdentity aShortName eFS-ID-SSPFS
          ASN1STOP
  2
      FSCS gate sends aCreateFile1Response to FSCA gate with:
        - ASN1START
       aCreateFile1Response FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-CREATE-NODE-
       Service-Response : {
        aFS-Service-Response eFS-OK
          ASN1STOP
```

## 6.6.2.9.2 PFSS\_0092 - Create file 2

Procedure		PFSS 0092	
identification			
Procedure		The File System Application shall be able to create a file 2 in the SSP file system using	
objectives		FS-ADMIN-CREATE-NODE-Service-Command.	
Config	uration	CFFS_001	
refere	nce	_	
		Initial conditions	
The pro	ocedure PFSS	_0081 shall be successfully executed.	
		Procedure sequence	
Step	Description		
1	FSCA gate se	nds aCreateFile2 to FSCS gate with:	
	ASN1START		
		Properties 2 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-NODE-Service-	
	Command : {	days t	
	aNodeDesci	riptor { ne eFS-Name-file2,	
	aShortName eFS-ID-file2, aNode aFile : {		
	aFileSize aSizeFile2		
	},		
	aACL {		
	{		
		cessorIdentity eFS-ACC-FSA1,	
	aAccessorRights eFS-ACL-file2		
	}		
	}		
	aNodeDirec	ctoryIdentity aShortName eFS-ID-directory1	
	}	scorfidencial application of the directory.	
	ASN1STOP		
2	FSCS gate se	nds aCreateFile2Response to FSCA gate with:	
	ASNISTART		
	aCreateFile2Response FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-CREATE-NODE-		
	Service-Resp		
	aFS-Servic	ce-Response eFS-OK	
	A SM1 STOP		
	ASN1STOP		

## 6.6.2.9.3 PFSS\_0093 - Create file 3

Procedure		PFSS 0093	
identification			
Procedure		The File System Application shall be able to create a file 3 in the SSP file system using	
object	ives	FS-ADMIN-CREATE-NODE-Service-Command.	
Config	uration	CFFS_001	
refere	nce		
		Initial conditions	
The pro	ocedure PFSS	_0084 shall be successfully executed.	
		Procedure sequence	
Step	Description		
1	FSCA gate se	ends aCreateFile3 to FSCS gate with:	
	ASN1START		
	_	FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-NODE-Service-	
	Command : {		
	aNodeDescriptor {    aNodeName eFS-Name-file3,		
		·	
	<pre>aShortName eFS-ID-file3, aNode aFile : {</pre>		
	aFileSize aSizeFile3		
	},		
	aACL {		
	{		
aAccessorIdentity eFS-ACC-FSA1,			
aAccessorRights eFS-ACL-file3		cessorRights eFS-ACL-file3	
}			
}			
	aNodeDirec	ctoryIdentity aShortName eFS-ID-directory2	
	}		
	ASN1STOP		
2	FSCS gate se	ends aCreateFile6Response to FSCA gate with:	
	ASN1START		
		SResponse FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-CREATE-NODE-	
Service-Res			
	aFS-Servic	ce-Response eFS-OK	
} ASN1STOP			
	ADMIDIOP		

## 6.6.2.9.4 PFSS\_0094 - Create file 4

Procedure		PFSS 0094	
identification			
Procedure		The File System Application shall be able to create a file 4 in the SSP file system using	
objectives		FS-ADMIN-CREATE-NODE-Service-Command.	
Config	uration	CFFS_001	
referer			
		Initial conditions	
The pro	ocedure PFSS	_0084 shall be successfully executed.	
		Procedure sequence	
Step	Description	·	
1	FSCA gate se	ends aCreateFile4 to FSCS gate with:	
	ASN1START		
		4 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-NODE-Service-	
	Command : {		
	aNodeDesci		
	aNodeName eFS-Name-file4,		
	aShortName eFS-ID-file4,		
	aNode al		
	aFileSize aSizeFile4		
	},		
	aACL {		
	{	71 111 70 200 7021	
		cessorIdentity eFS-ACC-FSA1,	
	aAcc	cessorRights eFS-ACL-file4	
	}		
}			
},		about doubles a Chartellana and To discontinuo	
	aNodeDirectoryIdentity aShortName eFS-ID-directory2		
	}		
	ASN1STOP		
2	FSCS gate se	ends aCreateFile4Response to FSCA gate with:	
	ASN1START	•	
	aCreateFile4	4Response FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-CREATE-NODE-	
	Service-Resp	ponse : {	
	aFS-Servic	ce-Response eFS-OK	
	}		
	ASN1STOP		
	· · · · · · · · · · · · · · · · · · ·		

## 6.6.2.9.5 PFSS\_0095 - Create file 5

Procedure		PFSS_0095		
identification				
Procedure		The File System Application shall be able to create a file 5 in the SSP file system using		
objectives		FS-ADMIN-CREATE-NODE-Service-Command.		
Config	uration	CFFS_001		
refere	nce			
		Initial conditions		
The pro	ocedure PFSS	_0083 shall be successfully executed.		
		Procedure sequence		
Step	Description	<u> </u>		
1	FSCA gate se	nds aCreateFile5 to FSCS gate with:		
	ASN1STAR			
		FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-NODE-Service-		
	Command : {			
	aNodeDesci			
		ne eFS-Name-file5,		
		ame eFS-ID-file5,		
	aNode al			
	aFileSize aSizeFile5			
	}, aACL {			
	aaci (			
	aAco	cessorIdentity eFS-ACC-FSA1,		
		ressorRights eFS-ACL-file5		
}				
	} `			
	},	},		
	aNodeDire	ctoryIdentity aShortName eFS-ID-directory3		
	}			
	3 GNT1 GEOR			
2	ASN1STOP	ando aCroataFila1Baananaa ta ESCA gata with:		
	ASN1STAR	ends aCreateFile1Response to FSCA gate with:		
		FRESPONSE FS-CONTROL-SERVICE-GATE-RESPONSES ::= aFS-ADMIN-CREATE-NODE-		
	Service-Res	·		
	_	ce-Response eFS-OK		
	}	se response ero on		
	ASN1STOP			

## 6.6.2.9.6 PFSS\_0096 - Create file 6

Procedure		PFSS 0096	
identification			
Procedure		The File System Application shall be able to create a file 6 in the SSP file system using	
objecti	ives	FS-ADMIN-CREATE-NODE-Service-Command.	
	uration	CFFS 001	
referer		6.1.6_50.	
1010101	100	Initial conditions	
The pro	cedure PESS	_0084 shall be successfully executed.	
mo pro	<u> </u>	Procedure sequence	
Step	Description	1 locedule sequence	
1		nds aCreateFile6 to FSCS gate with:	
'	ASN1START		
		5 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-NODE-Service-	
	Command : {	FIS CONTROL SERVICE GATE COMMINANCE - APS ADMIN CREATE NODE SERVICE	
	aNodeDescr	riptor {	
		ne eFS-Name-file6,	
	aShortName eFS-ID-file6,		
	aNode aFile : {		
	aFileSize aSizeFile6		
},			
	aACL {		
	{		
		cessorIdentity eFS-ACC-FSA1,	
	aAccessorRights eFS-ACL-file6		
}			
}			
},		about Thought to a Chart Name and TD discount of	
	aNodeDirec	ctoryIdentity aShortName eFS-ID-directory4	
	}		
	ASN1STOP		
2		ends aCreateFile6Response to FSCA gate with:	
_	ASN1START		
		FRESPONSE FS-CONTROL-SERVICE-GATE-RESPONSES ::= aFS-ADMIN-CREATE-NODE-	
	Service-Resp	·	
		ce-Response eFS-OK	
	}		
	ASN1STOP		

## 6.6.2.9.7 PFSS\_0097 - Create link 1

Procedure		PFSS_0097	
identification			
Procedure		The File System Application shall be able to create a link 1 in the SSP file system using	
objectives		FS-ADMIN-CREATE-NODE-Service-Command.	
Config	uration	CFFS_001	
refere	nce		
		Initial conditions	
The pr	ocedure PFSS	_0082 shall be successfully executed.	
The pr	ocedure PFSS	_0091 shall be successfully executed.	
		Procedure sequence	
Step	Description		
1	FSCA gate se	nds aCreateLink1 to FSCS gate with:	
	ASN1START	r -	
		FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-NODE-Service-	
	Command : {		
	aNodeDescr	-	
		ne eFS-Name-link1,	
	aShortName eFS-ID-link1,		
aNode aLink : {			
		edFileIdentity aShortName eFS-ID-file1,	
	aLinke	edFileSize 10	
	}		
<pre>}, aNodeDirectoryIdentity aNodeReference : {</pre>		ntowyldontity aNodoDeforence : \	
	eFS-Name		
		e-directory2	
	}	4220001/2	
	} '		
	ASN1STOP		
2	FSCS gate se	nds aCreateLink1Response to FSCA gate with:	
	ASN1START	T. T	
aCreateLink:		Response FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-CREATE-NODE-	
Service-Res		ponse : {	
	aFS-Servic	ce-Response eFS-OK	
	}		
	ASN1STOP		

## 6.6.2.9.8 PFSS\_0098 - Create file 7

Procedure identification  Procedure The File System Application shall be able to create a file 7 in the SSP file system updated by the SSP file system upda	sing	
objectives FS-ADMIN-CREATE-NODE-Service-Command.  Configuration reference  Initial conditions  The procedure PFSS_0083 shall be successfully executed.  Procedure sequence  Step Description  1 FSCA gate sends aCreateFile7 to FSCS gate with:  ASN1START     aCreateFile7 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-NODE-Service-Command : {         aNodeDescriptor {             aNodeDescriptor {                 aNodeName eFS-Name-file7,	sing	
objectives   FS-ADMIN-CREATE-NODE-Service-Command.		
Initial conditions  The procedure PFSS_0083 shall be successfully executed.  Procedure sequence  Step Description  1 FSCA gate sends aCreateFile7 to FSCS gate with:  ASN1START  aCreateFile7 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-NODE-Service-Command : {  aNodeDescriptor {  aNodeDescriptor {  aNodeDescriptor {  aNodeName eFS-Name-file7,  aShortName eFS-ID-file7, }		
Initial conditions  The procedure PFSS_0083 shall be successfully executed.  Procedure sequence  Step Description  1 FSCA gate sends aCreateFile7 to FSCS gate with: ASN1START aCreateFile7 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-NODE-Service-Command : {     aNodeDescriptor {         aNodeDescriptor {             aNodeDescriptor file7,             aShortName eFS-ID-file7,         }		
The procedure PFSS_0083 shall be successfully executed.  Procedure sequence  Step Description  1 FSCA gate sends aCreateFile7 to FSCS gate with: ASN1START aCreateFile7 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-NODE-Service-Command : {     aNodeDescriptor {         aNodeDescriptor {             aNodeName eFS-Name-file7,             aShortName eFS-ID-file7,             }		
Procedure sequence  Step Description  1 FSCA gate sends aCreateFile7 to FSCS gate with: ASN1START aCreateFile7 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-NODE-Service-Command : {     aNodeDescriptor {         aNodeName eFS-Name-file7,             aShortName eFS-ID-file7,     }		
<pre>Step Description  1   FSCA gate sends aCreateFile7 to FSCS gate with:</pre>		
1 FSCA gate sends aCreateFile7 to FSCS gate with: ASN1START aCreateFile7 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-NODE-Service-Command : {    aNodeDescriptor {    aNodeName eFS-Name-file7,    aShortName eFS-ID-file7,		
ASNISTART  aCreateFile7 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-NODE-Service-Command : {  aNodeDescriptor {  aNodeName eFS-Name-file7,  aShortName eFS-ID-file7,		
aCreateFile7 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-NODE-Service-Command : {    aNodeDescriptor {     aNodeName eFS-Name-file7,     aShortName eFS-ID-file7,		
<pre>Command : {   aNodeDescriptor {    aNodeName eFS-Name-file7,    aShortName eFS-ID-file7,</pre>		
aNodeDescriptor {    aNodeName eFS-Name-file7,    aShortName eFS-ID-file7,		
aNodeName eFS-Name-file7, aShortName eFS-ID-file7,		
aShortName eFS-ID-file7,		
aNodo aFilo : (		
aNode aFile : {     aFileSize aSizeFile7		
arilesize asizerile/ },		
aACL {		
aAccessorIdentity eFS-ACC-FSA1,		
aAccessorRights eFS-ACL-file7		
}		
}		
},		
aNodeDirectoryIdentity aShortName eFS-ID-SSPFS		
I and the second		
ASN1STOP		
2 FSCS gate sends aCreateFile7Response to FSCA gate with:		
ASN1START		
aCreateFile7Response FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-CREATE-NODE-	-	
Service-Response : {		
aFS-Service-Response eFS-OK		
}		
ASN1STOP		

### 6.6.2.9.9 PFSS\_0099 - Create file 8

Procedure		PFSS_0099
identification		
Procedure		The File System Application shall be able to create a file 8 in the SSP file system using
objectives		FS-ADMIN-CREATE-NODE-Service-Command.
Config	guration	CFFS_001
refere	nce	
		Initial conditions
The pro	ocedure PFSS	_0084 shall be successfully executed.
		Procedure sequence
Step	Description	
1	FSCA gate se	ends aCreateFile8 to FSCS gate with:
	ASN1STAR	Г
		8 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-NODE-Service-
	Command : {	
	aNodeDesci	- •
		me eFS_Name-file8,
		ame eFS-ID-file8, File : {
		Size aSizeFile8
	},	0110
	aMetaDat	ta {
	{	·
	aTyr	peDatum eOID,
		ta OCTET STRING : '00'H
	}	
	},	
aACL {		
	{	71
		cessorIdentity eFS-ACC-FSA1,
	aaco	cessorRights eFS-ACL-file8
	}	
	},'	
	, ,	ctoryIdentity aShortName eFS-ID-directory4
	}	
	ASN1STOP	
2	ASN1STAR	
	aCreateFile?	2Response FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-CREATE-NODE-
	Service-Resp	
	aFS-Servi	ce-Response eFS-OK
}		
	ASN1STOP	

## 6.6.3 Test descriptions

### 6.6.3.1 Create node

## 6.6.3.1.1 FSS\_0011 - Create directory and file

Test identification	FSS_0011	
Test objectives  The File System Application shall be able to create a directory and a file node in the file system using FS-ADMIN-CREATE-NODE-Service-Command. The SSP file system using FS-ADMIN-created in a NodeDescriptor and compute it.		
Configuration	CFFS_001	
reference		
Initial conditions		
The procedure PFSS_0072 is successfully executed.		
directory 1 is not created		
ile2 is not created		

	Test sequence	
Step	Description	Requirements
1	FSCA gate sends aFSS-0011-command-01 to FSCS gate with:	
	ASN1START aFSS-0011-command-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-	
	CREATE-NODE-Service-Command : {	
	aNodeDescriptor {	
	aNodeName eFS-Name-directory1, aShortName eFS-ID-directory1,	
	aNode aDirectory : {	
	},	
	aACL {	
	{     aAccessorIdentity eFS-ACC-FSA1,	
	aAccessorRights eFS-ACL-directory1	
	}	
	}	
	aNodeDirectoryIdentity aNodeReference : {	
	eFS-Name-SSPFS	
	ASN1STOP	
2	FSCS gate sends aFSS-0011-response-01 to FSCA gate with:	RQ0606_017
	ASN1START	RQ0606_023
	aFSS-0011-response-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN- CREATE-NODE-Service-Response : {	RQ0606_036
	aFS-Service-Response eFS-OK	RQ0606_037
	}	RQ0606_040
	ASN1STOP	
3	FSCA gate sends aFSS-0011-command-02 to FSCS gate with:  ASN1START	
	aFSS-0011-command-02 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-	
	CREATE-NODE-Service-Command : {	
	aNodeDescriptor {    aNodeName eFS-Name-file2,	
	aShortName eFS-ID-file-fake,	
	aNode aFile : {	
	aFileSize aSizeFile2 },	
	aACL {	
	{	
	aAccessorIdentity eFS-ACC-FSA1,	
	aAccessorRights eFS-ACL-file2	
	}	
	},	
	aNodeDirectoryIdentity aShortName eFS-ID-directory2	
<u> </u>	ASNISTOP	D00000 222
4	FSCS gate sends aFSS-0011-response-02 to FSCA gate with: ASN1START	RQ0606_036
	aFSS-0011-response-02 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-	RQ0606_037 RQ0606_040
	CREATE-NODE-Service-Response : {	1140000_040
	aFS-Service-Response eFS-OK	
	ASN1STOP	
5	FSCA gate sends aFSS-0011-command-03 to FSCS gate with:	
	ASN1START	
	aFSS-0011-command-03 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-NODE-GET-INFO-Service-Command : {	
	aNodeIdentity aNodeReference : {	
	eFS-Name-SSPFS,	
	eFS-Name-directory1,	
	eFS-Name-file2 },	
	aRequestType eRequestTypeDEF	
	}	
	ASN1STOP	

```
FSCS gate sends aFSS-0011-response-03 to FSCA gate with:
                                                                          RQ0606_007
-- ASN1START
                                                                          RQ0606_038
aFSS-0011-response-03 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-NODE-
GET-INFO-Service-Response : {
aFS-Service-Response eFS-OK,
 aParameter {
   aNodeDescriptorList {
        aNodeName eFS-Name-file2,
        aShortName eFS-ID-file2,
        aNode aFile : {
         aFileSize aSizeFile2
        aACL {
         {
            aAccessorIdentity eFS-ACC-FSA1,
            aAccessorRights eFS-ACL-file2
 }
   ASN1STOP
```

#### 6.6.3.1.2 FSS\_0012 - Create link

Test identification		FSS_0012		
Test o	bjectives	The File System Application shall be able to create a link node in the SSP file system		
		using FS-ADMIN-CREATE-NODE-Service-Command.	-	
Config	juration	CFFS_001		
referer	nce			
		Initial conditions		
The pro	ocedure PFSS	_0082 is successfully executed.		
The pro	ocedure PFSS	_0091 is successfully executed.		
link1 is	not created.	·		
		Test sequence		
Step	Description	•	Requirements	
1	FSCA gate se	ends aFSS-0012-command-01 to FSCS gate with:	-	
	ASN1STAR			
		ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-		
		-Service-Command : {		
	aNodeDesci			
		me eFS-Name-link1,		
		ame eFS-ID-link1,		
		Link : {		
		edFileIdentity aShortName eFS-ID-file1, edFileSize 8		
	)	eurileSize o		
	}.			
	aNodeDire	ctoryIdentity aNodeReference : {		
		e-SSPFS,		
	eFS-Name	e-directory2		
	}			
	}			
	ASN1STOP			
2		ends aFSS-0012-response-01 to FSCA gate with:	RQ0606_017	
	ASN1STAR		RQ0606_023	
	aFSS-0012-response-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-		RQ0606_036	
CREATE-NODE-Service-Response : {     aFS-Service-Response eFS-OK		- `	RQ0606_037	
	ars-servic	ce-kesponse ers-Ok	RQ0606_040	
	} ASN1STOP			
	ADIVIDIOE			

```
FSCA gate sends aFSS-0012-command-02 to FSCS gate with:
     -- ASN1START
    aFSS-0012-command-02 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-
    OPEN-Service-Command : {
       aNodeIdentity aNodeReference : {
        eFS-Name-SSPFS,
        eFS-Name-directory2,
        eFS-Name-link1
      aAccessMode eReadAccessMode
       ASN1STOP
    FSCS gate sends aFSS-0012-response-02 to FSCA gate with:
                                                                               RQ0606_056
     - ASN1START
    aFSS-0012-response-02 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-
    OPEN-Service-Response : {
      aFS-Service-Response eFS-OK,
      aParameter {
        aSessionID aSessionID_1 /*<STORE(aSessionID_1)>*/
      - ASN1STOP
5
    FSCA gate sends aFSS-0012-command-03 to FSCS gate with:
      - ASN1START
    aFSS-0012-command-03 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-
    READ-Service-Command : {
      aSessionID aSessionID_1, /*<REPLACE(aSessionID_1)>*/
      aOffset 0,
      aNumberOfBytes 0
       ASN1STOP
6
    FSCS gate sends aFSS-0012-response-03 to FSCA gate with:
                                                                               RQ0606_005
     - ASN1START
                                                                               RQ0606_039
    aFSS-0012-response-03 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-
    FILE-READ-Service-Response : {
      aFS-Service-Response eFS-OK,
      aParameter {
        aSessionID_1, /*<REPLACE(aSessionID_1)>*/
        aData '0102030405'H
       ASN1STOP
```

#### 6.6.3.2 Read file

#### 6.6.3.2.1 FSS\_0021 - Read file through Control Pipe

Test identification F		FSS_0021			
Test o	bjectives	The File System Application shall be able to open a file from the SSP file system. FILE-OPEN-Service-Command, to read a file using FS-OP-FILE-READ-Servicelose the file using aFS-OP-FILE-CLOSE-Service-Command.			
Config	guration	CFFS_001			
refere	nce				
		Initial conditions			
The pr	ocedure PFSS	_0091 is successfully executed.			
		Test sequence			
Step	Description		Requirements		
1	FSCA gate se	ends aFSS-0021-command-01 to FSCS gate with:			
	ASN1STAR	Γ			
	aFSS-0021-cor	nmand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-OPEN-			
	Service-Com	mand : {			
	aNodeIdentity aShortName eFS-ID-file1,				
aAccessMode		de eReadAccessMode			
	}				
	ASN1STOP				

```
FSCS gate sends aFSS-0021-response-01 to FSCA gate with:
                                                                                     RQ0606 018
     - ASN1START
                                                                                     RQ0606 021
    aFSS-0021-response-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-OPEN-
                                                                                     RQ0606_026
    Service-Response : {
                                                                                     RQ0606_054
      aFS-Service-Response eFS-OK,
                                                                                     RQ0606 055
      aParameter {
                                                                                     RQ0606_058
        aSessionID aSessionID_1 /*<STORE(aSessionID_1)>*/
      ASN1STOP
3
    FSCA gate sends aFSS-0021-command-02 to FSCS gate with:
      - ASN1START
    aFSS-0021-command-02 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-READ-
    Service-Command :
      aSessionID aSessionID_1, /*<REPLACE(aSessionID_1)>*/
      aNumberOfBytes 5
    FSCS gate sends aFSS-0021-response-02 to FSCA gate with:
                                                                                     RQ0606_004
     - ASN1START
                                                                                     RQ0606_057
    aFSS-0021-response-02 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-READ-
                                                                                     RQ0606_068
    Service-Response : {
                                                                                     RQ0606_070
      aFS-Service-Response eFS-OK,
                                                                                     RQ1003_006
      aParameter {
        aSessionID aSessionID_1, /*<REPLACE(aSessionID_1)>*/
        aData '0102030405'H
      }
       ASN1STOP
    FSCA gate sends aFSS-0021-command-03 to FSCS gate with:
     - ASN1START
    aFSS-0021-command-03 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-CLOSE-
    Service-Command :
      aSessionID aSessionID_1 /*<REPLACE(aSessionID_1)>*/
6
    FSCS gate sends aFSS-0021-response-03 to FSCA gate with:
                                                                                     RQ0606 059
     -- ASN1START
                                                                                     RQ0606_061
    aFSS-0021-response-03 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-
    CLOSE-Service-Response : {
      aFS-Service-Response eFS-OK
      - ASN1STOP
```

#### 6.6.3.2.2 FSS\_0022 - Read file through Data Pipe

Test ic	lentification	FSS_0022	·
Test objectives		The File System Application shall be able to read a file from the SSP file sys	tem through File
		System Data Pipe using FS-OP-FILE-READ-Service-Command.	
		If there is a pipe session associated with the aSessionID, the SSP file system	
		this pipe session when FS-OP-FILE-CLOSE-Service-Command is successful	اد
Config	uration	CFFS 002	
refere	nce		
		Initial conditions	
The pr	ocedure PFSS	_0095 is successfully executed.	
		Test sequence	
Step	Description		Requirements
1	FSCA gate se	ends aFSS-0022-command-01 to FSCS gate with:	
	ASN1STAR	T	
	aFSS-0022-coi	mmand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-OPEN-	
	Service-Com	mand : {	
	aNodeIden	tity aShortName eFS-ID-file5,	
		de eReadAccessMode,	
	aGateID '	863391838CF658C28142D53611D52F12'H	
	}		

3	FSCS gate sends aFSS-0022-response-01 to FSCA gate with:  ASN1START  aFSS-0022-response-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-OPEN-Service-Response : {     aFS-Service-Response eFS-OK,     aParameter {         aSessionID aSessionID_1 /* <store(asessionid_1)>*/     } } ASN1STOP Pipe session is opened between the FSDS gate and the FSDA gate by using the 86339183-8cf6-58c2-8142-d53611d52f12 gate identifier.  FSCA gate sends aFSS-0022-command-02 to FSCS gate with: ASN1START</store(asessionid_1)>	RQ0606_017 RQ0606_018 RQ0606_021 RQ0606_026 RQ0606_054 RQ0606_055 RQ0606_058 RQ1003_015 RQ1003_016
	aFSS-0022-command-02 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-READ-Service-Command : {     aSessionID aSessionID_1, /* <replace(asessionid_1)>*/     aOffset 0,     aNumberOfBytes 5 }</replace(asessionid_1)>	
	ASN1STOP	
4	FSDS gate sends a stream with the content of file5 to FSDA gate	ļ
5	Administration gate send an acknowledgement about receiving the content of file5 to administration gate in SCL host in the SSP host domain.	
6	FSCS gate sends aFSS-0022-response-02 to FSCA gate with: ASN1START aFSS-0022-response-02 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-READ-Service-Response : {    aFS-Service-Response eFS-OK } ASN1STOP	RQ0606_068 RQ0606_071
7	FSCA gate sends aFSS-0022-command-03 to FSCS gate with: ASN1START aFSS-0022-command-03 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-CLOSE-Service-Command : {    aSessionID aSessionID_1 /* <replace(asessionid_1)>*/ } ASN1STOP</replace(asessionid_1)>	
8	FSCS gate sends aFSS-0022-response-03 to FSCA gate with: ASN1START aFSS-0022-response-03 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-CLOSE-Service-Response : {     aFS-Service-Response eFS-OK } ASN1STOP	RQ0606_059 RQ0606_061 RQ0606_075
9	FSCA gate sends aFSS-0022-command-04 to FSCS gate with:  ASN1START  aFSS-0022-command-04 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-READ-Service-Command : {    aSessionID aSessionID_1, /* <replace(asessionid_1)>*/    aOffset 0,    aNumberOfBytes 5 } ASN1STOP</replace(asessionid_1)>	
10	FSCS gate sends aFSS-0022-response-04 to FSCA gate with: ASN1START aFSS-0022-response-04 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-READ-Service-Response : {     aFS-Service-Response eFS-BAD-SESSSION-ID } ASN1STOP	RQ0606_062

#### 6.6.3.2.3 FSS\_0023 - Read file with long name from file tree hierarchy

Test ic	dentification	FSS 0023	
	bjectives	The File System shall support a tree of nodes with a minimum height of 5.	
		A node file'filelongfilename' is created under 'SSPFS:directory1:directory3:d	tory4'.
		UUID: 57c73c00-5fea-5db2-b93e-92dd5691d270 from	
		urn:SSPFS:directory1:directory3:directory4:filelongfilename	
		The node file is write then read	
	guration	CFFS_001	
refere	nce		
<del>-</del> .	. 5500	Initial conditions	
The pr	ocedure PFSS	_0084 is successfully executed.	
<u> </u>	<b>D</b>	Test sequence	In
Step	Description		Requirements
1	ASN1STAR	ends aFSS-0023-command-01 to FSCS gate with:	
		ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-CREATE-	
		e-Command : {	
	aNodeDesc:	riptor {	
		me eFS-Name-filelongfilename,	
		ame eFS-ID-filelongfilename, File : {	
		Size aSizeFileLF	
	},		
	aACL {		
	} aAc	cessorIdentity eFS-ACC-FSA1,	
		cessoridentity ers-Acc-rsar, cessorRights eFS-ACL-filelongfilename	
	}		
	}		
	},	gtowyldontity oModoDoforongo : [	
		ctoryIdentity aNodeReference : { e-SSPFS,	
		e-directory1,	
		e-directory3,	
	eFS-Nam	e-directory4	
	}		
	ASN1STOP		
2	FSCS gate se	ends aFSS-0023-response-01 to FSCA gate with:	
	ASN1STAR	T	
		esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-CREATE-	
		e-Response : { ce-Response eFS-OK	
	}	ce response erb or	
	ASN1STOP		
3	FSCA gate se	ends aFSS-0023-command-02 to FSCS gate with:	
	ASN1STAR	_	
	Service-Com	mmand-02 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-OPEN-	
		tity aShortName : eFS-ID-filelongfilename,	
		de eWriteAccessMode}	
	ASN1STOP	,	
4		ends aFSS-0023-response-02 to FSCA gate with:	RQ0606_011
	ASN1STAR		RQ0606_018
	Service-Res	ponse-02 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-OPEN-	RQ0606_021
		ce-Response eFS-OK,	RQ0606_026
	aParamete:	r {	RQ0606_054 RQ0606_055
	aSession	nID aSessionID_1 /* <store(asessionid_1)>*/</store(asessionid_1)>	RQ0606_058
	}		1.00000_000
	ASN1STOP		
5		ends aFSS-0023-command-03 to FSCS gate with:	
	ASN1STAR	T	
		ommand-03 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-WRITE-	
	Service-Com	· · · · · · · · · · · · · · · · · · ·	
	aSessionII aOffset 0	D aSessionID_1, /* <replace(asessionid_1)>*/</replace(asessionid_1)>	
		, aData : '666666666'Н	
			1
	}		

```
FSCS gate sends aFSS-0023-response-03 to FSCA gate with:
     -- ASN1START
    aFSS-0023-response-03 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-
    WRITE-Service-Response : {
      aFS-Service-Response eFS-OK,
      aParameter {
        aSessionID aSessionID_1 /*<REPLACE(aSessionID_1)>*/
       ASN1STOP
    FSCA gate sends aFSS-0023-command-04 to FSCS gate with:
      - ASNISTART
    aFSS-0023-command-04 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-READ-
    Service-Command :
      aSessionID aSessionID_1,
      aOffset 2
       ASN1STOP
    FSCS gate sends aFSS-0023-response-04 to FSCA gate with:
                                                                                      RQ0606_008
     -- ASN1START
                                                                                      RQ0606_057
    aFSS-0023-response-04 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-READ-
                                                                                      RQ0606_068
    Service-Response : {
                                                                                      RQ0606_070
      aFS-Service-Response eFS-OK,
                                                                                      RQ1003_006
      aParameter {
        aSessionID aSessionID_1,
        aData '666666'H
       ASN1STOP
    FSCA gate sends aFSS-0023-command-05 to FSCS gate with:
     -- ASN1START
    aFSS-0023-command-05 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-CLOSE-
    Service-Command :
      aSessionID aSessionID_1 /*<REPLACE(aSessionID_1)>*/
10
    FSCS gate sends aFSS-0023-response-05 to FSCA gate with:
                                                                                      RQ0606_059
      - ASN1START
                                                                                      RQ0606_061
    aFSS-0023-response-05 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-CLOSE-
    Service-Response : {
      aFS-Service-Response eFS-OK
      - ASN1STOP
```

## 6.6.3.2.4 FSS\_0024 - Read file through a Secured Control Pipe

	Test identification FSS_0024			
Test o	bjectives	The File System Application shall be able to read a file from the SSP file system	using FS-OP-	
Confid	uration	FILE-OPEN-Service-Command, even if the file requires secure pipe.		
refere		CFFS_001		
1010101		Initial conditions		
The pro	ocedure PFSS	_0098 is successfully executed.		
		Test sequence	_	
Step	Description	1. 700 000	Requirements	
1	ASN1START	ends aFSS-0024-command-01 to FSCS gate with:		
		nmand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-OPEN-		
	Service-Command : {			
		rity aShortName eFS-ID-file7, de eReadAccessMode		
	}	e eneduaccessifue		
	ASN1STOP			
2	FSCS gate se	nds aFSS-0024-response-01 to FSCA gate with:	RQ0606_018	
		Donse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-OPEN-	RQ0606_021 RQ0606_025	
	Service-Resp	ponse : {	RQ0606_026	
	aFS-Servic	ce-Response eFS-OK,	RQ0606_054	
		nID aSessionID_1 /* <store(asessionid_1)>*/</store(asessionid_1)>	RQ0606_055	
	}		RQ0606_058	
	ASN1STOP			
3		nds aFSS-0024-command-02 to FSCS gate with:		
	ASN1START			
	aFSS-0024-con	nmand-02 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-READ-		
		D aSessionID_1, /* <replace(asessionid_1)>*/</replace(asessionid_1)>		
	aOffset 0,			
	aNumberOfF	Bytes 5		
	ASN1STOP			
4		nds aFSS-0024-response-02 to FSCA gate with:	RQ0606_057	
	ASN1START	Tesponse-02 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-READ-	RQ0606_068	
	Service-Resp		RQ0606_070 RQ1003_006	
		ce-Response eFS-OK,	11.000_000	
	aParameter aSession	f { nID aSessionID_1,    /* <replace(asessionid_1)>*/</replace(asessionid_1)>		
		D102030405'H		
	}			
	ASN1STOP			
5		nds aFSS-0024-command-03 to FSCS gate with:		
	ASN1START	T  nmand-03 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-CLOSE-		
	Service-Comm			
		aSessionID_1 /* <replace(asessionid_1)>*/</replace(asessionid_1)>		
	ASN1STOP			
6		nds aFSS-0024-response-03 to FSCA gate with:	RQ0606_059	
	ASNISTART		RQ0606_061	
		esponse-03 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-		
		ce-Response : { ce-Response eFS-OK		
	}			
	ASN1STOP			

#### 6.6.3.2.5 FSS\_0025 - Error when reading file without ReadContent access right

Test identification		FSS_0025			
Test objectives		The File System Application shall not be able to open a file for reading if no Rea	dContent access		
	•	right is granted to the accessor.			
Confi	guration	CFFS_001			
refere					
		Initial conditions			
The p	rocedure PFSS	_0093 is successfully executed.			
		Test sequence			
Step	Description	-	Requirements		
1	FSCA gate se	ends aFSS-0025-command-01 to FSCS gate with:			
	ASN1STAR				
	aFSS-0025-cor	nmand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-OPEN-			
	Service-Com	mand : {			
		· ·			
		ntity aNodeReference : {			
		e-SSPFS,			
		e-directory2,			
	eFS-Nam	e-file3			
	},				
	aAccessMo	de eReadAccessMode			
	}				
_	ASN1STOP				
2		ends aFSS-0025-response-01 to FSCA gate with:	RQ0606_018		
	ASN1STAR	_	RQ0606_021		
		esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-OPEN-	RQ0606_026		
	Service-Res		RQ0606_054		
	aFS-Servi	ce-Response eFS-ACL-RULES-VIOLATIONS	RQ0606 055		
	}		RQ0606 079		
	ASN1STOP		11.0000_079		

## 6.6.3.2.6 FSS\_0026 - Error when trying to read a file while a previous command is ongoing in the same file session

Test identification		FSS_0026		
		If the SSP file system application sends a FS-OP-FILE-READ-Service-Command command		
		while a previous command is ongoing in the same file session, the SSP file syst		
	the command with the error eFS-NODE-BUSY.  Configuration CFFS_001			
Confid				
refere		0.1.0_001		
		Initial conditions		
The pr	ocedure PFSS	5_0096 is successfully executed.		
		Test sequence		
Step	Description	•	Requirements	
1	FSCA gate s	ends aFSS-0026-command-01 to FSCS gate with:	•	
	ASN1STAR			
	aFSS-0026-c	ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-OPEN-		
	Service-Com	mand : {		
	aNodeIde	ntity aNodeReference : {		
	eFS-Nam	e-SSPFS,		
	eFS-Nam	e-file6		
	},			
	aAccessMo	de {eWriteAccessMode, eReadAccessMode}		
	}			
	ASN1STOP			
2	FSCS gate s	ends aFSS-0026-response-01 to FSCA gate with:	RQ0606_028	
	ASN1STAR		RQ0606_054	
		esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-OPEN-	RQ0606_055	
	Service-Res		RQ0606 058	
		ce-Response eFS-OK,		
	aParamete			
	aSessio	nID aSessionID_1 /* <store(asessionid_1)>*/</store(asessionid_1)>		
	}			
	}			
	ASN1STOP			

```
FSCA gate sends aFSS-0026-command-02 to FSCS gate with:
     -- ASN1START
     aFSS-0026-command-02 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-WRITE-
    Service-Command : {
      aSessionID aSessionID_1, /*<REPLACE(aSessionID_1)>*/
       aOffset 0,
       aDataInfo aData : '666666666'H
4
    Immediately after aFSS-0026-command-02 FSCA gate sends aFSS-0026-command-03 to
    FSCS gate with:
      - ASN1START
     afss-0026-command-03 fs-control-service-gate-commands ::= afs-op-file-read-
    Service-Command : ·
       aSessionID aSessionID_1,
      aOffset 0,
       aNumberOfBytes 6
      - ASN1STOP
                                                                                         RQ0606_069
5
    FSCS gate sends aFSS-026-response-03 to FSCA gate with:
     -- ASN1START
     aFSS-0026-response-03 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-
    WRITE-Service-Response : {
   aFS-Service-Response eFS-NODE-BUSY
        ASN1STOP
```

#### 6.6.3.3 Write file

#### 6.6.3.3.1 FSS\_0031 - Write file

Test identification FSS_0031			
Test o	bjectives	The File System Application shall be able to write a file in the SSP file system of	using FS-OP-
	-	FILE-WRITE-Service-Command.	3
Configuration CFFS_001			
reference			
		Initial conditions	
The pi	rocedure PFSS	S_0096 is successfully executed.	
•		Test sequence	
Step	Description	·	Requirements
1	FSCA gate s	ends aFSS-0031-command-01 to FSCS gate with:	•
	ASN1STAR		
	aFSS-0031-c	command-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-OPEN-	
	Service-Com	mand : {	
		entity aNodeReference : {	
		ne-SSPFS,	
		ne-file6	
	},	de (etwite) and an analysis of	
	aaccessmc	de {eWriteAccessMode, eReadAccessMode}	
	ASN1STOP		
2			
_	ASN1STAR		RQ0606_028 RQ0606_054
	aFSS-0031-r	response-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-	RQ0606_055
		e-Response : {	RQ0606_058
	aFS-Service-Response eFS-OK,		1100000_000
	aParameter {		
	aSessic	onID aSessionID_1 /* <store(asessionid_1)>*/</store(asessionid_1)>	
	}		
	ASN1STOP		
3		ends aFSS-0031-command-02 to FSCS gate with:	
3	ASN1STAR		
		command-02 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-WRITE-	
	Service-Command : {		
		TD aSessionID_1, /* <replace(asessionid_1)>*/</replace(asessionid_1)>	
	aOffset 0		
	aDataInfo	aData : '6666666666'H	
	}		
	ASN1STOP		

```
FSCS gate sends aFSS-0031-response-02 to FSCA gate with:
                                                                                     RQ0606 072
     -- ASN1START
                                                                                     RQ0606_074
     aFSS-0031-response-02 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-
     WRITE-Service-Response : {
      aFS-Service-Response eFS-OK,
      aParameter {
         aSessionID_1 /*<REPLACE(aSessionID_1)>*/
       ASN1STOP
5
    FSCA gate sends aFSS-0031-command-03 to FSCS gate with:
     -- ASN1START
     afSS-0031-command-03 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-READ-
     Service-Command : {
      aSessionID aSessionID_1,
      aOffset 0,
      aNumberOfBytes 6
      - ASN1STOP
6
     FSCS gate sends aFSS-0031-response-03 to FSCA gate with:
     -- ASN1START
     afSS-0031-response-03 FS-CONTROL-SERVICE-GATE-Responses ::= afS-OP-FILE-
     READ-Service-Response : {
      aFS-Service-Response eFS-OK,
      aParameter {
        aSessionID aSessionID_1,
         aData '6666666666'H
      - ASN1STOP
7
     FSCA gate sends aFSS-0031-command-04 to FSCS gate with:
     -- ASN1START
     afss-0031-command-04 FS-CONTROL-SERVICE-GATE-Commands ::= afs-OP-FILE-CLOSE-
     Service-Command :
      aSessionID aSessionID_1 /*<REPLACE(aSessionID_1)>*/
8
     FSCS gate sends aFSS-0031-response-04 to FSCA gate with:
                                                                                     RQ0606_059
     -- ASN1START
                                                                                     RQ0606_061
     aFSS-0031-response-04 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-
    CLOSE-Service-Response : {
      aFS-Service-Response eFS-OK
     -- ASN1STOP
```

#### 6.6.3.3.2 FSS\_0032 - Write file by omitting aOffset

Test id	dentification	FSS_0032	
Test o	bjectives	The File System Application shall be able to write a file in the SSP file system up	sing FS-OP-
		FILE-WRITE-Service-Command by omitting aOffset.	J
Config	guration	CFFS_001	
refere	nce		
		Initial conditions	
The pr	ocedure PFSS	_0096 is successfully executed.	
		Test sequence	
Step	Description		Requirements
1	FSCA gate se	ends aFSS-0032-command-01 to FSCS gate with:	
	ASNISTAR	Γ	
	aFSS-0032-cd	ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-OPEN-	
	Service-Com	mand : {	
	aNodeIde	ntity aNodeReference : {	
	eFS-Name	e-SSPFS,	
	eFS-Name-file6		
	},		
aAccessMode		de {eWriteAccessMode, eReadAccessMode}	
	}		
	ASN1STOP		

2	FSCS gate sends aFSS-0032-response-01 to FSCA gate with:	RQ0606_028
	ASNISTART	RQ0606_054
	aFSS-0032-response-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-OPEN-	RQ0606_055
	Service-Response : {    aFS-Service-Response eFS-OK,	RQ0606_058
	aParameter {	
	aSessionID aSessionID_1 /* <store(asessionid_1)>*/</store(asessionid_1)>	
	ASN1STOP	
3	FSCA gate sends aFSS-0032-command-02 to FSCS gate with:	
	ASN1START	
	aFSS-0032-command-02 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-WRITE-	
	<pre>Service-Command : {    aSessionID aSessionID_1, /*<replace(asessionid_1)>*/</replace(asessionid_1)></pre>	
	aDataInfo aData : '6666666666'H	
	}	
	ASN1STOP	
4	FSCS gate sends aFSS-0032-response-02 to FSCA gate with:  ASNISTART	RQ0606_072
	aFSS-0032-response-02 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-	RQ0606_074
	WRITE-Service-Response : {	
	aFS-Service-Response eFS-OK,	
	aParameter {	
	aSessionID aSessionID_1 /* <replace(asessionid_1)>*/</replace(asessionid_1)>	
	}	
	ASN1STOP	
5	FSCA gate sends aFSS-0032-command-03 to FSCS gate with:	
	ASN1START aFSS-0032-command-03 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-READ-	
	Service-Command: {	
	aSessionID aSessionID_1	
	}	
6	FSCS gate sends aFSS-0032-response-03 to FSCA gate with:	RQ0606 068
0	ASN1START	NQ0000_000
	aFSS-0032-response-03 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-READ-	
	Service-Response : {	
	aFS-Service-Response eFS-OK,	
	aParameter {    aSessionID aSessionID 1,	
	aData '666666666'H	
	<u>}</u>	
	ASN1STOP	
7	FSCA gate sends aFSS-0032-command-04 to FSCS gate with:	
′	ASN1START	
	aFSS-0032-command-04 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-CLOSE-	
	Service-Command : {	
	aSessionID aSessionID_1 /* <replace(asessionid_1)>*/</replace(asessionid_1)>	
	ASN1STOP	
8	FSCS gate sends aFSS-0032-response-04 to FSCA gate with:	RQ0606_059
	ASN1START	RQ0606_061
	aFSS-0032-response-04 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-	
	CLOSE-Service-Response : {    aFS-Service-Response eFS-OK	
	arb betvice-kesponse erb-ok	
	ASN1STOP	

## 6.6.3.3.3 FSS\_0033 - Error when writing file without Write access right

Test identification		FSS_0033			
Test o	bjectives	The File System Application shall not be able to open a file for reading if no Writ	The File System Application shall not be able to open a file for reading if no Write access right is		
	-	granted to the accessor.	· ·		
Confi	guration	CFFS_001			
refere					
		Initial conditions			
The p	rocedure PFSS	_0094 is successfully executed.			
		Test sequence			
Step	Description		Requirements		
1		ends aFSS-0033-command-01 to FSCS gate with:			
	ASN1STAR				
	aFSS-0033-c	ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-OPEN-			
	Service-Com	mand : {			
		· ·			
	aNodeIde	aNodeIdentity aNodeReference : {			
	eFS-Nam	e-SSPFS,			
	eFS-Nam	e-directory2,			
	eFS-Nam	e-file4			
	},				
	aAccessMo	de eWriteAccessMode			
	}				
	ASN1STOP				
2	FSCS gate se	ends aFSS-0033-response-01 to FSCA gate with:	RQ0606_018		
	ASN1STAR	T	RQ0606_021		
		esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-OPEN-	RQ0606_029		
	Service-Res	- (	RQ0606 054		
	aFS-Servi	ce-Response eFS-ACL-RULES-VIOLATIONS	RQ0606 055		
	}		RQ0606_033		
	ASN1STOP		KQ0000_079		

# 6.6.3.3.4 FSS\_0034 - Error when trying to write a file while a previous command is ongoing in the same file session

Test identification		FSS_0034		
	bjectives	If the SSP file system application sends a FS-OP-FILE-WRITE-Service-Comma	nd command	
	-	while a previous command is ongoing in the same file session, the SSP file syst		
		the command with the error eFS-NODE-BUSY.		
	Configuration CFFS_001			
referer	nce			
		Initial conditions		
The pro	ocedure PFSS	_0096 is successfully executed.		
		Test sequence		
Step	Description		Requirements	
1		ends aFSS-0034-command-01 to FSCS gate with:		
	ASN1START			
	aFSS-0034-co	ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-OPEN-		
		mand : { ntity aNodeReference : {		
	eFS-Name	-		
	eFS-Name			
	},			
	aAccessMod	de {eWriteAccessMode, eReadAccessMode}		
	ASN1STOP			
2		ends aFSS-0034-response-01 to FSCA gate with:	RQ0606_029	
_	ASN1START		RQ0606_054	
		esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-OPEN-	RQ0606_055	
	Service-Resp		RQ0606_058	
		ce-Response eFS-OK,	_	
	aParameter aSession	r { nID aSessionID_1 /* <store(asessionid_1)>*/</store(asessionid_1)>		
	}	TE WESSELSTITE I / PIONE (WESSELSTITE I) /		
	}			
	ASN1STOP			
3	FSCA gate se	ends aFSS-0034-command-02 to FSCS gate with:		
		r ommand-02 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-WRITE-		
	Service-Comm	mand : {		
		D aSessionID_1, /* <replace(asessionid_1)>*/</replace(asessionid_1)>		
	aOffset 0,			
	aDataInfo	aData : '6666666666'H		
	ASN1STOP			
4		after aFSS-0034-command-02 FSCA gate sends aFSS-0034-command-03 to		
'	FSCS gate wi			
	ASN1START			
		ommand-03 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-WRITE-		
	Service-Comm	mand : {		
	aSessionII aOffset 0,	D aSessionID_1, /* <replace(asessionid_1)>*/</replace(asessionid_1)>		
		, aData : '777777777'Н		
	}			
	ASN1STOP			
5		ends aFSS-034-response-03 to FSCA gate with:	RQ0606_073	
	ASN1START	Γ		
		esponse-03 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-		
		ce-Response : { ce-Response eFS-NODE-BUSY		
	}			
	ASN1STOP			
<u> </u>	TIDIVIDIOE		1	

#### 6.6.3.4 Delete node

## 6.6.3.4.1 FSS\_0041 - Delete file

Test identification		FSS_0041			
Test objectives		The File System Application shall be able to delete a file using FS-ADMII	N-DELETE-		
		NODE-Service-Command.			
		After the deletion of a node, all SSP links pointing to that node shall also	be deleted by		
	the SSP file system service.				
	guration	CFFS_001			
referer	nce				
		Initial conditions			
		_0091 is successfully executed.			
The pro	ocedure PFSS	_0097 is successfully executed.			
	1	Test sequence	T= -		
Step	Description		Requirements		
1		ends aFSS-0041-command-01 to FSCS gate with:			
	ASN1STAR	_			
		ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN- -Service-Command : {			
		tity aShortName eFS-ID-file1			
	}				
	ASN1STOP				
2		ends aFSS-0041-response-01 to FSCA gate with:	RQ0606_023		
	ASN1STAR		RQ0606_031		
		esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN- -Service-Response : {	RQ0606_032		
		ce-Response eFS-OK	RQ0606_041		
	}		RQ0606_042		
	ASN1STOP		RQ0606_048		
3		ends aFSS-0041-command-02 to FSCS gate with:			
	ASN1STAR	_			
		ommand-02 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE- e-Command : {			
		tity aShortName eFS-ID-file1,			
		de eReadAccessMode			
	}				
	ASN1STOP				
4		ends aFSS-0041-response-02 to FSCA gate with:	RQ0606_044		
	ASN1STAR	response-02 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-	RQ0606_079		
		ervice-Response : {			
		ce-Response eFS-NODE-NOT-FOUND			
	}				
	ASN1STOP				
5		ends aFSS-0041-command-03 to FSCS gate with:			
	ASN1STAR	r ommand-03 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-			
		e-Command: {			
		tity aShortName eFS-ID-link1,			
	aAccessMoo	de eReadAccessMode			
	}				
	ASN1STOP	and a FCC 0044 reasons 02 to FCCA mate with:	DO0000 040		
6		ends aFSS-0041-response-03 to FSCA gate with:	RQ0606_046		
	ASN1STAR	r esponse-03 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-			
		ervice-Response : {			
		ce-Response eFS-NODE-NOT-FOUND			
	}				
	ASN1STOP				

## 6.6.3.4.2 FSS\_0042 - Delete directory

Test identification		FSS_0042			
Test of	ojectives	The File System Application shall be able to delete a directory and a child	d node in the		
		directory using FS-ADMIN-DELETE-NODE-Service-Command.			
Config	uration	CFFS_001			
	eference				
10.0.0.		Initial conditions			
The pro	ocadura DESS	_0092 is successfully executed.			
THE PIC	ocedule i i oo	Test sequence			
Step	Description	l est sequence	Requirements		
		ando a FCC 0042 command 04 to FCCC gate with:	Requirements		
1	ASN1STAR	ends aFSS-0042-command-01 to FSCS gate with:			
		ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-			
		-Service-Command : { city aShortName eFS-ID-directory1			
	anoderdeni	city ashorthame ers-in-directoryi			
	} ASN1STOP				
2		ends aFSS-0042-response-01 to FSCA gate with:	RQ0606_023		
	ASN1STAR				
		esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-	RQ0606_031		
		-Service-Response : {	RQ0606_032		
		ce-Response eFS-OK	RQ0606_041		
	)	ce response era or	RQ0606_042		
	ASN1STOP		RQ0606_048		
3		ends aFSS-0042-command-02 to FSCS gate with:			
	ASN1STAR				
		ommand-02 FS-CONTROL-SERVICE-GATE-Commands::= aFS-OP-FILE-			
		e-Command : {			
		city aNodeReference : {			
		e-SSPFS,			
		e-directory1,			
	eFS-Name	- · · · · · · · · · · · · · · · · · · ·			
	},				
	aAccessMoo	de eReadAccessMode			
	}				
	ASN1STOP				
4	FSCS gate se	ends aFSS-0042-response-02 to FSCA gate with:	RQ0606_044		
	ASN1STAR		RQ0606_079		
	aFSS-0042-re	esponse-02 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-			
	FILE-OPEN-Se	ervice-Response : {			
		ce-Response eFS-NODE-NOT-FOUND,			
	aParameter				
	aSession	nID aSessionID_1			
	}				
	}				
	ASN1STOP				

## 6.6.3.4.3 FSS\_0043 - Delete directory content without delete access right

Test ic	dentification	FSS_0043	
	bjectives	The File System Application shall be able to delete a directory and a chil	d node in the
	•	directory using FS-ADMIN-DELETE-NODE-Service-Command regardles	
		eFSAccessRight-Delete of each contained node.	
Confid	guration	CFFS_001	
refere	-	0110_001	
CICICI	iice	Initial conditions	
Tho pr	ocoduro DESS	5_0096 is successfully executed.	
THE PI	ocedule FF33	Test sequence	
Step	Description	rest sequence	Requirements
			Requirements
1		ends aFSS-0043-command-01 to FSCS gate with:	
	ASN1STAR	r ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-	
		-Service-Command : { tity aShortName eFS-ID-directory4	
	}	ere, aprorename erb ib arrectory i	
	ASN1STOP		
2	FSCS gate se	ends aFSS-0043-response-01 to FSCA gate with:	RQ0606_023
_	ASN1STAR		RQ0606_031
	aFSS-0043-r	esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-	RQ0606_032
		-Service-Response : {	RQ0606_041
	aFS-Servi	ce-Response eFS-OK	
	}		RQ0606_042
	ASN1STOP		RQ0606_048
3	FSCA gate se	ends aFSS-0043-command-02 to FSCS gate with:	
	ASN1STAR	T	
		ommand-02 FS-CONTROL-SERVICE-GATE-Commands::= aFS-OP-FILE-	
		e-Command : {	
		tity aNodeReference : {	
		e-SSPFS,	
		e-directory1,	
		e-directory3,	
	eFS-Nam eFS-Nam	e-directory4,	
	ers-Nam	C-111C0	
	, .	de eReadAccessMode	
	}	ac chealocobhode	
	ASN1STOP		
4		ends aFSS-0043-response-02 to FSCA gate with:	RQ0606 044
-	ASN1STAR	· · · · · · · · · · · · · · · · · · ·	RQ0606 079
	aFSS-0043-r	esponse-02 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-	
		ervice-Response : {	
	aFS-Servi	ce-Response eFS-NODE-NOT-FOUND,	
	aParamete	r {	
	aSessio	nID aSessionID_1	
	}		
	}		
	ASN1STOP		

#### 6.6.3.4.4 FSS\_0044 - Delete link

Test ic	dentification	FSS_0044	
Test objectives		The File System Application shall be able to delete a link node using F	S-ADMIN-
	•	DELETE-NODE-Service-Command.	
Config	guration	CFFS_001	
refere	nce		
		Initial conditions	
The pr	ocedure PFSS	S_0097 is successfully executed.	
		Test sequence	
Step	Description		Requirements
1	FSCA gate s	ends aFSS-0044-command-01 to FSCS gate with:	
	ASN1STAR	T	
	aFSS-0044-c	ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-	
	DELETE-NODE	-Service-Command : {	
	aNodeIden	tity aShortName : eFS-ID-link1	
	}		
	ASN1STOP		

```
FSCS gate sends aFSS-0044-response-01 to FSCA gate with:
                                                                                RQ0606 023
2
     -- ASN1START
                                                                                RQ0606 031
    aFSS-0044-response-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-
                                                                                RQ0606_041
    DELETE-NODE-Service-Response : {
                                                                                RQ0606_042
      aFS-Service-Response eFS-OK
                                                                                RQ0606 048
       ASN1STOP
    FSCA gate sends aFSS-0044-command-02 to FSCS gate with:
3
     - ASN1START
    afss-0044-command-02 Fs-CONTROL-SERVICE-GATE-Commands ::= afs-OP-FILE-
    OPEN-Service-Command : {
     aNodeIdentity aNodeReference : {
        eFS-Name-SSPFS,
        eFS-Name-directory2,
        eFS-Name-link1
      aAccessMode eReadAccessMode
       ASN1STOP
    FSCS gate sends aFSS-0044-response-02 to FSCA gate with:
                                                                                RQ0606_047
4
     - ASN1START
                                                                                RQ0606_079
    aFSS-0044-response-02 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-
    FILE-OPEN-Service-Response : {
      aFS-Service-Response eFS-NODE-NOT-FOUND
    FSCA gate sends aFSS-0044-command-03 to FSCS gate with:
5
     - ASN1START
    aFSS-0044-command-03 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-
    OPEN-Service-Command : {
      aNodeIdentity aNodeReference : {
        eFS-Name-SSPFS,
        eFS-Name-directory1,
        eFS-Name-file2
      },
      aAccessMode eReadAccessMode
       ASN1STOP
    FSCS gate sends aFSS-0044-response-03 to FSCA gate with:
                                                                                RQ0606_045
6
      - ASN1START
    aFSS-0044-response-03 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-
    FILE-OPEN-Service-Response : {
      aFS-Service-Response eFS-OK,
      aParameter {
        aSessionID aSessionID_1 /*<STORE(aSessionID_1)>*/
       ASN1STOP
7
    FSCA gate sends aFSS-0044-command-04 to FSCS gate with:
     - ASN1START
    aFSS-0044-command-04 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-
    CLOSE-Service-Command : {
      aSessionID aSessionID_1 /*<REPLACE(aSessionID_1)>*/
       ASN1STOP
                                                                                RQ0606_059
    FSCS gate sends aFSS-0044-response-04 to FSCA gate with:
8
      - ASN1START
                                                                                RQ0606_061
    aFSS-0044-response-04 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-
    FILE-CLOSE-Service-Response : {
      aFS-Service-Response eFS-OK
       ASN1STOP
```

#### 6.6.3.4.5 FSS\_0045 - Error when deleting file without delete access right

Test identification		FSS_0045		
Test o	bjectives	The File System Application shall not be able to delete a node in the SSP file system if no Delete		
	•	access right is granted to the accessor.		
Confid	guration	CFFS 001		
refere				
		Initial conditions		
The pr	ocedure PFSS	_0096 is successfully executed.		
		Test sequence		
Step	Description	·	Requirements	
1	FSCA gate se	nds aFSS-0045-command-01 to FSCS gate with:		
	ASN1START			
	aFSS-0045-cc	ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-DELETE-		
	NODE-Service	e-Command : {		
	aNodeIdent	tity aShortName eFS-ID-file6		
	}			
	ASN1STOP			
2	FSCS gate se	nds aFSS-0045-response-01 to FSCA gate with:	RQ0606_031	
	ASN1START			
	aFSS-0045-re	esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-DELETE-		
	NODE-Service	e-Response : {		
	aFS-Servic	ce-Response eFS-ACL-RULES-VIOLATIONS		
	}			
	ASN1STOP			

#### 6.6.3.4.6 FSS\_0046 - Error when deleting file while a file session is open with the same file

Test identification		FSS_0046			
Test o	bjectives	The SSP file system shall reject the deletion of a node if a session is ongoing or	the node.		
Config	uration	CFSS_006			
referer	eference				
		Initial conditions			
The pro	ocedure PFSS	_0074 is successfully executed.			
		0091 is successfully executed.			
	<del>-</del>	Test sequence			
Step	Description	·	Requirements		
1		sends aFSS-0046-command-01 to FSCS gate with:	•		
-	ASN1START				
	aFSS-0046-cd	ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-OPEN-			
	Service-Comm				
		tity aShortName eFS-ID-file1,			
	aAccessMoo	de eReadAccessMode			
	ASN1STOP				
2		ends aFSS-0046-response-01 to FSCA_1 gate with:	RQ0606_018		
	ASN1START		RQ0606_021		
		esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-OPEN-	RQ0606_021		
	Service-Resp		RQ0606_020		
		ce-Response eFS-OK,	RQ0606_055		
	aParameter		RQ0606_058		
	aSession	nID aSessionID_1	1\Q0000_030		
	}				
	ASN1STOP				
3		sends aFSS-0046-command-02 to FSCS gate with:			
	ASN1START				
		ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-DELETE-			
	NODE-Service	e-Command : {			
	aNodeIdent	tity aShortName eFS-ID-file1			
	}				
	ASN1STOP				
4			RQ0606_043		
	ASN1START				
	aFSS-0045-response-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-DELETE-NODE-Service-Response : {				
	NODE-Service-Response : {     aFS-Service-Response eFS-NODE-BUSY				
	}				
	ASN1STOP				

#### 6.6.3.5 Get Info

#### 6.6.3.5.1 FSS\_0051 - Get Info file

Test identification		FSS_0051		
Test o	bjectives	The File System Application shall be able to retrieve the information about a file in the SSP file		
		system.		
Config	juration	CFFS_001		
referei	nce			
		Initial conditions		
The pro	ocedure PFSS	_0092 shall be successfully executed.		
		Test sequence		
Step	Description		Requirements	
1	FSCA gate se	ends aFSS-0051-command-01 to FSCS gate with:		
	ASN1START			
		ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-NODE-GET-		
ł		e-Command : {		
	eFS-Name	cy aNodeReference : {		
		e-directory1,		
	eFS-Name			
	},			
	aRequestTy	pe eRequestTypeDEF		
	}			
	ASN1STOP			
2	FSCS gate sends aFSS-0051-response-01 to FSCA gate with:		RQ0606_007	
	ASN1START		RQ0606_063	
		esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-NODE-GET- e-Response : {	RQ0606_064	
		-Response eFS-OK,	RQ0606_067	
	aParameter			
		scriptorList {		
	{	- ·		
		deName eFS-Name-file2,		
		ortName eFS-ID-file2,		
		de aFile : {		
	},	FileSize aSizeFile2		
	aACI	. (		
	{	- (		
	,	aAccessorIdentity eFS-ACC-FSA1,		
		aAccessorRights eFS-ACL-file2		
	}			
	}			
	}			
	}			
	}			
	ASN1STOP			

## 6.6.3.5.2 FSS\_0052 - Get Info parent of a file

		FSS_0052	
Test o	bjectives	The File System Application shall be able to retrieve the information about the p	arent of a file in
		the SSP file system.	
Config	uration	CFFS_001	
refere	nce		
		Initial conditions	
The pro	ocedure PFSS	_0092 shall be successfully executed.	
		Test sequence	
Step	Description		Requirements
1	FSCA gate se	ends aFSS-0052-command-01 to FSCS gate with:	
	ASN1START		
		ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-NODE-GET-	
	INFO-Service	e-Command : {	
	aNodeIdent	city aNodeReference : {	
	eFS-Name		
		e-directory1,	
	eFS-Name	e-file2	
	},		
	aRequestTy	pe aParent	
	}		
2	ASN1STOP	ends aFSS-0052-response-01 to FSCA gate with:	DO0606 007
	ASN1START		RQ0606_007
		esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-NODE-GET-	RQ0606_063
		e-Response : {	RQ0606_064
			RQ0606_067
	aFS-Servic	ce-Response eFS-OK,	
	aParameter		
	aNodeDes	scriptorList {	
	{	ANTON AND ANTON AND ANTON A	
		deName eFS-Name-directory1, ortName eFS-ID-directory1,	
		de aDirectory : {	
	},	ac abirectory . (	
	aACI	i {	
{			
	aAccessorIdentity eFS-ACC-FSA1,		
		aAccessorRights eFS-ACL-directory1	
	}		
	}		
	}		
	}		
	}		
	ASN1STOP		

## 6.6.3.5.3 FSS\_0053 - Get Info siblings

Test identification		FSS_0053				
Test o	bjectives	The File System Application shall be able to retrieve the information about the s	iblings of a file in			
	•	the SSP file system.	J			
Config	guration	CFFS_001				
refere	nce					
	Initial conditions					
		_0093 shall be successfully executed.				
The pr	ocedure PFSS_	_0094 is successfully executed.				
The pr	ocedure PFSS_	_0097 is successfully executed.				
		Test sequence				
Step	Description		Requirements			
1		ends aFSS-0053-command-01 to FSCS gate with:				
	ASN1START					
		ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-NODE-GET- e-Command : {				
	INTO BETVICE	2 Command . (				
	aNodeIdent	tity aShortName : eFS-ID-file3,				
	aRequestTy	pe aContain				
	} a and amon					
2	ASN1STOP	ends aFSS-0053-response-01 to FSCA gate with:	RQ0606_007			
	ASN1START		RQ0606_007 RQ0606_063			
		esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-NODE-GET-	RQ0606_064			
		e-Response : {	RQ0606_066			
		ce-Response eFS-OK,	RQ0606_067			
	aParameter	f { scriptorList {	_			
	{	octipedinise (				
	aNod	deName eFS-Name-file3,				
		ortName eFS-ID-file3,				
		de aFile : { FileSize aSizeFile3				
	},	rilebize abizerileb				
	aACI	i {				
	{					
		aAccessorIdentity eFS-ACC-FSA1,				
	ı	aAccessorRights eFS-ACL-file3				
	}					
	},					
	{					
		deName eFS-Name-file4, ortName eFS-ID-file4,				
		de aFile : {				
		FileSize aSizeFile4				
	},	,				
	aACI	i {				
	1	aAccessorIdentity eFS-ACC-FSA1,				
		aAccessorRights eFS-ACL-file4				
	}					
	}					
	{ },					
	aNoc	deName eFS-Name-link1,				
	aSho	ortName eFS-ID-link1,				
		de aLink : {				
		LinkedFileIdentity aShortName eFS-ID-file1, LinkedFileSize aSizeFile1				
	},	dinkeurilesize asizerilei				
	aACL {					
	{					
		aAccessorIdentity eFS-ACC-FSA1,				
	ı	aAccessorRights eFS-ACL-link1				
	}					
	}					
	}					
	}					
	} ASN1STOP					
	1101110101		1			

#### 6.6.3.5.4 FSS\_0054 - Get Info link

Test identification		FSS_0054	
Test o	bjectives	The File System Application shall be able to retrieve the information about a link	in the SSP file
		system.	
	Configuration CFFS_001		
referer	nce		
		Initial conditions	
The pro	ocedure PFSS	_0097 shall be successfully executed.	
		Test sequence	-
Step	Description		Requirements
1	FSCA gate sends aFSS-0054-command-01 to FSCS gate with:  ASN1START  aFSS-0054-command-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-NODE-GET-INFO-Service-Command : {		
	eFS-Name eFS-Name eFS-Name },	e-directory2,	
2		ends aFSS-0054-response-01 to FSCA gate with:	RQ0606_007
2	ASN1START aFSS-0054-re INFO-Service aFS-Service aParameter	response-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-NODE-GET-e-Response : { ce-Response eFS-OK,	RQ0606_063 RQ0606_064 RQ0606_065 RQ0606_067
	aSho aNoo aI	deName eFS-Name-link1, ortName eFS-ID-link1, de aLink : { LinkedFileIdentity aShortName eFS-ID-file1, LinkedFileSize aSizeFile1	

#### 6.6.3.5.5 FSS\_0055 - Error when getting info about file 6 without GetInfo access right

Toet i	dentification	IFSS 0055		
Test objectives		The File System Application shall not be able to retrieve the information about	a file in the SSP	
		file system if no GetInfo right is granted to the accessor.		
Config	guration	CFFS_001		
refere	nce			
		Initial conditions		
The pr	ocedure PFS	S_0096 shall be successfully executed.		
		Test sequence		
Step	Description	·	Requirements	
1	FSCA gate s	ends aFSS-0055-command-01 to FSCS gate with:		
	ASN1STA			
	aFSS-0055-0	command-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-NODE-GET-		
	INFO-Servi	ce-Command : {		
	aNodeIdent:	ity aNodeReference : {		
	eFS-Nar	ne-SSPFS,		
	eFS-Nar	me-directory1,		
	eFS-Nar	me-directory3,		
	eFS-Nar	me-directory4,		
	eFS-Nar	ne-file6		
	},			
	aRequest?	Type eRequestTypeDEF		
	}			
	ASN1STO			
2	FSCS gate s	ends aFSS-0055-response-01 to FSCA gate with:	RQ0606_027	
l	ASN1STA	RT		
		response-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-NODE-GET-		
		ce-Response : {		
	aFS-Serv	ice-Response eFS-ACL-RULES-VIOLATIONS		
l	}			
	ASN1STO			

## 6.6.3.6 Update node

#### 6.6.3.6.1 FSS\_0061 - Update access control of a file

Test identification		FSS_0061		
Test objectives				
		file system using the FS-ADMIN-UPDATE-NODE-ATTRIBUTES-Service-Com	mand.	
Confi	guration	CFFS_001		
refere	nce			
		Initial conditions		
The p	rocedure PFSS	S_0092 shall be successfully executed.		
-				
		Test sequence		
Step	Description		Requirements	
1	FSCA gate s	ends aFSS-0061-command-01 to FSCS gate with:		
	ASN1STAR	T		
	aFSS-0061-c	command-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-UPDATE-		
	NODE-ATTRIE	OUTES-Service-Command : {		
	aNodeIden	tity aNodeReference : {		
	eFS-Nam	ne-SSPFS,		
		ne-directory1,		
	eFS-Nam	ne-file2		
	},			
	aACL {			
	{			
		sorIdentity eFS-ACC-FSA1,		
	aAccess	sorRights eFS-ACL-file_upd		
	}			
	}			
	}			
	ASN1STOP			

```
FSCS gate sends aFSS-0061-response-01 to FSCS gate with:
                                                                                     RQ0606 024
     -- ASN1START
                                                                                     RQ0606 030
    aFSS-0061-response-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-
                                                                                     RQ0606_049
    UPDATE-NODE-ATTRIBUTES-Service-Response : {
                                                                                     RQ0606_052
      aFS-Service-Response eFS-OK
                                                                                     RQ0606_053
       ASN1STOP
3
    FSCA gate sends aFSS-0061-command-02 to FSCS gate with:
     -- ASN1START
    aFSS-0061-command-02 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-NODE-GET-
    INFO-Service-Command : {
      aNodeIdentity aNodeReference : {
        eFS-Name-SSPFS,
        eFS-Name-directory1,
        eFS-Name-file2
      aRequestType eRequestTypeDEF
       ASN1STOP
4
    FSCS gate sends aFSS-0061-response-02 to FSCA gate with:
     -- ASN1START
    aFSS-0061-response-02 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-NODE-GET-
    INFO-Service-Response : {
      aFS-Service-Response eFS-OK,
      aParameter {
        aNodeDescriptorList {
             aNodeName eFS-Name-file2,
             aShortName eFS-ID-file2,
             aNode aFile : {
              aFileSize aSizeFile2
             },
             aACL {
                 aAccessorIdentity eFS-ACC-FSA1,
                aAccessorRights eFS-ACL-file_upd
            }
          }
      }
       ASN1STOP
```

#### 6.6.3.6.2 FSS\_0062 - Update access control of a link

Test ic	dentification	FSS_0062	
Test objectives		The File System Application shall be able to update the access control of a link	node in the SSP
		file system using the FS-ADMIN-UPDATE-NODE-ATTRIBUTES-Service-Comm	nand.
Configuration		CFFS_001	
reference			
Initial conditions			
he pr	ocedure PFSS	_0097 shall be successfully executed.	
2400	Description	Test sequence	Doguiromento
Step 1	Description	ends aFSS-0062-command-01 to FSCS gate with:	Requirements
ı	ASN1STAR		
		ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-UPDATE-UTES-Service-Command : {	
	aNodeIden aACL { {	tity aShortName : eFS-ID-link1,	
		orIdentity eFS-ACC-FSA1, orRights eFS-ACL-file_upd	
	}		
	}		
2	ASN1STOP	ends aFSS-0062-response-01 to FSCS gate with:	POnene 024
2	ASN1STAR		RQ0606_024 RQ0606_030
		esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-UPDATE-	RQ0606_033
		UTES-Service-Response : {	RQ0606_049
	ars-servi	ce-Response eFS-OK	RQ0606_050
	ASN1STOP		RQ0606_051
			RQ0606_052
3	FCCA goto or	ands aFCC 0062 command 02 to FCCC acts with:	RQ0606_053
3	ASN1STAR	ends aFSS-0062-command-02 to FSCS gate with:	
	aFSS-0062-c	ommand-02 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-NODE-GET-e-Command : {	
		tity aNodeReference : { e-SSPFS,	
	eFS-Name eFS-Name },	e-directory2, e-link1	
		ype eRequestTypeDEF	
	} ASN1STOP		
4		ends aFSS-0062-response-02 to FSCA gate with:	
7	ASN1STAR	· · · · · · · · · · · · · · · · · · ·	
	are com	go Pogpongo oES OV	
	aParamete	ce-Response eFS-OK, r {	
		scriptorList {	
		deName eFS-Name-link1, ortName eFS-ID-link1,	
	aNo	de aLink : {	
		LinkedFileIdentity aShortName eFS-ID-file1, LinkedFileSize 5	
	},	HIUVEGETIESTINE 2	
	aAC	L {	
	{		
		aAccessorIdentity eFS-ACC-FSA1, aAccessorRights eFS-ACL-link1	
	}		
	}		
	}		
	}		
	}		
	ASN1STOP		

#### 6.6.3.6.3 FSS\_0063 - Update metadata

Test ic	lentification	FSS_0063	
Test objectives		The File System Application shall be able to update the metadata of a file node	in the SSP file
	,	system using the FS-ADMIN-UPDATE-NODE-ATTRIBUTES-Service-Command	
Confid	uration	CFFS 001	
refere		0110_001	
1010101	100	Initial conditions	
The nr	ocedure PESS	0099 shall be successfully executed.	
THE PI	ocedule i i oo	Test sequence	
Step	Description	rest sequence	Requirements
		ands aFCC 0062 sammand 01 to FCCC gate with	Requirements
1	ASN1STAR	ends aFSS-0063-command-01 to FSCS gate with:	
		ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-UPDATE-	
		UTES-Service-Command : {	
		tity aNodeReference : {	
		e-SSPFS,	
		e-directoryl,	
		e-directory3,	
	eFS-Name	e-directory4,	
	eFS-Name	e-file8	
	},		
	aMetaData		
	{	Determ - OTB	
		Datum eOID, OCTET STRING : '11'H	
	aData }	OCIEI SIRING · II h	
	}		
	}		
	ASN1STOP		
2	FSCS gate se	ends aFSS-0063-response-01 to FSCS gate with:	RQ0606_024
	ASN1STAR	Γ	RQ0606_029
		esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-UPDATE-	RQ0606_049
		UTES-Service-Response : {	RQ0606 052
	aFS-Servi	ce-Response eFS-OK	RQ0606 053
	} ASN1STOP		
3		ands aFCC 0062 sammand 02 to FCCC gate with	
3	ASN1STAR	ends aFSS-0063-command-02 to FSCS gate with:	
		ommand-02 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-NODE-GET-	
		e-Command : {	
		tity aNodeReference : {	
		e-SSPFS,	
	eFS-Name	e-directoryl,	
		e-directory3,	
		e-directory4,	
	eFS-Name	e-file8	
	},		
	aRequestT	ype eRequestTypeDEF	
	ASN1STOP		
	- MONISTUP		

```
FSCS gate sends aFSS-0063-response-02 FS-Response to FSCA gate with:
-- ASN1START
aFSS-0063-response-02 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-NODE-GET-
INFO-Service-Response : {
 aFS-Service-Response eFS-OK, aParameter {
    aNodeDescriptorList {
        aNodeName eFS-Name-file8,
        aShortName eFS-ID-file8,
        aNode aFile : {
         aFileSize 5
        aMetaData {
            aTypeDatum eOID,
            aData OCTET STRING : '11'H
        aACL {
          {
            aAccessorIdentity eFS-ACC-FSA1,
            aAccessorRights eFS-ACL-file8
  }
   ASN1STOP
```

## 6.6.3.6.4 FSS\_0064 - Error when updating access control file without UpdateACL access right

		Inc. and			
	dentification	FSS_0064			
Test objectives		The File System Application shall not be able to update the access control of a node in the SSP			
		file system if no UpdateACL access right is granted to the accessor			
Config	guration	CFFS 001			
refere	nce				
		Initial conditions			
The pr	ocedure PFSS	S_0096 is successfully executed.			
		Test sequence			
Step	Description		Requirements		
1		ends aFSS-0064-command-01 to FSCS gate with:	requirements		
•	ASN1STAR				
		ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-UPDATE-			
		UTES-Service-Command : {			
		tity aShortName eFS-ID-file6,			
	aACL {				
	aAccessorIdentity eFS-ACC-FSA1,				
	aAccessorRights eFS-ACL-file6				
	}				
	}				
	}				
	ASN1STOP				
2		ends aFSS-0064-response-01 to FSCS gate with:	RQ0606_049		
	ASN1STAR		RQ0606_052		
		esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-ADMIN-UPDATE-	RQ0606_079		
Ī	NODE-ATTRIB	UTES-Service-Response : {			
	- EG G	TO DOCUMENT OF ACT			
	ars-Servi	ce-Response eFS-ACL-RULES-VIOLATIONS			
	ASN1STOP				
	ADIVIDION		1		

## 6.6.3.7 Get position

#### 6.6.3.7.1 FSS\_0071 - Get Position

Test ic	dentification	FSS_0071	
Test objectives		The File System Application shall be able to retrieve the current offset position i	n an SSP file
		using FS-OP-FILE-GET-POSITION-Service-Command.	
Configuration		CFFS_001	
refere	nce	1.10.1	
Thons	acadura DECC	Initial conditions	
rne pr	ocedure PFSS	_0091 is successfully executed.  Test sequence	
Step	Description	rest sequence	Requirements
1		ends aFSS-0071-command-01 to FSCS gate with:	requirements
•	ASN1STAR		
		ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-OPEN-	
	Service-Com	mand : { tity aShortName eFS-ID-file1,	
		de eReadAccessMode	
	}		
	ASN1STOP		
2		ends aFSS-0071-response-01 to FSCA gate with:	RQ0606_018
	ASN1STAR	r esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-OPEN-	RQ0606_021
	Service-Resp		RQ0606_026 RQ0606_054
		ce-Response eFS-OK,	RQ0606_055
	aParameter	· ·	RQ0606_058
	aSession	nID aSessionID_1 /* <store(asessionid_1)>*/</store(asessionid_1)>	1140000_000
	}		
	ASN1STOP		
3		ends aFSS-0071-command-02 to FSCS gate with:	
	ASN1STAR	r ommand-02 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-READ-	
	Service-Com		
		DaSessionID_1, /* <replace(asessionid_1)>*/</replace(asessionid_1)>	
	aOffset 0		
	aNumberOfl	Bytes 2	
	ASN1STOP		
4		ends aFSS-0071-response-02 to FSCA gate with:	RQ0606_057
	ASN1STAR		RQ0606_068
	Service-Resp	esponse-02 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-READ-	RQ0606_070
		ce-Response eFS-OK,	RQ1003_006
	aParamete		
	aSession	nID aSessionID_1, /* <replace(asessionid_1)>*/</replace(asessionid_1)>	
	aData (	J102 n	
	}		
	ASN1STOP	-F00 0074	
5	FSCA gate se	ends aFSS-0071-command-03 to FSCS gate with:	
		ommand-03 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-GET-	
	POSITION-Ser	rvice-Command : {	
	aSessionII	D aSessionID_1 /* <replace(asessionid_1)>*/</replace(asessionid_1)>	
	} ASN1STOP		
6		ends aFSS-0071-response-03 to FSCA gate with:	RQ0606_076
-	ASN1STAR		RQ0606_078
		esponse-03 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-GET-	
		rvice-Response : {	
	aFS-Servic	ce-Response eFS-OK, r {	
		tOffset 3	
	}		
	} 7 CM1 CECD		
	ASN1STOP		1

```
FSCA gate sends aFSS-0071-command-04 to FSCS gate with:

- ASN1START
aFSS-0071-command-04 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-CLOSE-Service-Command : {
    aSessionID aSessionID_1 /*<REPLACE(aSessionID_1)>*/
}
-- ASN1STOP

8 FSCS gate sends aFSS-0071-response-04 to FSCA gate with:
-- ASN1START
aFSS-0071-response-04 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-CLOSE-Service-Response : {
    aFS-Service-Response eFS-OK
}
-- ASN1STOP
```

## 6.6.3.7.2 FSS\_0072 - Error when trying to get the position while a previous command is ongoing in the same file session

		FSS_0072	
Test o	bjectives	If the SSP file system application sends a FS-OP-FILE-GET-POSITION-Service	
,		command while a previous command is ongoing in the same file session, the SS	
		shall reject the command with the error eFS-E-NODE-BUSY.	•
Config	uration	CFFS_001	
refere		_	
		Initial conditions	
The pro	ocedure PFSS	_0091 is successfully executed.	
	_	Test sequence	
Step	Description	·	Requirements
1	FSCA gate se	nds aFSS-0072-command-01 to FSCS gate with:	
	ASN1START		
		ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-OPEN-	
	Service-Comm		
		tity aShortName eFS-ID-file1, de eReadAccessMode	
	)	de eneaunccessmode	
	ASN1STOP		
2	FSCS gate se	nds aFSS-0072-response-01 to FSCA gate with:	RQ0606_018
	ASN1START		RQ0606_021
		esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-OPEN-	RQ0606_026
	Service-Resp		RQ0606_054
		ce-Response eFS-OK,	RQ0606_055
	aParameter		RQ0606_058
	_	nID aSessionID_1 /* <store(asessionid_1)>*/</store(asessionid_1)>	
	}		
	ASN1STOP		
3		nds aFSS-0072-command-02 to FSCS gate with:	
	ASN1START	ommand-02 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-READ-	
	Service-Comm		
		D aSessionID_1, /* <replace(asessionid_1)>*/</replace(asessionid_1)>	
	aOffset 0,		
	aNumberOfE	Bytes 2	
	}		
	ASN1STOP		
4		fter aFSS-0072-command-02 FSCA gate sends aFSS-0072-command-03 to	
	FSCS gate with		
	ASN1START		
		ommand-03 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-GET-	
		rvice-Command : { D aSessionID_1 /* <replace(asessionid_1)>*/</replace(asessionid_1)>	
	}	ADCODIONID_I / NEFINCE (ADCODIONID_I)/"/	
	ASN1STOP		
5		nds aFSS-0072-response-03 to FSCA gate with:	RQ0606_077
	ASN1START		
		esponse-03 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-GET-	
		rvice-Response : {	
	aFS-Servic	ce-Response eFS-E-NODE-BUSY	
	} A CM1 CECE		
	ASN1STOP		1

## 6.6.3.8 Get capabilities

#### 6.6.3.8.1 FSS\_0081 - Get Capabilities

Test ic	lentification	FSS_0081	
Test o	bjectives	The File System Application shall be able to retrieve the capabilities of the	e SSP file
		system using FS-ADMIN-GET-CAPABILITIES-Service-Command.	
Config	uration	CFFS_001	
refere	nce		
		Initial conditions	
The pro	ocedure PFSS	_0072 is successfully executed.	
	11START		
		R::= 15 /* <store(fssversion)> it contains the value of the median supported by the file system control service gate */</store(fssversion)>	ajor and
		NTEGER: = 2 /* <store(maxfilesessions)> it contains the value</store(maxfilesessions)>	of the
		simultaneous file sessions supported*/	OI CIIC
		PER_FILE INTEGER::= 15 /* <store(maxfilesessions_per_file)> it</store(maxfilesessions_per_file)>	contains the
value	of the maxim	num number of simultaneous file sessions supported on the same	file*/
		:= 0 /* STORE(CAPACITY)>	
		lue of the total capacity of the SSP file system in bytes*/	
_		<pre>'EGER::= 0 /*<store(free_capacity)> lue of the remaining free capacity in the SSP file system in</store(free_capacity)></pre>	brrt og * /
		Name of the remaining free capacity in the SSP file system in NODE INTEGER ::=0 /* <store(maxmetadata_per_node)< td=""><td>Dyces"/</td></store(maxmetadata_per_node)<>	Dyces"/
		lue of the maximum metadata size allowed per node in bytes*/	
ASN1			
		Test sequence	
Step	Description	•	Requirements
1	FSCA gate se	ends aFSS-0081-command-01 to FSCS gate with:	
	ASN1STAR	Γ	
		ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-ADMIN-	
	GET-CAPABILI	ITIES-Service-Command : {	
	ASN1STOP		
2		ends aFSS-0081-response-01 to FSCA gate with:	RQ0606_019
	ASN1STAR		RQ0606_019
		esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::=	RQ0606 022
	aFS-ADMIN-G	ET-CAPABILITIES-Service-Response : {	RQ0606_034
		ce-Response eFS-OK,	RQ0606_035
	aParameter		1100000_000
		n '0000'H /* <compare(fssversion,gt,eq)>*/,</compare(fssversion,gt,eq)>	
		aneousFileSessions 1/* <compare (maxfilesessions,gt,eq)=""> */, aneousFileSessionsPerFile 1/*<compare< td=""><td></td></compare<></compare>	
		SIONS_PER_FILE,GT,EQ)> */,	
		apacity 0/* <compare(capacity,gt,eq)>*/,</compare(capacity,gt,eq)>	
		pacity 0/* <compare(free_capacity,gt,eq)>*/,</compare(free_capacity,gt,eq)>	
	aMaxMeta	aDataSizePerNode 0 /* <compare(maxmetadata_per_node,gt,eq)>*/</compare(maxmetadata_per_node,gt,eq)>	
	}		
	_ A CNT1 CTIOD		
	ASN1STOP		

#### 6.6.3.9 Other

#### 6.6.3.9.1 FSS\_0091 - Simultaneous file sessions on the same file

Test id	dentification	FSS 0091	
	bjectives	The File System Application shall be able to run two simultaneous file sessions	on the same file
	Configuration CFSS_005		
reference			
		Initial conditions	
The pr	ocedure PFSS	0074 is successfully executed.	
		_0091 is successfully executed.	
	<del>-</del>	Test sequence	
Step	Description	•	Requirements
1	FSCA_1 gate	sends aFSS-0091-command-01 to FSCS gate with:	
	ASN1START		
	aFSS-0091-cc Service-Comm	mmand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-OPEN-	
		ity aShortName eFS-ID-file1,	
		le eReadAccessMode	
	}		
	ASN1STOP		
2	ASN1START	nds aFSS-0091-response-01 to FSCA_1 gate with:	RQ0606_018
		esponse-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-OPEN-	RQ0606_021
	Service-Resp	oonse : {	RQ0606_026 RQ0606_054
		e-Response eFS-OK,	RQ0606_055
	aParameter	`{ ID aSessionID_1 /* <store(asessionid_1)>*/</store(asessionid_1)>	RQ0606 058
	}	ID abessioniD_1 / \SiokE(abessionID_1)//	
	}		
	ASN1STOP		
3		sends aFSS-0091-command-02 to FSCS gate with:	
	ASN1START	: ommand-02 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-OPEN-	
	Service-Comm		
		ity aShortName eFS-ID-file1,	
	aAccessMod	le {eWriteAccessMode, eReadAccessMode}	
	ASN1STOP		
4		nds aFSS-0091-response-02 to FSCA_2 gate with:	RQ0606_028
	ASN1START		RQ0606_054
		esponse-02 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-OPEN-	RQ0606_055
	Service-Resp	ce-Response eFS-OK,	RQ0606_058
	aParameter		RQ0606_019
	aSession	alD aSessionID_2 /* <store(asessionid_2)>*/</store(asessionid_2)>	RQ1003_004
	}		RQ1003_005
	} ASN1STOP		
5		sends aFSS-0091-command-03 to FSCS gate with:	
	ASN1START		
		ommand-03 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-WRITE-	
	Service-Comm	nand : { D aSessionID_2,    /* <replace(asessionid_2)>*/</replace(asessionid_2)>	
	aOffset 0,		
	aDataInfo	aData : '1111111111'H	
	}		
6	ASN1STOP	nds aFSS-0091-response-03 to FSCA_2 gate with:	RQ0606_072
J	ASN1START		RQ0606_072
		esponse-03 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-	
		re-Response : {	
	aFS-Servic	ce-Response eFS-OK, - {	
		\ \ DaSessionID_2 /* <replace(asessionid_2)>*/</replace(asessionid_2)>	
	}		
	}		
	ASN1STOP		1

```
FSCA_1 gate sends aFSS-0091-command-04 to FSCS gate with:
      - ASN1START
     aFSS-0091-command-04 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-READ-
    Service-Command : {
      aSessionID aSessionID_1, /*<REPLACE(aSessionID_1)>*/
      aOffset 0,
      aNumberOfBytes 5
       ASN1STOP
8
    FSCS gate sends aFSS-0091-response-04 to FSCA 1 gate with:
                                                                                     RQ0606 057
      - ASN1START
                                                                                     RQ0606_068
     aFSS-0091-response-04 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-READ-
                                                                                     RQ0606_070
    Service-Response : {
                                                                                     RQ1003_006
      aFS-Service-Response eFS-OK,
                                                                                     RQ0606_020
      aParameter {
        aSessionID aSessionID_1, /*<REPLACE(aSessionID_1)>*/
        aData '1111111111'H
      }
       ASN1STOP
    FSCA_1 gate sends aFSS-0091-command-05 to FSCS gate with:
      - ASN1START
     aFSS-0091-command-05 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-CLOSE-
    Service-Command : {
      aSessionID aSessionID_1 /*<REPLACE(aSessionID_1)>*/
      - ASN1STOP
    FSCS gate sends aFSS-0091-response-05 to FSCA_1 gate with:
                                                                                     RQ0606 059
10
      - ASNISTART
                                                                                     RQ0606_061
    aFSS-0091-response-05 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-
    CLOSE-Service-Response : {
      aFS-Service-Response eFS-OK
       ASN1STOP
    FSCA_2 gate sends aFSS-0091-command-06 to FSCS gate with:
      - ASN1START
     aFSS-0091-command-06 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-CLOSE-
     Service-Command :
      aSessionID aSessionID_2 /*<REPLACE(aSessionID_2)>*/
       ASN1STOP
12
    FSCS gate sends aFSS-0091-response-06 to FSCA_2 gate with:
                                                                                     RQ0606_059
      - ASNISTART
                                                                                     RQ0606_061
     aFSS-0091-response-06 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-
     CLOSE-Service-Response : {
      aFS-Service-Response eFS-OK
      - ASN1STOP
```

## 6.6.3.9.2 FSS\_0092 - Check if file session is closed

Test identification		FSS_0092		
Test objectives		Test that all file sessions are closed upon closure of the pipe session between the	ne file system	
		control application gate and the file system control service gate.		
	juration	CFFS_001		
refere	reference			
	, peoo	Initial conditions		
The pr	ocedure PFSS	_0091 is successfully executed.		
Cton	Description	Test sequence	Doguiromanto	
Step 1	Description	ends aFSS-0092-command-01 to FSCS gate with:	Requirements	
'	ASN1START			
		ommand-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-OPEN-		
	Service-Comm	· ·		
		tity aShortName eFS-ID-file1, de eReadAccessMode		
	AACCESSMOO	de ereadaccessmode		
	ASN1STOP			
2	FSCS gate se	ends aFSS-0092-response-01 to FSCA gate with:	RQ0606_018	
	ASN1START		RQ0606_021	
	Service-Resp	esponse-02 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-OPEN-	RQ0606_026	
		ce-Response eFS-OK,	RQ0606_054	
	aParameter		RQ0606_055 RQ0606_058	
		nID aSessionID_1 /* <store(asessionid_1)>*/</store(asessionid_1)>	NQ0000_030	
	}			
	ASN1STOP			
3		ends aFSS-0092-command-02 to FSCS gate with:		
	ASN1START			
	Service-Comm	ommand-02 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-READ-mand : {		
		D aSessionID_1, /* <replace(asessionid_1)>*/</replace(asessionid_1)>		
	aOffset 0,			
	aNumberOfF	Bytes 5		
	ASN1STOP			
4	FSCS gate se	ends aFSS-0092-response-02 to FSCA gate with:	RQ0606_057	
	ASN1START		RQ0606_068	
	aFSS-0092-re Service-Resp	esponse-02 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-READ-	RQ0606_070	
		ce-Response eFS-OK,	RQ1003_006	
	aParameter	r {		
		nID aSessionID_1, /* <replace(asessionid_1)>*/</replace(asessionid_1)>		
	aData (	O102030405'H		
	}			
	ASN1STOP			
5		ation gate in the Other host sends EVT_ADM_UNBIND event to the		
		gate in the SSP host with:		
6		EBA: a dynamically assigned pipe identifier for the File system service gate.		
6	ASN1START			
		ommand-03 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-READ-		
	Service-Comm			
	aSessionII aOffset 0,	D aSessionID_1, /* <replace(asessionid_1)>*/</replace(asessionid_1)>		
	aNumberOfF			
	}			
-	ASN1STOP	-F00 0000 00 / F00A / 34	D04600 644	
7		ends aFSS-0092-response-03 to FSCA gate with:	RQ1003_014	
	ASN1START	response-03 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-READ-		
	Service-Resp			
	aFS-Service	ce-Response eFS-BAD-SESSSION-ID		
	}			
	ASN1STOP			

## 6.6.3.9.3 FSS\_0093 - Check if data pipe session is closed

Test ic	lentification FSS_0093		
Test o	Test objectives Test that the file system data pipe sessions are closed upon closure of the pipe session between		
	the file system control application gate and the file system control service gate.		
	uration CFFS_002		
refere	reference		
<b>T</b> 1	Initial conditions		
The pro	ocedure PFSS_0095 is successfully executed.		
Step	Test sequence Description	Requirements	
3iep 1	FSCA gate sends aFSS-0093-command-01 to FSCS gate with:	Requirements	
'	ASN1START		
	aFSS-0093-command-01 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-OPEN-		
	Service-Command : {		
	aNodeIdentity aShortName eFS-ID-file5, aAccessMode eReadAccessMode,		
	aGateURI '863391838cf658c28142d53611d52f12'H		
	]		
-	ASN1START	DO0000 047	
2	FSCS gate sends aFSS-0093-response-01 to FSCA gate with: ASN1START	RQ0606_017 RQ0606_018	
	aFSS-0093-response-01 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-OPEN-	RQ0606_011	
	Service-Response : {	RQ0606_026	
	aFS-Service-Response eFS-OK, aParameter {	RQ0606_054	
	aSessionID aSessionID_1 /* <store(asessionid_1)>*/</store(asessionid_1)>	RQ0606_055	
	}	RQ0606_058	
	A CANT GEOD	RQ1003_015	
	ASN1STOP  Pipe session is opened between the FSDS gate and the FSDA gate by using the 86339183-	RQ1003_016	
	8cf6-58c2-8142-d53611d52f12 gate identifier.		
3	FSCA gate sends aFSS-0093-command-02 to FSCS gate with:		
	ASN1START		
	aFSS-0093-command-02 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-READ-		
	<pre>Service-Command : {    aSessionID aSessionID_1, /*<replace(asessionid_1)>*/</replace(asessionid_1)></pre>		
	aOffset 0,		
	aNumberOfBytes 10		
	ASN1STOP		
4	FSDS gate sends a stream with the content of file5 to FSDA gate		
5	Administration gate send an acknowledgement about receiving the content of file5 to		
	administration gate in SCL host in the SSP host domain.		
6	FSCS gate sends aFSS-0093-response-02 to FSCA gate with:	RQ0606_068	
	ASN1START	RQ0606_071	
	aFSS-0093-response-02FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-READ-Service-Response : {		
	aFS-Service-Response eFS-OK		
	}		
7	ASN1STOP   The administration gate in the Other host sends EVT_ADM_UNBIND event to the		
'	administration gate in the SSP host with:		
	PIPE <sub>BA</sub> : a dynamically assigned pipe identifier for the Accessor Authentication		
	service gate.		
8	FSCA gate sends aFSS-0093-command-03 to FSCS gate with:		
	ASN1START		
	aFSS-0093-command-03 FS-CONTROL-SERVICE-GATE-Commands ::= aFS-OP-FILE-READ-Service-Command : {		
	aSessionID aSessionID_1, /* <replace(asessionid_1)>*/</replace(asessionid_1)>		
	aOffset 0,		
	aNumberOfBytes 10		
	ASN1STOP		
9	FSCS gate sends aFSS-0093-response-03 to FSCA gate with:	RQ1003_014	
	ASNISTART		
	aFSS-0093-response-03 FS-CONTROL-SERVICE-GATE-Responses ::= aFS-OP-FILE-READ-		
	Service-Response : {    aFS-Service-Response eFS-BAD-SESSSION-ID		
	}		
	ASN1STOP	1	

#### 6.6.3.9.4 FSS\_0094 - Check the URN of SSP FS control service gate

Test identification		FSS_0094	
Test o	bjectives	Check the URN of the SSP FS control service gate is listed in the GATE_LIST re	egistry.
Configuration		CFFS_003	
refere	nce		
		Initial conditions	
The SS	SP FS control s	ervice is available in the SSP.	
		Test sequence	
Step	Description		Requirements
1	Administration	gate sends EVT_ADM_BIND to Administration gate in the SSP with:	
	PIPE	xx: a dynamically assigned pipe identifier for the identity service gate.	
	GATI	E <sub>IDENTITY</sub> : The UUID gate identifier of the identity gate (416B66AC-A134-5082-	
		)-FA1BA497F917).	
2		gate sends EVT_ADM_BIND to Administration gate in the other host with:	
		rx: a dynamically assigned pipe identifier for the identity application gate.	
	GATEIDENTITY: The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-		
	FA1BA497F917).		
3		ation gate sends ANY_GET_PARAMETER command (pipe PIPE <sub>XY</sub> ) to the	
		e gate in the SSP host with the register '04'H.	
4		e gate sends ANY_GET_PARAMETER response (pipe PIPE <sub>YX</sub> ) to the identity	
		te in the other host.	
		entifier '366BD642-D7DE-584A-BD3B-A3DCE29FC075' shall be present.	
5		gate sends EVT_ADM_UNBIND event to the administration gate in the SSP	RQ1003_007
	host with:		
		xy: a dynamically assigned pipe identifier for the identity service gate.	
	The pipe sess	ion between the Identity application gate and the Identity service gate is closed.	

#### 6.6.3.10 General Post Conditions

The General Post Conditions shall be executed after every test case in clause 6.6 (SSP File System).

General Post Conditions
The pipe session between the file system control application gate and the file system control service gate is closed.
The SSP file system is deleted except the root directory eFS-Name-SSPFS.

#### 6.6.3.11 Annex - End of ASN.1 structure

The annex shall be appended at the end of the SSP File System test descriptions.

-- ASN1START END -- ASN1STOP

#### 6.6.3.12 Implicitly tested requirements

The following requirements identified in clause 5.2.6 are generated from descriptive text. An explicit verification is not possible but with correct execution of the related function the requirements can be handled as implicitly verified.

RQ0606_001	RQ0606_002	RQ0606_003	RQ0606_007
RQ0606_010	RQ0606_012	RQ0606_013	RQ0606_014
RQ0606_015	RQ0606_016	RQ1003_001	RQ1003_008
RQ1003_009	RQ1003_010	RQ1003_011	RQ1003_012
RQ1003_013			

#### 6.6.3.13 Non tested requirements

The following requirements identified in clause 5.2.6 are either generated from descriptive text or not testable in the defined test environment. A verification of the listed requirements is not possible.

RQ0606_006	RQ0606_059
RQ1003_002	RQ1003_003

The following requirements are out of scope of the present document:

RQ1003\_017, RQ1003\_018, RQ1003\_019, RQ1003\_020

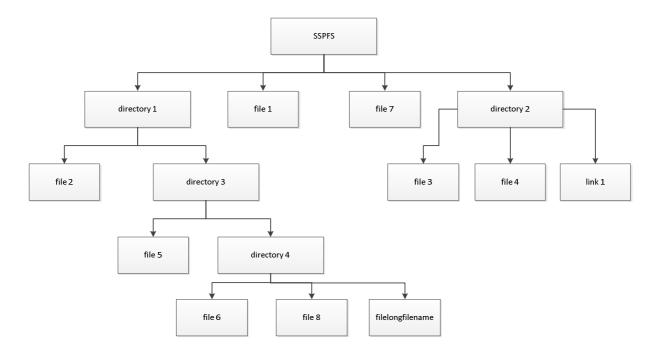
The following requirements are for further study:

RQ0606\_009

The following requirements are not testable:

RQ0606\_060

## 6.6.4 SSP File System configuration



aNodeName	aShortName	URN (NID:NSS)	aNode	aFileSize	aLinkedFileIdentity ->aShortName
SSPFS	eFS-ID-SSPFS	urn:etsi.org:SSPFS	aDirectory	-	-
directory1	eFS-ID-directory1	urn:etsi.org:SSPFS:directory1	aDirectory	-	-
directory2	eFS-ID-directory2	urn:etsi.org:SSPFS:directory2	aDirectory	-	-
directory3	eFS-ID-directory3	urn:etsi.org:SSPFS:directory1 :directory3	aDirectory	-	-
directory4	eFS-ID-directory4	urn:etsi.org:SSPFS:directory1 :directory3:directory4	aDirectory	-	-
file1	eFS-ID-file1	urn:etsi.org:SSPFS:file1	aFile	5	-
file2	eFS-ID-file2	urn:etsi.org:SSPFS:directory1 :file2	aFile	5	-
file3	eFS-ID-file3	urn:etsi.org:SSPFS:directory2 :file3	aFile	5	-
file4	eFS-ID-file4	urn:etsi.org:SSPFS:directory2 :file4	aFile	5	-
file5	eFS-ID-file5	urn:etsi.org:SSPFS:directory1 :directory3:file5	aFile	256	-
file6	eFS-ID-file6	urn:etsi.org:SSPFS:directory1 :directory3:directory4:file6	aFile	5	-
file7	eFS-ID-file7	urn:etsi.org:SSPFS:file7	aFile	5	-
file8	eFS-ID-file8	urn:etsi.org:SSPFS:directory1 :directory3:directory4:file8	aFile	5	-
filelongfilename	eFS-ID-	urn:etsi.org:SSPFS:directory1	aFile	5	-
	filelongfilename	:directory3:directory4:filelongfi lename			
link1	eFS-ID-link1	urn:etsi.org:SSPFS:directory2 :link1	aLink	5	'D44BD2F74D0B597 BB70F2C66F2BE5F9 B'H

aNodeName	aAccessorIdentity	aAccessorRights	aData	aNodeDirectoryIdentity ->aNodeReference
SSPFS	eFS-ACC-FSA1	eFS-ACL-SSPFS		
		eFS-ACL-		
directory1	eFS-ACC-FSA1	directory1	-	eFS-Name-SSPFS
•		eFS-ACL-		
directory2	eFS-ACC-FSA1	directory2	-	eFS-Name-SSPFS
		eFS-ACL-		
directory3	eFS-ACC-FSA1	directory3	-	"SSPFS:directory1"
•		eFS-ACL-		į
directory4	eFS-ACC-FSA1	directory4	-	"SSPFS:directory1:directory3"
file1	eFS-ACC-FSA1	eFS-ACL-file1	'0102030405'	eFS-Name-SSPFS
file2	eFS-ACC-FSA1	eFS-ACL-file2	'1122334455'	"SSPFS:directory1"
file3	eFS-ACC-FSA1	eFS-ACL-file3	'3333333333'	"SSPFS:directory2"
file4	eFS-ACC-FSA1	eFS-ACL-file4	'4444444444'	"SSPFS:directory2"
filos	oES ACC ESA1	oes act files	101112131415161718 191A1B1C1D1E1F 202122232425262728 292A2B2C2D2E2F  E0E1E2E3E4E5E6E7 E8E9EAEBECEDEEE F F0F1F2F3F4F5F6F7F 8F9FAFBFCFDFEFF'	"SSDES: directors (1 directors (2)"
file5	eFS-ACC-FSA1	eFS-ACL-file5	(256 Bytes)	"SSPFS:directory1:directory3"
file6	eFS-ACC-FSA1	eFS-ACL-file6	'6666666666'	"SSPFS:directory1:directory3: directory4"
file7	eFS-ACC-FSA1	eFS-ACL-file7	'777777777'	eFS-Name-SSPFS
IIICI	ei 3-ACC-F3A1	ei o-Act-illei	1111111111	"SSPFS:directory1:directory3:
file8	eFS-ACC-FSA1	eFS-ACL-file8	'8888888888'	directory4"
filelongfilename	eFS-ACC-FSA1	eFS-ACL- filelongfilename	'1234567890'	"SSPFS:directory1:directory3: directory4"
link1	eFS-ACC-FSA1	eFS-ACL-link1		"SSPFS:directory2"

## 6.7 SSP identification

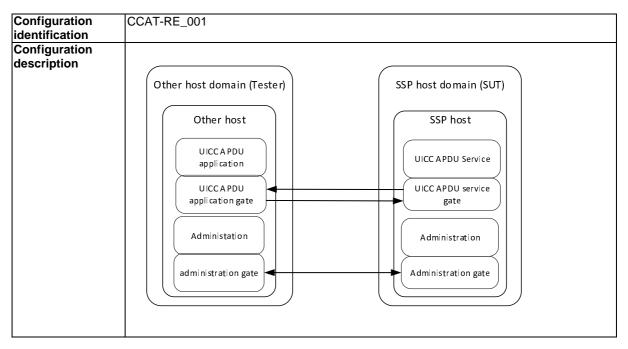
## 6.7.1 Requirements not tested

The following requirements identified in clause 5.2.7 are either generated from descriptive text or not testable in the defined test environment. A verification of the listed requirements is not possible: RQ0607\_001.

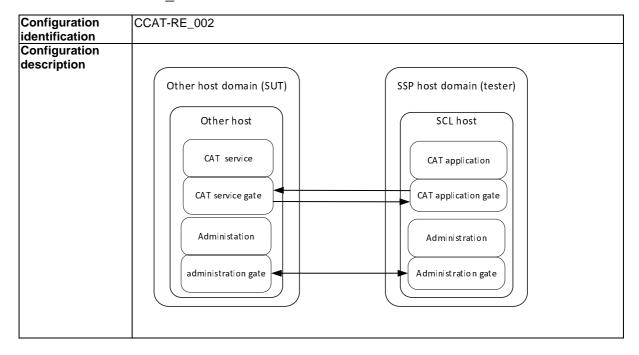
### 6.8 CAT-Runtime Environment

### 6.8.1 Configurations

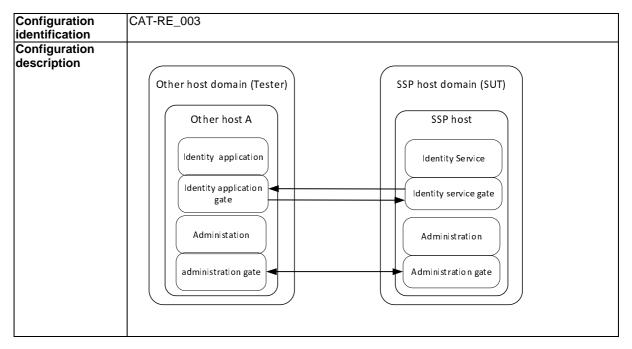
#### 6.8.1.1 CCAT-RE\_001



### 6.8.1.2 CCAT-RE\_002



### 6.8.1.3 CCAT-RE\_003



#### 6.8.2 Procedures

There are no procedures in this clause.

## 6.8.3 Test Descriptions

## 6.8.3.1 CAT-RE\_001 - Open a pipe session with the identity gates

Test id	lentification	CAT-RE_001		
	bjectives	The other host shall be able to open a pipe session to the identity gate	of the SSP host	
1.001.0	.,	From the CAPABILITY_EXCHANGE registry, the capability of the SSP is extracted.		
		The test is successful if:	io omiaotoa.	
		A pipe session is open between the identity application in the other host and the		
		identity service in the SSP host.	other floot and the	
		The CAPABILITY_EXCHANGE registry is present.		
		The SspUiccCapability record is readable from the CAPABIL	ITY EXCHANGE	
		registry.	11 1_EXO11/110E	
		aSupportOfCardApplicationToolkit shall be TRUE		
Config	uration	CCAT-RE_003		
referer		OOA1-RE_000		
TOTOTO	100	Initial conditions		
The SC	I host in the S	SSP host domain is present.		
1110 00	DE 1103t III tille C	Test sequence		
Step	Description	rest sequence	Requirements	
1		gate sends EVT_ADM_BIND to Administration gate in the SSP with:	Requirements	
'		f(x): a dynamically assigned pipe identifier for the identity service gate.		
		E <sub>IDENTITY</sub> : The UUID gate identifier of the identity service gate.		
		4-5082-8160-FA1BA497F917).		
2	Administration	gate sends EVT_ADM_BIND to Administration gate in the other		
	host with:			
	PIPE	yx: a dynamically assigned pipe identifier for the identity application		
	gate	•		
	GATI	EIDENTITY: The UUID gate identifier of the identity gate (416B66AC-		
	A134	1-5082-8160-FA1BA497F917).		
3		ation gate sends ANY_GET_PARAMETER command (pipe PIPE <sub>XY</sub> )		
	to the identity	service gate in the SSP host with the register '04'H.		
4	Identity servic	e gate sends ANY_GET_PARAMETER response (pipe PIPEyx) to		
	the identity ap	plication gate in the other host.		
	The service id	entifier 'dd61116f-f0dd-57f4-8a4f-52ee70276f24' shall be present.		
		ccessful if the previous requirement is satisfied.		
5	Identity applicate.	ation gate sends any_get_parameter (0x80) to the identity service		
6		e gate sends any_OK with SspUiccCapability to the Identity	RQ0608_002	
0		te. SSP capabilities shall have "SspUiccCapability" record.	RQ1008_001	
	value1 SSPC		KQ1000_001	
	aSspRelease			
		SSPClass-Integrated,		
	aSspUicc {	CS. S.830 Integration,		
		fLogicalChannels 4,		
		PollingRequirement TRUE,		
		UiccFileSystem TRUE,		
		CardApplicationToolkit TRUE,		
		cationToolkitCapabilities '00'H		
	}			
	}			
	and aSupport	OfCardApplicationToolkit shall be TRUE.		
		tionToolkitCapabilities shall be present.		
7		gate sends EVT_ADM_UNBIND event to the administration gate in		
	the SSP host			
	PIPE	xy: a dynamically assigned pipe identifier for the identity service gate.		
		ion between the Identity application gate and the Identity service		
		. This step is required to clean up the context of the tests but it is not		
		ne test objective.		

## 6.8.3.2 CAT-RE\_002 - Open a pipe session with the CAT gates

Test ic	est identification CAT-RE_002				
Test objectives The Other host shall be able to open a pipe session to the CAT application g			ation gate of the		
	SSP host. From the gate_list registry, the uuid of the root accessor shall be listed.				
		If the test is successful, then a pipe session is open between the CAT	application in the		
		SSP host and the CAT service in the Other host.			
		The gate identifier of the CAT service is FF00453F-B0D5-59CE-B0D4	-3AE178432F73		
		and is related to the RE only in order to be independent of the configuration	ration.		
Config	guration	CCAT-RE_001			
refere	nce				
		Initial conditions			
		Test sequence			
Step	Description		Requirements		
1	Administration	n gate sends EVT_ADM_BIND to Administration gate in the SSP with:			
	PIPE	xy: a dynamically assigned pipe identifier for the CAT service gate.			
	<ul> <li>GAT</li> </ul>	ECAT: The UUID gate identifier of the CAT gate (FF00453F-B0D5-			
	59C	E-B0D4-3AE178432F73).			
2 Administration gate sends EVT_ADM_BIND to Administration gate		n gate sends EVT_ADM_BIND to Administration gate in the other	RQ0608_002		
	host with:				
	PIPE	rx: a dynamically assigned pipe identifier for the CAT application			
gate		•			
	<ul> <li>GAT</li> </ul>	E <sub>CAT</sub> : The UUID gate identifier of the CAT gate (FF00453F-B0D5-			
	59C	E-B0D4-3AE178432F73).			

## 6.8.3.3 CAT-RE\_003 - Open a pipe session with the APDU UICC gates

Test id	dentification	CAT-RE_003	
<b>Test objectives</b> The Other host shall be able to open a pipe session to th			U gate of the SSP
		host.	•
		If the test is successful, then a pipe session is open between the UICC	C APDU application
		in the Other host and the UICC APDU service in the SSP host.	
		The gate identifier of the UICC APDU service is B9A3405D-1017-59A	D-B959-
		2689DBEFF652.	
Config	guration	CCAT-RE_001	
refere	nce		
		Initial conditions	
		Test sequence	
Step	Description		Requirements
1	Administration	n gate sends EVT_ADM_BIND to Administration gate in the SSP with:	
	PIPE	Exy: a dynamically assigned pipe identifier for the UICC APDU	
	appl	ication gate.	
	GAT	EAPDU: The UUID gate identifier of the UICC APDU gate (B9A3405D-	
	1017	7-59AD-B959-2689DBEFF652).	
2	Administration	n gate sends EVT_ADM_BIND to Administration gate in the other	RQ0608_002
	host with:		
	PIPE	Eyx: a dynamically assigned pipe identifier for the UICC APDU	
	appl	ication gate.	
		E <sub>APDU</sub> : The UUID gate identifier of the UICC APDU gate (B9A3405D-	
1		7-59AD-B959-2689DBFFF652)	

## 6.8.3.4 CAT-RE\_004 - UICC capability

Test id	dentification	CAT-RE_004	
Test o	bjectives	CAT-RE specific field "SspUiccCapability" shall be in Capabilities of the SSP and	
	-	aToolkitTerminalProfile shall be in TerminalCapability.	
Config	guration	CCAT-RE_003	
refere	nce		
		Initial conditions	
The te	st CAT-RE_00	1 shall be successfully passed.	
		Test sequence	
Step	Description		Requirements
1	Identity applic	cation gate sends any_get_parameter (0x80) to the identity service	
	gate.		
2	Identity service	ce gate sends any_OK with <b>SspUiccCapability</b> to the Identity	RQ0608_002
	application ga	ate.	
	SSP capabilit	ies shall have "SspUiccCapability" field.	
	value1 SSPC	apability ::= {	
	aSspReleas	e '0000'H,	
	aSspClass e	eSSPClass-Integrated,	
	aSspUicc {		
	aNumberO	ofLogicalChannels 4,	
	aProactive	PollingRequirement TRUE,	
	aSupportO	fUiccFileSystem TRUE,	
	aSupportO	fCardApplicationToolkit TRUE,	
	aCardAppl	icationToolkitCapabilities '00'H	
	}	•	
	}		
	and aSupport	OfCardApplicationToolkit shall be TRUE.	
		tionToolkitCapabilities shall be present.	

## 6.8.3.5 CAT-RE\_005 - Exchange Capabilities

Test id	dentification	CAT-RE_005	
Test o	bjectives	The other host shall retrieve from a SCL host in the SSP host domai UICC APDU service the SSPCapability record as defined in ETSI TS clause 6.4.2.5.	
Config	guration	CCAT-RE_001	
refere	nce		
		Initial conditions	
The te	st CAT-RE_00	1 shall be successfully passed.	
The te	st CAT-RE_00	3 shall be successfully passed.	
		Test sequence	
Step	Description		Requirements
1	The UICC AP	DU application gate sends EVT_C-APDU event to UICC APDU	RQ0604_002
	service gate.	The EVT-C-APDU contains the EXCHANGE CAPABILITIES as	RQ0608_003
	defined in ET	SI TS 103 666-1 [1], clause 10.2.3.2.	
	The terminal	capability is defined in ETSI TS 103 666-1 [1], clause 6.4.2.4.	
2	The UICC AP	DU service gate sends EVT_R-APDU event to UICC APDU	RQ0608_004
	application ga	te. The EVT_C-APDU event contains SSPCapability as defined in	
	ETSI TS 103	666-1 [1], clause 6.4.2.5.	

## 6.8.3.6 CAT-RE\_006 - Event toolkit event

Test id	dentification	CAT-RE_006		
Test o	bbjectives Before sending the CAT command, SSP Host issues EVT_TOOLKIT_REQUEST to the			
		other host.		
Config	guration	CCAT-RE_001		
refere	ence			
		Initial conditions		
The te	est CAT-RE_00	1 shall be successfully passed.		
The te	est CAT-RE_00	5 shall be successfully passed.		
		Test sequence		
Step	Description		Requirements	
1	The UICC AP	DU application gate sends EVT_C-APDU event to UICC APDU		
	service gate.	The EVT-C-APDU contains an APDU command, targeted to installed		
	SSP application	on.		
2	The UICC AP	DU service gate sends EVT_R-APDU event to UICC APDU	RQ0608_005	
	application ga	te. The EVT_C-APDU event contains an event		
	EVT_TOOLK	T_REQUEST to the other host.		

## 6.8.3.7 CAT-RE\_007 - EXCHANGE CAPABILITIES Events

Test ic	dentification	CAT-RE_007				
Test o	bjectives	pjectives During the EXCHANGE CAPABILITIES exchange, SSP Host shall trigger two events				
		EVENT_PROFILE_DOWNLOAD and EVENT_FIRST_COMMAND_AF	FTER_ATR to all			
		application installed in SSP host.				
Config	guration	CCAT-RE_001				
refere	nce					
		Initial conditions				
The te	st CAT-RE_00	1 shall be successfully passed.				
The te	st CAT-RE_00	5 shall be successfully passed.				
		Test sequence				
Step	Description	•	Requirements			
5	During the EX	CHANGE CAPABILITIES exchange, SSP Host shall trigger two	RQ0608_006			
	events EVENT_PROFILE_DOWNLOAD and					
	EVENT_FIRST_COMMAND_AFTER_ATR as defined in ETSI TS 102 241 [14] and					
	pass them to	all the installed applications in the SSP Host.				

## 6.8.3.8 CAT-RE\_008 - CAT command exchanges

Test id	lentification	CAT-RE_008			
Test o	SCL host in the SSP host domain shall be able to send and receive the CAT command via CAT application gate.				
Config referer	uration nce				
		Initial conditions			
The tes	st CAT-RE_00	1 shall be successfully passed.			
The tes	st CAT-RE_00	5 shall be successfully passed.			
		Test sequence			
Step	Description	·	Requirements		
1	The CAT app	lication gate sends CAT command to CAT service gate.	RQ0608_007		
2	The CAT serv	rice gate sends CAT response to CAT application gate.			

### 6.8.3.9 CAT-RE\_009 - CAT event triggers

Test id	dentification	CAT-RE_009			
Test of	bjectives	CAT-RE shall Trigger the applets based on events received by the CA	AT application gate.		
Config	juration	CCAT-RE_002			
referer	nce				
		Initial conditions			
The tes	The test CAT-RE_001 shall be successfully passed.				
The tes	st CAT-RE_005	5 shall be successfully passed.			
The tes	st CAT-RE_008	3 shall be successfully passed.			
		Test sequence			
Step	Description		Requirements		
1	Received ever	nts on CAT Application gate of SSP Host, CAT-RE shall forward	RQ0608_008		
	these events t	to the installed application in the SSP Host.			

#### 6.8.3.10 CAT-RE\_010 - CAT events

Test id	dentification	CAT-RE_010	
Test o	bjectives	CAT-RE shall Trigger the applets based on events received by the CA	T application gate.
Config	guration	CCAT-RE_003	
referer	nce		
		Initial conditions	
The tes	st CAT-RE_00 <sup>2</sup>	shall be successfully passed.	
The tes	st CAT-RE_005	shall be successfully passed.	
		Test sequence	
Step	Description		Requirements
1	During the EX	CHANGE CAPABILITIES exchange, SSP Host shall trigger two	RQ0608_009
	events EVEN	Γ_PROFILE_DOWNLOAD and	
	EVENT_FIRS	T_COMMAND_AFTER_ATR as defined in ETSI TS 102 241 [14] and	
	forward them	to all installed applications in SSP Host.	

#### 6.8.3.11 CAT-RE\_011 - External and file update events

Test ic	Test identification   CAT-RE_011			
Test o	Test objectives At file update of UICC file system, CAT-RE of SSP Host generate the		9	
		EVENT_EXTERNAL_FILE_UPDATE and EVENT_REMOTE_FILE_U	JPDATE event.	
Config	guration	CCAT-RE_003		
refere	nce			
		Initial conditions		
The te	st CAT-RE_00	1 shall be successfully passed.		
The te	The test CAT-RE_005 shall be successfully passed.			
The te	The test CAT-RE_008 shall be successfully passed.			
		Test sequence		
Step	Description		Requirements	
1		e, CAT-RE raise two events EVENT_EXTERNAL_FILE_UPDATE	RQ0608_010	
	and EVENT_	REMOTE_FILE_UPDATE according to ETSI TS 102 241 [14] and		
	pass to install	applet in SSP host.		

#### 6.8.3.12 Implicitly tested requirements

The following requirements identified in clause 5.2.8 are generated from descriptive text. An explicit verification is not possible but with correct execution of the related function the requirements can be handled as implicitly verified:

RQ0608\_001, RQ0608\_003, RQ0608\_011.

## 6.9 SSP Suspension

## 6.9.1 Configurations

There are no specific configurations for this topic. Configurations from the CAT-Runtime Environment clause of the present document are used in the following test descriptions.

#### 6.9.2 Procedures

There are no specific procedures for this topic.

### 6.9.3 Test Descriptions

#### 6.9.3.1 CAT-SUSPENSION\_001 - Saving current state

Test identification		CAT-SUSPENSION_001	
Test o	bjectives	SSP suspends and save its current state.	
Config	guration	CCAT-RE 001	
refere		_	
		Initial conditions	
The te	st CAT-RE_00	1 shall be successfully passed.	
		Test sequence	
Step	p Description Requirement		Requirements
1	Other host sh	all send UICC suspension Command (defined in ETSI	RQ0609_003
	TS 102 221 [7]) to SSP host and SSP host shall suspend. SSP Host shall save its		RQ0609_007
	current state.	·	
	<ul> <li>statu</li> </ul>	s of selected applications on each logical channel;	
security context related to PIN verification status for each application;			
<ul> <li>selected EF, record pointer and tag pointer for each logical channel;</li> </ul>			
		s of toolkit applications.	
2			RQ0609_002

#### 6.9.3.2 CAT-SUSPENSION\_002 - Resume last suspended state

Test identification		CAT-SUSPENSION_002	
Test objectives		SSP resumes from its last suspended state	
Config	guration	CCAT-RE_001	
refere	nce		
		Initial conditions	
The te	st CAT-RE_00	1 shall be successfully passed.	
		Test sequence	
Step	Description	•	Requirements
1	Other host sh	all send UICC suspension Command (defined in ETSI	RQ0609_003
	TS 102 221 [	7]) to SSP host and SSP host shall suspend.	RQ0609_007
2		leactivate the physical interface of SSP and there is no Power supply	RQ0609_002
	to the SSP.		
3		alization process shall be the same as the previous "EXCHANGE	RQ0609_005
	CAPABILITIES" process.		
4		atic gates shall open and the UICC APDU pipe session shall be open	
		P Host and Other host.	
5	Outside SSP host shall send UICC resume Command (defined in ETSI		
		7]) to SSP host.	
6		all load all the saved states:	RQ0609_004
		us of selected applications on each logical channel;	
		urity context related to PIN verification status for each application;	
		cted EF, record pointer and tag pointer for each logical channel;	
		us of toolkit applications.	
7		all be able to access the UICC application and need not require PIN	RQ0609_004
	verification (if	it is verified before suspend).	

#### 6.9.3.3 CAT-SUSPENSION\_003 - Suspension rejection

Test identification CA		CAT-SUSPENSION_003	
Test objectives  In case SCL is used, SSP suspension shall be rejected when there is more than 1 (only pipe available is for transporting APDUs as defined in ETSI TS 103 666-1 [1] clause 10.2.8) to the SSP.			
Config	guration	CCAT-RE_001	
refere	nce		
		Initial conditions	
The te	st CAT-RE_00	1 shall be successfully passed.	
		Test sequence	
Step	Description		Requirements
1	Tester creates	s more than one UICC APDU pipe session.	
2	Other host shall send UICC suspension Command (defined in ETSI RQ0609_008		
	TS 102 221 [7]) to SSP host and SSP host shall reject the UICC suspension		
	Command.		

#### 6.9.3.4 Implicitly tested requirements

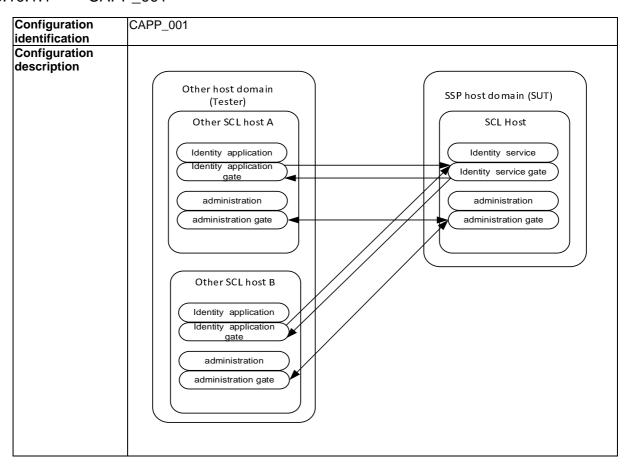
The following requirements identified in clause 5.2.9 are generated from descriptive text. An explicit verification is not possible but with correct execution of the related function the requirements can be handled as implicitly verified:

RQ0609\_001, RQ0609\_002, RQ0609\_003, RQ0609\_006, 0609\_007.

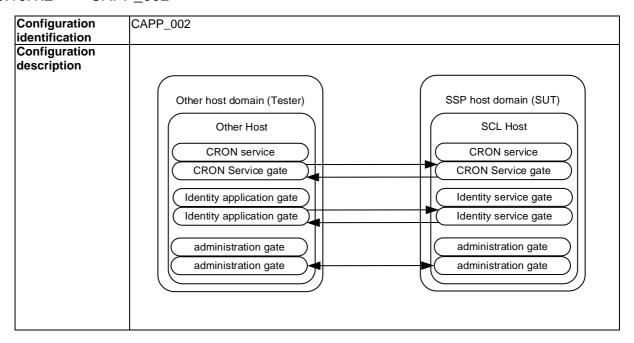
## 6.10 SSP Applications

## 6.10.1 Configurations

#### 6.10.1.1 CAPP\_001



## 6.10.1.2 CAPP\_002



#### 6.10.2 Procedures

There are no specific procedures for this topic.

## 6.10.3 Test Descriptions

## 6.10.3.1 APP\_001

Test id	dentification	APP_001	
Test objectives		If there are no restrictions of the execution environment and/or of the SSP Application shall not block another SSP Application from excharterminal on a different SSP interface session.	
Config	guration	CAPP_001	
refere	nce		
		Initial conditions	
•	SSP shall su	upport SCL layer.	
•	SSP Host sh	nall open two SSP interface sessions one with "other host A" and second	and with "other host B".
•	The Identity	pipe session shall open between "SSP Host and other host A" and "S	SP host and other host B".
		Test sequence	
Step	Description		Requirements
1	Identity applications service gate.	Identity application gate of other host A sends any_get_parameter to the identity service gate.	
2	Identity service gate of SSP host sends any_OK to the Identity application gate in other host A on same SSP interface session.		
3	Identity application gate of other host B sends any_get_parameter to the identity service gate.		
4	Identity service gate of SSP host sends any_OK to the Identity application gate of other host B on same SSP interface session.		
	One Identity application shall not block another Identity application		

#### 6.10.3.2 APP\_002

Test ic	dentification	APP_002	
Test objectives		If there are no restrictions of the execution environment and/or of the one SSP Application shall not block another SSP Application from extended the terminal on the same SSP interface session.	
Config	guration	CAPP_002	
refere	nce		
		Initial conditions	
•	<ul> <li>SSP shall support SCL layer and CRON application gate as described in ETSI TS 103 666-1 [1].</li> <li>The CRON pipe session shall be open between SSP Host and Other host.</li> <li>The Identity pipe session shall open between SSP Host and Other host.</li> </ul>		103 666-1 [1].
		Test sequence	
Step	Description		Requirements
1	Identity application gate of the other host sends any_get_parameter to the identity service gate.		
2 Identity service gate of SSP host sends any_OK to the Identity application gate in		RQ0610_004	
3	3 CRON application registers a timer in a CRON service in order to receive a notification (i.e. event) at a given time and date in the future.		
4			

#### 6.10.3.3 Requirements not testable, implicitly verified or verified elsewhere

#### 6.10.3.3.1 Requirements implicitly verified

The following requirements identified in clause 5.2.10 are generated from descriptive text. An explicit verification is not possible but with correct execution of the related function the requirements can be handled as implicitly verified:

RQ0610\_002.

#### 6.10.3.3.2 Requirements verified elsewhere

The following requirements identified in clause 5.2.10 are not tested in accordance with the present document, as they are referencing requirements from a different standardization body: RQ0610\_005, RQ0610\_006.

## 6.11 SSP security

## 6.11.1 Requirements not testable, implicitly verified or verified elsewhere

#### 6.11.1.1 Requirements verified elsewhere

The following requirements identified in clause 5.2.11 are not tested in accordance with the present document, as they are referencing requirements from a different standardization body:

RQ0611_004	RQ0611_005	RQ0611_006
RQ0611_007	RQ0611_008	RQ0611_009
RQ0611_010	RQ0611_014	RQ0611_015
RQ0611_016	RQ0611_017	

#### 6.11.1.2 Requirements implicitly verified

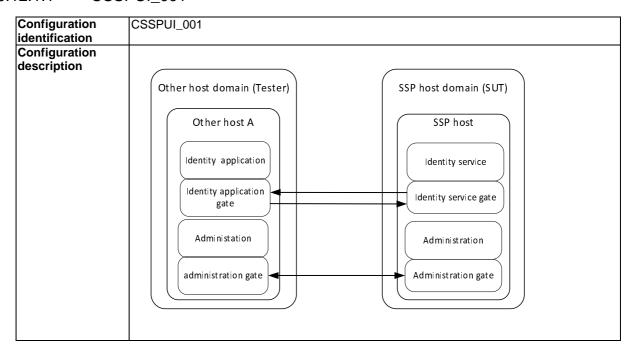
The following requirements identified in clause 5.2.11 are generated from descriptive text. An explicit verification is not possible but with correct execution of the related function the requirements can be handled as implicitly verified:

RQ0611_001	RQ0611_002	RQ0611_003
RQ0611_011	RQ0611_012	RQ0611_013
RQ0611_018		

## 6.12 User interface

## 6.12.1 Configurations

#### 6.12.1.1 CSSPUI\_001



#### 6.12.1.2 ASN.1 definitions

The following definitions are used for the procedures and the test descriptions.

```
-- ASN1START

SSPINIconfigurations { itu-t (0) identified-organization (4) etsi (0) smart-secure-platform (3666) part1 (1) test (2) initialization (1)}

DEFINITIONS

AUTOMATIC TAGS

EXTENSIBILITY IMPLIED ::=

BEGIN

EXPORTS ALL;

/* Imports */

IMPORTS

SSPClass ,

SSPCapability,

TerminalCapability,

VersionType

FROM SSPDefinitions;

-- ASN1STOP
```

## 6.12.2 Procedures

## 6.12.2.1 PSSPUI\_001 - Open a pipe session with the Identity gate of the SSP host

Proced	dure	PSSPUI_001
identification		
Proced	dure	The other host shall be able to open a pipe session to the identity gate of the SSP host.
object	ives	
Config	uration	CSSPUI_001
referer	nce	
		Initial conditions
The SS	SP host is regi	stered to the SCL network controller host.
		Procedure sequence
Step	Description	
1	Administration	n gate in the other host sends EVT_ADM_BIND to Administration gate in the SSP host
	with:	
	PIP	Exx: a dynamically assigned pipe identifier for the identity service gate.
	• GA	FEIDENTITY: The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-
	FA1BA497F917).	
2	2 Administration gate in the SSP host sends EVT_ADM_BIND to Administration gate in the other host	
	with:	
	• PIP	E <sub>YX</sub> : a dynamically assigned pipe identifier for the identity application gate.
GATE <sub>IDENTITY</sub> : The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-FA1BA497F917).		

## 6.12.3 Test descriptions

## 6.12.3.1 SSPUI\_001 - SSPCapabilities of SSPUI

Test identification	SSPUI_001	
Test objectives	To test that the SSP indicates a URL in the capability exchange.	
Configuration	CSSPUI 001	
reference		
	Initial conditions	
The procedure PSSPI	JI_001 is successfully executed.	
ASN1START	·	
	TRUE /* <store(atrue)>*/</store(atrue)>	
aFalse BOOLEAN ::=	FALSE /* <store(afalse)>*/</store(afalse)>	
aEMPTY_2 OCTET STR aSSPRELEASE Version present document the aSSPCLASS_1 SSPClanaSSPCLASS_2 SSPClanaSSPCLASS_3 SSPClanaSSPCLASS_3 SSPClanaSSPCLASS_3 SSPCLASS_3 SSPCLASS_5 SSPCLA	aEMPTY_1 UTF8String ::= "" /* <store(aempty_1)>*/ aEMPTY_2 OCTET STRING ::= ''H /*<store(aempty_2)>*/ aSSPRELEASE VersionType::= '0F00'H /* <store(assprelease)> *//* it indicates the release of the present document that is implemented by the SSP*/ aSSPCLASS_1 SSPClass ::= eSSPClass-Integrated /* <store(asspclass_1)> */ aSSPCLASS_2 SSPClass ::= eSSPClass-Embedded-Type1 /* <store(asspclass_2)> */ aSSPCLASS_3 SSPClass ::= eSSPClass-Embedded-Type2 /* <store(asspclass_3)> */ aSSPCLASS_4 SSPClass ::= eSSPClass-Removable /* <store(asspclass_4)> */</store(asspclass_4)></store(asspclass_3)></store(asspclass_2)></store(asspclass_1)></store(assprelease)></store(aempty_2)></store(aempty_1)>	
NBLOGICALCHANNELS_MIN INTEGER ::= 1 /* <store(anblogicalchannels_min)> *//* it indicates the dinimum nb of logical channels, including the default channel, that can be supported by an SSP*/NBLOGICALCHANNELS_MAX INTEGER ::= 14 /* <store(anblogicalchannels_max)> *//* it indicates the maximum nb of logical channels, including the default channel, that can be supported by an SSP*/- ASN1STOP</store(anblogicalchannels_max)></store(anblogicalchannels_min)>		

	Test sequence				
Step	Description	Requirements			
1	Identity application gate sends ANY_GET_PARAMETER command with the register identifier '80' (CAPABILITY_EXCHANGE) to the Identity service gate.				
2	The Identity service gate sends aResponse to the Identity application gate ASNISTART  aResponse SSPCapability ::= {	RQ0612_01			

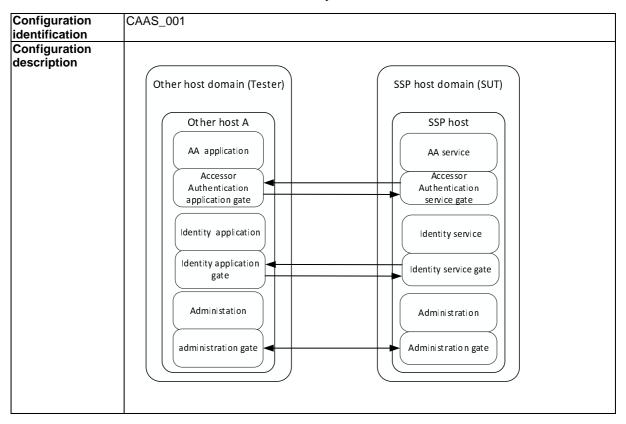
## 6.12.3.2 Non tested Requirements

The following requirements are not tested in the current version of the present document:  $RQ0612\_02,\,RQ0612\_03,\,RQ0612\_04$ 

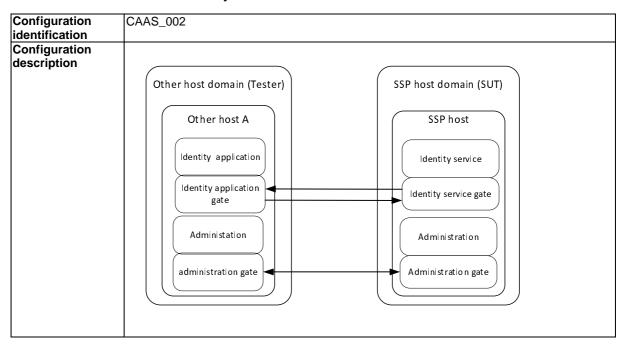
### 6.13 Accessor authentication service

## 6.13.1 Configurations

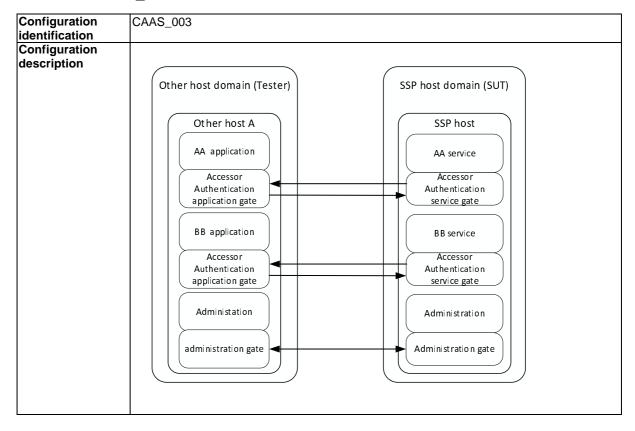
#### 6.13.1.1 CAAS\_001 - Accessor and Identity services



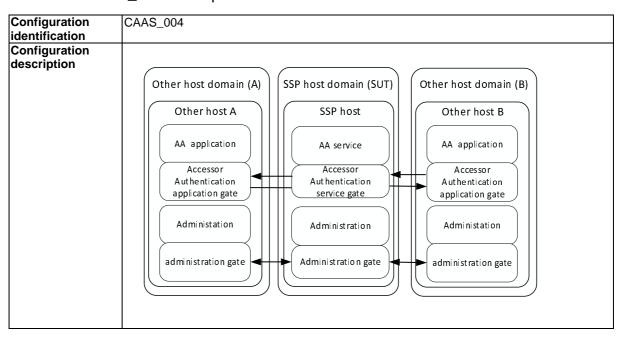
#### 6.13.1.2 CAAS\_002 - Identity service



#### 6.13.1.3 CAAS\_003 - Generic Accessor



#### 6.13.1.4 CAAS\_004 - Multiple host domains



#### 6.13.1.5 ASN.1 definitions

The following definitions are used for the procedures and the test descriptions.

```
-- ASN1START
SSPAASconfigurations { itu-t (0) identified-organization (4) etsi (0) smart-secure-platform (3666)
part1 (1) test (2) aas (3)}
DEFINITIONS
AUTOMATIC TAGS
EXTENSIBILITY IMPLIED ::=
BEGIN
EXPORTS ALL;
/* Imports */
IMPORTS
  NodeName, -- RFC5280 Certificate X.509v3
   AccessMode,
  UUID.
  SessionID,
  AccessorRights,
  AAS-CONTROL-SERVICE-GATE-Commands,
  AAS-CONTROL-SERVICE-GATE-Responses,
  Certificate,
  AuthenticationToken,
  AccessorConditionsPIN
  AccessorConditions,
  Version,
  VersionType
FROM SSPDefinitions
  SubjectPublicKeyInfo
FROM PKIX1Explicit88
  ECDSA-Sig-Value,
id-ecPublicKev
FROM PKIX1Algorithms88;
eAASVersion VersionType ::='0100' --Version 01.00
-- urn:etsi.org:asn.1:accessor:test:1
- urn:etsi.org:asn.1:accessor:test:2
--urn:etsi.org:asn.1:accessor:test:group:1
eAS-ID-ACC-TEST-GROUP-1 UUID::='cb807bb95f6452fbade0fbbb3bfb3562'H
-- urn:etsi.org:asn.1:accessor:root
eAS-ID-ACC-ANONYMOUS UUID::= '4E46645FE6005A70AD7A60D6E5345E0B'H
-- urn:etsi.org SSP:ASN.1:Anonymous
eAS-ID-AAS-GateID UUID::='AAAAAAABBBBCCCCDDDDEEEEEEEEEEE'H
                   UUID::='BA64E9EE888952F4891DA79401758FF4'H
eAS-Challenge
--eAASAccessRight-RequiresSecurePipe AccessorRights ::= {eRight-Bit1 }
--eAASAccessRight-Create AccessorRights ::= { eRight-Bit2 --eAASAccessRight-Delete AccessorRights ::= { eRight-Bit3
--eAASAccessRight-Update AccessorRights ::= { eRight-Bit4
--eAASAccessRight-UpdateACL AccessorRights ::= { eRight-Bit5
--eAASAccessRight-UpdateGroup AccessorRights ::= { eRight-Bit6 }
--eAASAccessRight-UpdateCredentialPolicy AccessorRights ::= { eRight-Bit7 } --eAASAccessRight-UpdateCredentialStatus AccessorRights ::= { eRight-Bit8 }
-- The root accessor rights
                       AccessorRights ::= {
eAS-ACL-ROOT
--eAASAccessRight-RequiresSecurePipe-- eRight-Bit1,
--eAASAccessRight-Create AccessorRights--eRight-Bit2,
--eAASAccessRight-Delete--
                            eRight-Bit3,
--eAASAccessRight-Update AccessorRights--eRight-Bit4,
--eAASAccessRight-UpdateACL-- eRight-Bit5,
--eAASAccessRight-UpdateGroup-- eRight-Bit6,
--eAASAccessRight-UpdateCredentialPolicy-- eRight-Bit7,
--eAASAccessRight-UpdateCredentialStatus-- eRight-Bit8
-- The TEST 1 accessor may update its \mathtt{ACL}
eAS-ACL-TEST-1
                       AccessorRights ::= {
--eAASAccessRight-UpdateACL--
                                   eRight-Bit5.
-- \verb|eAASAccessRight-UpdateCredentialPolicy--| eRight-Bit7|,
--eAASAccessRight-UpdateCredentialStatus-- eRight-Bit8
                    }
```

```
-- The TEST 1 accessor cannot update its ACL
eAS-ACL-TEST-1-F
                           AccessorRights ::= {
-- The TEST 2 accessor rights
eAS-ACL-TEST-2 AccessorRights ::= {
--eAASAccessRight-Create AccessorRights--eRight-Bit2,
--eAASAccessRight-Delete-- eRight-Bit3,
--eAASAccessRight-Update AccessorRights--eRight-Bit4,
--eAASAccessRight-UpdateACL-- eRight-Bit5,
--eAASAccessRight-UpdateGroup-- eRight-Bit6,
--eAASAccessRight-UpdateCredentialPolicy-- eRight-Bit7,
--eAASAccessRight-UpdateCredentialStatus-- eRight-Bit8
-- The TEST-GROUP-2 accessor ACL
eAS-ACL-TEST-GROUP-2
                              AccessorRights ::= {
-- \verb|eAASAccessRight-UpdateCredentialPolicy--| eRight-Bit7|,
--eAASAccessRight-UpdateCredentialStatus-- eRight-Bit8
-- The TEST 2 accessor rights
eAS-ACL-TEST-GROUP-1 AccessorRights ::= {
--eAASAccessRight-Create AccessorRights--eRight-Bit2,
--eAASAccessRight-Delete-- eRight-Bit3,
--eAASAccessRight-Update AccessorRights--eRight-Bit4,
--eAASAccessRight-UpdateACL-- eRight-Bit5,
--eAASAccessRight-UpdateGroup-- eRight-Bit6
eAS-ACL-ROOT-GROUP AccessorRights ::= {
--eAASAccessRight-UpdateGroup-- eRight-Bit6,
--eAASAccessRight-UpdateCredentialStatus-- eRight-Bit8
}
-- Host domains identifiers
-- urn:etsi.org:asn.1:REE:hostdomain:A
eAS-ID-HOST-DOMAIN-A UUID::= '4af8347ad30358e29efbcebed01981d7'H
-- urn:etsi.org:asn.1:REE:hostdomain:B
eAS-ID-HOST-DOMAIN-B UUID::= 'EE9294D5B21558ECB0338A1F69386CA7'H
-- ASN1STOP
```

#### 6.13.2 Procedures

#### 6.13.2.1 PAAS\_021 - Open a pipe session with the Identity gate

Procedure	PAAS_021	
identification		
Procedure	The other host shall be able to open a pipe session to the identity gate of the SSP host.	
objectives	From the GATE_LIST registry, the UUID of the root accessor shall be listed.	
	If the procedure is successful then a pipe session is open between the identity application	
	in the other host and the identity service in the SSP host.	
Configuration	CAAS_002	
reference		
Initial conditions		

Root accessor (UUID: DD61116F-F0DD-57F4-8A4F-52EE70276F24) is existing.

The root accessor is available in SSP prepared for tests purpose. The tester acting as an accessor shall be able to be authenticated by using an authentication token authenticated by a certification path.

	Procedure sequence			
Step	Description			
1	Administration gate sends EVT_ADM_BIND to Administration gate in the SSP with:			
	<ul> <li>PIPExy: a dynamically assigned pipe identifier for the identity service gate.</li> </ul>			
	GATEIDENTITY: The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-			
	FA1BA497F917).			
2	Administration gate sends EVT_ADM_BIND to Administration gate in the other host with:			
	<ul> <li>PIPE<sub>YX</sub>: a dynamically assigned pipe identifier for the identity application gate.</li> </ul>			
	GATEIDENTITY: The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-			
	FA1BA497F917).			
3	Identity application gate sends ANY_GET_PARAMETER command (pipe PIPExy) to the identity service			
	gate in the SSP host with the register '04'H.			
4	Identity service gate sends ANY_GET_PARAMETER response (pipe PIPE <sub>YX</sub> ) to the identity application			
	gate in the other host.			
	The gate identifier 'DD61116F-F0DD-57F4-8A4F-52EE70276F24' shall be present. The procedure is			
	successful if the previous requirement is satisfied.			

## 6.13.2.2 PAAS\_022 - Open a pipe session with the ROOT Accessor Authentication service

Servic	o <del>c</del>	
Procedure identification	PAAS_022	
Procedure objectives	The other host shall be able to open a pipe session to the authentication service gate of the SSP host.  If the procedure is successful then a pipe session is open between the accessor authentication application in the other host and the accessor authentication service in the SSP host.	
Configuration reference	CAAS_001	
	Initial conditions	
Root accessor (UUID: DD61116F-F0DD-57F4-8A4F-52EE70276F24) is existing. This UUID is also the identity of the Root accessor. This root accessor is dedicated for the tester and assigned to the test providers using the ETSI SSP tests.  The procedure AAS_021 shall be successfully executed:  • The ROOT accessor is present in the GATE_LIST registry of the Identity gate		

•	<ul> <li>The ROOT accessor is present in the GATE_LIST registry of the Identity gate</li> </ul>				
	Procedure sequence				
Step	Description				
1	Administration gate sends EVT_ADM_BIND to Administration gate in the SSP with:				
	<ul> <li>PIPE<sub>BA</sub>: a dynamically assigned pipe identifier for the Accessor Authentication service gate.</li> </ul>				
	GATEROOT: The UUID gate identifier of the root Accessor Authentication service gate				
	(DD61116F-F0DD-57F4-8A4F-52EE70276F24).				
2	Administration gate sends EVT_ADM_BIND to Administration gate in the other host with a binding				
	parameter equal to:				
	PIPE <sub>AB</sub> : a dynamically assigned pipe identifier for the Accessor Authentication application gate.				
	GATEROOT: The UUID gate identifier of the root Accessor Authentication application gate				
	(DD61116F-F0DD-57F4-8A4F-52EE70276F24).				
	GATEROOT shall be present in one of the binding parameters (see VNP in GlobalPlatform: "Technology				
	Virtual Primary Platform" [10] If present then the procedure is successful				

# 6.13.2.3 PAAS\_023 - Open a pipe session with the Anonymous Accessor Authentication service of the Anonymous Accessor

Procedure identification		PAAS_023	
Procedure		The other host shall be able to open a pipe session to the authentication service gate of	
object	ives	the Anonymous Accessor in the SSP host.	
		If the procedure is successful then a pipe session is open between the accessor	
		authentication application in the other host and the accessor authentication service in the SSP host.	
Config	uration	CAAS_001	
refere	nce		
		Initial conditions	
Anonyi	mous accessor	(UUID: 4E46645F-E600-5A70-AD7A-60D6E5345E0B) is existing. This UUID is also the	
identity	of the anonym	nous accessor. This anonymous accessor shall be available in the SSP host.	
		Procedure sequence	
Step	Description		
1	Administration	n gate sends EVT_ADM_BIND to Administration gate in the SSP with:	
	PIPE	BA: a dynamically assigned pipe identifier for the Accessor Authentication service gate.	
	GATEANONYMOUS_ACCESSOR: The UUID gate identifier of the anonymous Accessor Authentication serv		
	gate (4E4664	5F-E600-5A70-AD7A-60D6E5345E0B).	
2	Administration	n gate sends EVT_ADM_BIND to Administration gate in the other host with a binding	
	parameter equal to:		
	<ul> <li>PIPE<sub>AB</sub>: a dynamically assigned pipe identifier for the Accessor Authentication application</li> </ul>		
	<ul> <li>GATEANONYMOUS_ACCESSOR: The UUID gate identifier of the anonymous Accessor Authentica application gate (4E46645F-E600-5A70-AD7A-60D6E5345E0B).</li> </ul>		
	GATEANONYMOUS_ACCESSOR shall be present in one of the binding parameters (see VNP[XX]. If presen		
	then the procedure is successful.		

## 6.13.2.4 PAAS\_024 - Open a pipe session with the TEST-1 Accessor Authentication service

Proce	dure	PAAS_024
identif	fication	
Proce	dure	The other host shall be able to open a pipe session to the (TEST-1 accessor)
object	tives	authentication service gate of the SSP host.
		If the procedure is successful then a pipe session is open between the accessor
		authentication application in the other host and the accessor authentication service in the
		SSP host.
Config	guration	CAAS_003
refere	nce	
		Initial conditions
		Procedure sequence
Step	Description	n
1	Administra	tion gate sends EVT_ADM_BIND to Administration gate in the SSP host with:
	• P	IPE <sub>BA</sub> : a dynamically assigned pipe identifier for the Accessor Authentication service gate.
	GATE <sub>TEST</sub> -	: The UUID gate identifier of the test accessor AA service gate (7DFF3B1C-6C34-5A49-
	BC36-F138	BOCEAA0C2).
2	Administra	tion gate sends EVT_ADM_BIND to Administration gate in the other host with a binding
	parameter	equal to:
	• P	IPE <sub>AB</sub> : a dynamically assigned pipe identifier for the Accessor Authentication application gate.
		ATE <sub>TEST-1</sub> : The UUID gate identifier of the test accessor AA application gate (7DFF3B1C-
		C34-5A49-BC36-F1380CEAA0C2).
GATE <sub>TEST-1</sub> shall be present in one of the binding parameters (see VNP[XX]. If present then the successful.		shall be present in one of the binding parameters (see VNP[XX]. If present then the test is

## 6.13.2.5 PAAS\_025 - Open a pipe session with the TEST-2 Accessor Authentication service

Proce	dure ication	PAAS_025	
Proce	dure	The other host shall be able to open a pipe session to the (TEST-2 accessor)	
object	ives	authentication service gate of the SSP host.	
		If the procedure is successful then a pipe session is open between the accessor	
		authentication application in the other host and the accessor authentication service in the	
		SSP host.	
Config	guration	CAAS_003	
refere	nce		
		Initial conditions	
		Procedure sequence	
Step	Description		
1	Administration	n gate sends EVT_ADM_BIND to Administration gate in the SSP host with:	
	PIPE	EBA: a dynamically assigned pipe identifier for the Accessor Authentication service gate.	
	GATE <sub>TEST-2</sub> : 7	The UUID gate identifier of the test accessor AA service gate	
	(E23D733361	D158A995EAF795649548F6).	
2	Administration	n gate sends EVT_ADM_BIND to Administration gate in the other host with a binding	
	parameter eq	ual to:	
PIPEAB: a dynamically assigned pipe identifier for the Accessor Authentication is		EAB: a dynamically assigned pipe identifier for the Accessor Authentication application gate.	
		E <sub>TEST-2</sub> : The UUID gate identifier of the test accessor AA application gate (7DFF3B1C-	
		4-5A49-BC36-F1380CEAA E23D733361D158A995EAF795649548F60C2).	
		hall be present in one of the binding parameters (see VNP[XX]. If present then the	
procedure is s		successful.	

## 6.13.2.6 PAAS\_026 - Close a pipe session with an Accessor Authentication service

Proce	dure	PAAS_026		
identi	fication			
Procedure objectives		The other host shall close a pipe session on the SSP host. This procedure is generic the pipe identifier assigned by the other host shall be stored by the test tool. This procedure shall be used each time a test description shall restart from a procedure was pipe session is already open for a given gate.		
Configuration		CAAS_003		
reference				
		Initial conditions		
		Procedure sequence		
Step	Descriptio	n		
1	Administration gate sends EVT_ADM_UNBIND event to the administration gate in the SSP host with:			
	<ul> <li>PIPE<sub>BA</sub>: a dynamically assigned pipe identifier for the accessor AA service gate.</li> </ul>			
		ession between the AA application gate and the AA service gate is closed. This step is		
		clean up the context of the tests but it is not essential for the test objective.		

## 6.13.3 Test descriptions

### 6.13.3.1 Root accessor

#### 6.13.3.1.1 AAS\_311 - Authentication of the ROOT accessor

	dentification	AAS_311			
Test o	bjectives	The root accessor shall be able to be authenticated with the Access service by using:  The aAAS-OP-GET-CHALLENGE-Service-Command com The aAAS-OP-AUTHENTICATE-ACCESSOR-Service-Co	nmand.		
		The authentication mean is based on the authentication tokens.			
	guration	CAAS_001			
refere	nce				
		Initial conditions			
The fo		re shall be executed in order:			
•	PAAS_021: 1	The ROOT accessor is present in the GATE_LIST registry of the ider	ntity gate.		
•	PAAS_026: 1	The pipe session with the identity gate is closed.			
•	PAAS_022: 1	The pipe session with the ROOT accessor authentication service is o	pened.		
		Test sequence			
Step	Description		Requirements		
1	AAA gate send	ds an aAAS-311-command-01 to AAS gate with:			
	ASN1START				
		mand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-			
	GET-CHALLENG	E-Service-Command : {}			
2		ds aAAS-311-response-01 response to AAA gate with:	RQ0613_145		
_	ASN1START	as anno-off-response-of response to Ann gate with.	RQ0613_061		
		aAAS-311-response-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-OP-			
		E-Service-Response : {	RQ0613_146 RQ0613_147		
		ce-Response eAAS-OK,	RQ0613_061		
	aParameter	{ ge eAS-Challenge,			
		ge eAS-Charlenge, cates {eAS-CERT-01}}}			
	ASN1STOP	cates (che cha tijj)			
	aCertificate is	a set of certificates.			
	aChallenge is	a random number (128 bit) generated by the AAS. The value			
	expressed in the	ne test is given as example.			
3		ds an aAAS-311-command-02 command to AAS gate with:			
	ASN1START				
		mand-02 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-			
		-ACCESSOR-Service-Command : { l aAccessorTokenCredential : {			
		AS-ATK-01, aTokenCertificationPath {eAS-CERT-01}}}			
	ASN1STOP	, , , , , , , , , , , , , , , , , , , ,			
	The authentica	ation token shall contain the challenge as recovered at the step 2.			
		ation token shall be verified by using the certification path.			
4	AAS gate send	ds an aAAS-311-response-02 response to AAA gate with:	RQ0613_027		
	ASN1START		RQ0613_034		
		ponse-02 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-	RQ0613_081		
		-ACCESSOR-Service-Command : { l aAccessorTokenCredential : { aToken eAS-ATK-01,	RQ0613_134		
		icationPath {eAS-CERT-01} }	RQ0613_001		
	}	, ,	RQ0613_136		
	ASN1STOP		RQ0613_138		
		ation token shall contain the challenge as recovered at the step 2.			
		ation token shall be verified by using the certification path.			
		cessful if the same challenge is in all authentication tokens and all			
	of them have b	peen verified by their certification path.			

#### 6.13.3.1.2 AAS\_312 - Access to the Authentication Service from the ROOT accessor

Test ic	dentification	AAS_312		
Test objectives		The root accessor shall be able to retrieve the gate identifier for opening a secure pipe		
		session with the Accessor Authentication service by using:		
		The aAAS-OP-ACCESS-SERVICE-Service-Command com	nmand.	
		The test description allows to open a secure pipe session with the R	OOT accessor	
		authentication service.		
Config	guration	CAAS 001		
refere		_		
		Initial conditions		
The fo		all be successfully executed:		
•	AAS_311: th	ne ROOT accessor is authenticated.		
		Test sequence		
Step	Description	•	Requirements	
1	AAA gate an	aAAS-312-command-01 command to AAS gate with:		
	ASN1STAR	<u>-</u>		
		mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-		
		ICE-Service-Command : {		
	aServicelo	dentifier eAS-ID-AAS-Service, aUseSecurePipe TRUE}		
2		aAAS-312-response-01 response to AAA gate with:	RQ0613_006	
_	ASN1STAR		RQ0613_008	
	aAAS-312-re	sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-OP-	RQ0613_035	
	ACCESS-SERV	ICE-Service-Response : {	RQ0613_000	
		ice-Response eAAS-OK,	RQ0613_143	
		r {	RQ0613_036	
	ASN1STOP	and the sector identifies an exhibit the section field as t	RQ0613_142	
		rns the gate identifier on which the authenticated root accessor can	RQ0613_142	
		cessor authentication service by using a secure pipe.	RQ0613_004	
	The test is su	ccessful if the AAS returns eAAS-OK.	11.00013_004	

#### AAS\_313 - Open a pipe session with the ROOT Accessor Authentication service 6.13.3.1.3

Test identification	AAS_313		
Test objectives	The other host shall be able to open a pipe session to the ROOT accessor authentication service gate of the SSP host.  If the test is successful then a pipe session is open between the accessor authentication application in the other host and the accessor authentication service in the SSP host.		
Configuration reference	CAAS_001		
Initial conditions			

Root accessor (UUID: DD61116F-F0DD-57F4-8A4F-52EE70276F24) is existing. This UUID is also the identity of the Root accessor. This root accessor is dedicated for the tester and assigned to the test providers using the ETSI SSP tests.

The accessor has obtained the gate identifier on the accessor authentication service for the root accessor by using a secure pipe session.

The test AAS\_312 shall be successfully executed. The ROOT accessor is authenticated

	Test sequence			
Step	Description	Requirements		
1	Administration gate sends EVT_ADM_BIND to Administration gate in the SSP with:			
	<ul> <li>PIPEcb: a dynamically assigned pipe identifier for the Accessor Authentication service gate.</li> </ul>			
	GATEROOTBIS: The dynamically assigned UUID gate identifier returned by AAS in AAS_312(AAAAAAAA-BBBB-CCCC-DDDD-EEEEEEEEEE).			
2	Administration gate sends EVT_ADM_BIND to Administration gate in the other host with a binding parameter equal to:  • PIPEDC: a dynamically assigned pipe identifier for the Accessor Authentication application gate.			
	GATEROOTBIS: The dynamically assigned UUID gate identifier returned by AAS in AAS_312(AAAAAAAA-BBBB-CCCC-DDDD-EEEEEEEEEEE).  GATEROOTBIS shall be present in one of the binding parameters (see VNP[XX]. If present then the test is successful.  A secure pipe session is opened between the AAA acting for the root accessor and AAS as the authentication service.			

# 6.13.3.1.4 AAS\_314 - Access to the Authentication Service from the ROOT accessor (w/o secure pipe)

Test identification		AAS_314	
Test objectives		The root accessor shall be able to be authenticated with the Accessor Authentication service by using:  • The aAAS-OP-ACCESS-SERVICE-Service-Command command.  The authentication mean is based on the authentication tokens. The ACL of the ROOT accessor shall mandate a secure pipe.	
Config	guration	CAAS_001	
reiere	iice	Initial conditions	
The te	st AAS 311 sh	all be successfully executed.	
	_	Test sequence	
Step	Description		Requirements
1	ASN1STAR' aAAS-314-co	aAAS-314-command-01 command to AAS gate with:  If  Immand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP- ICE-Service-Command : {  Identifier eAS-ID-AAS-Service, aUseSecurePipe FALSE}	
2	ASN1STAR' aAAS-314-re ACCESS-SERV aAAS-Serv aParamete: ASN1STOP The AAS retu authentication	aAAS-314-response-01 response to AAA gate with:  response-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-OP-ICE-Service-Response : {    ice-Response eAAS-E-NOK,    r { aGateIdentifier eAS-ID-AAS-GateID }}  rns eAAS-E-NOK because accessor shall access the accessor a service by using a secure pipe.    ccessful if the AAS returns eAAS-E-NOK.	RQ0613_140 RQ0613_149

## 6.13.3.2 Creation of the TEST-1 accessor (pincode based)

## 6.13.3.2.1 AAS\_321 - Creation of the TEST-1 accessor (without violations)

Test i	est identification AAS_321					
	bjectives	The Accessor Authentication application shall be able to create an a Accessor Authentication service using an aAAS-ADMIN-CREATE-A Command.  The authentication mean shall be based on the pincode.  CAAS 003				
Confi	guration					
refere	eference					
		Initial conditions				
The te	est AAS_313 sh	nall be successfully executed.				
04	<b>D</b>	Test sequence	In			
Step	Description	- d A A O OOA	Requirements			
1	ASN1STAR	nds an aAAS-321-command-01 command to AAS gate with:				
	ADMIN-CREAT aAccessor aAccess	<pre>mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS- E-ACCESSOR-Service-Command : {    aAccessorUser : {    oorIdentity eAS-ID-ACC-TEST-1,    oorConditions {aAccessConditionsPIN ePinNumeric},</pre>				
	aACL {{ aAccessorId	lentity eAS-ID-ACC-ROOT,aAccessorRights eAS-ACL-ROOT				
	<pre>},{ aAccessorId }} </pre>	lentity eAS-ID-ACC-TEST-1, aAccessorRights eAS-ACL-TEST-1				
	aCredential aIsDisableF aMinSize 4, aMaxSize 25 aMaxAttempt	5,				
		sStatus {aPinNumericStatus :atus {aIsDisabled FALSE}}				
	The test acce	essor has all rights on the test accessor. essor shall be authenticated by using the pin code.				
2	ASN1STAR aAAS-321-re ADMIN-CREAT aAAS-Serv ASN1STOP	esponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS- TE-ACCESSOR-Service-Response : { rice-Response eAAS-OK}	RQ0613_005 RQ0613_009 RQ0613_010 RQ0613_012 RQ0613_013 RQ0613_024 RQ0613_025 RQ0613_028 RQ0613_029 RQ0613_031 RQ0613_054 RQ0613_055 RQ0613_064 RQ0613_065 RQ0613_066			
			RQ0613_067 RQ0613_082 RQ0613_100 RQ0613_101 RQ0613_102 RQ0613_103 RQ0613_106			

## 6.13.3.2.2 AAS\_322 - Open a pipe session with the TEST-1 Accessor Authentication service

Test identification		AAS_322		
Test o	bjectives	The other host shall be able to open a pipe session to the authentication service gate of		
		the SSP host.		
		If the test is successful then a pipe session is open between the acces	ssor authentication	
		application in the other host and the accessor authentication service in	n the SSP host.	
	guration	CAAS_003		
refere	nce			
		Initial conditions		
The te	<del>-</del>	all be successfully executed.		
•	The TEST-1	accessor has been created.		
1		Test sequence		
Step	Description		Requirements	
1		n gate sends EVT_ADM_BIND to Administration gate in the SSP host		
	with:			
		EBA: a dynamically assigned pipe identifier for the Accessor		
		nentication service gate.		
		E <sub>TEST</sub> : The UUID gate identifier of the test accessor AA service gate		
		FF3B1C-6C34-5A49-BC36-F1380CEAA0C2).		
2		n gate sends EVT_ADM_BIND to Administration gate in the other	RQ0613_020	
		nding parameter equal to:		
		EAB: a dynamically assigned pipe identifier for the Accessor		
		nentication application gate.		
		E <sub>TEST</sub> : The UUID gate identifier of the test accessor AA service gate		
	,	FF3B1C-6C34-5A49-BC36-F1380CEAA0C2).		
		all be present in one of the binding parameters (see VNP[XX]. If		
	present then	the test is successful.		

### 6.13.3.2.3 AAS\_323 - Authentication of the TEST-1 accessor

Test ic	dentification	AAS_323	
Test objectives		The Accessor Authentication application shall be able to authenticate	e an accessor from
-		the Accessor Authentication service using an aAAS-OP-AUTHENTIC	
		Service-Command.	
Confid	guration	CAAS 003	
refere	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
-		Initial conditions	
The te	st AAS_322 sh	all be successfully executed:	
•	A pipe sessi	on is opened with the TEST-1 Accessor Authentication Service gate.	
		Test sequence	
Step	Description	•	Requirements
1	AAA gate ser	nds aAAS-323-command-01 command to AAS gate with:	-
	ASN1STAR		
	aAAS-323-co	mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-	
		E-ACCESSOR-Service-Command : {	
		al aPinNumericCredential : "1234"}	
	ASN1STOP		
2	AAS gate ser	ds an aAAS-323-response-01 response to AAA gate with:	RQ0613_054
	ASN1STAR	_	RQ0613_131
		sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-OP-	RQ0613 026
		E-ACCESSOR-Service-Response : {	RQ0613 136
		ice-Response eAAS-OK}	1.200.000
	ASN1STOP		
	The test is su	ccessful if the aAAS-Service-Response is eAAS-OK.	

#### 6.13.3.2.4 AAS\_324 - Authentication of the TEST-1 accessor (failed)

Test i	dentification	AAS_324	
Test objectives		The Accessor Authentication application shall not be able to authentifrom the Accessor Authentication service using an aAAS-OP-AUTHE ACCESSOR-Service-Command and wrong credentials.  Wrong value is sent to authenticate the accessor. The test is success authentication is failed.	ENTICATE-
Confi	guration	CAAS_003	
refere	nce		
		Initial conditions	
The fo	llowing tests s	hall be successfully executed:	
•	AAS_321. 7	he TEST-1 accessor is created.	
•	AAS_322. A	A pipe session is opened with the TEST-1 Accessor Authentication Sel	rvice gate.
	_	Test sequence	Ŭ
Step	Description	•	Requirements
1	ASN1STAR aAAS-324-cc AUTHENTICAT	mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP- E-ACCESSOR-Service-Command : { al aPinNumericCredential : "1235"	
2	AAS gate sei	nds an aAAS-324-response-01 response to AAA gate with:	RQ0613_137 RQ0613_141
	339 304	01 230 0000000 00000000 00000 0	1

aAAS-324-response-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-OP-

The test is successful if the aAAS-Service-Response is eAAS-NOT-

AUTHENTICATE-ACCESSOR-Service-Response : {
 aAAS-Service-Response eAAS-NOT-AUTHENTICATED,

aParameter aCredentialsStatus : {

alsDisabled FALSE, aRemainingAttempts 1

aPinNumericStatus {
 aCommonStatus {

}}}} -- ASN1STOP

AUTHENTICATED.

## 6.13.3.2.5 AAS\_325 - Authentication of the TEST-1 accessor (failed)

Toot is	dentification	IAAC 225	
		AAS_325	
Test objectives		The Accessor Authentication application shall fail to authenticate an a	
		Accessor Authentication service using an aAAS-OP-AUTHENTICATE	-ACCESSOR-
		Service-Command if the credentials are wrong.	
	juration	CAAS_003	
eferer	nce		
		Initial conditions	
The fol	llowing tests sh	nall be successfully executed:	
•	AAS_321. T	he TEST-1 accessor is created.	
•	AAS_322. A	pipe session is opened with the TEST-1 Accessor Authentication Services	vice gate.
		Test sequence	
Step	Description		Requirements
1	AAA gate an	aAAS-325-command-01 command to AAS gate with:	
	ASN1STAR		
	aAAS-325-cor	mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-	
		E-ACCESSOR-Service-Command : {	
	aCredentia	al aPinPasswordCredential : "HelloWorld2020"	
	}		
	ASN1STOP	d A A O OOF OA A A A	D00040 050
2	ASN1STAR	ds an aAAS-325-response-01 response to AAA gate with:	RQ0613_056
		r sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-OP-	RQ0613_132
		E-ACCESSOR-Service-Response : {	RQ0613_148
		ice-Response eAAS-E-CMD-PAR-UNKNOWN,	
		r aCredentialsStatus : {	
		ericStatus {	
	aCommo	onStatus {	
	aIsI	Disabled FALSE,	
	aRer	mainingAttempts 3	
	}}}}		
	ASN1STOP		
		ccessful if the aAAS-Service-Response is eAAS-E-CMD-PAR-	
	UNKNOWN.		

## 6.13.3.2.6 AAS\_326 - Authentication of the TEST-1 accessor (failed)

Test ic	dentification	AAS_326		
Test objectives		The Accessor Authentication application shall fail to authenticate an	accessor from the	
		Accessor Authentication service using an aAAS-OP-AUTHENTICATI		
		Service-Command if the credentials are wrong.		
Config	uration	CAAS_003		
efere	nce			
		Initial conditions		
		all be successfully executed twice and the remaining attempts shall no	ot be tested for the	
econo	test. The aRe	emainingAttempts is set to 1.		
	In	Test sequence	Ta	
Step	Description		Requirements	
1	AAA gate sends an aAAS-326-command-01 command to AAS gate with:			
	ASN1STAR	_		
		mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP- E-ACCESSOR-Service-Command : {		
		al aPinNumericCredential : "1235"		
	}	ar ar invalidated the 1255		
	ASN1STOP			
2	AAS gate ser	nds an aAAS-326-response-01 response to AAA gate with:	RQ0613_130	
	ASN1STAR		RQ0613_136	
		sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-OP-		
	AUTHENTICAT			
		ice-Response eAAS-NOT-AUTHENTICATED,		
		r aCredentialsStatus : { ericStatus {		
		onStatus {		
		Disabled TRUE,		
	aRei	mainingAttempts 0		
	}}}}			
	ASN1STOP			
		ccessful if the aAAS-Service-Response is eAAS-NOT-		
	AUTHENTIC/	ATED.		

#### 6.13.3.2.7 AAS\_327 - Deletion of the TEST-1 accessor

Test identification		AAS_327		
Test objectives		The Accessor Authentication application shall be able to delete an accessor from the Accessor Authentication service using an aAAS-ADMIN-DELETE-ACCESSOR-Service-Command.		
	guration	CAAS_003		
refere	nce	Initial conditions		
Tl 4-	-+ A A O . 004 - l-			
The te		all be successfully executed:		
•		accessor is duly authenticated.		
•	The TEST-1	accessor has been created by the ROOT accessor.		
		Test sequence		
Step	Description		Requirements	
1	AAA gate sen	ds aAAS-327-command-01 command to AAS gate with:		
	ASN1STAR	Γ		
		ommand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-		
		E-ACCESSOR-Service-Command : {		
	aAccessor	Identity eAS-ID-ACC-TEST-1}		
		do an a AAC 227 years and a CA was made to AAA wate with:	DO0040 047	
2	ASN1STAR	ds an aAAS-327-response-01 response to AAA gate with:	RQ0613_017	
		esponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	RQ0613_127	
		E-ACCESSOR-Service-Response : {	RQ0613_128	
		ice-Response eAAS-OK}	RQ0613_045	
ASN1STOP		to hoppoint the one	RQ0613_129	
	The test is su	ccessful if the aAAS-Service-Response is eAAS-OK.		

## 6.13.3.2.8 AAS\_328 - Creation of the TEST-2 accessor (with violations)

	dentification	AAS_328	
Test o	bjectives	The Accessor Authentication application shall be not able to create a	an accessor from the
	•	Accessor Authentication service using an aAAS-ADMIN-CREATE-A	
		Command due to a violation of the ACL.	
	The authentication mean shall be based on the pincode.		
Confi	guration		
refere		CAAS_003	
		Initial conditions	
The te	et AAS 043 ch	nall be successfully executed:	
		accessor is authenticated.	
	THE TEST-1	Test sequence	
Ston	Description	rest sequence	Poquiromente
Step	Description	ada an a AAC 220 command 04 command to AAC acts with:	Requirements
1	ASN1STAR	nds an aAAS-328-command-01 command to AAS gate with:	
		mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-	
		E-ACCESSOR-Service-Command : {	
		aAccessorUser : {	
	aAccess	orIdentity eAS-ID-ACC-TEST-2,	
	aAccess	orConditions {aAccessConditionsPIN ePinNumeric},	
	aACL {{	cessorIdentity eAS-ID-ACC-ROOT,	
	},{	cessorRights eAS-ACL-ROOT	
	, , ,	cessorIdentity eAS-ID-ACC-TEST-1,	
		cessorRights eAS-ACL-TEST-1	
	},		
	{		
		cessorIdentity eAS-ID-ACC-TEST-2,	
		cessorRights eAS-ACL-TEST-2	
	}		
	}},		
		al {aPinNumericCredential "1234"},	
		alsPolicy {aPinNumericPolicy	
		bleForbidden FALSE, aMinSize 4, aMaxSize 255,	
	aMaxAttempt		
	},		
		alsStatus {	
	aPinNum	ericStatus { aCommonStatus { aIsDisabled FALSE}}}}	
		essor has all rights on the test accessor.	
		essor shall be authenticated by using the pin code.	
2			RQ0613_029
_	ASN1STAR	nds an aAAS-328-response-01 response to AAA gate with:	
		esponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	RQ0613_037
		E-ACCESSOR-Service-Response : {	RQ0613_044
		ice-Response eAAS-ACL-RULES-VIOLATIONS}	RQ0613_040
	ASN1STOP		RQ0613_100
	The test is su	ccessful if the aAAS-Service-Response is eAAS-ACL-RULES-	RQ0613_101
	VIOLATIONS		RQ0613_102
			RQ0613_103
			RQ0613_003
			RQ0613_150

## 6.13.3.2.9 AAS\_329 - Creation of the TEST-2 accessor (without violations)

		1			
	dentification	AAS_329			
Test o	bjectives	The Accessor Authentication application shall be able to create the T			
		from the Accessor Authentication service using an aAAS-ADMIN-CR	EATE-ACCESSOR-		
		Service-Command.			
		The authentication mean shall be based on the pincode.			
	guration	CAAS_003			
refere	nce				
		Initial conditions			
The te		nall be successfully executed:			
•	The ROOT	accessor is authenticated.			
_		Test sequence			
Step	Description		Requirements		
1		nds an aAAS-329-command-01 command to AAS gate with:			
	ASN1STAR				
		mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS- E-ACCESSOR-Service-Command : {			
		aAccessorUser : {			
	<pre>aAccessorIdentity eAS-ID-ACC-TEST-2, aAccessorConditions {aAccessConditionsPIN ePinNumeric},</pre>				
	aACL				
	{{				
	aAccessorId },{				
	<pre>aAccessorId }} </pre>	entity eAS-ID-ACC-TEST-2, aAccessorRights eAS-ACL-TEST-2			
	*	{aPinNumericCredential "1234"},			
	aCredential				
		orbidden FALSE,			
	aMinSize 4,				
	aMaxSize 25 aMaxAttempt	·			
	}},	5			
	, , .	sStatus {aPinNumericStatus			
	{aCommonSt	atus {aIsDisabled FALSE}}			
	}}				
	ASN1STOP				
		essor has all rights on the test accessor.			
-		essor shall be authenticated by using the pin code.			
2		nds an aAAS-329-response-01 response to AAA gate with:			
	ASN1STAR	T sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-			
		E-ACCESSOR-Service-Response : {			
		ice-Response eAAS-OK}			
	ASN1STOP				
	The test is su	ccessful if the aAAS-Service-Response is eAAS-OK.			

### 6.13.3.2.10 AAS\_3210 - Authentication of the TEST-2 accessor

Test ic	dentification	AAS_3210	
Test o	bjectives	The Accessor Authentication application shall be able to authenticate	an accessor from
		the Accessor Authentication service using an aAAS-OP-AUTHENTIC	CATE-ACCESSOR-
		Service-Command.	
Config	guration	CAAS_003	
referei	nce		
		Initial conditions	
The tes	st AAS_329 sh	all be successfully executed:	
•	Creation of t	he TEST-1 Accessor Authentication.	
The pr	ocedure PAAS	_025 shall be successfully executed:	
openin	ng of a pipe ses	sion on the TEST-2 accessor authentication service.	
		Test sequence	
Step	Description		Requirements
1	AAA gate sen	ds aAAS-3210-command-01 command to AAS gate with:	
	ASN1START		
		ommand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-	
		E-ACCESSOR-Service-Command : {	
		al aPinNumericCredential : "1234"}	
	ASN1STOP		
2		ds an aAAS-3210-response-01 response to AAA gate with:	RQ0613_054
	ASN1START		RQ0613_131
		esponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	RQ0613_026
		CATE-ACCESSOR-Service-Response : {	RQ0613_136
		ce-Response eAAS-OK}	
	ASN1STOP		
	The test is suc	ccessful if the aAAS-Service-Response is eAAS-OK.	

Test identification AAS\_331

## 6.13.3.3 Creation of the TEST-1 accessor (password based)

### 6.13.3.3.1 AAS\_331 - Creation of the TEST-1 accessor

		TI A	, ,,
est o	bjectives	The Accessor Authentication application shall be able to create an	
		Accessor Authentication service using an aAAS-ADMIN-CREATE-A	ACCESSOR-Service-
		Command. The accessor authentication means shall be based on a	a password.
onfig	guration	CAAS_003	
efere			
		Initial conditions	
he te	st AAS 313 sh	nall be successfully executed:	
110 10.		ion is opened with the ROOT Accessor Authentication Service gate.	
	A pipe sess		
	D	Test sequence	D
tep	Description		Requirements
1		nds aAAS-331-command-01 command to AAS gate with:	
	ASN1STAR		
		mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-	
		'E-ACCESSOR-Service-Command : {	
		aAccessorUser : { corIdentity eAS-ID-ACC-TEST-1,	
	aACL {{		
		ssorIdentity eAS-ID-ACC-ROOT,	
		ssorRights eAS-ACL-ROOT	
	},{		
	aAcce	ssorIdentity eAS-ID-ACC-TEST-1,	
		ssorRights eAS-ACL-TEST-1	
	}}},		
		ial {aPinPasswordCredential "HelloWorld2020"},	
		ialsPolicy {aPinPasswordPolicy {	
	aMinSi	ze 4, Lize 255,	
		iresLowerCaseLetter TRUE,	
	_	iresUpperCaseLetter TRUE,	
	_	iresNumber TRUE,	
	_	riresSymbol TRUE,	
	_	ttempts 6	
	}},		
	aCredenti	alsStatus {	
		swordStatus {	
		onStatus {aIsDisabled FALSE}}}}	
	ASN1STOP		
		essor has all rights on the test accessor.	
		essor shall be authenticated by using password code.	
2		nds an aAAS-331-response-01 response to AAA gate with:	RQ0613_020
	ASN1STAR		RQ0613_029
		response-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	RQ0613_032
		E-ACCESSOR-Service-Response : { rice-Response eAAS-OK}	RQ0613_056
	ASN1STOP		RQ0613_068
		iccessful if the aAAS-Service-Response is eAAS-OK.	RQ0613_069
	1110 1031 13 30	ioooooidi ii tilo di iito ooliiloo itoopolloo lo enno-oit.	RQ0613_074
			RQ0613_070
			RQ0613_071
			RQ0613 100
			RQ0613_072
			RQ0613_072
			RQ0613_073
			RQ0613_101 RQ0613_102
	1		RQ0613_103

## 6.13.3.3.2 AAS\_332 - Open a pipe session with the Accessor Authentication service for the TEST-1 accessor

Test identification		AAS_332		
Test o	bjectives	The other host shall be able to open a pipe session to the authentication service gate of		
		the SSP host.		
		If the test is successful then a pipe session is open between the access		
		application in the other host and the accessor authentication service in	n the SSP host.	
_	juration	CAAS_003		
referei	nce			
		Initial conditions		
The tes	st AAS_051 sh	all be successfully executed.		
•	The TEST-1	accessor has been created.		
		Test sequence		
Step	Description		Requirements	
1	Administration	n gate sends EVT_ADM_BIND to Administration gate in the SSP with:		
		BA: a dynamically assigned pipe identifier for the Accessor		
		entication service gate.		
		E <sub>TEST</sub> : The UUID gate identifier of the test accessor AA service gate		
		F3B1C-6C34-5A49-BC36-F1380CEAA0C2).		
2		n gate sends EVT_ADM_BIND to Administration gate in the other	RQ0613_020	
		nding parameter equal to:		
		AB: a dynamically assigned pipe identifier for the Accessor		
		entication application gate.		
		ETEST: The UUID gate identifier of the test accessor AA service gate		
		FSB1C-6C34-5A49-BC36-F1380CEAA0C2).		
		all be present in one of the binding parameters (see VNP[XX]. If		
	present then t	he test is successful.		

### 6.13.3.3.3 AAS\_333 - Authentication of the TEST-1 accessor

Test identification		AAS_333						
Test objectives		The Accessor Authentication application shall be able to authenticate an accessor from						
		the Accessor Authentication service using an aAAS-OP-AUTHENTICATE-ACCESSOR-						
		Service-Command.						
Configuration		CAAS_003						
reference								
Initial conditions								
The tes	The test AAS_332 shall be successfully executed:							
•	A pipe session is opened with the TEST-1 Accessor Authentication Service gate.							
Test sequence								
Step	Description	·	Requirements					
1	AAA gate sen	ds an aAAS-333-command-01 command to AAS gate with:						
	ASN1START							
	aAAS-333-command-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-							
	AUTHENTICATI							
	aCredentia							
	ASN1STOP							
2	AAS gate sends an aAAS-333-response-01 response to AAA gate with: RQ0613							
	ASN1STAR	Γ	RQ0613_016					
	aAAS-333-re	esponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	RQ0613 136					
	OP-AUTHENTIC	CATE-ACCESSOR-Service-Response : {						
		e-Response eAAS-OK}						
	ASN1STOP							
	The test is successful if the aAAS-Service-Response is eAAS-OK.							

## 6.13.3.3.4 AAS\_334 - Authentication of the TEST-1 accessor (failure)

Test identification		AAS_334			
Test objectives		The Accessor Authentication application shall fail to authenticate an accessor from the			
		Accessor Authentication service using an aAAS-OP-AUTHENTICATE-ACCESSOR-			
		Service-Command if the credentials are wrong.			
Configuration		CAAS 003			
reference		_			
		Initial conditions			
The tes	st AAS 332 sh	all be successfully executed:			
•		on is opened with the TEST-1 Accessor Authentication Service gate.			
		Test sequence			
Step	Description		Requirements		
1		AAA gate sends an aAAS-334-command-01 command to AAS gate with:			
-	ASN1STAR				
	aAAS-334-co				
	AUTHENTICAT				
		al aPinPasswordCredential : "NoHelloWorld2019"}			
	ASN1STOP	1 00000	RQ0613 135		
2		AAS gate sends an aAAS-334-response-01 response to AAA gate with:			
	ASN1STAR	RQ0613_030			
	aAAS-334-re: AUTHENTICAT	RQ0613_151 RQ0613_141			
	aAAS-Serv				
		r aCredentialsStatus : { ericStatus {			
		onStatus {			
		Disabled FALSE,			
		mainingAttempts 2}}}			
	ASN1STOP				
	The test is successful if the aAAS-Service-Response is eAAS-NOT-				
	AUTHENTIC/				

#### 6.13.3.3.5 AAS\_335 - Deletion of an accessor

dentification	AAS_335						
bjectives	The Accessor Authentication application shall be able to delete an accessor from the Accessor Authentication service using an aAAS-ADMIN-DELETE-ACCESSOR-Service-Command.						
juration	CAAS_003						
nce	luitial aguditiana						
	•						
The TEST-1	accessor has been created.						
Test sequence							
Description		Requirements					
AAA gate sen	ds an aAAS-335-command-01 command to AAS gate with:						
ASN1START							
	dentity eAS-ID-ACC-TEST-1}						
	da an a A A O O O O O o o o o o o o o o o o o o	D00040 047					
		RQ0613_017					
		RQ0613_038					
		RQ0613_126					
	<u>-</u>						
ASN1STOP	toe Response Gimb on						
	ccessful if the aAAS-Service-Response is eAAS-OK						
	puration nce  St AAS_331 sha The TEST-1  Description  AAA gate sen ASN1START aAAS-335-con ADMIN-DELETE aAccessor1 ASN1STOP  AAS gate sen ASN1START aAAS-335-res ADMIN-DELETE aAAS-335-res ADMIN-DELETE aAAS-Servi ASN1STOP	The Accessor Authentication application shall be able to delete an a Accessor Authentication service using an aAAS-ADMIN-DELETE-A Command.    Urration					

# 6.13.3.3.6 AAS\_336 - Authentication of the TEST-1 accessor (POLICY RULES VIOLATION)

Test id	dentification	AAS_336		
Test objectives		The Accessor Authentication application shall fail to authenticate an accessor from the		
		Accessor Authentication service using an aAAS-OP-AUTHENTICATE		
		Service-Command if the credentials are wrong.	7.00_00.	
Confid	guration	CAAS_003		
efere		OAAS_003		
eieie	lice	Initial conditions		
Tho to	ct AAS 222 ch			
ine te		all be successfully executed:		
•	A pipe sessi	on is opened with the TEST-1 Accessor Authentication Service gate.		
		Test sequence	1	
Step	Description		Requirements	
1	AAA gate sends an aAAS-336-command-01 command to AAS gate with:			
	ASN1STAR			
	aAAS-336-co			
	AUTHENTICAT			
		al aPinPatternCredential : {		
	{ x 1,	y 2 }, { x 2, y 4 }, { x 5, y 1 }, { x 7, y 1 }}}		
	ASN1STOP			
2		ds an aAAS-336-response-01 response to AAA gate with:	RQ0613_152	
	ASN1STAR		RQ0613_153	
		sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-OP-		
		E-ACCESSOR-Service-Response : {		
		ice-Response eAAS-POLICYRULES-VIOLATION}		
	ASN1STOP	guagagaful if the alac Commiss Degrange is alac		
		successful if the aAAS-Service-Response is eAAS-		
	POLICYRULES.	-VIOLATION		

Test identification AAS\_0061

# 6.13.3.4 Creation of the TEST-1 accessor (pattern based)

# 6.13.3.4.1 AAS\_341 - Creation of the TEST-1 accessor

Test objectives		The Assesser Authentication application shall be able to greate an a	account from the
rest o	bjectives	The Accessor Authentication application shall be able to create an a	
		Accessor Authentication service using an aAAS-ADMIN-CREATE-A	
		Command. The accessor authentication mean shall be based on a p	attern.
Config	guration	CAAS_003	
refere	nce		
		Initial conditions	
The te	st AAS 0033	shall be successfully executed:	
1110 101			
•	A pipe sess	sion is opened with the ROOT Accessor Authentication Service gate.	
01	D i - ti	Test sequence	Di
Step	Description		Requirements
1		nds an aAAS-341-command-01 command to AAS gate with:	
	ASN1STA	RT	
	220 241	1.01.339.0000000.00000000.000000.0000.00	
		ommand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-	
		FE-ACCESSOR-Service-Command : {	
		r aAccessorUser : { sorIdentity eAS-ID-ACC-TEST-1,	
	aACL {		
	•	ssorIdentity eAS-ID-ACC-ROOT,	
		ssorRights eAS-ACL-ROOT	
	},{		
		ssorIdentity eAS-ID-ACC-TEST-1,	
	aAcce	ssorRights eAS-ACL-TEST-1	
	}}},		
	aCredent		
		tternCredential {	
	1 }, { x 7	, y 1 } }	
	},	ialsPolicy {	
		tternPolicy {	
		Size 4,	
		Size 255,	
	aEnt:	ryPanelMinSize 3,	
	aSame	ePointMultipleTimes FALSE,	
	aMax	Attempts 0	
	}		
	},		
		ialsStatus { tternStatus {	
		monStatus {	
		SDisabled FALSE}}}}	
	ASN1STO		
	The root acc	essor has all rights on the test accessor.	
		essor shall be authenticated by using a pattern.	
2		nds an aAAS-341-response-01 response to AAA gate with:	RQ0613_029
_	ASN1STA	· · · · · · · · · · · · · · · · · · ·	RQ0613_033
		esponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	RQ0613_057
		FE-ACCESSOR-Service-Response : {	RQ0613_059
		vice-Response eAAS-OK}	RQ0613_059
	ASN1STO		RQ0613_000
	The test is s	uccessful if the aAAS-Service-Response is eAAS-OK.	RQ0613_076
			RQ0613_076
			_
			RQ0613_078
			RQ0613_079
			RQ0613_098
			RQ0613_099
			RQ0613_100
			RQ0613_101
			RQ0613_102
			RQ0613_103
			RQ0613_104
			RQ0613_105
			RQ0613_096
			RQ0613_118
			RQ0613_106
			RQ0613_058
	1		1

# 6.13.3.4.2 AAS\_342 - Open a pipe session with the TEST-1 Accessor Authentication service

Test identification		AAS_342		
Test o	bjectives	The other host shall be able to open a pipe session to the authentication service gate of		
		the SSP host.		
		If the test is successful then a pipe session is open between the access		
		application in the other host and the accessor authentication service in	n the SSP host.	
	guration	CAAS_003		
refere	nce			
		Initial conditions		
The te		all be successfully executed.		
•	The TEST-1	accessor has been created.		
	Test sequence			
Step	Description		Requirements	
1		n gate sends EVT_ADM_BIND to Administration gate in the SSP with:		
		BA: a dynamically assigned pipe identifier for the Accessor		
		entication service gate.		
		E <sub>TEST</sub> : The UUID gate identifier of the test accessor AA service gate		
	· · · · · · · · · · · · · · · · · · ·	FF3B1C-6C34-5A49-BC36-F1380CEAA0C2).		
2		n gate sends EVT_ADM_BIND to Administration gate in the other	RQ0613_020	
		nding parameter equal to:		
		AB: a dynamically assigned pipe identifier for the Accessor		
		entication application gate.		
		E <sub>TEST</sub> : The UUID gate identifier of the test accessor AA service gate		
		FF3B1C-6C34-5A49-BC36-F1380CEAA0C2).		
		all be present in one of the binding parameters (see VNP[XX]. If		
	present then t	he test is successful.		

# 6.13.3.4.3 AAS\_343 - Authentication of the TEST-1 accessor

Test identification		AAS_343	
Test objectives		The Accessor Authentication application shall be able to authenticate the Accessor Authentication service using an aAAS-OP-AUTHENTIC Service-Command.	
Config refere	guration nce	CAAS_003	
		Initial conditions	
The te	st AAS_342 sh	all be successfully executed:	
•	A pipe sessi	on is opened with the TEST-1 Accessor Authentication Service gate.	
		Test sequence	
Step	Description	·	Requirements
1	ASN1STAR' aAAS-343-com AUTHENTICAT aCredentia	ds an aAAS-343-command-01 command to AAS gate with:  mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP- E-ACCESSOR-Service-Command : {  al aPinPatternCredential : {  y 2 }, { x 2, y 4 }, { x 5, y 1 }, { x 7, y 1 }}}	
2	ASN1STAR' aAAS-343-re AUTHENTICATI aAAS-Serv ASN1STOP	ds an aAAS-343-response-01 response to AAA gate with:  r sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-OP- E-ACCESSOR-Service-Response : { ice-Response eAAS-OK}  ccessful if the aAAS-Service-Response is eAAS-OK.	RQ0613_136 RQ0613_057 RQ0613_133

# 6.13.3.4.4 AAS\_344 - Authentication of the TEST-1 accessor (failure)

Test identification		AAS_344	
Test objectives		The Accessor Authentication application shall fail to authenticate an a	accessor from the
		Accessor Authentication service using an aAAS-OP-AUTHENTICATE	E-ACCESSOR-
		Service-Command if the credentials are wrong.	
Config	uration	CAAS_003	
eferer	nce		
		Initial conditions	
he tes	st AAS_342 sh	all be successfully executed:	
•	A pipe sessi	on is opened with the TEST-1 Accessor Authentication Service gate.	
		Test sequence	
Step	Description	·	Requirements
1	ASN1STAR' aAAS-344-com AUTHENTICATM aCredentia { x 1, ASN1STOP	nmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-E-ACCESSOR-Service-Command : { al aPinPatternCredential : {    y 2 },	
2	ASN1STAR' aAAS-344-re; AUTHENTICATI aAAS-Serv: aParamete: aPinNume aCommi aIsi aRei ASN1STOP	Indeed an aaas-344-response of the sponse of	RQ0613_030 RQ0613_151 RQ0613_141

# 6.13.3.4.5 AAS\_345 - Deletion of an accessor

		1	
Test id	dentification	AAS_345	
Test o	bjectives	The Accessor Authentication application shall be able to delete an a	accessor from the
		Accessor Authentication service using an aAAS-ADMIN-DELETE-A	CCESSOR-Service-
		Command.	
Confid	guration	CAAS 003	
refere	-		
		Initial conditions	
The te	st AAS_0061 s	hall be successfully executed:	
•	The TEST-1	accessor has been created.	
		Test sequence	
Step	Description		Requirements
1	AAA gate sen	ds an aAAS-345-command-01 command to AAS gate with:	
	ASN1STAR	Γ	
	aAAS-345-co	mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-	
	ADMIN-DELET	E-ACCESSOR-Service-Command : {	
	aAccessor:	Identity eAS-ID-ACC-TEST-1}	
	ASN1STOP		
2	AAS gate sen	ds an aAAS-345-response-01 response to AAA gate with:	
	ASN1STAR	Γ	
	aAAS-345-re	sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	
		E-ACCESSOR-Service-Response : {	
	aAAS-Serv	ice-Response eAAS-OK}	
İ	ASN1STOP		
	The test is su	ccessful if the aAAS-Service-Response is eAAS-OK.	

# 6.13.3.4.6 AAS\_346 - Creation of the TEST-1 accessor with no update rights

Test i	dentification	AAS_346				
	objectives	The Accessor Authentication application shall be able to create an a	ccessor from the			
		Accessor Authentication service using an aAAS-ADMIN-CREATE-A				
		Command. The accessor authentication mean shall be based on a p				
Confid	guration	CAAS_003	, accorni			
refere		0/1/10_000				
CICIC	ilice	Initial conditions				
Th - 4-	-+ ^ ^ C 0000					
rne te		shall be successfully executed:				
•	A pipe sess	ion is opened with the ROOT Accessor Authentication Service gate.				
_		Test sequence				
Step	Description		Requirements			
1	ΛΛΛ goto co	nds an aAAS-346-command-01 command to AAS gate with:				
ı	ASN1STAR					
	ASNISIAR	1				
	aAAS-346-cc	mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-				
		E-ACCESSOR-Service-Command : {				
		aAccessorUser : {				
	aAccess	orIdentity eAS-ID-ACC-TEST-1,				
	aACL {{					
	aAcces					
	aAcces					
	},{					
	aAccessorIdentity eAS-ID-ACC-TEST-1,					
	aAccessorRights eAS-ACL-TEST-1-F }}},					
	aCredenti					
		ternCredential {				
	1 }, { x 7,					
	},					
		alsPolicy {				
		ternPolicy {				
		ize 4,				
		ize 255,				
		yPanelMinSize 3,				
		PointMultipleTimes FALSE, ttempts 0				
	}	ccempes o				
	},					
		alsStatus {				
	aPinPat	ternStatus {				
	aComm	onStatus {				
		Disabled FALSE}}}}				
	ASN1STOP					
		essor has all rights on the test accessor.				
		essor shall be authenticated by using the pin code.				
2		nds an aAAS-346-response-01 response to AAA gate with:	RQ0613_049			
	ASN1STAR		RQ0613_051			
		sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	RQ0613_052			
		E-ACCESSOR-Service-Response : {				
		ice-Response eAAS-OK}				
	ASN1STOP					
	The test is st	ccessful if the aAAS-Service-Response is eAAS-OK.				

# 6.13.3.4.7 AAS\_347 - Creation of the TEST-1 accessor

Test identification		AAS_347	
Test o	bjectives	The Accessor Authentication application shall be able to create an ac	ccessor from the
		Accessor Authentication service using an aAAS-ADMIN-CREATE-AC	
		Command. The accessor authentication mean shall be based on a p	attern with multiple
		time the same point.	·
Config	juration	CAAS_003	
refere		_	
		Initial conditions	
The tes	st AAS 0033 s	hall be successfully executed:	
•		on is opened with the ROOT Accessor Authentication Service gate.	
		Test sequence	
Step	Description		Requirements
1		ds an aAAS-347-command-01 command to AAS gate with:	'
	ASN1STAR		
		mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-	
		E-ACCESSOR-Service-Command : {	
		aAccessorUser : {	
	aAccesso	orIdentity eAS-ID-ACC-TEST-1,	
		sorIdentity eAS-ID-ACC-ROOT,	
		sorRights eAS-ACL-ROOT	
	},{		
		sorIdentity eAS-ID-ACC-TEST-1,	
		sorRights eAS-ACL-TEST-1	
	}}},	-1 (	
	aCredentia	a1 { ternCredential {	
	2 }, { x 7,		
	},	1 - )	
	aCredentia	alsPolicy {	
		ternPolicy {	
	aMinS:		
		ize 255,	
		yPanelMinSize 3, PointMultipleTimes TRUE,	
		ttempts 0	
	}		
	},		
	aCredentia	alsStatus {	
		ternStatus {	
		onStatus {	
	alsi ASN1STOP	Disabled FALSE}}}}	
		essor has all rights on the test accessor.	
		ssor shall be authenticated by using the pin code.	
2		ds an aAAS-347-response-01 response to AAA gate with:	RQ0613 060
_	ASN1STAR		
		sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	
		E-ACCESSOR-Service-Response : {	
		ice-Response eAAS-OK}	
	ASN1STOP		
	The test is su	ccessful if the aAAS-Service-Response is eAAS-OK.	

# 6.13.3.4.8 AAS\_348 - Self-authentication of the TEST-1 accessor

Test identification		AAS_348	
Test o	bjectives	The Accessor Authentication application shall be able to be authentication	icated without using
		the authentication procedure if its credentials are disabled.	
Configuration		CAAS_003	
referei	nce		
		Initial conditions	
The fol	llowing tests sh	nall be successfully executed:	
•	AAS_0082:	the TEST-1 accessor has disabled its credentials.	
		Test sequence	
Step	Description		Requirements
1		n gate sends EVT_ADM_UNBIND event to the administration gate	
	in the SSP ho		
		Exy: a dynamically assigned pipe identifier for the TEST-1 Accessor	
		entication service gate.	
	The pipe sess		
2		n gate sends EVT_ADM_BIND to Administration gate in the SSP	
	host with:		
		EBA: a dynamically assigned pipe identifier for the Accessor	
		nentication service gate.	
		The UUID gate identifier of the TEST-1 accessor AA service gate	
3		6C34-5A49-BC36-F1380CEAA0C2).  In gate sends EVT_ADM_BIND to Administration gate in the other	
3		rgate serius EVI_ADM_BIND to Administration gate in the other administration gate in the other administration.	
		EAB: a dynamically assigned pipe identifier for the Accessor	
		entication application gate.	
		E <sub>TEST-1</sub> : The UUID gate identifier of the TEST-1 accessor AA	
		ication gate (7DFF3B1C-6C34-5A49-BC36-F1380CEAA0C2).	
		nall be present in one of the binding parameters (see VNP[XX]. If	
		the test is successful.	
4		ids an aAAS-348-command-02 command to AAS gate with:	
-	ASN1STAR		
		mmand-02 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-	
		E-ACCESSOR-Service-Command : {	
		Identity eAS-ID-ACC-TEST-1, alsPolicy {	
		ericPolicy {	
		sableForbidden FALSE,	
		ize 4,	
		ize 255,	
	amaxa	ttempts 1	
	},		
		alsStatus {	
		ericStatus {	
		onStatus {	
		Disabled TRUE, mainingAttempts 1}}}	
	ASN1STOP		
		ates the pincode credential.	
5		ds an aAAS-348-response-02 response to AAA gate with:	RQ0613_083
	ASN1STAR	Γ	
		sponse-02 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	
		E-ACCESSOR-Service-Response : {	
	ASN1STOP	ice-Response eAAS-OK}	
		ccessful if the aAAS-Service-Response is eAAS-OK.	

# 6.13.3.5 Capability of the TEST-1 accessor

# 6.13.3.5.1 AAS\_351 - Capability of an accessor (eGlobalAuthenticationService)

Test identification		AAS_351			
Test o	bjectives	The Accessor Authentication application shall be able to get the capability of the Accessor			
	-	Authentication service using an aAAS-OP-GET-CAPABILITIES-Service-Command.			
		eGlobalAuthenticationService is requested.			
Confid	guration	CAAS 003			
refere					
		Initial conditions			
The te	st AAS 343 sh	nall be successfully executed:			
•		accessor is authenticated.			
		Test sequence			
Step	Description		Requirements		
1		nds an aAAS-351-command-01 command to AAS gate with:	- Requirements		
'	ASN1STAR				
		mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-			
	GET-CAPABIL	ITIES-Service-Command : {			
		<pre>ype eGlobalAuthenticationService}</pre>			
	ASN1STOP				
2		nds an aAAS-351-response-01 response to AAA gate with:	RQ0613_088		
	ASN1STAR		RQ0613_087		
		sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-OP-	RQ0613_090		
		ITIES-Service-Response : {	RQ0613_091		
		ice-Response eAAS-OK, r aGlobalAuthenticationService : {	RQ0613_092		
		sion eAASVersion,	RQ0613_093		
		orList {	_		
		ssorUser : {			
		cessorIdentity eAS-ID-ACC-ROOT,			
	aAc	cessorConditions {aAccessConditionsTokens			
	eTokenCerti	ficate},			
	aAC	L {			
	{				
		aAccessorIdentity eAS-ID-ACC-ROOT,			
	ı	<pre>aAccessorRights eAS-ACL-ROOT }},</pre>			
		ssorUser : {			
		cessorIdentity eAS-ID-ACC-TEST-1,			
		cessorConditions {aAccessConditionsPIN ePinPattern},			
		L {{			
		aAccessorIdentity eAS-ID-ACC-TEST-1,			
		aAccessorRights eAS-ACL-TEST-1			
	}	, {			
		aAccessorIdentity eAS-ID-ACC-ROOT,			
	1	aAccessorRights eAS-ACL-ROOT			
	} ASN1STOP	}}}}			
		ccessful if the aAAS-Service-Response is eAAS-OK.			
	1116 (62) 12 20	iccessiui ii iile aaao-oeivice-nespulise is eaao-on.			

# 6.13.3.5.2 AAS\_352 - Capability of an accessor (eAccessorStatus)

Test identification		AAS_352		
Test o	bjectives	The Accessor Authentication application shall be able to get the capability of the Accessor		
		Authentication service using an aAAS-OP-GET-CAPABILITIES-Service-Command.		
		eAccessorStatus is requested.		
Config	guration	CAAS 003		
refere	nce			
		Initial conditions		
The te	st AAS_343 sh	all be successfully executed:		
•		accessor is authenticated.		
		Test sequence		
Step	Description	•	Requirements	
	•		•	
1	AAA gate sen	ds an aAAS-352-command-01 command to AAS gate with:		
	ASN1STAR	- ASN1START		
		mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-		
		ITIES-Service-Command : {		
		ype eAccessorStatus}		
_	ASN1STOP			
2		ds an aAAS-352-response-01 response to AAA gate with:	RQ0613_089	
	ASN1STAR		RQ0613_090	
		sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-OP-	RQ0613_094	
		ITIES-Service-Response : {	RQ0613_095	
		ice-Response eAAS-OK,	RQ0613 085	
		r aAccessorStatus : {	RQ0613 097	
		enticated TRUE, orConditions { aAccessConditionsPIN ePinPattern }}}		
	ASN1STOP	orconditions ( daccessconditions in elimetre. ) } }		
		ccessful if the aAAS-Service-Response is eAAS-OK.		
	1110 1031 13 30			

# 6.13.3.5.3 AAS\_353 - Capability of an accessor (eAccessorStatus)

Test identification		AAS_353		
Test objectives		The Accessor Authentication application shall be able to get the capability of the Accessor Authentication service using an aAAS-OP-GET-CAPABILITIES-Service-Command. eAccessorStatus is requested.		
_	guration	CAAS_003		
refere	nce			
		Initial conditions		
The te		all be successfully executed:		
•	The ROOT a	accessor is authenticated.		
	•	Test sequence		
Step	Description		Requirements	
1	ASN1STAR: aAAS-353-cor GET-CAPABIL:	ds an aAAS-353-command-01 command to AAS gate with:  mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-  ITIES-Service-Command : {  ppe eAccessorStatus}		
2	ASN1STAR aAAS-353-res GET-CAPABIL aAAS-Serv: } ASN1STOP	ds an aAAS-353-response-01 response to AAA gate with:  sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-OP- ITIES-Service-Response : { i.ce-Response eAAS-OK  ccessful if the aAAS-Service-Response is eAAS-OK.	RQ0613_086	

# 6.13.3.6 Update of the TEST-1 accessor

# 6.13.3.6.1 AAS\_361 - Update of an accessor

Test identification		AAS_361	
Test o	bjectives	The Accessor Authentication application shall be able to update a caccessor of the Accessor Authentication service using an aAAS-ADACCESSOR-Service-Command.	
_	guration	CAAS_003	
refere	nce		
<b>T</b> 1 1		Initial conditions	
The te	<del></del> -	all be successfully executed:	
-	The TEST-1	accessor is authenticated.  Test sequence	
Step	Description	rest sequence	Requirements
1	•	ds an aAAS-361-command-01 command to AAS gate with:	Requirements
'	ASN1STAR		
	aAAS-361-cor	nmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-	
	ADMIN-UPDATE	E-ACCESSOR-Service-Command : {	
		Identity eAS-ID-ACC-TEST-1,	
	aSetCreder	ntial {aPinNumericCredential "0000"}}	
	11011120101	ates the pincode credential.	
2		ds an aAAS-361-response-01 response to AAA gate with:	RQ0613 107
	ASN1STAR		RQ0613_107
		sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	RQ0613_033
	ADMIN-UPDATE	E-ACCESSOR-Service-Response : {	RQ0613_047
		ice-Response eAAS-OK}	RQ0613_125
	ASN1STOP	(	1.30010_120
	The test is su	ccessful if the aAAS-Service-Response is eAAS-OK.	

# 6.13.3.6.2 AAS\_362 - Update of an accessor

Test identification		AAS_362		
Test o	bjectives	The Accessor Authentication application shall be able to update a	credential of an	
	-	accessor of the Accessor Authentication service using an aAAS-ADMIN-UPDATE-		
		ACCESSOR-Service-Command.		
Confid	guration	CAAS_003		
	reference			
		Initial conditions		
The to	ct AAS 323 ch	all be successfully executed.		
THE LE	31 AAO_020 311			
Cton	Test sequence			
Step	Description	1.000	Requirements	
1		nds an aAAS-362-command-01 command to AAS gate with:		
	ASN1STAR	_		
		mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-		
		E-ACCESSOR-Service-Command : {		
		Identity eAS-ID-ACC-TEST-1, alsPolicy {		
		ericPolicy {		
		sableForbidden FALSE,		
		ize 4,		
		ize 255,		
	aMaxA	ttempts 1		
	}			
	},			
		alsStatus {		
		ericStatus {		
		onStatus {		
		Disabled TRUE,		
	ASN1STOP	mainingAttempts 1}}}		
		atos the pipeode credential		
_		ates the pincode credential.	DO0042 048	
2	ASN1STAR	nds an aAAS-362-response-01 response to AAA gate with:	RQ0613_048	
		rsponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	RQ0613_051	
		E-ACCESSOR-Service-Response : {	RQ0613_052	
		ice-Response eAAS-OK}	RQ0613_053	
	ASN1STOP		RQ0613_084	
	The test is su	ccessful if the aAAS-Service-Response is eAAS-OK.	RQ0613_109	
			RQ0613_111	
			RQ0613_113	
			RQ0613_114	
			RQ0613_042	
			RQ0613_043	
			RQ0613_049	
			RQ0613_116	
			RQ0613_123	
			RQ0613_124	
			RQ0613_123	
			RQ0613_125	

- ASN1STOP

VIOLATIONS.

# 6.13.3.6.3 AAS\_363 - Update of an accessor (ACL violation)

Test ic	lentification	AAS_363	
Test o	bjectives	The Accessor Authentication application shall not be able to update accessor of the Accessor Authentication service using an aAAS-AD ACCESSOR-Service-Command with out-of-range credentials.	
	uration	CAAS_003	
refere	nce		
		Initial conditions	
The fol		nall be executed in order:	
•	AAS_346; c	reation of the TEST-1 accessor without update rights.	
•	AAS_343; a	uthentication of the TEST-1 accessor.	
		Test sequence	
Step	Description		Requirements
1	AAA gate sen	ds an aAAS-363-command-01 command to AAS gate with:	
	ASN1STAR	_	
		mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-	
		E-ACCESSOR-Service-Command : {	
		Identity eAS-ID-ACC-TEST-1,	
	aSetCrede		
		ternCredential { y 1 },{x 2, y 2},{x 3,y 3},{x 4,y 4}	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	y 1	
	}		
	}		
ASN1STOP			
	The AAA upd	ates the pincode credential.	
2		ds an aAAS-363-response-01 response to AAA gate with:	RQ0613_049
	ASN1STAR		_
		sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	
		E-ACCESSOR-Service-Response : {	
	aAAS-Serv	ice-Response eAAS-ACL-RULES-VIOLATIONS}	

The test is successful if the aAAS-Service-Response is eAAS-ACL-RULES-

# 6.13.3.6.4 AAS\_364 - Update of an accessor (ACL violation)

Test id	dentification	AAS_364	
Test o	bjectives	The Accessor Authentication application shall not be able to update a credential of an	
	-	accessor of the Accessor Authentication service using an aAAS-AD	
		ACCESSOR-Service-Command with out-of-range credentials.	
Confid	guration	CAAS 003	
refere			
		Initial conditions	
The fo	llowing tests s	hall be executed in order:	
•	9	creation of the TEST-1 accessor without update rights.	
		authentication of the TEST-1 accessor.	
	71710_040, 0	Test sequence	
Step	Description	1000 0004001100	Requirements
1		nds an aAAS-364-command-01 command to AAS gate with:	- requirements
'	ASN1STAR		
		ommand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-	
		TE-ACCESSOR-Service-Command : {	
		Identity eAS-ID-ACC-TEST-1,	
		alsStatus {	
		ternStatus {	
		nonStatus {	
	aIs	Disabled TRUE,	
	aRe	emainingAttempts 5	
	}		
	}		
	}}		
	ASN1STOR		
	The AAA upo	dates the pincode credential.	
2	AAS gate ser	nds an aAAS-364-response-01 response to AAA gate with:	RQ0613_051
	ASN1STAR	<del></del>	
		sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	
		E-ACCESSOR-Service-Response : {	
		rice-Response eAAS-ACL-RULES-VIOLATIONS}	
	ASN1STOF		
ı	IThe test is a	reconstruction of AC Complete Despenses in AAC ACL DILLES	1

The test is successful if the aAAS-Service-Response is eAAS-ACL-RULES-VIOLATIONS.

- ASN1STOP

VIOLATIONS.

# 6.13.3.6.5 AAS\_365 - Update of an accessor (ACL violation)

Test id	dentification	AAS_365	
Test objectives		The Accessor Authentication application shall not be able to update	a credential of an
-		accessor of the Accessor Authentication service using an aAAS-ADMIN-UPDATE-	
		ACCESSOR-Service-Command with out-of-range credentials.	
Config	guration	CAAS 003	
refere			
		Initial conditions	
The fo	llowing tests sl	nall be executed in order:	
•		reation of the TEST-1 accessor without update rights.	
•		uthentication of the TEST-1 accessor.	
	7 to 10_0 10, 0	Test sequence	
Step	Description		Requirements
1		nds an aAAS-365-command-01 command to AAS gate with:	- Noquinomonio
•	ASN1STAR		
	aAAS-365-co	mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-	
	ADMIN-UPDAT	E-ACCESSOR-Service-Command : {	
	aAccessor	Identity eAS-ID-ACC-TEST-1,	
	aCredenti	alsPolicy {	
	aPinPat	ternPolicy {	
		ize 4,	
		ize 255,	
		yPanelMinSize 3,	
		PointMultipleTimes FALSE,	
	aMaxA	ttempts 0	
	}		
	}		
	}		
	ASN1STOP		
_		lates the pincode credential.	D00040 040
2	AAS gate sends an aAAS-365-response-01 response to AAA gate with:		RQ0613_049
	ASN1STAR		RQ0613_115
		sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	
l		E-ACCESSOR-Service-Response : {	
	aAAS-Serv	ice-Response eAAS-ACL-RULES-VIOLATIONS}	

The test is successful if the aAAS-Service-Response is eAAS-ACL-RULES-

# 6.13.3.6.6 AAS\_366 - Update of an accessor (remove accessor condition)

Test identification		AAS_366	
Test o	objectives	The Accessor Authentication application shall be able to update a	redential of an
		accessor of the Accessor Authentication service using an aAAS-AE	MIN-UPDATE-
		ACCESSOR-Service-Command.	
Confi	guration	CAAS_003	
refere	ence		
		Initial conditions	
The te	est AAS_361 sh	nall be successfully executed.	
		Test sequence	
Step	Description	•	Requirements
1	AAA gate ser	nds an aAAS-366-command-01 command to AAS gate with:	
	ASN1STAR		
	aAAS-366-co	mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-	
	ADMIN-UPDAT	E-ACCESSOR-Service-Command : {	
	aAccessor		
	aRemoveAc		
	aAccess	ConditionsPIN ePinNumeric	
	}		
	}		
	ASN1STOP		
	The AAA upo	lates the aAccessConditionsPIN condition.	
2	AAS gate ser	nds an aAAS-366-response-01 response to AAA gate with:	RQ0613_120
	ASN1STAR	T	
	aAAS-366-re	sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	
	ADMIN-UPDAT	E-ACCESSOR-Service-Response : {	
		ice-Response eAAS-OK}	
	ASN1STOP		
	The test is su	ccessful if the aAAS-Service-Response is eAAS-OK.	

# 6.13.3.6.7 AAS\_367 - Update of an accessor (set credential)

Test identification		AAS_367		
Test o	bjectives	The Accessor Authentication application shall be able to update a caccessor of the Accessor Authentication service using an aAAS-AD ACCESSOR-Service-Command.		
Config	guration	CAAS_003		
refere	nce			
		Initial conditions		
The te	st AAS_361 sh	nall be successfully executed.		
		Test sequence		
Step	Description		Requirements	
1	AAA gate sends an aAAS-367-command-01 command to AAS gate with:  ASN1START  aAAS-367-command-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS- ADMIN-UPDATE-ACCESSOR-Service-Command : {     aAccessorIdentity eAS-ID-ACC-TEST-1,     aSetCredential {         aPinNumericCredential "0000"     } } ASN1STOP The AAA updates the aAccessConditionsPIN condition.		D00010 101	
2			RQ0613_121	

# 6.13.3.6.8 AAS\_368 - Update of an accessor (remove credential)

Test id	dentification	AAS_368	
Test o	bjectives	The Accessor Authentication application shall be able to remove a credential of an accessor of the Accessor Authentication service using an aAAS-ADMIN-UPDATE-ACCESSOR-Service-Command.	
Config	guration	CAAS_003	
refere	nce		
		Initial conditions	
The te	st AAS_361 sl	nall be successfully executed.	
		Test sequence	
Step	Description		Requirements
1	ASN1STAR aAAS-368-cc ADMIN-UPDAT aAccessor aRemoveCr aAccess } } ASN1STOP The AAA rem	mmmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-TE-ACCESSOR-Service-Command : { Tidentity eAS-ID-ACC-TEST-1, Tedential { Tidential {	D00643_433
2	ASN1STAR aAAS-368-re ADMIN-UPDAT aAAS-Serv ASN1STOP	sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS- TE-ACCESSOR-Service-Response : { rice-Response eAAS-OK}	RQ0613_122

### 6.13.3.6.9 AAS\_369 - Update of an accessor (policy rule violation)

Test id	dentification	AAS_369	
Test o	bjectives	The Accessor Authentication application shall not be able to update a accessor of the Accessor Authentication service using an aAAS-ADM ACCESSOR-Service-Command when violating the policy rules.	
Config refere	guration nce	CAAS_003	
		Initial conditions	
The te	st AAS_361 sh	nall be successfully executed.	
		Test sequence	
Step	Description	<u>.</u>	Requirements
1	ASN1STAR aAAS-369-co ADMIN-UPDAT aAccessor aSetCrede aPinNum } } ASN1STOP The AAA upd	mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-E-ACCESSOR-Service-Command : { Identity eAS-ID-ACC-TEST-1, ntial { ericCredential "000"  lates the aAccessConditionsPIN condition.	
2	ASN1STAR aAAS-369-re ADMIN-UPDAT aAAS-Serv ASN1STOP	sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-E-ACCESSOR-Service-Response : { ice-Response eAAS-POLICY-RULES-VIOLATIONS } ccessful if the aAAS-Service-Response is eAAS-POLICY-RULES-	RQ0613_110

# 6.13.3.7 Deletion of a ROOT accessor (violation)

### 6.13.3.7.1 AAS\_371 - Deletion of an accessor (violation)

Test identification		AAS_371	
Test o	bjectives	The Accessor Authentication application shall not be able to delete an accessor from the Accessor Authentication service using an aAAS-ADMIN-DELETE-ACCESSOR-Service-	
		Command if its rights are non sufficient.	
	guration	CAAS_003	
refere	nce		
		Initial conditions	
The te	st AAS_333 sh	all be successfully executed:	
•	The TEST-1	accessor is authenticated.	
		Test sequence	
Step	Description	·	Requirements
1	AAA gate sen	ds aAAS-371-command-01 command to AAS gate with:	
	ASN1STAR		
	aAAS-371-c	ommand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-	
		E-ACCESSOR-Service-Command : {	
		Identity eAS-ID-ACC-ROOT}	
	ASN1STOP		
2	AAS gate sen	ds an aAAS-371-response-01 response to AAA gate with:	RQ0613_003
	ASN1STAR		RQ0613_150
		esponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	
		E-ACCESSOR-Service-Response : {	
		ice-Response eAAS-ACL-RULES-VIOLATIONS }	
	ASN1STOP	(   Y	
		ccessful if the aAAS-Service-Response is eAAS-ACL-RULES-	
	VIOLATIONS	•	

# 6.13.3.8 Authentication of the Anonymous accessor

### 6.13.3.8.1 AAS\_381 - Authentication of the anonymous accessor

Test ic	dentification	AAS 381	
Test objectives		The Accessor Authentication application shall be able to authenticate accessor from the Accessor Authentication service using an aAAS-OI ACCESSOR-Service-Command.	•
Config refere	guration nce	CAAS_003	
		Initial conditions	
The te	st PAAS_023 s	hall be successfully executed:	
•	A pipe sessi	on is opened with the Anonymous Accessor Authentication Service ga	te.
		Test sequence	
Step	Description	•	Requirements
1	ASN1STAR	ds an aAAS-343-command-01 command to AAS gate with:  mmand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP- E-ACCESSOR-Service-Command : {}	
2	ASN1STAR aAAS-381-res AUTHENTICATI aAAS-Serv: ASN1STOP	ds an aAAS-381-response-01 response to AAA gate with:  response-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-OP-E-ACCESSOR-Service-Response : { i.ce-Response eAAS-OK}  ccessful if the aAAS-Service-Response is eAAS-OK.	RQ0613_019 RQ0613_018

#### 6.13.3.9 Creation of the TEST-GROUP-1 accessor

#### 6.13.3.9.1 AAS 391 - Creation of the TEST-GROUP-1 accessor

Test identification	AAS_391
Test objectives	The Accessor Authentication application shall be able to create a group accessor from the Accessor Authentication service using an aAAS-ADMIN-CREATE-ACCESSOR-Service-Command.  TEST-GROUP-1 accessor has no credentials.  TEST-GROUP-2 accessor has no credentials.  TEST-1 accessor has all rights (eAS-ACL-TEST-GROUP-1).  TEST-2 accessor may only update the policy and status of the credentials (eAS-ACL-TEST-GROUP-2).
Configuration	CAAS_004
reference	

#### **Initial conditions**

These tests shall be successfully executed according to this order:

- AAS\_323:
  - The TEST-1 accessor has been authenticated.
- AAS\_329:
  - The TEST-2 accessor has been created but is not authenticated.
  - The ROOT accessor is authenticated.

#### Test sequence Step Description Requirements AAA gate sends an aAAS-391-command-01 command to AAS gate with: -- ASN1START aAAS-391-command-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-ADMIN-CREATE-ACCESSOR-Service-Command : { aAccessor aAccessorGroup : { aAccessorIdentity eAS-ID-ACC-TEST-GROUP-1, aMembersOfGroup { eAS-ID-ACC-TEST-1, eAS-ID-ACC-TEST-2 aACL { {aAccessorIdentity eAS-ID-ACC-TEST-1, aAccessorRights eAS-ACL-TEST-GROUP-1}, {aAccessorIdentity eAS-ID-ACC-TEST-2, aAccessorRights eAS-ACL-TEST-GROUP-2} }} ASN1STOP 2 AAS gate sends an aAAS-391-response-01 response to AAA gate with: RQ0613 010 -- ASN1START RQ0613\_011 aAAS-391-response-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-ADMIN-CREATE-ACCESSOR-Service-Response : { aAAS-Service-Response eAAS-OK} - ASN1STOP The test is successful if the aAAS-Service-Response is eAAS-OK.

#### 6.13.3.9.2 AAS\_392 - Update of the TEST-GROUP-1 accessor

AAS_392			
The TEST-1 accessor via the Accessor Authentication application	shall be able to update		
aAAS-ADMIN-UPDATE-ACCESSOR-Service-Command.	3		
TEST-1 accessor has all rights (eAS-ACL-TEST-GROUP-1).			
	dentials (eAS-ACL-		
CAAS 004			
_			
Initial conditions			
successfully executed according to this order:			
AAS_391:     The TEST-GROUP-1 has been created.			
			• AAS_323:
·	Requirements		
nds an aAAS-392-command-01 command to AAS gate with:			
ASN1START aAAS-392-command-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-			
		TE-ACCESSOR-Service-Command : {	
TI I'I I I I I I I I I I I I I I I I I I			
:Identity eAS-ID-ACC-TEST-GROUP-1, DfGroup {			
	The TEST-1 accessor via the Accessor Authentication application the members list of a group accessor from the Accessor Authentic aAAS-ADMIN-UPDATE-ACCESSOR-Service-Command. TEST-1 accessor has all rights (eAS-ACL-TEST-GROUP-1). TEST-2 accessor may only update the policy and status of the cre TEST-GROUP-2). The authentication mean shall be based on the CAAS_004  Initial conditions successfully executed according to this order:  EST-GROUP-1 has been created.  EST-1 accessor is authenticated.  Test sequence		

-- ASN1STOP

VIOLATIONS.

# 6.13.3.9.3 AAS\_393 - Update of the TEST-GROUP-1 accessor (violation of the ACL)

Test i	dentification	AAS_393	
Test objectives		The TEST-2 accessor via the Accessor Authentication application shall fail to update the members list of a group accessor from the Accessor Authentication service using an	
		aAAS-ADMIN-UPDATE-ACCESSOR-Service-Command.	3
		TEST-1 accessor has the eAS-ACL-TEST-GROUP-1 rights.	
Confi	guration	CAAS 004	
efere		_	
		Initial conditions	
These	tests shall be	successfully executed according to this order:	
•	AAS_3210	•	
•	AAS_344		
		Test sequence	
Step	Description	•	Requirements
1	AAA gate sei	nds an aAAS-393-command-01 command to AAS gate with:	
	ASN1STAR		
	aAAS-393-cc		
		E-ACCESSOR-Service-Command : {	
		Identity eAS-ID-ACC-TEST-GROUP-1,	
	aMembersC	- (	
		-ID-ACC-ROOT,	
		-ID-ACC-TEST-1,	
	eAS	-ID-ACC-TEST-2	
	)		
	) ASN1STOP		
2		nds an aAAS-393-response-01 response to AAA gate with:	RQ0613 010
_	ASN1STAR		RQ0613_010
		sponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	1.00013_011
		E-ACCESSOR-Service-Response : {	

The test is successful if the aAAS-Service-Response is eAAS-ACL-RULES-

# 6.13.3.10 Creation of the TEST-1 accessor with grantor

# 6.13.3.10.1 AAS\_3101 - Creation of the TEST-1 accessor (with grantor)

Toot :	dentification	IAAS 2101	
		AAS_3101	TOT 4 '''
Test objectives		The Accessor Authentication application shall be able to create the TEST-1 accessor with	
		a grantor from the Accessor Authentication service using an aAAS-A	DIVIIN-CREATE-
		ACCESSOR-Service-Command.	: «L BOOT
		The authentication mean shall be based on the pincode. The grantor	is the ROOT
2 (	accessor		
	guration	CAAS_003	
refere	nce		
		Initial conditions	
The te	est AAS_313 sh	nall be successfully executed.	
	T	Test sequence	1
Step	Description		Requirements
1		nds an aAAS-3101-command-01 command to AAS gate with:	
	ASN1STAR		
		ommand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-	
		E-ACCESSOR-Service-Command : {     aAccessorUser : {	
		orIdentity eAS-ID-ACC-TEST-1,	
		orConditions {aAccessConditionsPIN ePinNumeric},	
	aACL		
{ {			
aAccessorIdentity eAS-ID-ACC-ROOT,aAccessorRights eAS-		entity eAS-ID-ACC-ROOT, aAccessorRights eAS-ACL-ROOT	
	]		
		<pre>entity eAS-ID-ACC-TEST-1, aAccessorRights eAS-ACL-TEST-1, ntity eAS-ID-ACC-ROOT}}</pre>	
	},	ncity eas-id-acc-root;;	
		{aPinNumericCredential "1234"},	
		sPolicy {aPinNumericPolicy {	
		orbidden FALSE,	
	aMinSize 4,		
	aMaxSize 25		
	<pre>aMaxAttempt }},</pre>	S 3	
		sStatus {aPinNumericStatus	
		atus {aIsDisabled FALSE}}	
	}}		
	ASN1STOP		
		essor has all rights on the test accessor.	
		ssor shall be authenticated by using the pin code.	
2		nds an aAAS-3101-response-01 response to AAA gate with:	RQ0613_002
	ASN1STAR		RQ0613_007
		esponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	
		E-ACCESSOR-Service-Response : { ice-Response eAAS-OK}	
	ASN1STOP		
		ccessful if the aAAS-Service-Response is eAAS-OK.	
L	1.10 1001 10 00	3000014111 410 42 7 10 CO11100 1100portoo to 07 110 C11.	

#### AAS\_3102 - Creation of the TEST-2 accessor (without authentication) 6.13.3.10.2

Test identification	AAS_3102	
Test objectives	The Accessor Authentication application shall fail to create the TEST-2 accessor from the Accessor Authentication service using an aAAS-ADMIN-CREATE-ACCESSOR-Service-Command.  The authentication is not required because the grantor is not authenticated.	
Configuration	CAAS_003	
reference		
Initial conditions		
The following tests shall be executed in order:		

- AAS\_3101. The TEST-1 accessor is created with the ROOT accessor as grantor.
   PAAS\_024. A pipe session is opened with the TEST-1 Accessor Authentication service gate.

	Test sequence	
Step	Description	Requirements
1	AAA gate sends an aAAS-3102-command-01 command to AAS gate with:	
	ASN1START	
	aAAS-3102-command-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-	
	ADMIN-CREATE-ACCESSOR-Service-Command : {	
	aAccessor aAccessorUser : {	
	aAccessorIdentity eAS-ID-ACC-TEST-2,	
	<pre>aAccessorConditions {aAccessConditionsPIN ePinNumeric},</pre>	
	aACL	
	<b>{</b> {	
	aAccessorIdentity eAS-ID-ACC-ROOT, aAccessorRights eAS-ACL-ROOT	
	},{	
	aAccessorIdentity eAS-ID-ACC-TEST-1, aAccessorRights eAS-ACL-TEST-1	
	<b> }</b> }	
	), , , , , , , , , , , , , , , , , , , ,	
	aCredential {aPinNumericCredential "1234"},	
	aCredentialsPolicy {aPinNumericPolicy {	
	alsDisableForbidden FALSE,	
	aMinSize 4,	
	aMaxSize 255,	
	aMaxAttempts 3 }},	
	aCredentialsStatus {aPinNumericStatus	
	{aCommonStatus {aIsDisabled FALSE}}	
	{aconmonstatus {arsbisabred FALSE}}	
	ASN1STOP	
2	AAS gate sends an aAAS-3102-response-01 response to AAA gate with:	RQ0613_015
_	ASN1START	1100013_013
	aAAS-3102-response-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	
	ADMIN-CREATE-ACCESSOR-Service-Response : {	
	aAAS-Service-Response eAAS-NOT-AUTHENTICATED}	
	ASN1STOP	
	The test is successful if the aAAS-Service-Response is eAAS-NOT-	
	· ·	
	AUTHENTICATED.	

#### 6.13.3.10.3 AAS\_3103 - Creation of the TEST-2 accessor (authentication)

Test identification	AAS_3103	
Test objectives	The Accessor Authentication application shall be to create the TEST-2 accessor from the Accessor Authentication service using an aAAS-ADMIN-CREATE-ACCESSOR-Service-Command.	
Configuration	CAAS_003	
reference		
Initial conditions		

The following tests shall be executed in order:

- AAS\_321. The TEST-1 accessor has been created.
- AAS\_363. The TEST-1 accessor is authenticated as grantor.

•	AAS_332. The ROOT accessor is authenticated.				
	Test sequence				
Step	Description	Requirements			
1	AAA gate sends an aAAS-3103-command-01 command to AAS gate with: ASN1START aAAS-3103-command-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS- ADMIN-CREATE-ACCESSOR-Service-Command : {     aAccessor aAccessorUser : {         aAccessorIdentity eAS-ID-ACC-TEST-2,         aAccessorConditions {aAccessConditionsPIN ePinNumeric},         aACL     {{         aAccessorIdentity eAS-ID-ACC-ROOT, aAccessorRights eAS-ACL-ROOT     }, {         aAccessorIdentity eAS-ID-ACC-TEST-1, aAccessorRights eAS-ACL-TEST-1     }} },     aCredential {aPinNumericCredential "1234"},     aCredentialsPolicy {aPinNumericPolicy {         aIsDisableForbidden FALSE,         aMinSize 4,         aMaxSize 255,         aMaxAttempts 3     }},     aCredentialsStatus {aPinNumericStatus         {aCommonStatus {aIsDisabled FALSE}} } } ASN1STOP				
2	AAS gate sends an aAAS-3103-response-01 response to AAA gate with:  ASN1START  aAAS-3103-response-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS- ADMIN-CREATE-ACCESSOR-Service-Response : {     aAAS-Service-Response eAAS-NOT-AUTHENTICATED}  ASN1STOP  The test is successful if the aAAS-Service-Response is eAAS-NOT-AUTHENTICATED.	RQ0613_015			

#### 6.13.3.11 Annexes - Accessor Authentication ASN.1 descriptions

#### 6.13.3.11.1 Annex - Certificates and Tokens

The Authentication token and certificates are given as example.

```
-- ASN1START
eAS-ATK-01 AuthenticationToken::={
    tbsToken {
      version v1,
      subjectPublicKeyInfo {
        algorithm {
         algorithm { 0 0 }
        subjectPublicKey '0'B
      aKey-Size e128,
        aStreamCipherIdentifier aAES-CGM-StreamCipherIdentifier
```

```
signatureAlgorithm {
        algorithm { 0 0 }
      signature {
       r 0,
        s 0
eAS-CERT-01 Certificate ::= {
  tbsCertificate {
    version v3,
     serialNumber 1,
     signature {
     algorithm { 0 0 },
     parameters OCTET STRING : '00'H
     issuer rdnSequence : {
      {
        type { 0 0 },
value OCTET STRING : '00'H
     validity {
     notBefore utcTime : "000101000000Z",
     notAfter utcTime : "000101000000Z"
     subject rdnSequence : {
      {
        {
         type { 0 0 },
         value OCTET STRING : '00'H
     subjectPublicKeyInfo {
     algorithm {
        algorithm id-ecPublicKey
      subjectPublicKey '0'B
     issuerUniqueID '0'B,
     subjectUniqueID '0'B,
     extensions {
        extnID { 0 0 },
        critical FALSE,
        extnValue '00'H
    }
   signatureAlgorithm {
    algorithm { 0 0 },
parameters OCTET STRING : '00'H
  signature '0'B
-- ASN1STOP
```

#### 6.13.3.11.2 Annex - ASN.1 stop

The annex shall be appended at the end of the accessor authentication test descriptions.

```
-- ASN1START
END
-- ASN1STOP
```

#### 6.13.3.12 Requirements not testable, implicitly verified or verified elsewhere

#### 6.13.3.12.1 Requirements not tested

The following requirements identified in clause 5.2.13 are not covered by the present document:

RQ0613\_046, RQ0613\_152, RQ0613\_153.

#### 6.13.3.12.2 Implicitly tested requirements

The following requirements identified in clause 5.2.13 are generated from descriptive text. An explicit verification is not possible but with correct execution of the related function the requirements can be handled as implicitly verified:

RQ0613_021	RQ0613_022	RQ0613_025	RQ0613_023
RQ0613_028	RQ0613_034	RQ0613_035	RQ0613_062
RQ0613_063	RQ0613_080	RQ0613_108	RQ0613_053
RQ0613_119	RQ0613_046		

# 7 Test Descriptions: Physical interfaces

### 7.1 Overview

Tests for the physical interfaces are to be executed in accordance with their respective test specifications. If more than one interface is used parallel access shall be performed whenever possible.

### 7.2 Reset

All Test Descriptions to verify RQ0702\_01 and RQ0702\_02 found in ETSI TS 102 230-1 [2], clause 5 shall apply to the terminal. Reset tests for the other physical interfaces are to be executed in accordance with their respective test specifications.

### 7.3 ISO/IFC 7816 interface

#### 7.3.0 General information

The electrical specification for the ISO/IEC 7816 interface can be found in ETSI TS 102 221 [7]. Test Descriptions related to this interface are defined in ETSI TS 102 230-1 [2] and ETSI TS 102 230-2 [6]. Test requirements for the ISO/IEC 7816 interface reference the related test in the named test specification and shall be executed as defined in there.

# 7.3.1 Configurations

There are no specific configurations for this topic.

#### 7.3.2 Procedures

There are no specific procedures for this topic.

### 7.3.3 Test descriptions

#### 7.3.3.1 Electrical specifications of the interface

All Test Descriptions to verify RQ0703\_001 found in ETSI TS 102 230-1 [2], clause 5.2 shall apply to the terminal.

#### 7.3.3.2 Contacts

All Test Descriptions to verify RQ0703\_002 found in ETSI TS 102 230-1 [2], clause 4 shall apply to the terminal.

#### 7.3.3.3 Initial communication establishment procedures

#### 7.3.3.3.1 SSP interface activation and deactivation

All Test Descriptions to verify RQ0703\_003 found in ETSI TS 102 230-1 [2], clause 5.1.2 shall apply to the terminal.

#### 7.3.3.3.2 Supply voltage switching

All Test Descriptions to verify RQ0703\_004 found in ETSI TS 102 230-1 [2], clause 5.1.5 shall apply to the terminal.

RQ0703\_005 is not testable.

#### 7.3.3.4 Answer to Reset content

All Test Descriptions to verify RQ0703\_006 and RQ0703\_007 found in ETSI TS 102 230-1 [2], clause 6.1 shall apply to the terminal.

All Test Descriptions to verify RQ0703\_008 found in ETSI TS 102 230-1 [2], clauses 6.2, 6.3 and 6.5 shall apply to the terminal.

NOTE: The verification of RQ0703\_009 requires a specification for a valid extension of the ATR.

#### 7.3.3.5 PPS procedure

All Test Descriptions to verify RQ0703\_010 found in ETSI TS 102 230-1 [2], clause 5.1.5 shall apply to the terminal.

### 7.3.3.6 Reset procedure

All Test Descriptions for RQ0703\_011 found in ETSI TS 102 230-1 [2], clause 5.1.5 shall apply to the terminal.

#### 7.3.3.7 Clock stop mode

All voltage class specific Test Descriptions for RQ0703\_012 found in ETSITS 102 230-1 [2], clauses 6.2 and 6.3 shall apply to the terminal.

#### 7.3.3.8 Bit/Character duration and sampling time

All Test Descriptions for RQ0703\_013 found in ETSI TS 102 230-1 [2], clauses 7.1.1 and 7.1.2 shall apply to the terminal.

#### 7.3.3.9 Error handling

No error handling specific Test Descriptions to verify RQ0703\_014 are defined in ETSI TS 102 230-1 [2]. To validate correct handling, the power transition tests from clause 5.1 and the 'no ATR' test from clause 5.1.5.6 shall be executed.

#### 7.3.3.10 Data link protocols

All Test Descriptions to verify the protocol timing and handling requirements from RQ0703\_015, RQ0703\_016 and RQ0703\_017 found in ETSI TS 102 230-1 [2], clause 7.3 shall be applied to the terminal.

#### 7.4 SPI Interface

Test Descriptions for the SPI Interface can be found in ETSI TS 103 813 [i.2].

### 7.5 I2C interface

**FFS** 

### 7.6 SWP interface

**FFS** 

### 7.7 USB interface

FFS

# 7.8 Proprietary interface

OOS

# 8 Test Descriptions: SSP Common Layer

#### 8.1 Introduction

# 8.1.1 Requirements implicitly verified

The following requirements identified in clause 5.4.1 are generated from descriptive text. An explicit verification is not possible but with correct execution of the related function the requirements can be handled as implicitly verified:

RQ0801\_001, RQ0801\_002

### 8.2 SCL network

### 8.2.1 Requirements implicitly verified

The following requirements identified in clause 5.4.2 are generated from descriptive text. An explicit verification is not possible but with correct execution of the related function the requirements can be handled as implicitly verified:

RQ0802\_002

# 8.2.2 Requirements verified elsewhere

The following requirements identified in clause 5.4.2 are not tested in accordance with the present document, as they are referencing requirements from a different standardization body:

RQ0802\_001, RQ0802\_001a, RQ0802\_003

# 8.3 Protocol layers

# 8.3.1 Requirements implicitly verified

The following requirements identified in clause 5.4.3 are generated from descriptive text. An explicit verification is not possible but with correct execution of the related function the requirements can be handled as implicitly verified:

RQ0803\_003

# 8.3.2 Requirements verified elsewhere

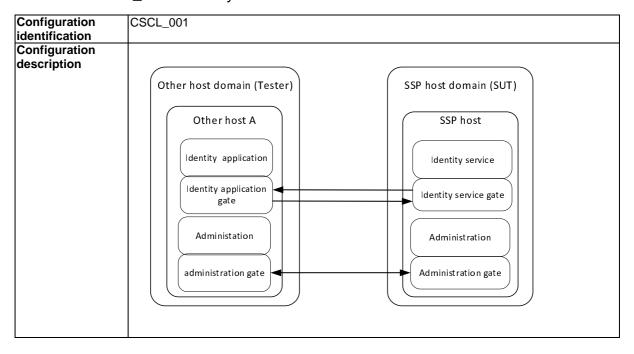
The following requirements identified in clause 5.4.3 are not tested in accordance with the present document, as they are referencing requirements from a different standardization body:

RQ0803\_002, RQ0803\_004, RQ0803\_005, RQ0803\_006

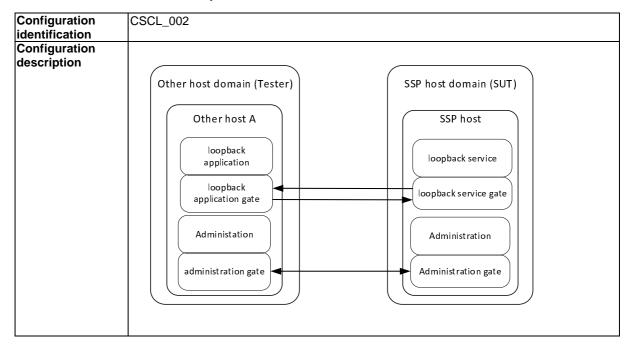
# 8.4 SCL core services

# 8.4.1 Configurations

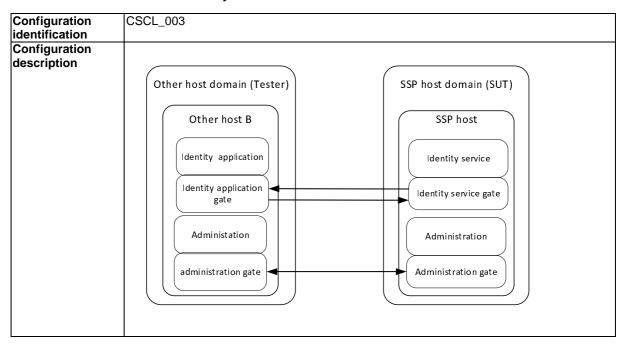
### 8.4.1.1 CSCL\_001 - Identity service -host A



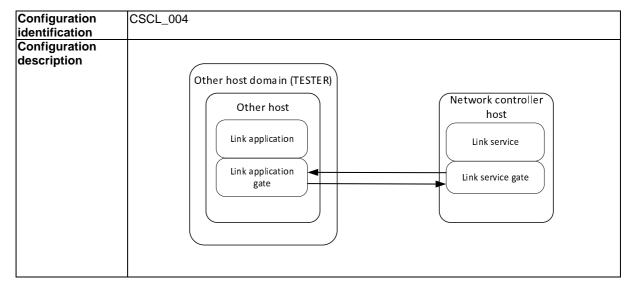
# 8.4.1.2 CSCL\_002 - Loopback service



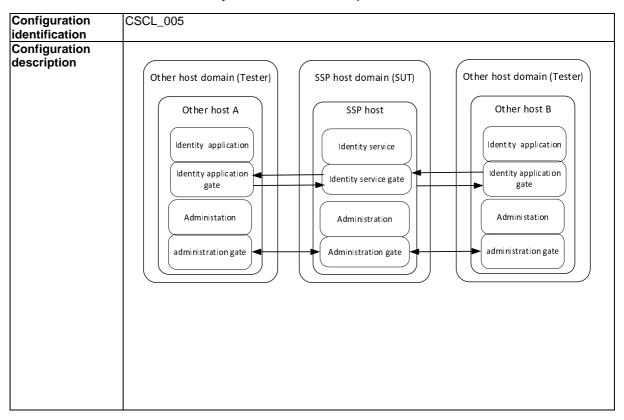
# 8.4.1.3 CSCL\_003 - Identity service-host B



### 8.4.1.4 CSCL\_004 - Network host controller link



### 8.4.1.5 CSCL\_005 - Identity service-with multiple other host



#### 8.4.1.6 ASN.1 definitions

The following definitions are used for the procedures and the test descriptions.

```
-- ASN1START

SSPSCLconfigurations { itu-t (0) identified-organization (4) etsi (0) smart-secure-platform (3666) part1 (1) test (2) scl (4)}

DEFINITIONS

AUTOMATIC TAGS

EXTENSIBILITY IMPLIED ::=

BEGIN

EXPORTS ALL;

/* Imports */

IMPORTS

URN-Description,
URN-Description-List

FROM SSPDefinitions;
-- ASN1STOP
```

### 8.4.2 Procedures

### 8.4.2.1 PSCL\_021 - Pipe session opening on the identity service/application gates

Proce	dure	PSCL 021			
identif	dentification				
Proce	dure	The other host A or B shall be able to open a pipe session to the identity gate of the SSP			
object	tives	host.			
Config	guration	CSCL_001, CSCL_003, CSL_005			
refere	nce				
		Initial conditions			
		Procedure sequence			
Step	Description				
1	Administration	n gate in other host 'X' sends EVT_ADM_BIND to Administration gate in the SSP with:			
	PIPExy: a dynamically assigned pipe identifier for the identity service gate.				
	GATEIDENTITY: The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-				
FA1BA497F917).					
2	2 Administration gate in SSP sends EVT_ADM_BIND to Administration gate in the other host 'X' with:				
	<ul> <li>PIPE<sub>YX</sub>: a dynamically assigned pipe identifier for the identity application gate.</li> </ul>				
	GATEIDENTITY:	The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-			
	FA1BA497F9	17).			

### 8.4.2.2 PSCL\_022 - Pipe session opening on the loopback service/application gates

Proce	dure	PSCL_022		
identif	dentification			
Proce	dure	The other host shall be able to open a pipe session to the loopback gate of the SSP host.		
object	ives			
Config	guration	CSCL_002		
reference				
		Initial conditions		
		Procedure sequence		
Step	p Description			
1	Administrati	on gate in other host sends EVT_ADM_BIND to Administration gate in the SSP host with:		
	PIPExy: a dynamically assigned pipe identifier for the loopback service gate.			
	GATELOOKBACK: The UUID gate identifier of the loopback gate (1CE3D0F5-3B55-5470-B6F1-			
	168352F27440).			
2	Administration gate in SSP host sends EVT_ADM_BIND to Administration gate in the other host with:			
	PIPE <sub>YX</sub> : a dynamically assigned pipe identifier for the loopback application gate.			
		ACK: The UUID gate identifier of the loopback gate (1CE3D0F5-3B55-5470-B6F1-		
	168352F27	1 0 1		

# 8.4.2.3 PSCL\_023 - Retrieve the content of identity service registry by host A

Proced	Procedure PSCL_023		
identifi	dentification		
Proced	dure	The host A shall be able to retrieve the content of a registry.	
objecti			
Config	uration	CSCL_001	
referer	nce		
	Initial conditions		
The pro	The procedure PSCL_021 is successfully executed.		
	Procedure sequence		
Step	Description Description		
1	Identity application gate in host A sends ANY_GET_PARAMETER command (pipe PIPEXY) to the		
	identity service gate in the SSP host with the register '04'H.		
2	Identity service gate in SSP host sends ANY_GET_PARAMETER response (pipe PIPEYX) to the identity		
	application gate in the other hostA.		
	The identity se	ervice identifier shall be present.	

# 8.4.2.4 PSCL\_024 - Retrieve the content of identity service registry by host B

Proced	rocedure PSCL_024		
identif	dentification		
Proced	dure	The host B shall be able to retrieve the content of a registry.	
objecti	ives		
Config	uration	CSCL_003	
referer	nce		
	Initial conditions		
The pro	The procedure PSCL_021 is successfully executed.		
	Procedure sequence		
Step	Description Description		
1	Identity application gate in host B sends ANY_GET_PARAMETER command (pipe PIPEXY) to the		
	identity service gate in the SSP host with the register '04'H.		
2	Identity service gate in SSP host sends ANY_GET_PARAMETER response (pipe PIPEyx) to the identity		
	application gate in the other host B.		
	The identity se	ervice identifier shall be present.	

# 8.4.3 Test descriptions - SCL

# 8.4.3.1 SCL\_031 - Data-flow control in multiple hosts environment

Test identification	SCL_031		
The host A and B shall be able to retrieve the content of a registry simultaneously and without impacts on the reliability of the communication. Both hosts shall be able to que asynchronously and repeatedly the SSP identity service. The SSP identity service receives commands from both A and B and the SSP host shall manage globally the flocontrol for both hosts without using the credit-based data flow control principle available the administration service.			
Configuration	CSCL_005		
reference			
Initial conditions			
The procedure PSCL_021 is successfully executed with other host A.			
The procedure PSCL_021 is successfully executed with other host B.			

	Test sequence			
Step	Description	Requirements		
1	The test sequence (Step 1 and Step 2) in PSCL_023 is executed successfully 100 times. There is no gap of time between receiving the response and sending the next command.  Simultaneously the test sequence (Step 1 and Step 2) in PSCL_024 is executed successfully 100 times. There is no gap of time between receiving the response and sending the next command.  Credit-based data flow control mechanism and the data acknowledgement mechanism shall not be used in the identity application gate.  The test is successful, if no loss of message is detected. I.e.: the Identity service gate in SSP host sends ANY_GET_PARAMETER response to the identity application gates for every ANY GET_PARAMETER command.	RQ0804_023 RQ0802_003 RQ0802_004		

# 8.4.3.2 SCL\_032 - loopback Data-flow control

Test ic	dentification	SCL_032		
Test objectives		The other host shall be able to send a continuous flow of EVT_LOOP_POST_DATA		
		without loss of EVT_LOOP_ECHO_DATA events.		
Configuration		CSCL_002		
reference				
		Initial conditions		
The pro	The procedure PSCL_022 is successfully executed.			
		Test sequence		
Step	Description		Requirements	
1	The loopback	application shall set the counter C to 0.		
2		application gate sends 100 EVT_LOOP_POST_DATA events to the	RQ0803_001	
	loopback service gate. Each EVT_LOOP_POST_DATA event contains a counter C			
		yte). The counter C is incremented after the sending of the event.		
3	The loopback	application gate receives 100 EVT_LOOP_ECHO_DATA events.	RQ0803_001	
	The test is suc	ccessful if 100 EVT_LOOP_ECHO_DATA events are received and		
	their data con	tains the counter C sequentially in order.		

# 8.4.3.3 SCL\_033 - Identity Service Gate parameter GATE\_URN\_LIST

Test ic	dentification	SCL_033		
Test objectives		To test that all UUID-s provided in the GATE_URN_LIST shall be present in the		
		GATE_LIST.		
		The additional registries may be present.		
		The dynamic gate identifier related to the accessor authentication service shall not be		
	present in the GATE_LIST.			
Config	guration	CSCL_001		
refere	nce			
		Initial conditions		
		_021 is successfully executed.		
The tes	st description A	AS_0032 is successfully executed.		
		Test sequence		
Step	Description		Requirements	
		Identity application gate sends ANY_GET_PARAMETER command		
1	with the regist	er identifier '04' (GATE_LIST) to the Identity service		
	gate.			
	The Identity service gate returns the GATE_LIST entry as an array of		RQ0804_022	
2	UUID gate identifiers to the Identity application gate.		RQ0804_013	
	The dynamic gate identifier related to the accessor authentication			
	service shall not be present in the GATE_LIST			
	Identity application gate sends ANY_GET_PARAMETER command		RQ0804_022	
3	_	er identifier '81' (GATE_URN_LIST) to the Identity		
	service gate.			
4		ervice gate returns GATE_URN_LIST entry with the list	RQ0804_018	
		of URN-s and UUID-s of the gates to the Identity application gate.		
5	•	ovided in the GATE_URN_LIST shall be present in the	RQ0804_020	
	GATE_LIST			

### 8.4.3.4 SCL\_034 - Link Service Gate additional registry entry

Test id	est identification   SCL_034			
Test o	To retrieve the additional registry entry of the Link Service Gate. Checking the minimal value of the SSP_MTU			
Config	guration	CSCL_004		
refere	nce			
	Initial conditions			
None				
Test sequence				
Step	Description	·	Requirements	
1		on gate sends ANY_GET_PARAMETER command with the register SSP_MTU) to the Link service gate.		
2		ce gate sends ANY_OK to the Link application gate including the value which shall be equal to or greater than 20.	RQ0803_001 RQ0804_004 RQ0804_005 RQ0804_006	

### 8.4.3.5 SCL\_035 - Credit based data flow control on administration gate

Test ic	dentification	SCL_035		
Test objectives		The administration gate shall not generate EVT_ADM_RECEIVED or EVT_ADM_CREDIT		
with pipe identifier related to static pipes.				
Config	Configuration CSCL_001			
_	reference			
		Initial conditions		
The pro	ocedure PSCL	_021 is successfully executed.		
Test sequence				
Step	Description		Requirements	
1	Identity applic	cation gate in host A sends ANY_GET_PARAMETER command (pipe		
	PIPExy) to the identity service gate in the SSP host with the register '04'H.			
2	Identity service gate in SSP host sends ANY_GET_PARAMETER response (pipe			
	PIPE <sub>YX</sub> ) to the identity application gate in the other hostA.			
	The identity service identifier shall be present.			
3	Step 1 and 2	is repeated 10 times	RQ0804_010	
	The administr	ration gate of the SSP host shall not generate EVT_ADM_RECEIVED or	RQ0804_011	
		REDIT with pipe identifiers related to identity gate.	RQ0804_012	
		, ,	RQ0804 014	
			_*	

#### 8.4.3.6 End of ASN.1 structure

The annex shall be appended at the end of the SCL test descriptions.

-- ASN1START END -- ASN1STOP

# 8.4.3.7 Requirements not testable, implicitly verified or verified elsewhere

#### 8.4.3.7.1 Requirements implicitly tested

The following requirements identified in 5.4.4 are generated from descriptive text. An explicit verification is not possible but with correct execution of the related function the requirements can be handled as implicitly verified:

RQ0804\_019

#### 8.4.3.7.2 Requirements verified elsewhere

The following requirements identified in clause 5.4.3 are not tested in accordance with the present document, as they are referencing requirements from a different standardization body:

RQ0804\_001, RQ0804\_002, RQ0804\_003, RQ0804\_024, RQ0804\_025

RQ0804\_007, RQ0804\_008, RQ0804\_009, RQ0804\_021

#### 8.6.3.7.3 Requirements tested in a different clause

The following requirements are tested in a different clause of the present document:

RQ0804\_015, RQ0804\_016, RQ0804\_017, RQ0804\_022

# 8.5 SCL procedures

### 8.5.1 Requirements verified elsewhere

The following requirements identified in clause 5.4.5 are not tested in accordance with the present document, as they are referencing requirements from a different standardization body:

RQ0805 001, RQ0805 002, RQ0805 005, RQ0805 006, RQ0805 007

### 8.5.2 Requirements not tested

The following requirements identified in clause 5.4.2 are either generated from descriptive text or not testable in the defined test environment. A verification of the listed requirements is not possible:

RQ0805\_003, RQ0805\_004

# 9 Test Descriptions: Secure SCL

#### 9.1 Protocol stack

There are no test descriptions related to clause 9.1 of ETSI TS 103 666-1 [1].

# 9.2 Secure datagram

There are no test descriptions related to clause 9.2 of ETSI TS 103 666-1 [1]. The requirements related to this clause are tested in SSL\_034 below.

# 9.3 Security protocol

### 9.3.1 Configurations

#### 9.3.1.1 Referred configurations

The test descriptions refer to the following configurations:

• CAAS\_001-Accessor and Identity services.

#### 9.3.1.2 ASN.1 definitions

The following definitions are used for the procedures and the test descriptions.

```
-- ASN1START
SSPSSLconfigurations { itu-t (0) identified-organization (4) etsi (0) smart-secure-platform (3666)
part1 (1) test (2) secure_scl (5)}
DEFINITIONS
AUTOMATIC TAGS
EXTENSIBILITY IMPLIED ::=
BEGIN
EXPORTS ALL;
/* Imports */
IMPORTS
  UUID
  SessionID,
  AccessorRights,
  AAS-CONTROL-SERVICE-GATE-Commands,
  AAS-CONTROL-SERVICE-GATE-Responses,
  Certificate,
  AuthenticationToken,
      AccessorTokenCredential,
  AccessorConditionsPIN.
  AccessorConditions,
  Version,
  VersionType
FROM SSPDefinitions
  SubjectPublicKeyInfo
FROM PKIX1Explicit88
  ECDSA-Sig-Value,
id-ecPublicKey
FROM PKIX1Algorithms88;
eAASVersion VersionType ::='0100' --Version 01.00
brainpool384r1 OBJECT IDENTIFIER ::={ 1 3 36 3 3 2 8 1 1 11}
eEADSASHA256 OBJECT IDENTIFIER ::= { 1 2 840 10045 4 3 2}
-- urn:etsi.org:asn.1:accessor:test:1
eAS-ID-ACC-TEST-1 UUID::='7DFF3B1C6C345A49BC36F1380CEAA0C2'H
 - urn:etsi.org:asn.1:accessor:root
eAS-ID-AAS-Service
                      UUID::='DD61116FF0DD57F48A4F52EE70276F24'H
UUID::='AAAAAAABBBBCCCCDDDDEEEEEEEEEEE'H
-- The root accessor has all accessor rights
eAS-ACL-ROOT
                       AccessorRights ::= {
--eAASAccessRight-RequiresSecurePipe-- eRight-Bit1,
--eAASAccessRight-Create AccessorRights--eRight-Bit2,
--eAASAccessRight-Delete--
                            eRight-Bit3,
--eAASAccessRight-Update AccessorRights--eRight-Bit4,
--eAASAccessRight-UpdateACL-- eRight-Bit5,
--eAASAccessRight-UpdateGroup-- eRight-Bit6,
--eAASAccessRight-UpdateCredentialPolicy-- eRight-Bit7,
--eAASAccessRight-UpdateCredentialStatus-- eRight-Bit8
-- The TEST 1 accessor may update its ACL
eAS-ACL-TEST-1
                       AccessorRights ::= {
--eAASAccessRight-UpdateACL--
                                    eRight-Bit5,
--eAASAccessRight-UpdateCredentialPolicy-- eRight-Bit7,
--eAASAccessRight-UpdateCredentialStatus-- eRight-Bit8
-- ASN1STOP
```

### 9.3.1.3 Implicit requirements

There are no implicit requirements.

#### 9.3.1.4 Software tools

Software tools associated with these test descriptions are available in the ETSI forge repository as defined in [i.1]. These tools are provided as examples of how to generate the required data for tests.

The tools enable a tester to generate:

- The AAS certification path (authentic) leading to a correct certification path.
- The AAS certification path (fake) leading to a wrong certification path.
- The AAA certification path (authentic) leading to a correct certification path.
- The AAA certification path (fake) leading to a wrong certification path.
- A valid ATK.AAA.ECKA authentication token duly signed with a verifiable AAA certification path.
- An invalid ATK.AAA.ECKA authentication token duly signed with a verifiable AAA certification path.
- A valid ATK.AAS.ECKA authentication token duly signed with a verifiable AAS certification path.
- An invalid ATK.AAS.ECKA authentication token duly signed with a verifiable AAS certification path.

The generated authentication tokens and certification paths can be combined.

### 9.3.2 Procedures

#### 9.3.2.1 Referred procedures

The test descriptions refer to the following procedures in clause 6.13.2 above:

- PAAS\_021: Open a pipe session with the Identity gate
- PAAS\_022: Open a pipe session with the ROOT Accessor Authentication service
- PAAS\_023: Open a pipe session with the Anonymous Accessor Authentication service of the Anonymous Accessor
- PAAS 024: Open a pipe session with the TEST-1 Accessor Authentication service

# 9.3.3 Test descriptions- Security protocol

# 9.3.3.1 SSL\_031 - Shared secret initialization

Test identi	fication SSL_031		
The root accessor shall be able to be authenticated with the Accessor Authentication service by using:  The aAAS-OP-GET-CHALLENGE-Service-Command command.  The aAAS-OP-AUTHENTICATE-ACCESSOR-Service-Command command.		ommand.	
	This authentication is based on authentication tokens.		
Configurat	ion CAAS_001		
reference			
	Initial conditions		
The procedure PAAS_021 shall be successfully executed. The ROOT accessor is present in the GATE_LIST egistry of the identity gate.  The procedure PAAS_022 shall be successfully executed. A pipe session is opened with the ROOT Accesso Authentication Service gate.			
	Test sequence		
_	scription	Requirements	
Step Des			

	rest sequence		
Step	Description	Requirements	
1	AAA gate sends an aSSL-0031-command-01 command to AAS gate with:  ASN1START  aSSL-0031-command-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP- GET-CHALLENGE-Service-Command : {}  ASN1STOP	RQ0904_001	
2	AAS gate sends an aSSL-0031-response-01 response to AAA gate with:  ASN1START  aSSL-0031-response-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS- OP-GET-CHALLENGE-Service-Response : {    aAAS-Service-Response eAAS-OK,    aParameter {     aChallenge eAS-Challenge,     aCertificates {eAS-CERT-01}}}  ASN1STOP	RQ0903_001 RQ0903_002 RQ0903_003 RQ0904_002	
3	AAA gate sends an aSSL-0031-command-02 command to AAS gate with: ASN1START aSSL-0031-command-02 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-AUTHENTICATE-ACCESSOR-Service-Command : {    aCredential aAccessorTokenCredential : {     aToken eAS-ATK-01, aTokenCertificationPath {eAS-CERT-02}}} ASN1STOP	RQ0903_004 RQ0903_005 RQ0903_006 RQ0903_007 RQ0903_012 RQ0904_004	
4	AAS gate sends an aSSL-0031-response-02 response to AAA gate with:  ASN1START  aSSL-0031-response-02 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS- OP-AUTHENTICATE-ACCESSOR-Service-Response : {     aAAS-Service-Response eAAS-OK,     aParameter aServiceToken eAS-ATK-01 } ASN1STOP	RQ0903_008 RQ0903_009 RQ0903_010 RQ0903_011 RQ0903_013	

# 9.3.3.2 SSL\_032 - Access to the Authentication Service from the ROOT accessor

		T	
Test id	dentification	SSL_032	
Test objectives		The root accessor shall be able to be authenticated with the Access	or Authentication
	•	service by using:	
		The aAAS-OP-ACCESS-SERVICE-Service-Command com	nmand
		The authentication mean is based on the authentication tokens.	illialia.
Canti	nuration		
	guration	CAAS_001	
refere	nce		
		Initial conditions	
The te	st SSL_031 sh	all be successfully executed.	
		Test sequence	
Step	Description	•	Requirements
1	AAA gate an aSSL-032-command-01 command to AAS gate with:		
	ASN1START		
	aSSL-0032-c	ommand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-	
	ACCESS-SERVICE-Service-Command : {		
	aServiceId	dentifier eAS-ID-AAS-Service, aUseSecurePipe TRUE}	
	ASN1STOP		
2	AAS gate an	aSSL-0032-response-01 response to AAA gate with:	RQ0903_014
	ASN1STAR	r · · · · · · · · · · · · · · · · · · ·	RQ0903 015
	aSSL-0032-re	esponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	RQ0903 016
	OP-ACCESS-SI	ERVICE-Service-Response : {	1140000_010
	aAAS-Serv	ice-Response eAAS-OK,	
	aParamete:	r { aGateIdentifier eAS-ID-AAS-GateID }}	
	ASN1STOP		

# 9.3.3.3 SSL\_033 - Shared secret initialization (failure)

Test ic	dentification	SSL_033	
	bjectives Juration	The root accessor shall be able to be authenticated with the Accessor service by using:  • The aAAS-OP-GET-CHALLENGE-Service-Command comm • The aAAS-OP-AUTHENTICATE-ACCESSOR-Service-Command The authentication mean is based on the authentication tokens. The the authentication failed, because[explain what is used as wrong of CAAS_001]	nand. Imand command. test is successful if
		Initial conditions	
registry The pro	of the identity	S_022 shall be successfully executed. A pipe session is opened with the gate.	
Ctor	Description	Test sequence	Demiliamente
Step	Description	101111111111111111111111111111111111111	Requirements
1	ASN1STAR	ommand-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP- GE-Service-Command : {}	RQ0903_001
2	ASN1STAR' aSSL-0031-rc OP-GET-CHAL: aAAS-Serv: aParamete: aChalle	- esponse-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS- LENGE-Service-Response : { ice-Response eAAS-OK,	RQ0903_002 RQ0903_003
3	AAA gate sen ASN1STAR aSSL-0033-co AUTHENTICAT aCredentia	nds an aSSL-033-command-02 command to AAS gate with:  T ommand-02 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP- E-ACCESSOR-Service-Command : {     al aAccessorTokenCredential : {     eAS-ATK-01, aTokenCertificationPath {eAS-CERT-01}}}	RQ0903_004 RQ0903_005 RQ0903_006 RQ0903_007 RQ0903_012

4	AAS gate sends an aSSL-033-response-02 response to AAA gate with:	RQ0903_008
	ASN1START	RQ0903_009
	aSSL-0033-response-02 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	RQ0903_010
	OP-AUTHENTICATE-ACCESSOR-Service-Response : {	RQ0903 011
	aAAS-Service-Response eAAS-E-NOK }	RQ0903 013
	ASN1STOP	

# 9.3.3.4 SSL\_034 - Capability of an accessor (secure SCL usage)

Test identification	SSL_034
Test objectives	The Accessor Authentication application shall send an aAAS-OP-GET-CAPABILITIES-Service-Command by using the secure SCL.  The purpose of this test is to initiate a transmission using the secure SCL.  AAS and AAS gate shall verify the following requirements related to the secure SCL:  The diversification of the IV and K according to the DIVERSIFIER as defined in clauses 9.2 and C.4 of ETSI TS 103 666-1 [1].  The secure message fragment length is a multiple of 16 bytes.  The ICHECK is compliant with the ANSI X9.63 [30].  The CGM counter is initiated at the opening of the pipe session.
Configuration reference	CSSL_003
	Initial conditions

#### Initial conditions

The following tests shall be successfully executed in order:

- The AAS\_312 requesting to access the Accessor Authentication Service by using a secure SCL.
- The AAS\_313 opening a pipe session to an Accessor Authentication Service gate by using a secure SCI.

	Test sequence		
Step	Description	Requirements	
1	AAA gate sends an aSSL-034-command-01 command to AAS gate with:	RQ0902_001	
	ASN1START aSSL-0034-command-01 AAS-CONTROL-SERVICE-GATE-Commands ::= aAAS-OP-	RQ0902_002	
	GET-CAPABILITIES-Service-Command : {	RQ0902_003	
	aRequestType eGlobalAuthenticationService}	RQ0902_004	
	ASN1STOP	RQ0902_005	
		RQ0902_006	
		RQ0902_007	
		RQ0902_008	
		RQ0902_009	
		RQ0902_010	
2	AAS gate sends an aSSL-034-response-01 response to AAA gate with:	RQ0902_001	
	ASN1START	RQ0902_002	
	aSSL-0034-response-01 AAS-CONTROL-SERVICE-GATE-Responses ::= aAAS-	RQ0902_003	
	OP-GET-CAPABILITIES-Service-Response : {	RQ0902_004	
	aAAS-Service-Response eAAS-OK,	RQ0902 005	
	aParameter aGlobalAuthenticationService : {     aAASVersion eAASVersion,	RQ0902_006	
	aAccessorList {	RQ0902_007	
	aAccessorUser : {	RQ0902_008	
	aAccessorIdentity eAS-ID-ACC-ROOT,	RQ0902 009	
	aAccessorConditions {aAccessConditionsTokens	RQ0902_010	
	eTokenCertificate},	1100002_010	
	aACL {		
	{		
	aAccessorIdentity eAS-ID-ACC-ROOT,		
	<pre>aAccessorRights eAS-ACL-ROOT }}},</pre>		
	aAccessorUser : {		
	aAccessorIdentity eAS-ID-ACC-TEST-1,		
	aAccessorConditions {aAccessConditionsPIN ePinNumeric},		
	aACL {{		
	aAccessorIdentity eAS-ID-ACC-TEST-1,		
	aAccessorRights eAS-ACL-TEST-1		
	},{		
	aAccessorIdentity eAS-ID-ACC-ROOT,		
	<pre>aAccessorRights eAS-ACL-ROOT }}}}}}</pre>		
	ASN1STOP		
L		l i	

# 9.3.4 Annexes - Accessor Authentication ASN.1 description

#### 9.3.4.1 Annex - Certificates and Tokens

#### 9.3.4.1.0 Certificates and Tokens

The Authentication token and certificates.

```
-- ASN1START
eAS-ATK-01 AuthenticationToken::={
     tbsToken {
       version v1,
       subjectPublicKeyInfo {
         algorithm {
           algorithm { 0 0 }
         subjectPublicKey '0'B
       aATK-Content {
        aKey-Size e128,
         aStreamCipherIdentifier aAES-CGM-StreamCipherIdentifier
     signatureAlgorithm {
       algorithm eEADSASHA256
     signature {
       r 0,
       s 0
eAS-CERT-01 Certificate ::= {
  tbsCertificate {
    version v3,
    serialNumber 1,
    signature {
     algorithm { 0 0 },
     parameters OCTET STRING : '00'H
    issuer rdnSequence : {
     {
        type { 0 0 },
value OCTET STRING : '00'H
    validity {
     notBefore utcTime : "000101000000Z",
     notAfter utcTime : "000101000000Z"
    subject rdnSequence : {
        type { 0 0 },
        value OCTET STRING : '00'H
     }
    subjectPublicKeyInfo {
     algorithm {
       algorithm brainpool384r1
     subjectPublicKey '0'B
    issuerUniqueID '0'B,
    subjectUniqueID '0'B,
    extensions {
       extnID { 0 0 },
       critical FALSE,
       extnValue '00'H
```

```
signatureAlgorithm {
     algorithm eEADSASHA256
  signature '0'B
eAS-CERT-02 Certificate ::= {
  tbsCertificate {
     version v3,
     serialNumber 1,
    signature {
  algorithm { 0 0 },
     parameters OCTET STRING : '00'H
     issuer rdnSequence : {
         type { 0 0 },
         value OCTET STRING : '00'H
     },
     validity {
     notBefore utcTime : "000101000000Z",
notAfter utcTime : "000101000000Z"
     subject rdnSequence : {
         type { 0 0 },
         value OCTET STRING : '00'H
     subjectPublicKeyInfo {
      algorithm {
        algorithm brainpool384r1
      subjectPublicKey '0'B
     issuerUniqueID '0'B,
     subjectUniqueID '0'B,
     extensions {
      {
        extnID { 0 0 },
        critical FALSE,
        extnValue '00'H
     }
   },
   signatureAlgorithm {
     algorithm { 0 0 },
     parameters OCTET STRING : '00'H
  signature '0'B
-- ASN1STOP
```

#### 9.3.4.1.1 Annex - Certificates with valid certification path

The certificates and the private keys are published for test only and shall not be used for an operational authentication. Only the private keys are published. The public keys are deduced from the private keys and the certificate can be generated by using the tooling available on the ETSI repository.

### ETSI-SSP-CI-private-key

```
Private-Key: (384 bit)
priv:
    8a:98:d5:15:cc:00:c7:0a:85:50:29:6c:86:8d:52:
    da:88:fc:8e:b8:5b:56:36:17:2b:b0:65:1c:ca:de:
    f9:b0:88:92:75:73:ff:81:62:5e:f7:1c:2b:12:f9:
    48:59:97
```

```
pub:
    04:45:df:a0:b2:68:bb:0c:0b:68:b9:10:d9:18:f8:
    fa:55:3a:6b:e6:d1:d2:f4:cd:02:a9:2f:3e:43:e9:
    7d:ae:26:b7:ab:ef:e9:60:36:c5:4d:ad:7f:0a:e4:
    70:13:87:bd:07:84:65:8c:3c:0d:cb:e5:aa:b6:cf:
    21:ca:a2:3d:72:0f:ec:4d:ba:bb:9b:71:4d:e4:f0:
    7c:90:ec:84:51:e1:50:28:6a:c6:d5:81:ad:le:e1:
    8b:04:51:2f:29:b9:74

ASN1 OID: brainpoolp384r1
----BEGIN EC PRIVATE KEY-----
MIGOAGEBBDCKMNUVZADHCOVQKWyGjVLaiPyOuFtWNhcrsGUcyt75sIiSdXP/gWJe
9xwrEv1IWZegCwYJKyQDAwIIAQELOWQDYGAERd+gsmi7DAtouRDZGPj6VTpr5tHS
9M0CqS8+Q+19ria3q+/pYDbFTa1/CurwE4e9B4R1jDwNy+Wqts8hyqI9cg/sTbq7
m3FN5PB8kOyEUeFQKGrGlYGtHuGLBFEvKbl0
-----END EC PRIVATE KEY-----
```

#### ETSI-SSP-AAA-CA-private-key

```
Private-Key: (384 bit)
priv:
    3c:c0:ae:01:5d:39:99:4c:2c:a9:42:b0:b7:4f:64:
    29:d5:ef:1f:87:39:f1:c5:98:f4:80:b0:a5:ec:58:
    9b:dc:eb:36:0d:c8:a7:f6:de:e2:8f:d0:79:9d:47:
:duq
    04:19:ab:77:c8:78:2e:f4:9f:98:af:3c:23:42:88:
    73:00:51:cc:b6:3a:49:da:e2:90:2b:e8:9c:44:83:
    49:bb:67:96:48:4d:61:04:86:57:c6:c0:52:c3:38:
    bf:c3:d4:1e:5f:a8:80:52:a7:60:25:cd:63:4d:79:
    37:a6:bd:6c:1d:ca:dc:bb:33:0d:85:6f:3c:18:8c:
    27:2a:23:1a:eb:e0:12:f3:14:ff:ac:d7:22:96:41:
    7e:9d:bc:ed:fb:6a:0a
ASN1 OID: brainpoolP384r1
 ----BEGIN EC PRIVATE KEY---
{\tt MIGoAgEBBDA8wK4BXTmZTCypQrC3T2Qp1e8fhznxxZj0gLC17Fib30s2Dcin9t7i}
j9B5nUc1bXmgCwYJKyQDAwIIAQELoWQDYgAEGat3yHgu9J+YrzwjQohzAFHMtjpJ
2uKQK+icRINJu2eWSE1hBIZXxsBSwzi/w9QeX6iAUqdgJc1jTXk3pr1sHcrcuzMN
hW88GIwnKiMa6+AS8xT/rNcilkF+nbzt+2oK
----END EC PRIVATE KEY--
```

#### ETSI-SSP-AAA-EE-private-key

```
Private-Key: (384 bit)
priv:
    66:21:47:d6:4a:6e:75:8d:5c:e4:03:57:7f:6a:cc:
    ea:12:9b:0c:c8:33:fd:d6:df:68:af:95:97:47:96:
    f2:d4:ef:c9:f1:df:cc:la:f9:87:2d:c3:9b:80:14:
    89:86:97
pub:
    04:59:22:a0:b6:17:04:d2:1a:8c:5a:27:58:23:00:
    bb:77:26:eb:49:ad:2b:dd:85:5f:cb:34:92:18:8c:
    df:27:29:aa:34:ed:ae:58:db:6d:93:8c:6d:27:83:
    7d:cb:d7:87:84:f2:0a:2d:47:9b:17:6d:dc:ed:68:
    a3:db:76:47:f2:9c:5a:ae:20:97:24:27:fc:00:2c:
    b8:a7:a6:f2:52:82:60:f8:fb:3d:a2:75:5c:03:22:
    8d:ee:05:fd:66:6f:8a
ASN1 OID: brainpoolP384r1
 ----BEGIN EC PRIVATE KEY--
{\tt MIGoAgEBBDBmIUfWSm51jVzkA1d/aszqEpsMyDP91t9or5WXR5by10/J8d/MGvmHissland}
LcObgBSJhpegCwYJKyQDAwIIAQELoWQDYgAEWSKgthcE0hqMWidYIwC7dybrSa0r
3YVfyzSSGIzfJymqNO2uWNttk4xtJ4N9y9eHhPIKLUebF23c7Wij23ZH8pxariCX
JCf8ACy4p6byUoJg+Ps9onVcAyKN7gX9Zm+K
----END EC PRIVATE KEY---
```

#### ETSI-SSP-AAS-CA-private-key

```
Private-Key: (384 bit)
priv:
    31:1b:e2:b7:0f:d0:fe:81:bc:1f:8c:c9:5e:0a:ff:
    78:fc:88:26:b4:07:ae:c9:d1:94:51:df:32:2d:24:
    16:66:d5:a8:ad:2a:4a:49:29:95:48:2f:f2:e5:d7:
    76:ab:db
```

```
04:8b:f7:79:02:f4:5f:a0:9a:9f:79:a7:5c:2f:ef:
          db:e7:e9:0c:f0:03:01:d0:9f:d8:5b:b3:06:be:3b:
          96:62:38:94:95:71:58:95:1c:27:74:c0:92:1c:9e:
          91:62:56:78:52:0b:5f:50:34:65:36:24:1f:03:b9:
          27:76:b8:52:22:fc:c9:97:e2:96:f9:e5:5a:58:05:
          f4:79:0c:33:48:b7:71:80:db:29:38:4c:72:42:44:
          a5:14:09:86:b3:04:4f
ASN1 OID: brainpoolP384r1
        --BEGIN EC PRIVATE KEY
MIGoAgEBBDAxG+K3D9D+gbwfjMleCv94/IgmtAeuydGUUd8yLSQWZtWorSpKSSmV
SC/y5dd2q9ugCwYJKyQDAwIIAQELoWQDYgAEi/d5AvRfoJqfeadcL+/b5+kM8AMB
0J/YW7MGvjuWYjiUlXFYlRwndMCSHJ6RYlZ4UgtfUDRlNiQfA7kndrhSIvzJl+KW
+eVaWAX0eQwzSLdxgNspOExyQkS1FAmGswRP
        --END EC PRIVATE KEY
ETSI-SSP-AAS-EE-private-kev
Private-Key: (384 bit)
          39:06:12:a8:b3:a4:78:ac:29:15:d3:3e:30:6b:46:
          da:fe:c3:0b:ff:e1:bd:75:72:39:c3:6c:2a:6f:dd:
          01:87:76:7d:c3:37:54:7b:83:13:f9:13:b0:43:7d:
          04:60:90:64:71:ca:09:0f:a7:3d:ec:60:fa:8f:d8:
          9d:6b:c6:72:f9:93:33:a5:e4:02:d9:e5:19:d3:ee:
          02:4e:c5:b4:da:a4:97:c0:66:02:31:01:54:13:75:
          8c:14:3e:12:1c:c1:92:e7:8f:f8:c5:51:71:6d:30:
          9c:c9:52:0d:26:9f:02:c0:bb:12:87:47:40:6c:b4:
          54:33:7b:a7:27:3b:87:41:91:67:cd:60:bd:37:b6:
          ac:41:97:4a:8a:4b:54
ASN1 OID: brainpoolP384r1
        --BEGIN EC PRIVATE KEY-
MIGoAgEBBDA5BhKos6R4rCkV0z4wa0ba/sML/+G9dXI5w2wqb90Bh3Z9wzdUe4MT
+ROwQ30/zMugCwYJKyQDAwIIAQELoWQDYgAEYJBkccoJD6c97GD6j9ida8Zy+ZMz
\verb"peQC2eUZ0+4CTsW02qSXwGYCMQFUE3WMFD4SHMGS54/4xVFxbTCcyVINJp8CwLsS" and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con
h0dAbLRUM3unJzuHQZFnzWC9N7asQZdKiktU
   ----END EC PRIVATE KEY--
```

#### 9.3.4.2 Annex - End of ASN.1 structure

The annex shall be appended at the end of the accessor authentication test descriptions.

```
-- ASN1START
END
-- ASN1STOP
```

# 9.4 Accessor authentication service procedure

# 9.4.1 Requirements implicitly verified

The following requirements identified in clause 5.5.4 are generated from descriptive text. An explicit verification is not possible but with correct execution of the related function the requirements can be handled as implicitly verified:

RQ0904\_001, RQ0904\_002, RQ0904\_003, RQ0904\_004.

# 10 Test Descriptions: Communication layers above SCL

## 10.1 Overview

There are no requirements for test descriptions related to clause 10.1 of ETSI TS 103 666-1 [1].

# 10.2 APDU protocol

### 10.2.1 Introduction

There are no requirements for test descriptions related to clause 10.2.1 of ETSI TS 103 666-1 [1].

## 10.2.2 Command-response pairs

#### 10.2.2.1 General definition

There are no test descriptions related to clause 10.2.2.1 of ETSI TS 103 666-1 [1].

Requirement RQ1002\_001 is unspecific and will be tested implicitly with SSP command related tests if the UICC File System Service is supported.

#### 10.2.2.2 CLA byte

There are no test descriptions related to clause 10.2.2.2 of ETSI TS 103 666-1 [1].

Requirement RQ1002\_002 is unspecific. Class byte handling will be tested implicitly with SSP command related tests if the UICC File System Service is supported.

#### 10.2.2.3 INS byte

There are no test descriptions related to clause 10.2.2.3 of ETSI TS 103 666-1 [1].

Requirement RQ1002\_003 is implicitly tested with SSP command related tests if the UICC File System Service is supported.

Requirement RQ1002\_004 is unspecific. As no specific error handling is defined in ETSI TS 102 221 [7], the requirement cannot be tested.

#### 10.2.2.4 Status Word SW1 SW2

There are no test descriptions related to clause 10.2.2.4 of ETSI TS 103 666-1 [1].

The requirements RQ1002\_005 and RQ1002\_006 are implicitly tested with SSP commands if the UICC File System Service is supported.

#### 10.2.3 SSP commands

#### 10.2.3.0 Applicability of SSP commands

The tester shall successfully execute test descriptions as defined in ETSI TS 102 230-2 [6] related to the defined SSP commands if the UICC File System Service is supported.

NOTE: Tests from ETSI TS 102 230-2 [6] identified as applicable for this clause are referenced as SSP\_REF.

### 10.2.3.1 Overview

There are no requirements for test descriptions related to clause 10.2.3.1 of ETSI TS 103 666-1 [1].

#### 10.2.3.2 EXCHANGE CAPABILITIES

#### 10.2.3.2.0 Applicability of the EXCHANGE CAPABILITIES command

As the handling of the EXCHANGE CAPABILITIES command defined in clause 10.2.3.2 of ETSI TS 103 666-1 [1] has no equivalent in ETSI TS 102 230-1 [2] or ETSI TS 102 230-2 [6]. EXCHANGE CAPABILITIES command related tests are FFS.

RQ1002\_007, RQ1002\_008, RQ1002\_009, RQ1002\_010 and RQ1002\_011 cannot be tested currently.

#### 10.2.3.3 SELECT

#### 10.2.3.3.0 Applicability of the SELECT command

The provisions of ETSI TS 102 221 [7] shall apply. As there currently are no specific test descriptions for a SELECT command with P1 = "04" as defined in clause 10.2.3.3 of ETSI TS 103 666-1 [1] and its sub-clauses, the "select by DF name" command related test in accordance with ETSI TS 102 230-2 [6], clause 6.6.6.1.1 is to be used.

RQ1002\_012 is implicitly tested when executing tests from ETSI TS 102 230-2 [6], clause 6.6.6.1.1.

## 10.2.4 Logical channels

### 10.2.4.0 Applicability of logical channel related commands

The provisions of ETSI TS 102 221 [7], clause 11.1.17 shall apply. The tester shall successfully execute test descriptions as defined in ETSI TS 102 230-2 [6] related to logical channels if the UICC File System Service is supported.

NOTE: Tests from ETSI TS 102 230-2 [6] identified as applicable for this clause are referenced as LCH REF.

#### 10.2.4.1 Overview

There are no test descriptions explicitly related to clause 10.2.4.1 of ETSI TS 103 666-1 [1].

RQ1002\_013, RQ1002\_014 and RQ1002\_015 are implicitly tested with the Logical Channel tests defined in ETSI TS 102 230-2 [6], clause 6.6.8.

#### 10.2.4.2 MANAGE CHANNEL

The provisions of ETSI TS 102 221 [7], clause 11.1.17 shall apply. Logical channel tests using the MANAGE CHANNEL command as defined in ETSI TS 102 230-2 [6], clause 6.6.8 have to be used.

RQ1002\_016 and RQ1002\_17 are implicitly tested with the logical channel tests defined in ETSI TS 102 230-2 [6], clause 6.6.8.

## 10.2.5 UICC file system commands

#### 10.2.5.0 Applicability of UICC file system commands

The provisions of ETSI TS 102 221 [7], clause 8.4 shall apply. The tester shall successfully execute test descriptions as defined in ETSI TS 102 230-2 [6] related to UICC file system commands if the UICC File System Service is supported.

NOTE: Test from ETSI TS 102 230-2 [6] identified as applicable for this clause are referenced as UFS REF.

#### 10.2.5.1 Overview

There are no test descriptions explicitly related to clause 10.2.5.1 of ETSI TS 103 666-1 [1].

### 10.2.5.2 Methods for selecting a file

The provisions of ETSI TS 102 221 [7], clause 8.4 shall apply. Methods for selecting a file tests as defined in ETSI TS 102 230-2 [6], clause 6.6.5 have to be used.

Requirement RQ1002\_018 is unspecific, but implicitly tested when executing tests from ETSI TS 102 230-2 [6], clause 6.6.5.

#### 10.2.5.3 Reservation of file IDs

The provisions of ETSI TS 102 221 [7], clause 8.6 shall apply. Methods for reservation of file IDs tests as defined in ETSI TS 102 230-2 [6], clause 6.6.7 have to be used.

Requirement RQ1002\_019 is unspecific, but implicitly tested when executing tests from ETSI TS 102 230-2 [6], clause 6.6.7.

## 10.2.5.4 Security features

The provisions of ETSI TS 102 221 [7], clause 9 shall apply. Methods for security feature tests as defined in ETSI TS 102 230-2 [6], clause 6.7 have to be used.

Requirement RQ1002\_020 is unspecific, but implicitly tested when executing tests from ETSI TS 102 230-2 [6], clause 6.7.

#### 10.2.5.5 Additional commands

The specific command related provisions of ETSI TS 102 221 [7], clause 11.1 and clause 11.3 shall apply. Methods for testing the identified additional commands as defined in ETSI TS 102 230-2 [6], clause 6.9.1 and clause 6.9.2 have to be used.

Requirement RQ1002\_021 is unspecific, but is implicitly tested when executing tests from clauses 6.9.1.1, 6.9.1.3, 6.9.1.4, 6.9.1.5, 6.9.1.6, 6.9.1.7, 6.9.1.8, 6.9.1.9, 6.9.1.10, 6.9.1.11, 6.9.1.12, 6.9.1.13, 6.9.1.14, 6.9.1.15, 6.9.2.1 and 6.9.2.2 of ETSI TS 102 230-2 [6].

## 10.2.6 Card Application Toolkit

#### 10.2.6.0 Applicability of Card Application Toolkit services

The provisions of ETSI TS 102 221 [7], clause 7.4.2 shall apply if the SSP indicates the support of Card Application Toolkit according to ETSI TS 102 223 [9], The tester shall successfully execute test descriptions as defined in ETSI TS 102 230-2 [6] related to UICC file system commands if the UICC File System Service is supported.

#### 10.2.6.1 Overview

There are no test descriptions explicitly related to clause 10.2.6.1 of ETSI TS 103 666-1 [1].

As the handling of Card Application Toolkit commands defined in clause 10.2.6.1 of ETSI TS 103 666-1 [1] has no equivalent in ETSI TS 102 230-1 [2] or ETSI TS 102 230-2 [6]. Card Application Toolkit command related tests are FFS.

RQ1002\_022, RQ1002\_023, RQ1002\_024 and RQ1002\_025 cannot be tested currently.

#### 10.2.6.2 Terminal profile

There are no test descriptions explicitly related to clause 10.2.6.2 of ETSI TS 103 666-1 [1].

As the handling of the Terminal profile as defined in clause 10.2.6.2 of ETSI TS 103 666-1 [1] has no equivalent in ETSI TS 102 230-1 [2] or ETSI TS 102 230-2 [6] Terminal profile handling related tests are FFS.

RQ1002\_026, RQ1002\_027, and RQ1002\_028 cannot be tested currently.

#### 10.2.6.3 Proactive polling

There are no test descriptions explicitly related to clause 10.2.6.3 of ETSI TS 103 666-1 [1].

As the handling of the Proactive polling as defined in clause 10.2.6.3 of ETSI TS 103 666-1 [1] has no equivalent in ETSI TS 102 230-1 [2] or ETSI TS 102 230-2 [6] Proactive polling related tests are FFS.

RQ1002 029, RQ1002 030, and RQ1002 031 cannot be tested currently.

#### 10.2.6.4 Additional commands

There are no test descriptions explicitly related to clause 10.2.6.4 of ETSI TS 103 666-1 [1].

The specific command related provisions of ETSI TS 102 221 [7], clause 11.1 and clause 11.2 shall apply. Methods for testing the identified additional commands as defined in ETSI TS 102 230-2 [6], clause 6.9.1 and clause 6.9.2 have to be used.

NOTE: Tests from ETSI TS 102 230-2 [6] identified as applicable for this clause are referenced as ADD\_REF.

Requirement RQ1002\_032 can be implicitly tested for the STATUS command when executing tests from clause 6.9.1.2. For the commands ENVELOPE, FETCH and TERMINAL RESPONSE no equivalent test description is available in ETSI TS 102 230-1 [2] or ETSI TS 102 230-2 [6]. Related tests are FFS.

### 10.2.7 SSP suspension

#### 10.2.7.0 Applicability of SSP suspension

If suspension is supported, the additional commands defined in Table 10.6 of ETSI TS 103 666-1 [1] shall be supported by the SSP.

As the SSP suspension as defined in clause 10.2.7 of ETSI TS 103 666-1 [1] has no equivalent in ETSI TS 102 230-2 [6] SSP suspension related tests are FFS.

RQ1002\_033 can currently not be tested.

#### 10.2.8 APDU transfer over SCL

#### 10.2.8.0 Applicability of APDU transfer over SCL

The provisions of ETSI TS 102 622 [5] shall apply if the SSP indicates the support of APDU transfer over SCL.

#### 10.2.8.1 Overview

There are no test descriptions explicitly related to clause 10.2.8.1 of ETSI TS 103 666-1 [1].

### 10.2.8.2 UICC APDU gate

#### 10.2.8.2.0 Test Descriptions for the UICC APDU gate

There are no test descriptions explicitly related to clause 10.2.8.2 of ETSI TS 103 666-1 [1].

#### 10.2.8.2.1 UICC APDU overview

The APDU transport over SCL shall use the HCP message structure as defined in ETSI TS 102 622 [5].

APDU gate related tests to verify RQ1002\_034 and RQ1002\_035 are FFS.

Requirements RQ1002\_036 (partly) and RQ1002\_037 032 can be implicitly tested when executing tests from clause 5.9 of ETSI TS 102 695-1 [3].

#### 10.2.8.2.2 UICC APDU service gate

There are no test descriptions related to the UICC APDU service gate URN. Tests to verify RQ1002\_038 are FFS.

Requirement RQ1002\_039 related to the support of events and registry can be implicitly tested when executing tests from clauses 5.9.1.3 and 5.9.1.2 of ETSI TS 102 695-1 [3].

NOTE: Tests from ETSI TS 102 695-1 [3] identified as applicable for this clause are referenced as APDU\_REF1.

#### 10.2.8.2.3 UICC APDU application gate

#### 10.2.8.2.3.0 Test Descriptions for the UICC APDU application gate

There are no test descriptions explicitly related to clause 10.2.8.2.3 of ETSI TS 103 666-1 [1].

#### 10.2.8.2.3.1 Commands

There are no test descriptions related to the UICC APDU application gate supported commands. Tests to verify RQ1002 040 are FFS.

#### 10.2.8.2.3.2 Events

Requirement RQ1002\_041 related to the support of events defined in ETSI TS 102 622 [5] can be implicitly tested when executing tests from clause 5.9.2.3 of ETSI TS 102 695-1 [3].

NOTE: Test from ETSI TS 102 695-1 [3] identified as applicable for this clause are referenced as APDU\_REF2.

#### 10.2.8.2.3.3 EVT\_TOOLKIT\_REQUEST

As the EVT\_TOOLKIT\_REQUEST as defined in clause 10.2.8.2.3.3 of ETSI TS 103 666-1 [1] has no equivalent in ETSI TS 102 622 [5] EVT\_TOOLKIT\_REQUEST related tests are FFS.

Tests to verify RQ1002\_042 and RQ1002\_043 are FFS.

#### 10.2.8.2.4 State diagram for the UICC APDU gate

As the state diagram for the UICC APDU gate as defined in clause 10.2.8.2.4 of ETSI TS 103 666-1 [1] has no equivalent in ETSI TS 102 622 [5] the related tests are FFS.

Tests to verify RQ1002\_044 are FFS.

# 10.3 File system protocol

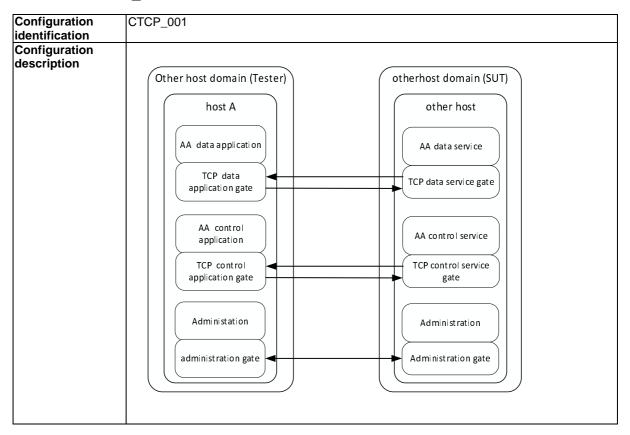
#### 10.3.1 Tests referred to elsewhere

The test descriptions related to clause 10.3 of ETSI TS 103 666-1 [1] can be found in clause 6.6 above.

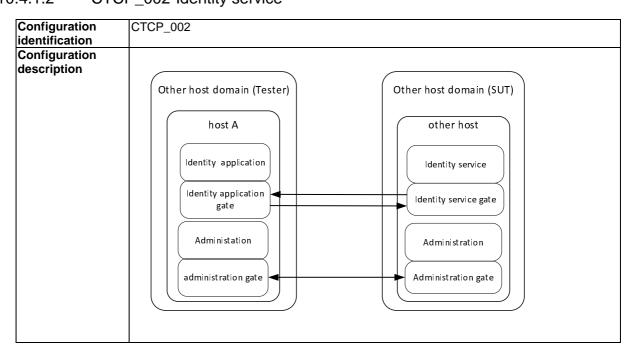
# 10.4 Transmission Control Protocol support

# 10.4.1 Configurations

# 10.4.1.1 CTCP\_001-Generic TCP control service



## 10.4.1.2 CTCP\_002-Identity service



#### 10.4.1.3 ASN.1 definitions

The following definitions are used for the procedures and the test descriptions.

```
-- ASN1START
TCPconfigurations { itu-t (0) identified-organization (4) etsi (0) smart-secure-platform (3666)
part1 (1) test (2) tcp (6)}
DEFINITIONS
AUTOMATIC TAGS
EXTENSIBILITY IMPLIED ::=
BEGIN
EXPORTS ALL;
/* Imports */
IMPORTS
   UIUID
   Version,
  IPV4Addr,
   IPV6Addr,
FODN,
TCP-Control-Application-Response,
TCP-CONTROL-SERVICE-GATE-Commands,
TCP-CONTROL-SERVICE-GATE-Responses,
TCP-CONTROL-APPLICATION-GATE-Commands,
TCP-CONTROL-APPLICATION-GATE-Responses,
TCP-CONTROL-APPLICATION-GATE-Events,
   VersionType
FROM SSPDefinitions;
eTCPVersion VersionType ::='0100' --Version 01.00
eTimeout-passive INTEGER ::= 0
eNetworkAccessName-test OCTET STRING ::='00'H
eUserLogin-test OCTET STRING ::='00'H
eUserPassword-test OCTET STRING ::='00'H
ePortNumber-test INTEGER ::= 17430 --'4416'H smart TLS for smart card
ePortNumber-test-1 INTEGER ::= 65535 --'FFFF'H The host is reachable but the port is not accessible eIP-test IPV4Addr::='000000000'H -- IPV4 address of the reachable remote server for test
eIP-test-1 FQDN::="etsi.eu" -- IPV4 FQDN of unreachable remote server for test
eIP-test-2
               FQDN::= "etsi.org" -- FQDN address of reachable remote server for test
               IPV4Addr::= '000000000'H -- IPV4 address of reachable remote server for test
eIP-test-3
               IPV6Addr::='0000000000000000000000000000000000'H -- IPV6 address of the reachable
eIP-test-4
remote server for test
-- ASN1STOP
```

# 10.4.2 Procedures

# 10.4.2.1 PTCP\_021 - Open a pipe session with the Identity gate

Proced	rocedure PTCP_021	
identification		
Procedure		The host A shall be able to open a pipe session to the identity service gate of the other
objectives		host in the SUT. From the GATE_LIST registry, the UUID of the TCP control service shall
		be listed.
		The SUT may be one of the following hosts:
		REE host
		TEE host
		MBM host
		If the test is successful then a pipe session is open between the identity application and
		the identity service in the other hosts (SUT).
Config	uration	CTCP_002
referer	nce	
		Initial conditions
The tes	ster runs the ide	entity application gate and the SUT runs the identity service gate.
		Procedure sequence
Step	Description	
1		gate sends EVT_ADM_BIND to Administration gate in the other with:
<ul> <li>PIPExy: a dynamically assigned pipe identifier for the identi</li> </ul>		xx: a dynamically assigned pipe identifier for the identity service gate.
	GATEIDENTITY: The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-	
	FA1BA497F917).	
2		gate sends EVT_ADM_BIND to Administration gate in the other host with:
		xx: a dynamically assigned pipe identifier for the identity application gate.
		The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-
	FA1BA497F9	
3		ation gate sends ANY_GET_PARAMETER command (pipe PIPExy) to the identity service
	gate in the other host with the register '04'H.	
4		e gate sends ANY_GET_PARAMETER response (pipe PIPE <sub>YX</sub> ) to the identity application
	gate in the oth	
		rol service identifier shall be present. The test is successful if the previous requirement is
	satisfied.	
5		gate sends EVT_ADM_UNBIND event to the administration gate in the other host with:
		xy: a dynamically assigned pipe identifier for the identity service gate.
		ion between the Identity application gate and the Identity service gate is closed. This step
	is required to	clean up the context of the tests but it is not essential for the test objective.

# 10.4.2.2 PTCP\_022 - Open a pipe session with the TCP control service in the REE Host domain

Proce	Procedure PTCP 022		
identif	dentification		
Procedure The TCP control application gate shall be able to open a pipe session to the TCP con		The TCP control application gate shall be able to open a pipe session to the TCP control	
object	ives	service gate of the REE host.	
		If the test is successful, then a pipe session is open between the TCP control application	
		in the host A and the TCP control service in the REE host.	
Config	guration	CTCP_001	
refere	nce		
	•	Initial conditions	
The pr	ocedure PT	CP_021 shall be successfully executed:	
•	The TCP	control service identifier is present in the GATE_LIST registry of the identity gate.	
		Procedure sequence	
Step	Description	on	
1	Administra	tion gate sends EVT_ADM_BIND to Administration gate in the host A with:	
	• P	IPE <sub>BA</sub> : a dynamically assigned pipe identifier for the TCP control service gate.	
	• G	SATETCP: The UUID gate identifier of the TCP control service gate (F3DBA7CC-3551-5170-	
	E	C79-8BED75TCP control application37TCP control application).	
2	Administra	tion gate sends EVT_ADM_BIND to Administration gate in the other host with a binding	
	parameter	equal to:	
	• P	IPEAB: a dynamically assigned pipe identifier for the TCP control application gate.	
	• G	SATE <sub>URN</sub> : The UUID gate identifier of the TCP control service gate (F3DBA7CC-3551-5170-	
		C79-8BED75TCP control application37TCP control application).	
	GATE <sub>TCP</sub> s	shall be present in one of the binding parameters (see VNP[XX]. If present then the test is	
	successful		

# 10.4.2.3 PTCP\_023 - Open a pipe session with the TCP control service in the TEE Host domain

Proces	dura	PTCP_023	
		F 10F_023	
	dentification		
Proced	dure	The TCP control application gate shall be able to open a pipe session to the TCP control	
object	ives	service gate of the TEE host.	
		If the test is successful then a pipe session is open between the TCP control application	
		in the other host and the TCP control service in the TEE host.	
Config	guration	CTCP_001	
referei	nce		
		Initial conditions	
The pro	ocedure PTCP	_021 shall be successfully executed:	
•	The TCP co	ntrol service identifier is present in the GATE_LIST registry of the Identity service gate.	
	Procedure sequence		
Step	Description	•	
1	Administration	n gate sends EVT_ADM_BIND to Administration gate in the other with:	
	PIPE	BA: a dynamically assigned pipe identifier for the TCP control service gate.	
		E <sub>TCP</sub> : The UUID gate identifier of the TCP control service gate (727A3D1D-B52D-50CB-	
	B20B-BCA7E9EE25CF).		
2	Administration	n gate sends EVT_ADM_BIND to Administration gate in the other host with a binding	
	parameter equal to:		
	PIPE	AB: a dynamically assigned pipe identifier for the TCP control application gate.	
	GAT	E <sub>TCP</sub> : The UUID gate identifier of the TCP control service gate (727A3D1D-B52D-50CB-	
		B-BCA7E9EE25ČF).	
	GATE <sub>TCP</sub> sha	Il be present in one of the binding parameters (see VNP[XX]. If present then the test is	
	successful.		

# 10.4.2.4 PTCP\_024 - Open a pipe session with the TCP control service in the MBM Host domain+

Procedure		PTCP_024	
identification			
Procedure		The host A shall be able to open a pipe session to the TCP control set	
object	ives	MBM host. The TCP control service identifier is 'ADCE4843-A058-50F	<sup>-</sup> 2-A98D-
		5D3C334504B0'H.	
		If the test is successful, then a pipe session is open between the TCP	control application
		in the host A and the TCP control service in the MBM host.	
	guration	CTCP_001	
refere	nce		
		Initial conditions	
The pr		_021 shall be successfully executed:	
•		ntrol service identifier is present in the GATE_LIST registry of the Ident	ity service gate of
	the MBM ho	<del></del>	
Procedure sequence			
Step	Description		Requirements
1	Administration	gate sends EVT_ADM_BIND to Administration gate in the other	
	with:		
	<ul><li>PIPE</li></ul>	BA: a dynamically assigned pipe identifier for the TCP control service	
	gate		
	<ul> <li>GAT</li> </ul>	ETCP: The UUID gate identifier of the TCP control service gate	
	(8EC	28017B-B734-533D-TCP control applicationA0-FF6D693EA85C).	
2 Administration gate sends EVT_ADM_		gate sends EVT_ADM_BIND to Administration gate in the host A	
	with a binding	parameter equal to:	
		AB: a dynamically assigned pipe identifier for the TCP control	
	appli	cation gate.	
		E <sub>TCP</sub> : The UUID gate identifier of the TCP control service gate	
		8017B-B734-533D-TCP control applicationA0-FF6D693EA85C).	
		I be present in one of the binding parameters (see VNP[XX]. If	
	present then t	he test is successful.	

## 10.4.3 Test descriptions

#### 10.4.3.1 TCP Passive Connection opening

#### 10.4.3.1.1 TCP\_311 - Request to OPEN TCP Connection

Test identification	TCP_311
Test objectives	TCP control service gate shall open TCP connection and return response successful.
Configuration	CTCP_001
reference	
	1.14.1

#### Initial conditions

The PTCP\_021 shall be successfully executed.

One of following tests shall be executed:

- PTCP\_022. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the REE host.
- PTCP\_023. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the TEE host.
- PTCP\_024. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the MBM host.

Test sequence Description Requirements Step TCP control application gate sends an aTCP-311-command-01 to TCP control service gate with: -- ASN1START aTCP-311-command-01 TCP-CONTROL-SERVICE-GATE-Commands ::= aTCP-REQUEST-CONNECTION-Service-Command : { aConnectionMode ePassiveLocal, aDestinationAddress aIP eIP-test, aPortNumber ePortNumber-test, aGateID eGateID-test, aTimeout eTimeout-passive, aNetworkParameters { aBearerType eDefaultBearer, aNetworkAccessName eNetworkAccessName-test, aUserLogin eUserLogin-test, aUserPassword eUserPassword-test 2 TCP control service gate sends an aTCP-311-response-01 response to TCP RQ1004\_014 control application gate with: RQ1004\_031 - ASN1START RQ1004 032 aTCP-311-response-01 TCP-CONTROL-SERVICE-GATE-Responses ::= aTCP-RQ1004\_036 REQUEST-CONNECTION-Service-Response : { RQ1004\_037 aTCP-Control-Service-Response eTCP-OK, RQ1004\_039 aParameter -RQ1004\_040 aConnectionID 0/\*<STORE(aConnectionID)>\*/ RQ1004\_041 RQ1004\_042 ASN1STOP RQ1004\_052

## 10.4.3.1.2 TCP\_312 - Request to OPEN TCP Connection without network parameters

Test identification	TCP_312			
Test objectives	Test objectives TCP control service gate shall be able to open a TCP connection without network			
	parameters (optional) and return response successful.			
Configuration	CTCP_001			
reference				
Initial conditions				

The PTCP\_021 shall be successfully executed.

One of following tests shall be executed:

- PTCP\_022. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the REE host.
- PTCP\_023. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the TEE host.
- PTCP\_024. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the MBM host.

control service gate in the MBM host.					
	Test sequence				
Step	Step Description				
1	TCP control application gate sends an aTCP-312-command-02 to TCP control service gate with:  ASN1START aTCP-312-command-01 TCP-CONTROL-SERVICE-GATE-Commands ::= aTCP-REQUEST-CONNECTION-Service-Command : {    aConnectionMode ePassiveLocal,    aIP eIP-test,    aPortNumber ePortNumber-test,    aGateID eGateID-test,	Requirements			
2	aTimeout eTimeout-passive } ASN1STOP  TCP control service gate sends aTCP-312-response-02 response to TCP control application gate with:	RQ1004_036 RQ1004_037			
	ASNISTART aTCP-312-response-01 TCP-CONTROL-SERVICE-GATE-Responses ::= aTCP- REQUEST-CONNECTION-Service-Response : {    aTCP-Control-Service-Response eTCP-OK,    aParameter {     aConnectionID 0/* <store(aconnectionid)>*/    } } ASNISTOP</store(aconnectionid)>				

### 10.4.3.1.3 TCP\_313 - Request to OPEN TCP Connection for WAN

Test identification	TCP_313	
Test objectives	TCP control service gate shall be able to open a TCP connection for WAN access.	
Configuration	CTCP_001	
reference		
1.26.1		

#### **Initial conditions**

The PTCP\_021 shall be successfully executed.

One of following tests shall be executed:

- PTCP\_022. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the REE host.
- PTCP\_023. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the TEE host.
- PTCP\_024. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the MBM host.

Test sequence Requirements Step Description TCP control application gate sends aTCP-313-command-01 to TCP control service gate with: -- ASN1START aTCP-313-command-01 TCP-CONTROL-SERVICE-GATE-Commands ::= aTCP-REQUEST-CONNECTION-Service-Command : { aConnectionMode ePassiveLocal, aIP eIP-test, aPortNumber ePortNumber-test, aGateID eGateID-test, aTimeout eTimeout-passive, aNetworkParameters { aBearerType eWWAN ASN1STOP 2 TCP control service gate sends aTCP-313-response-01 response to TCP control RQ1004\_034 application gate with: RQ1004\_038 - ASN1START aTCP-313-response-01 TCP-CONTROL-SERVICE-GATE-Responses ::= aTCP-REQUEST-CONNECTION-Service-Response : { aTCP-Control-Service-Response eTCP-OK, aParameter { aConnectionID 0/\*<STORE(aConnectionID)>\*/ ASN1STOP

## 10.4.3.1.4 TCP\_314 - Request to OPEN TCP Connection for LAN

Test identification	TCP_314
Test objectives	TCP control service gate shall be open a TCP connection with on a LAN.
Configuration	CTCP_001
reference	

#### **Initial conditions**

The PTCP\_021 shall be successfully executed.

One of following tests shall be executed:

- PTCP\_022. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the REE host.
- PTCP\_023. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the TEE host.
- PTCP\_024. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the MBM host.

Test sequence			
Step	Description	Requirements	
1	TCP control application gate sends an aTCP-314-command-01 to TCP control service with:  ASN1START aTCP-314-command-01 TCP-CONTROL-SERVICE-GATE-Commands ::= aTCP-REQUEST-CONNECTION-Service-Command : {     aConnectionMode ePassiveLocal,     aDestinationAddress aIP: aIPV4: eIP-test,     aPortNumber ePortNumber-test,     aGateID eGateID-test,     aTimeout eTimeout-passive,     aNetworkParameters {         aBearerType eWLAN     } } ASN1STOP		
2	TCP control service sends an aTCP-314-response-01 response to TCP control application gate with:  ASN1START aTCP-314-response-01 TCP-CONTROL-SERVICE-GATE-Responses ::= aTCP-REQUEST-CONNECTION-Service-Response : {    aTCP-Control-Service-Response eTCP-OK,    aParameter {      aConnectionID 0/* <store(aconnectionid)>*/    } }</store(aconnectionid)>	RQ1004_042 RQ1004_055	

# 10.4.3.1.5 TCP\_315 - Request to OPEN TCP Connection for LAN with a non-reachable endpoint

Test identification	TCP_315
Test objectives TCP control service gate shall not open a TCP connection with on a LAN with an inv	
	address.
Configuration	CTCP_001
reference	

#### Initial conditions

The PTCP\_021 shall be successfully executed.

One of following tests shall be executed:

- PTCP\_022. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the REE host.
- PTCP\_023. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the TEE host.
- PTCP\_024. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the MBM host.

	Test sequence	
Step	Description	Requirements
1	TCP control application gate sends an aTCP-315-command-01 to TCP control service with:	
	ASNISTART aTCP-315-command-01 TCP-CONTROL-SERVICE-GATE-Commands ::= aTCP- REQUEST-CONNECTION-Service-Command : {     aConnectionMode ePassiveLocal,     aDestinationAddress aFQDN : eIP-test-1,     aPortNumber ePortNumber-test,     aGateID eGateID-test,     aTimeout eTimeout-passive,     aNetworkParameters {         aBearerType eWLAN     } }	
2	TCP control service sends an aTCP-314-response-01 response to TCP control	RQ1004_012
	<pre>application gate with: ASN1START aTCP-315-response-01 TCP-CONTROL-SERVICE-GATE-Responses ::= aTCP- REQUEST-CONNECTION-Service-Response : {    aTCP-Control-Service-Response eTCP-E-NOK } ASN1STOP</pre>	RQ1004_042 RQ1004_053 RQ1004_054 RQ1004_055

# 10.4.3.1.6 TCP\_316 - Request to OPEN TCP Connection for LAN with a non-accessible port

Test identification	TCP_316
Test objectives TCP control service gate shall not open a TCP connection with on a LAN with an inv	
	port.
Configuration	CTCP_001
reference	

## Initial conditions

The PTCP\_021 shall be successfully executed.

One of following tests shall be executed:

- PTCP\_022. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the REE host.
- PTCP\_023. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the TEE host.
- PTCP\_024. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the MBM host.

	Test sequence			
Step	Description	Requirements		
1	TCP control application gate sends an aTCP-316-command-01 to TCP control service with:			
	ASN1START aTCP-316-command-01 TCP-CONTROL-SERVICE-GATE-Commands ::= aTCP- REQUEST-CONNECTION-Service-Command : {     aConnectionMode ePassiveLocal,     aDestinationAddress aIP eIP-test,     aPortNumber ePortNumber-test-1,     aGateID eGateID-test,     aTimeout eTimeout-passive,     aNetworkParameters {         aBearerType eWLAN     } } ASN1STOP			
2	TCP control service sends an aTCP-314-response-01 response to TCP control application gate with:  ASN1START aTCP-316-response-01 TCP-CONTROL-SERVICE-GATE-Responses ::= aTCP-REQUEST-CONNECTION-Service-Response : {    aTCP-Control-Service-Response eTCP-E-NOK } ASN1STOP	RQ1004_012 RQ1004_042 RQ1004_053 RQ1004_054 RQ1004_055		

# 10.4.3.1.7 TCP\_317 - Request to OPEN TCP Connection for LAN with multiple TCP connections

Test id	est identification TCP_316				
Test o	est objectives TCP control service gate shall be able to open multiple TCP connections with on a LAN				
Config	Configuration CTCP 001				
refere	nce				
	Initial conditions				
		Test sequence			
Step	Description		Requirements		
1	The test TCP	_311 is executed more than once.	RQ1004_020		
			RQ1004_007		

## 10.4.3.1.8 TCP\_318 - Request to OPEN TCP Connection with FQDN

Test identification	TCP_318
Test objectives	If supported then TCP control service gate shall open TCP connection and return response successful.
Configuration	CTCP_001
reference	

#### Initial conditions

The PTCP\_021 shall be successfully executed.

One of following tests shall be executed:

- PTCP\_022. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the REE host.
- PTCP\_023. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the TEE host.
- PTCP\_024. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the MBM host.

	Test sequence				
Step	Description	Requirements			
1	TCP control application gate sends an aTCP-318-command-01 to TCP control service gate with:  ASNISTART aTCP-318-command-01 TCP-CONTROL-SERVICE-GATE-Commands ::= aTCP-REQUEST-CONNECTION-Service-Command : {     aConnectionMode ePassiveLocal,     aDestinationAddress aFQDN : eIP-test-2,     aPortNumber ePortNumber-test,     aGateID eGateID-test,     aTimeout eTimeout-passive,     aNetworkParameters {         aBearerType eDefaultBearer,         aNetworkAccessName eNetworkAccessName-test,         aUserLogin eUserLogin-test,         aUserPassword eUserPassword-test     } } ASN1STOP	- Toquinomonio			
2	TCP control service gate sends an aTCP-318-response-01 response to TCP control application gate with:  ASN1START aTCP-318-response-01 TCP-CONTROL-SERVICE-GATE-Responses ::= aTCP-REQUEST-CONNECTION-Service-Response : {    aTCP-Control-Service-Response eTCP-OK,    aParameter {     aConnectionID 0/* <store(aconnectionid)>*/    } } ASN1STOP</store(aconnectionid)>	RQ1004_011			

## 10.4.3.1.9 TCP\_319 - Request to OPEN TCP Connection with IPV4Adr address type

Test identification	TCP_319
Test objectives	TCP control service gate shall open TCP connection and return response successful.
Configuration	CTCP_001
reference	

#### Initial conditions

The PTCP\_021 shall be successfully executed.

One of following tests shall be executed:

- PTCP\_022. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the REE host.
- PTCP\_023. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the TEE host.
- PTCP\_024. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the MBM host.

	Test sequence			
Step	Description	Requirements		
1	TCP control application gate sends an aTCP-319-command-01 to TCP control service gate with:  ASN1START aTCP-319-command-01 TCP-CONTROL-SERVICE-GATE-Commands ::= aTCP-REQUEST-CONNECTION-Service-Command : {     aConnectionMode ePassiveLocal,     aDestinationAddress aIP eIP-test-3,     aPortNumber ePortNumber-test,     aGateID eGateID-test,     aTimeout eTimeout-passive,     aNetworkParameters {         aBearerType eDefaultBearer,         aNetworkAccessName eNetworkAccessName-test,         aUserLogin eUserLogin-test,         aUserPassword eUserPassword-test     } } ASN1STOP			
2	<pre>TCP control service gate sends an aTCP-319-response-01 response to TCP control application gate with:     ASNISTART aTCP-319-response-01 TCP-CONTROL-SERVICE-GATE-Responses ::= aTCP- REQUEST-CONNECTION-Service-Response : {     aTCP-Control-Service-Response eTCP-OK,     aParameter {         aConnectionID 0/*<store(aconnectionid)>*/     } } ASNISTOP</store(aconnectionid)></pre>	RQ1004_014 RQ1004_031 RQ1004_032 RQ1004_036 RQ1004_037 RQ1004_039 RQ1004_040 RQ1004_041 RQ1004_041 RQ1004_052		

#### 10.4.3.1.10 TCP\_3110 - Request to OPEN TCP Connection with IPV6 address type

Test identification	TCP_3110
Test objectives	TCP control service gate shall open TCP connection with IPV6 address and return
_	response successful.
Configuration	CTCP_001
reference	

#### **Initial conditions**

The PTCP\_021 shall be successfully executed.

- One of following tests shall be executed:
  - PTCP\_022. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the REE host.
  - PTCP\_023. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the TEE host.
  - PTCP\_024. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the MBM host.

	Test sequence		
Step	Description	Requirements	
1	TCP control application gate sends an aTCP-3110-command-01 to TCP control service gate with:  ASN1START aTCP-3110-command-01 TCP-CONTROL-SERVICE-GATE-Commands ::= aTCP-REQUEST-CONNECTION-Service-Command : {     aConnectionMode ePassiveLocal,     aDestinationAddress aIP eIP-test-4,     aPortNumber ePortNumber-test,     aGateID eGateID-test,     aTimeout eTimeout-passive,     aNetworkParameters {         aBearerType eDefaultBearer,          aNetworkAccessName eNetworkAccessName-test,         aUserPassword eUserPassword-test     } }	Requirements	
	ASN1STOP		
2	TCP control service gate sends an aTCP-319-response-01 response to TCP control application gate with:  ASN1START aTCP-3110-response-01 TCP-CONTROL-SERVICE-GATE-Responses ::= aTCP-REQUEST-CONNECTION-Service-Response : {    aTCP-Control-Service-Response eTCP-OK,    aParameter {     aConnectionID 0/* <store(aconnectionid)>*/    } } ASN1STOP</store(aconnectionid)>	RQ1004_014 RQ1004_031 RQ1004_032 RQ1004_036 RQ1004_037 RQ1004_039 RQ1004_040 RQ1004_041 RQ1004_041 RQ1004_052	

#### 10.4.3.2 TCP Active Connection opening

#### 10.4.3.2.1 TCP\_321 - Request to OPEN TCP Connection

Test identification	TCP_321
Test objectives	TCP control service gate shall open TCP connection in active mode and return response
	successful.
Configuration	CTCP_001
reference	
Initial conditions	

#### Initial conditions

The PTCP\_021 shall be successfully executed. One of following tests shall be executed:

- PTCP\_022. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the REE host.
- PTCP\_023. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the TEE host.
- PTCP\_024. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the MBM host.

	Test sequence		
Step	Description	Requirements	
1	TCP control application gate an aTCP-321-command-01 to TCP control service with:  ASN1START		
	aTCP-321-command-01 TCP-CONTROL-SERVICE-GATE-Commands ::= aTCP- REQUEST-CONNECTION-Service-Command : {     aConnectionMode eActive,     aIP eIP-test,     aPortNumber ePortNumber-test,     aGateID eGateID-test,     aTimeout eTimeout-passive,     aNetworkParameters {         aBearerType eDefaultBearer,         aNetworkAccessName eNetworkAccessName-test,         aUserLogin eUserLogin-test,         aUserPassword eUserPassword-test     } } ASN1STOP		
2	TCP control service sends aTCP-321-response-01 response to TCP control application gate with:  ASNISTART aTCP-321-response-01 TCP-CONTROL-SERVICE-GATE-Responses ::= aTCP-REQUEST-CONNECTION-Service-Response : {    aTCP-Control-Service-Response eTCP-OK,    aParameter {      aConnectionID 0/* <store(aconnectionid)>*/    } } ASNISTOP</store(aconnectionid)>	RQ1004_010 RQ1004_029 RQ1004_033	

## 10.4.3.2.2 TCP\_322 - Request to OPEN TCP Connection without network parameters

Test identification	TCP_322
Test objectives	TCP control service gate shall open TCP connection without network parameters
-	(optional) and return response successful.
Configuration	CTCP_001
reference	
Initial conditions	

The PTCP\_021 shall be successfully executed.

One of following tests shall be executed:

- PTCP\_022. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- PTCP\_023. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- PTCP\_024. The pipe session shall be open between the TCP control application gate and the TCP control service gate.

control service gate.			
	Test sequence		
Step	Description	Requirements	
1	TCP control application gate sends an aTCP-322-command-02 to other host TCP control service gate with:		
	ASN1START  aTCP-322-command-01 TCP-CONTROL-SERVICE-GATE-Commands ::= aTCP- REQUEST-CONNECTION-Service-Command : {    aConnectionMode eActive,    aIP eIP-test,    aPortNumber ePortNumber-test,    aGateID eGateID-test,    aTimeout eTimeout-passive } ASN1STOP		
2	Other host TCP control service gate sends aTCP-322-response-02 response to TCP control application gate with:  - ASN1START aTCP-322-response-01 TCP-CONTROL-SERVICE-GATE-Responses ::= aTCP-REQUEST-CONNECTION-Service-Response : {    aTCP-Control-Service-Response eTCP-OK,    aParameter {      aConnectionID 0/* <store(aconnectionid)>*/    } } ASN1STOP</store(aconnectionid)>		

### 10.4.3.2.3 TCP\_323 - Request to OPEN TCP Connection for WAN

Test identification	TCP_323
Test objectives	TCP control service gate shall open TCP connection with a WAN access in active mode.
Configuration	CTCP_001
reference	
1.26.1	

#### **Initial conditions**

The PTCP\_021 shall be successfully executed.

One of following tests shall be executed:

- PTCP\_022. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the REE host.
- PTCP\_023. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the TEE host.
- PTCP\_024. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the MBM host.

Test sequence Requirements Step Description TCP control application gate sends an aTCP-323-command-01 to TCP control service with: -- ASN1START aTCP-323-command-01 TCP-CONTROL-SERVICE-GATE-Commands ::= aTCP-REQUEST-CONNECTION-Service-Command : { aConnectionMode eActive, aIP eIP-test, aPortNumber ePortNumber-test, aGateID eGateID-test, aTimeout eTimeout-passive, aNetworkParameters { aBearerType eWWAN ASN1STOP TCP control service sends an aTCP-323-response-01 response to TCP control RQ1004\_017 2 application gate with: - ASN1START aTCP-323-response-01 TCP-CONTROL-SERVICE-GATE-Responses ::= aTCP-REQUEST-CONNECTION-Service-Response : { aTCP-Control-Service-Response eTCP-OK, aParameter { aConnectionID 0/\*<STORE(aConnectionID)>\*/ ASN1STOP

## 10.4.3.2.4 TCP\_324 - Request to OPEN TCP Connection for LAN

Test identification	TCP_324
Test objectives	TCP control service gate shall open TCP connection with only with LAN access in active
	mode.
Configuration	CTCP_001
reference	

#### Initial conditions

The PTCP\_021 shall be successfully executed.

One of following tests shall be executed:

- PTCP\_022. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the REE host.
- PTCP\_023. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the TEE host.
- PTCP\_024. The pipe session shall be open between the TCP control application gate and the TCP control service gate in the MBM host.

	Test sequence		
Step	Description	Requirements	
1	TCP control application gate sends an aTCP-324-command-01 to TCP control service with:  ASN1START aTCP-324-command-01 TCP-CONTROL-SERVICE-GATE-Commands ::= aTCP-REQUEST-CONNECTION-Service-Command : {     aConnectionMode eActive,     aIP eIP-test,     aPortNumber ePortNumber-test,     aGateID eGateID-test,     aTimeout eTimeout-passive,     aNetworkParameters {         aBearerType eWLAN     } } ASN1STOP		
2	TCP control service sends an aTCP-324-response-01 response to TCP control application gate with:  ASN1START aTCP-324-response-01 TCP-CONTROL-SERVICE-GATE-Responses ::= aTCP-REQUEST-CONNECTION-Service-Response : {    aTCP-Control-Service-Response eTCP-OK,    aParameter {     aConnectionID 0/* <store(aconnectionid)>*/    } } ASN1STOP</store(aconnectionid)>	RQ1004_017	

#### 10.4.3.3 TCP Connection closing

#### 10.4.3.3.1 TCP\_331 - TCP control application requests to close the connection

Test identification	TCP_331
Test objectives	The TCP control service shall be able to close connections, which are successfully created on the request of TCP control application. The test is valid whatever the host domain.
Configuration reference	CTCP_001
1.10.1	

#### Initial conditions

#### The following test shall be executed:

- TCP\_311. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_312. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_313. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_314. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_321. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_322. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_323. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_324. The pipe session shall be open between the TCP control application gate and the TCP control service gate.

Test sequence Step Requirements Description TCP control application gate sends an aTCP-321-command-02 to TCP control service gate with: - ASN1START aTCP-331-command-01 TCP-CONTROL-SERVICE-GATE-Commands ::= aTCP-CLOSE-CONNECTION-Service-Command : { aConnectionID 0 /\*<REPLACE(aConnectionID)>\*/ 2 TCP control service gate sends an aTCP-331-response-01 response to TCP RQ1004 044 control application gate with: RQ1004\_045 -- ASN1START RQ1004\_067 aTCP-331-response-01 TCP-CONTROL-SERVICE-GATE-Responses ::= aTCP-CLOSE-CONNECTION-Service-Response : { aTCP-Control-Service-Response eTCP-OK, aParameter { aConnectionID 0/\*<COMPARE(aConnectionID,E0)>\*/ - ASN1STOP The tester shall verify that the TCP connection is closed on the remote TCP endpoint.

# 10.4.3.3.2 TCP\_332 - TCP control application requests to close the connection from the remote endpoint

Test identification	TCP_332
Test objectives	The TCP control service shall close the pipe session on the TCP data application if the
	connection is closed. The test is valid whatever the host domain.
Configuration	CTCP_001
reference	

#### **Initial conditions**

#### One of the following tests shall be executed:

- TCP\_311. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_312. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_313. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_314. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_321. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_322. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_323. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_324. The pipe session shall be open between the TCP control application gate and the TCP control service gate.

Or the TCP\_331 is successfully executed.

OI THE	_551 is successfully executed.		
	Test sequence		
Step	Description	Requirements	
1	Administration gate sends EVT_ADM_UNBIND event to the administration gate in	RQ1004_023	
	the host A with:		
	<ul> <li>PIPE<sub>XY</sub>: a dynamically assigned pipe identifier for the TCP data</li> </ul>		
	application gate.		

# 10.4.3.3.3 TCP\_333 - TCP control application requests to close pipe session on TCP data service gate

Test identification	TCP_333
Test objectives	The TCP control service shall close the pipe session on the TCP data application if the pipe session on the TCP control service gate is closed. The test is valid whatever the host domain.
Configuration reference	CTCP_001

#### Initial conditions

#### One of the following tests shall be executed:

- TCP\_311. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_312. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_313. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_314. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_321. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_322. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_323. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_324. The pipe session shall be open between the TCP control application gate and the TCP control service gate.

Or the TCP\_331 is successfully executed.

Test sequence		
Step	Description	Requirements
1	Administration gate sends EVT_ADM_UNBIND event to the administration gate in the other host with:	RQ1004_025
	<ul> <li>PIPExy: a dynamically assigned pipe identifier for the TCP control service gate.</li> </ul>	
2	Administration gate sends EVT_ADM_UNBIND event to the administration gate in the host A with:	RQ1004_023 RQ1004_066
	<ul> <li>PIPExx: a dynamically assigned pipe identifier for the TCP data application gate.</li> </ul>	

#### 10.4.3.4 TCP Status connection

#### 10.4.3.4.1 TCP\_341 - TCP control application requests the status of a connection

Test identification	TCP_341
Test objectives	The TCP control service able to request the status of a connection, which has been,
	successfully opened on the request of TCP control application.
Configuration	CTCP_001
reference	
Initial conditions	

#### Initial conditions

One of the following test shall be executed:

- TCP\_311. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_312. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_313. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_314. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_321. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_322. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_323. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_324. The pipe session shall be open between the TCP control application gate and the TCP control service gate.

Test sequence Description Requirements Step TCP control application gate sends an aTCP-341-command-01 to the TCP control service gate with: - ASN1START aTCP-341-command-01 TCP-CONTROL-SERVICE-GATE-Commands ::= aTCP-GET-STATUS-CONNECTION-Service-Command: { aConnectionID 0 /\*<REPLACE(aConnectionID)>\*/ 2 The TCP control service gate sends an aTCP-341-response-01 response to TCP RQ1004 013 control application gate with: RQ1004 047 - ASN1START aTCP-341-response-01 TCP-CONTROL-SERVICE-GATE-Responses ::= aTCP-GET-STATUS-CONNECTION-Service-Response : { aTCP-Control-Service-Response eTCP-OK, aParameter { aConnectionID 0, /\*<COMPARE(aConnectionID,EQ)>\*/ aStateOfConnection eLISTEN } ASN1STOP

### 10.4.3.4.2 TCP\_342 - TCP control application requests the status of a connection

Test identification	TCP_342	
Test objectives	The TCP control service able to response the status of a connection, which has been, successfully opened on the request of TCP control application. If the connection drops the status shall indicate this new status.	
Configuration reference	CTCP_001	
	Initial conditions	

#### Initial conditions

One of the following test shall be executed:

- TCP\_311. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_312. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_313. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_314. The pipe session shall be open between the TCP control application gate and the TCP control service gate.

The communication is closed with the remote TCP endpoint.

Test sequence			
Step	Description	Requirements	
1	TCP control application gate sends an aTCP-342-command-01 to the TCP control		
	service gate with:		
	ASN1START		
	aTCP-342-command-01 TCP-CONTROL-SERVICE-GATE-Commands ::= aTCP-GET-STATUS-CONNECTION-Service-Command: {		
	aConnectionID 0 /* <replace(aconnectionid)>*/</replace(aconnectionid)>		
	}		
	ASN1STOP		
2	Other host TCP control service gate sends an aTCP-342-response-01 response to	RQ1004_015	
	TCP control application gate with:	RQ1004_019	
	ASN1START	RQ1004 024	
	aTCP-342-response-01 TCP-CONTROL-SERVICE-GATE-Responses ::= aTCP-	_	
	GET-STATUS-CONNECTION-Service-Response : {		
	aTCP-Control-Service-Response eTCP-OK,		
	aParameter {		
	aConnectionID 0, /* <compare(aconnectionid,eq)>*/</compare(aconnectionid,eq)>		
	aStateOfConnection eCLOSED		
	}		
	}		
	ASN1STOP		

#### 10.4.3.5 TCP data exchange

#### 10.4.3.5.1 TCP\_351 - data stream exchange

Test identification		TCP_351	
Test objectives		To data transfer by TCP control application, TCP control application shall notify to other	
		host TCP control service gate by an event.	
Configuration		CTCP_001	
refere	nce		
		Initial conditions	
The fo	llowing test sha	all be executed at least twice:	
•	TCP_311. T	he pipe session shall be open between the TCP control application ga	ite and the TCP
	control servi	ice gate.	
		Test sequence	
Step	Description		Requirements
1	Administration	n gate sends EVT_ADM_BIND to Administration gate with:	RQ1004_018
	PIPE	BA: a dynamically assigned pipe identifier for the TCP data service	RQ1004_066
	gate		
	<ul> <li>GAT</li> </ul>	ETCP_DATA: The UUID gate identifier of the TCP data service gate as	
	retrie	eve by the TCP-REQUEST-CONNECTION-Service-Command.	
2	Administration	n gate sends EVT_ADM_BIND to Administration gate with a binding	
	parameter eq	ual to:	
	PIPE	EAB: a dynamically assigned pipe identifier for the TCP data	
	appl	ication gate.	
		E <sub>TCP_DATA</sub> : The UUID gate identifier of the TCP data service gate as	
		eve by the TCP-REQUEST-CONNECTION-Service-Command.	
		Il be present in one of the binding parameters (see VNP[XX]. If	
		the test is successful.	
3		er, Other host TCP control application gate sends data.	RQ1004_016
		related to the credit-based data flow control and the data	RQ1004_021
		ment related to PIPE <sub>AB</sub> shall be observed as defined in clause D.1 in	RQ1004_022
	ETSI TS 103	666-1 [1].	RQ1004_070

#### 10.4.3.6 TCP connection accept connection

#### 10.4.3.6.1 TCP\_361 - TCP control application accepts incoming connection

Test identification	TCP_361
Test objectives	The TCP control service (active mode) shall be able to accept an incoming connection.
	The test is valid whatever the host domain.
Configuration	CTCP_001
reference	
Initial conditions	

- TCP\_311. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_312. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_313. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_314. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_321. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_322. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_323. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_324. The pipe session shall be open between the TCP control application gate and the TCP control service gate.

	Test sequence	
Step	Description	Requirements
1	TCP control application gate sends an aTCP-361-command-02 to TCP control service gate with:	
	ASNISTART aTCP-361-command-01 TCP-CONTROL-APPLICATION-GATE-Commands ::= aTCP-ACCEPT-CONNECTION-Application-Command : {    aConnectionID 0, /* <replace(aconnectionid)>*/     aSourcePortNumber 1 } ASNISTOP</replace(aconnectionid)>	
2	TCP control service gate sends an aTCP-361-response-01 response to TCP control application gate with:  ASN1START aTCP-361-response-01 TCP-CONTROL-APPLICATION-GATE-Responses ::= aTCP-ACCEPT-CONNECTION-Application-Response: {   aTCP-Control-Application-Response eTCP-OK } ASN1STOP	RQ1004_050 RQ1004_051 RQ1004_052 RQ1004_054 RQ1004_055

#### 10.4.3.7 TCP connection event

#### 10.4.3.7.1 TCP\_371 - TCP control application events - eREDIRECTION

Test identification	TCP_371
Test objectives	The TCP control service shall notify the TCP control application gate when the TCP adapter has detected that an error occurred.  The event occurs when there is a redirection.  The test is valid whatever the host domain.
Configuration reference	CTCP_001
Initial conditions	

- TCP\_311. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_312. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_313. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_314. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_321. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_322. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_323. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_324. The pipe session shall be open between the TCP control application gate and the TCP control service gate.

lest sequence		
Description	Requirements	
TCP control service gate sends an aTCP-361-event-01 to TCP control application gate with:	RQ1004_057 RQ1004_059	
ASN1START		
aTCP-371-event-01 TCP-CONTROL-APPLICATION-GATE-Events ::= aEVT-TCP-		
ERROR-Application-Event : {		
aConnectionID 0, /* <replace(aconnectionid)>*/</replace(aconnectionid)>		
aErrorCode eREDIRECTION,		
aErrorInfo '0000'H		
}		
ASN1STOP		
	TCP control service gate sends an aTCP-361-event-01 to TCP control application gate with:  ASN1START aTCP-371-event-01 TCP-CONTROL-APPLICATION-GATE-Events ::= aEVT-TCP-ERROR-Application-Event : {    aConnectionID 0, /* <replace(aconnectionid)>*/    aErrorCode eREDIRECTION,    aErrorInfo '0000'H }</replace(aconnectionid)>	

#### 10.4.3.7.2 TCP\_372 - TCP control application events - eUNREACHABLE

Test identification	TCP_372
<b>Test objectives</b> The TCP control service shall notify the TCP control application gate when the adapter has detected that an error occurred.	
	The event occurs when there is the remote TCP endpoint is not reachable.  The test is valid whatever the host domain.
Configuration reference	CTCP_001
Initial conditions	

#### Initial conditions

- TCP\_311. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_312. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_313. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_314. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_321. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_322. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_323. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_324. The pipe session shall be open between the TCP control application gate and the TCP control service gate.

l'est sequence		
Step	Description	Requirements
1	TCP control service gate sends an aTCP-361-event-01 to TCP control application gate with:	RQ1004_056 RQ1004_058
i.	ASN1START	
	aTCP-372-event-01 TCP-CONTROL-APPLICATION-GATE-Events ::= aEVT-TCP-	
	ERROR-Application-Event : {	
	aConnectionID 0, /* <replace(aconnectionid)>*/</replace(aconnectionid)>	
	aErrorCode eUNREACHABLE,	
	aErrorInfo '0000'H	
	]}	
1	ASN1STOP	

#### TCP\_373 - TCP control application events - eIP-HEADER-WRONG 10.4.3.7.3

Test identification	TCP_373
Test objectives	The TCP control service shall notify the TCP control application gate when the TCP adapter has detected that an error occurred.  The event occurs when there is the TCP adapter has detected a wrong IP header.  The test is valid whatever the host domain.
Configuration CTCP_001 reference	
Initial conditions	

#### The following test shall be executed:

TCP\_311. The pipe session shall be open between the TCP control application gate and the TCP

- control service gate.
- TCP\_312. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_313. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_314. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_321. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_322. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_323. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_324. The pipe session shall be open between the TCP control application gate and the TCP control service gate.

	Test sequence			
Step	Description	Requirements		
1	TCP control service gate sends an aTCP-373-event-01 to TCP control application	RQ1004_060		
	gate with:			
	ASN1START			
	aTCP-373-event-01 TCP-CONTROL-APPLICATION-GATE-Events ::= aEVT-TCP-			
	ERROR-Application-Event : {			
	aConnectionID 0, /* <replace(aconnectionid)>*/</replace(aconnectionid)>			
	aErrorCode eIP-HEADER-WRONG,			
	aErrorInfo '0000'H			
l	}			
İ	ASN1STOP			

#### 10.4.3.7.4 TCP\_374 - TCP control application events - eTIMEOUT

Test identification	TCP_374
Test objectives	The TCP control service shall notify the TCP control application gate when the TCP adapter has detected that an error occurred.  The event occurs when there is the port of the remote TCP endpoint is not accessible. The test is valid whatever the host domain.
Configuration CTCP_001 reference Initial conditions	

- TCP\_311. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_312. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_313. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_314. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_321. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_322. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_323. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_324. The pipe session shall be open between the TCP control application gate and the TCP control service gate.

lest sequence		
Step	Description	Requirements
1	TCP control service gate sends an aTCP-374-event-01 to TCP control application gate with:	RQ1004_073 RQ1004_057
	ASN1START  aTCP-374-event-01 TCP-CONTROL-APPLICATION-GATE-Events ::= aEVT-TCP- ERROR-Application-Event : {    aConnectionID 0, /* <replace(aconnectionid)>*/    aErrorCode eTIMEOUT,</replace(aconnectionid)>	
	aErrorinfo '0000'H  } ASN1STOP	

#### 10.4.3.7.5 TCP\_375 - TCP control application events - eLINK-DROPPED

Test identification	TCP_375	
Test objectives	The TCP control service shall notify the TCP control application gate when the TCP	
	adapter has detected that an error occurred.	
	The event occurs when there is the port of the remote TCP communication has dropped.	
	The test is valid whatever the host domain.	
Configuration	CTCP_001	
reference		
Initial conditions		

#### Initial conditions

- TCP\_311. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_312. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_313. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_314. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_321. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_322. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_323. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_324. The pipe session shall be open between the TCP control application gate and the TCP control service gate.

l'est sequence		
Step	Description	Requirements
1	TCP control service gate sends an aTCP-375-event-01 to TCP control application gate with:	RQ1004_065
ł	ASN1START	
	aTCP-375-event-01 TCP-CONTROL-APPLICATION-GATE-Events ::= aEVT-TCP-	
	<pre>ERROR-Application-Event : {</pre>	
	aConnectionID 0, /* <replace(aconnectionid)>*/</replace(aconnectionid)>	
	aErrorCode eLINK-DROPPED,	
	aErrorInfo '0000'H	
	}	
İ	ASN1STOP	

#### 10.4.3.7.6 TCP\_376 - TCP control application events - eACCESS-TECHNOLOGY-ERROR

Test identification	TCP_376	
Test objectives	The TCP control service shall notify the TCP control application gate when the TCP adapter has detected that an error occurred.  The event occurs when there is the port of the remote TCP communication has dropped. The test is valid whatever the host domain.	
Configuration cTCP_001 reference Initial conditions		

- TCP\_311. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_312. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_313. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_314. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_321. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_322. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_323. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_324. The pipe session shall be open between the TCP control application gate and the TCP control service gate.

lest sequence			
Step	Description	Requirements	
1	TCP control service gate sends an aTCP-376-event-01 to TCP control application	RQ1004_074	
	gate with:		
	ASN1START		
	aTCP-376-event-01 TCP-CONTROL-APPLICATION-GATE-Events ::= aEVT-TCP-		
	ERROR-Application-Event : {		
	aConnectionID 0, /* <replace(aconnectionid)>*/</replace(aconnectionid)>		
	aErrorCode eACCESS-TECHNOLOGY-ERROR,		
	aErrorInfo '0000'H		
	}		
1	A CN1 CTOD		

#### 10.4.3.7.7 TCP\_377 - TCP control application events - eTERMINAL-BUSY

Test identification	TCP_377	
Test objectives	The TCP control service shall notify the TCP control application gate when the TCP adapter has detected that an error occurred.  The event occurs when there is the port of the remote TCP communication has dropped. The test is valid whatever the host domain.	
Configuration CTCP_001 reference Initial conditions		

- TCP\_311. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_312. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_313. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_314. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_321. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_322. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_323. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_324. The pipe session shall be open between the TCP control application gate and the TCP control service gate.

lest sequence		
Step	Description	Requirements
1	TCP control service gate sends an aTCP-377-event-01 to TCP control application gate with:	RQ1004_061
	ASN1START	
	aTCP-377-event-01 TCP-CONTROL-APPLICATION-GATE-Events ::= aEVT-TCP-	
	<pre>ERROR-Application-Event : {</pre>	
	aConnectionID 0, /* <replace(aconnectionid)>*/</replace(aconnectionid)>	
	aErrorCode eTERMINAL-BUSY,	
	aErrorInfo '0000'H	
	]}	
	ASN1STOP	

#### TCP\_378 - TCP control application events - eNETWORK-BUSY 10.4.3.7.8

Test identification	TCP_378	
Test objectives The TCP control service shall notify the TCP control application gate when the TCP		
	adapter has detected that an error occurred.	
	The event occurs when there is the port of the remote TCP communication has dropped.	
	The test is valid whatever the host domain.	
Configuration	CTCP_001	
reference		
Initial conditions		

- TCP\_311. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_312. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_313. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_314. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_321. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_322. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_323. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_324. The pipe session shall be open between the TCP control application gate and the TCP control service gate.

l'est sequence		
Step	Description	Requirements
1	TCP control service gate sends an aTCP-375-event-01 to TCP control application gate with:	RQ1004_062
	ASN1START	
	aTCP-378-event-01 TCP-CONTROL-APPLICATION-GATE-Events ::= aEVT-TCP-	
	ERROR-Application-Event : {	
	aConnectionID 0, /* <replace(aconnectionid)>*/</replace(aconnectionid)>	
	aErrorCode eNETWORK-BUSY,	
	aErrorInfo '0000'H	
	]	
	ASN1STOP	

# 10.4.3.7.9 TCP\_379 - TCP control application events - eCALL-CONTROL-INTERACTION-ERROR

Test identification	TCP_379
<b>Test objectives</b> The TCP control service shall notify the TCP control application gate when the T	
	adapter has detected that an error occurred.
	The event occurs when there is the port of the remote TCP communication has dropped.
	The test is valid whatever the host domain.
Configuration	CTCP_001
reference	

#### Initial conditions

#### The following test shall be executed:

- TCP\_311. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_312. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_313. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_314. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_321. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_322. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_323. The pipe session shall be open between the TCP control application gate and the TCP control service gate.
- TCP\_324. The pipe session shall be open between the TCP control application gate and the TCP control service gate.

lest sequence		
Step	Description	Requirements
1	TCP control service gate sends an aTCP-375-event-01 to TCP control application gate with:	RQ1004_063
	ASN1START	
	aTCP-379-event-01 TCP-CONTROL-APPLICATION-GATE-Events ::= aEVT-TCP-	
	ERROR-Application-Event : {	
	aConnectionID 0, /* <replace(aconnectionid)>*/</replace(aconnectionid)>	
	aErrorCode eCALL-CONTROL-INTERACTION-ERROR,	
	aErrorInfo '0000'H	
	}	
	ASN1STOP	

#### 10.4.3.7.10 TCP\_3710 - TCP control application events - eDNS-RESOLUTION-ERROR

Test identification		TCP_3710			
Test objectives		The TCP control service shall notify the TCP control application gate v	when the TCP		
	•	adapter has detected that an error occurred.			
		The event occurs when there is the port of the remote TCP communic	eation has dropped		
		The test is valid whatever the host domain.	ation had dropped.		
Confi					
	guration	CTCP_001			
refere	nce				
		Initial conditions			
The fo	llowing test sha	all be executed:			
TCP_315. The pipe session shall be open between the TCP control application gate and the TCP.			te and the TCP		
	<del>-</del>	1, , , , , , , , , , , , , , , , , , ,			
	control service gate.				
_	T	Test sequence	T= -		
Step	Description		Requirements		
1	TCP control s	ervice gate sends an aTCP-375-event-01 to TCP control application	RQ1004_064		
	gate with:				
	ASN1STAR	Γ			
aTCP-3710-event-01 TCP-CONTROL-APPLICATION-GATE-Events ::= aEVT-TCP-					
ERROR-Application-Event : {					
aConnectionID 0, /* <replace(aconnectionid)>*/</replace(aconnectionid)>					
aErrorCode eDNS-RESOLUTION-ERROR,					
	aErrorInfo '0000'H				
	}				
	ASN1STOP				

#### 10.4.3.8 ASN.1 stop

-- ASN1START END -- ASN1STOP

#### 10.4.3.9 Requirements not testable, implicitly verified or verified elsewhere

#### 10.4.3.9.1 Requirements not tested

The following requirements identified in clause 5.6.4 are either generated from descriptive text or not testable in the defined test environment. A verification of the listed requirements is not possible:

RQ1004\_043, RQ1004\_008

#### 10.4.3.9.2 Implicit requirements

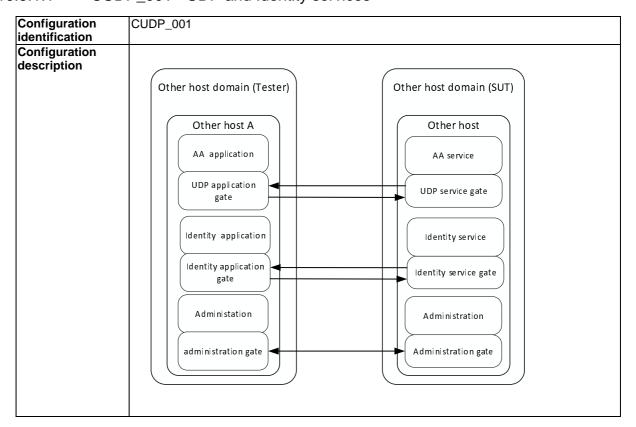
The following requirements identified in clause 5.6.4 are generated from descriptive text. An explicit verification is not possible but with correct execution of the related function the requirements can be handled as implicitly verified:

RQ1004_001	RQ1004_002	RQ1004_003	RQ1004_004	RQ1004_005
RQ1004_006	RQ1004_009	RQ1004_024	RQ1004_026	RQ1004_027
RQ1004_030	RQ1004_035	RQ1004_036	RQ1004_048	RQ1004_049
RQ1004_050	RQ1004_068	RQ1004_069	RQ1004_070	RQ1004_071
RQ1004_072	RQ1004_028	RQ1004_046	RQ1004_071	RQ1004_072

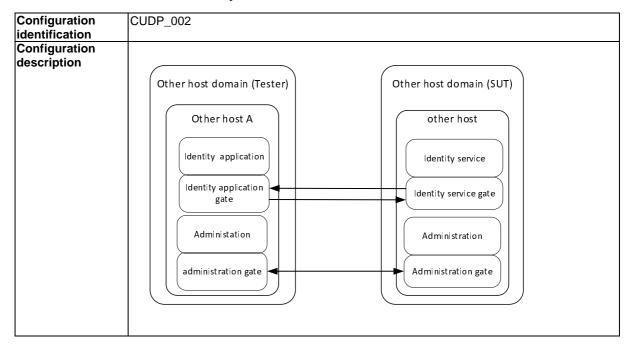
## 10.5 User Datagram Protocol support

#### 10.5.1 Configurations

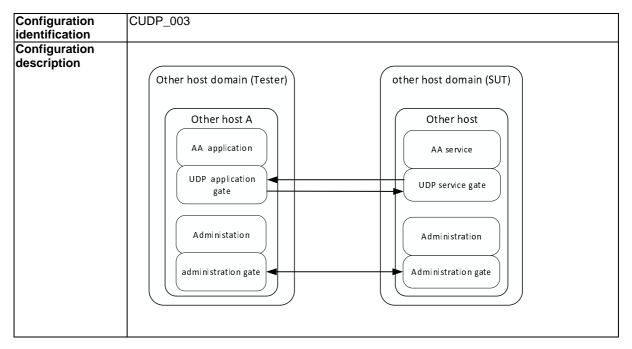
#### 10.5.1.1 CUDP\_001 - UDP and Identity services



#### 10.5.1.2 CUDP\_002 - Identity service



#### 10.5.1.3 CUDP\_003 - Generic UDP service



#### 10.5.1.4 ASN.1 definitions

The following definitions are used for the procedures and the test descriptions.

```
-- ASN1START

SSPUDPconfigurations { itu-t (0) identified-organization (4) etsi (0) smart-secure-platform (3666) part1 (1) test (2) udp (7)}

DEFINITIONS

AUTOMATIC TAGS

EXTENSIBILITY IMPLIED ::=

BEGIN

EXPORTS ALL;

/* Imports */
```

```
IMPORTS
    UUID,
    Version,
    VersionType,
UDP-SERVICE-GATE-Commands,
UDP-SERVICE-GATE-Responses,
UDP-SERVICE-GATE-Events,
UDP-APPLICATION-GATE-Events
FROM SSPDefinitions;
eUDPVersion VersionType ::='0100' --Version 01.00
-- ASN1STOP
```

#### 10.5.2 Procedures

## 10.5.2.1 PUDP\_0021 - Open a pipe session with the Identity gate

Procedure Id	entification	PUDP_0021
Procedure of	ojectives	The tester host shall be able to open a pipe session to the identity service gate of
		the other host in the SUT. From the GATE_LIST registry, the UUID of the UDP
		service shall be listed.
		If the procedure is successful then a pipe session is open between the identity
		application and the identity service in the other hosts.
Configuration	n reference	CUDP_002
		Initial conditions
The tester run	s the UDP app	olication gate and the SUT runs the UDP service gate.
		Procedure sequence
Step	Description	
1	Administration	n gate sends EVT_ADM_BIND to Administration gate in the SSP with:
	<ul><li>PIPE</li></ul>	xy: a dynamically assigned pipe identifier for the identity service gate.
	• GAT	EIDENTITY: The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-
	FA1	BA497F917).
2	Administration	n gate sends EVT_ADM_BIND to Administration gate in the other host with:
	<ul><li>PIPE</li></ul>	YX: a dynamically assigned pipe identifier for the identity application gate.
	• GAT	EIDENTITY: The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-
		BA497F917).
3	Identity application gate sends ANY_GET_PARAMETER command (pipe PIPExx) to the identity service gate in the SSP host with the register '04'H.	
4		e gate sends ANY_GET_PARAMETER response (pipe PIPE <sub>YX</sub> ) to the identity
	application ga	ite in the other host.
	The UDP serv	rice identifier shall be present. The test is successful if the previous requirement is
satisfied.		
5	Administration	n gate sends EVT_ADM_UNBIND event to the administration gate in the SSP host
	with:	
	PIPE	xy: a dynamically assigned pipe identifier for the identity service gate.
		sion between the Identity application gate and the Identity service gate is closed.
	This step is re	equired to clean up the context of the tests but it is not essential for the test
objective.		

# 10.5.2.2 PUDP\_0022 - Open a pipe session with the UDP service in the REE Host domain

Procee	dure fication	PUDP_0022		
Proce	dure	The other host shall be able to open a pipe session to the UDP service gate of the REE		
object	ives	host.		
		If the procedure is successful, then a pipe session is open between the UDP application		
		in the other host and the UDP service in the SSP host.		
Config	guration	CUDP_001		
refere	nce			
		Initial conditions		
The pr	ocedure PUD	P_021 shall be successfully executed:		
The UDP service identifier is present in the GATE_LIST registry of the Identity gate.		ervice identifier is present in the GATE_LIST registry of the Identity gate.		
		Procedure sequence		
Step	Description	·		
1	Administration	n gate sends EVT_ADM_BIND to Administration gate in the SSP with:		
	PIP	E <sub>BA</sub> : a dynamically assigned pipe identifier for the UDP service gate.		
	• GA	TEUDP: The UUID gate identifier of the identity gate (34E27B41-3B9A-59A9-9BA4-		
		01292DAFEA).		
2	Administration	n gate sends EVT_ADM_BIND to Administration gate in the other host with a binding		
	parameter e	qual to:		
	PIP	E <sub>AB</sub> : a dynamically assigned pipe identifier for the identity application gate.		
	• GA	TE <sub>URN</sub> : The UUID gate identifier of the identity gate (34E27B41-3B9A-59A9-9BA4-		
		01292DAFEA).		
	GATEUDP sh	all be present in one of the binding parameters (see VNP[XX]. If present then the test is		
	successful.			

# 10.5.2.3 PUDP\_0023 - Open a pipe session with the UDP service in the TEE Host domain

_					
Procedure		PUDP_0023			
identif	dentification				
Proce	dure	The other host shall be able to open a pipe session to the UDP service gate of the TEE			
object	ives	host. The UDP service identifier is '0091E79A-9A10-53D9-88AF-187DF566713B'H			
,		If the procedure is successful then a pipe session is open between the UDP application in			
		the other host and the UDP service in the SSP host.			
Confid	ation				
_	guration	CUDP_001			
refere	nce				
		Initial conditions			
The procedure PUDP_021 shall be successfully executed:					
•	The UDP se	rvice identifier is present in the GATE_LIST registry of the Identity gate.			
		Procedure sequence			
Step	Description	·			
1		n gate sends EVT_ADM_BIND to Administration gate in the SSP with:			
		EBA: a dynamically assigned pipe identifier for the udp service gate.			
		EUDP: The UUID gate identifier of the identity gate (0091E79A-9A10-53D9-88AF-			
		DF566713B).			
2	Administration	n gate sends EVT_ADM_BIND to Administration gate in the other host with a binding			
	parameter eq	ual to:			
	PIPE	EAB: a dynamically assigned pipe identifier for the identity application gate.			
		EUDP: The UUID gate identifier of the identity gate (0091E79A-9A10-53D9-88AF-			
		DF566713B).			
	GATEUDP shall be present in one of the binding parameters (see VNP[XX]). If present, then the				
	procedure is successful.				

# 10.5.2.4 PUDP\_0024 - Open a pipe session with the UDP service in the MBM Host domain

Proced	dure ication	PUDP_0024
Proced object	ives	The other host shall be able to open a pipe session to the UDP service gate of the MBM host. The UDP service identifier is 'ADCE4843-A058-50F2-A98D-5D3C334504B0'H If the procedure is successful then a pipe session is open between the UDP application in the other host and the UDP service in the SSP host.
Config referer	juration nce	CUDP_001
		Initial conditions
The pro	ocedure PUDF	P_021 shall be successfully executed:
•	The UDP se	ervice identifier is present in the GATE_LIST registry of the Identity gate.
		Procedure sequence
Step	Description	
1		n gate sends EVT_ADM_BIND to Administration gate in the SSP with:
	PIPI	EBA: a dynamically assigned pipe identifier for the UDP service gate.
		EUDP: The UUID gate identifier of the identity gate (ADCE4843-A058-50F2-A98D-C334504B0).
2	Administratio	n gate sends EVT_ADM_BIND to Administration gate in the other host with a binding
	parameter ed	
	PIPI	EAB: a dynamically assigned pipe identifier for the identity application gate.
		E <sub>UDP</sub> : The UUID gate identifier of the identity gate (ADCE4843-A058-50F2-A98D-C334504B0).
	GATEUDP sha	Ill be present in one of the binding parameters (see VNP[XX]). If present then the successful.

#### 10.5.3 Test descriptions

#### 10.5.3.1 UDP-REQUEST-SOCKET-Command

#### 10.5.3.1.1 UDP 0031 - Request to OPEN UDP Socket

Test identification	UDP_0031	
Test objectives	UDP Service gate shall open UDP socket and return response successful.	
Configuration	CUDP_001	
reference		
Initial conditions		

#### Initial conditions

PUDP\_0021 shall be successfully executed.

One of following procedures shall be executed:

- PUDP\_0022. The pipe session shall be open between the UDP application gate and the UDP service gate.
- PUDP \_0023. The pipe session shall be open between the UDP application gate and the UDP service gate.
- PUDP \_0024. The pipe session shall be open between the UDP application gate and the UDP service gate.

Test sequence Requirements Step Description AA gate sends an aUDP -0031-command-01 to UDP gate with: aUDP-0031-command-01 UDP-SERVICE-GATE-Commands::= aUDP-REQUEST-SOCKET-Command : { aPortNumber 1, aNetworkParameters { aBearerType eDefaultBearer, aNetworkAccessName '00'H, aUserLogin '00'H, aUserPassword '00'H aLocalOnly FALSE - ASN1STOP Set aLocalOnly FALSE in the command. 2 UDP gate sends aUDP-0031-response-01 response to AA gate with: RQ1005\_016 RQ1005\_010 aUDP-0031-response-01 UDP-SERVICE-GATE-Responses ::= aUDP-REQUEST-RQ1005\_012 SOCKET-Response : { aUDP-Service-Response eUDP-OK, aParameter { aSocketID 100 /\*<STORE(aSocketID)>\*/ ASN1STOP

#### 10.5.3.1.2 UDP\_0032 - Request to OPEN UDP Socket while port no is missing

iissing
in command and
the UDP service
d the UDP service
d the UDP service
Requirements

aLocalOnly FALSE

-- ASN1STOP

RQ1005\_016 RQ1005\_010 RQ1005\_011

Obligate with

-- ASN1START

aUDP-0032-response-01 UDP-SERVICE-GATE-Responses ::= aUDP-REQUEST-SOCKET-Response : {
 aUDP-Service-Response eUDP-OK,
 aParameter {
 aSocketID 100 /\*<STORE(aSocketID)>\*/
 }
}
-- ASN1STOP

#### 10.5.3.1.3 UDP\_0033 - Request to OPEN UDP Socket with entities present in terminal

Test identification	UDP_0033	
Test objectives	UDP Service gate shall open UDP socket with only with entities present in terminal.	
Configuration	CUDP_001	
reference		
Initial conditions		

PUDP\_0021 shall be successfully executed.

One of following tests shall be executed:

- PUDP\_0022. The pipe session shall be open between the UDP application gate and the UDP service
- PUDP \_0023. The pipe session shall be open between the UDP application gate and the UDP service
- PUDP \_0024. The pipe session shall be open between the UDP application gate and the UDP service gate.

	Test sequence	
Step	Description	Requirements
1	AA gate sends an aUDP -0033-command-01 to UDP gate with: ASN1START aUDP-0031-command-01 UDP-SERVICE-GATE-Commands::= aUDP-REQUEST-SOCKET-Command : {	
	aPortNumber 1, aNetworkParameters {     aBearerType eDefaultBearer,     aNetworkAccessName '00'H,     aUserLogin '00'H,     aUserPassword '00'H     },     aLocalOnly TRUE } ASN1STOP	
	Set aLocalOnly TRUE in the command.	
2	UDP gate sends aUDP-0033-response-01 response to AA gate with:  ASN1START aUDP-0031-response-01 UDP-SERVICE-GATE-Responses ::= aUDP-REQUEST-SOCKET-Response : {     aUDP-Service-Response eUDP-OK,     aParameter {     aSocketID 100 /* <store(asocketid)>*/     } } ASN1STOP</store(asocketid)>	RQ1005_016 RQ1005_015
3	At data transfer, Other host UDP application gate sends aUDP-0033-Event-01 to other host UDP service gate with:  ASN1START  aUDP-0033-Event-01 UDP-SERVICE-GATE-Events ::= aEVT-UDP-DATAGRAM-OUT-Service-Event : {    aSocketID 100, /* <replace(asocketid)> */    aDestinationAddress aIP : aIPV4 : 'COA80000'H,    aDestinationPortNumber 1,    aData '11223344556677889900'H } ASN1STOP</replace(asocketid)>	

#### 10.5.3.2 UDP-CLOSE-SOCKET-Command

#### 10.5.3.2.1 UDP\_0041 - UDP application requests to close the socket

Test identification		UDP_0041	
Test o	bjectives	The UDP service able to close sockets, which are successfully creat	ed on the request of
	-	UDP application.	·
Config	guration	CUDP_001	
refere	nce		
		Initial conditions	
The fo	llowing test sha	all be executed:	
•	-	The pipe session shall be open between the UDP application gate an	d the UDP service
	gate.		
		Test sequence	
Step	Description		Requirements
1	AA Applicatio	n UDP gate sends an aUDP-0041-command-02 to other host UDP	
	service gate v	vith:	
	ASN1STAR	Γ	
		ommand-01 UDP-SERVICE-GATE-Commands ::= aUDP-CLOSE-	
	SOCKET-Comma		
	aSocketID	100 /* <replace(asocketid)>*/</replace(asocketid)>	
	}		
	ASN1STOP	20	DO 1005 010
2		OP service gate sends a udp-0041-response-02 response to SSP	RQ1005_010
	application UI	5	RQ1005_018
	ASN1STAR	_	RQ1005_016
	SOCKET-Respondence	esponse-01 UDP-SERVICE-GATE-Responses ::= aUDP-CLOSE-	
		ice-Response eUDP-OK,	
	aParamete:		
		ID 100 /* <compare(asocketid,eo)>*/</compare(asocketid,eo)>	
	aboonee	I I I I I I I I I I I I I I I I I I I	
	}		
	}		
	ASN1STOP		

#### 10.5.3.3 UDP-EVT-UDP-DATAGRAM-OUT-Service-Event

#### 10.5.3.3.1 UDP\_0051 - EVT-UDP-DATAGRAM-OUT-Service-Event trigger

Test identification		UDP_0051		
Test objectives		To data transfer by UDP application, UDP Application shall notify to other host UDP		
-		service gate by an event.		
Config	guration	CUDP_001		
refere	nce			
		Initial conditions		
The fo	llowing test sha	all be executed:		
•	UDP_0031.	The pipe session shall be open between the UDP application gate and	d the UDP service	
	gate.			
		Test sequence		
Step	Description		Requirements	
1	At data transfe	er, Other host UDP application gate sends aUDP-0051-Event-01 to	RQ1005_022	
	other host UD	P service gate with:	RQ1005_023	
	ASN1START	Γ		
		vent-01 UDP-SERVICE-GATE-Events ::= aEVT-UDP-DATAGRAM-		
	OUT-Service			
aSocketID 100, /* <replace(asocketid)> */ aDestinationAddress aIP : aIPV4 : 'A8C00000'H,</replace(asocketid)>				
		ionPortNumber 1,		
		223344556677889900'H		
	}			
	ASN1STOP			

# 10.5.3.3.2 UDP\_0052 - EVT-UDP-DATAGRAM-OUT-Service-Event trigger with FQDN values

Test id	lentification	UDP_0052	·	
		To data transfer by UDP application, UDP Application shall notify to other host UDP service gate by an event with FQDN values and UDP adapter shall perform DNS resolution if supported.		
Configuration reference		CUDP_001		
		Initial conditions	·	
The foll	lowing test sha	all be executed:		
•	-	The pipe session shall be open between the UDP application gate an	d the UDP service	
	gate.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		Test sequence		
Step	Description		Requirements	
1		er, Other host UDP application gate sends aUDP-0052-Event-01 to P service gate with:	RQ1005_022 RQ1005_024	
	ASN1STAR	<u> </u>		
	OUT-Service- aSocketID aDestinat: {"6D796D6169 aDestinat:	100, /* <replace(asocketid)> */ ionAddress aFQDN : 06C2E736F6D65636F6C6C65",{0,0,0,10},"67652E656475"}, ionPortNumber 1, 223344556677889900'H</replace(asocketid)>		

#### 10.5.3.3.3 UDP\_0063 - EVT-UDP-DATAGRAM-OUT-Service-Event trigger on pipe close

<b>-</b>	1	LIDD 0050			
	dentification	UDP_0053			
Test objectives		All sockets are closed and UDP Application shall notify to other host UDP service gate by			
		an event for data transfer.			
Config	Configuration CUDP_001				
refere	nce				
		Initial conditions			
The fo	llowing test sha	all be executed:			
•		All open pipe session between UDP application and UDP service gate	e shall close.		
	_	Test sequence			
Step	Description	·	Requirements		
1	At data trans	fer, Other host UDP application gate sends aUDP-0063-Event-01 to DP service gate with:	RQ1005_008		
	ASN1STAR	T			
	OUT-Service aSocketID aDestinat aDestinat	100, /* <replace(asocketid)> */ ionAddress aIP : aIPV4 : 'A8C00000'H, ionPortNumber 1, 223344556677889900'H</replace(asocketid)>			
2		DP service gate sends aUDP-0063-Event-01 to other host UDP ate with:			
	Application aSocketID aErrorCod	100, /* <replace(asocketid)> */ e eUNREACHABLE, o '0007'H</replace(asocketid)>			

#### 10.5.3.4 UDP-EVT-UDP-DATAGRAM-IN-Application-Event

#### 10.5.3.4.1 UDP\_0061 - EVT-UDP-DATAGRAM-IN-Application-Event trigger

dentification	UDP_0061		
bjectives	To data transfer by UDP adapter, UDP service gate shall notify to other host UDP		
	application gate by an event.		
guration	CUDP_001		
nce			
	Initial conditions		
llowing test sha	all be executed:		
UDP_0031.	The pipe session shall be open between the UDP application gate and	I the UDP service	
gate.			
	Test sequence		
Description		Requirements	
	· ·	RQ1005_025	
	5	RQ1005_026	
ADIVIDIAN	1		
aUDP-0061-E	Event-01 UDP-APPLICATION-GATE-Events ::= aEVT-UDP-		
DATAGRAM-IN	-Application-Event : {		
asocketID	100, /* <compare(asocketid,eq)>*/</compare(asocketid,eq)>		
	·		
	·		
aData '00	112233443300//8899'H		
ASN1STOP			
	Description At data transf host UDP-0061-F DATAGRAM-IN asocketID aSourceIP aSourcePo aData '00	To data transfer by UDP adapter, UDP service gate shall notify to oth application gate by an event.  CUDP_001  Initial conditions  Illowing test shall be executed:  UDP_0031. The pipe session shall be open between the UDP application gate and gate.  Test sequence  Description  At data transfer, Other host UDP service gate sends aUDP-0061-Event-01 to other host UDP application gate with:  ASN1START  aUDP-0061-Event-01 UDP-APPLICATION-GATE-Events ::= aEVT-UDP-DATAGRAM-IN-Application-Event : {     asocketID 100, /* <compare(asocketid, eq)="">*/     aSourceIP aIPV4 : 'A8C00000'H,     aSourcePortNumber 1,     aData '00112233445566778899'H }</compare(asocketid,>	

#### 10.5.3.4.2 UDP\_0062 - EVT-UDP-ERROR-Application-Event trigger

Test identification		UDP_0062		
Test objectives		When an error occurred, UDP service gate notifies the UDP consumer via UDP		
		application gate by an event.		
Config	uration	UDP_001		
referer	nce			
		Initial conditions		
The fol	lowing test sha	Il be executed:		
•	UDP_0031.	The pipe session shall be open between the UDP application gate and	the UDP service	
	gate.			
		Test sequence		
Step	Description		Requirements	
1	At an error, O	ther host UDP service gate sends aUDP-0062-Event-01 to other host	RQ1005_025	
	UDP application	on gate with:	RQ1005_027	
	ASN1START			
	<pre>aUDP-0062-Event-01 UDP-APPLICATION-GATE-Events ::= aEVT-UDP-ERROR- Application-Event : {    aSocketID 100, /*<compare(asocketid,eq)>*/</compare(asocketid,eq)></pre>			
	aErrorCode aErrorInfo } ASN1STOP	e eNETWORK-BUSY, b '0007'H		

#### 10.5.3.5 UDP ASN.1 descriptions

#### 10.5.3.5.1 End of ASN.1 structure

The annex shall be appended at the end of the UDP test descriptions.

```
-- ASN1START
END
-- ASN1STOP
```

#### 10.5.3.6 Requirements not testable, implicitly verified or verified elsewhere

#### 10.5.3.6.1 Implicit requirements

The following requirements identified in clause 5.6.4 are generated from descriptive text. An explicit verification is not possible but with correct execution of the related function the requirements can be considered implicitly verified.

RQ1005_001	RQ1005_002	RQ1005_003
RQ1005_004	RQ1005_005	RQ1005_007
RQ1005_009	RQ1005_013	RQ1005_014
RQ1005_017	RQ1005_019	
RQ1005_020	RQ1005_021	

#### 10.5.3.6.2 Not Testable Requirements

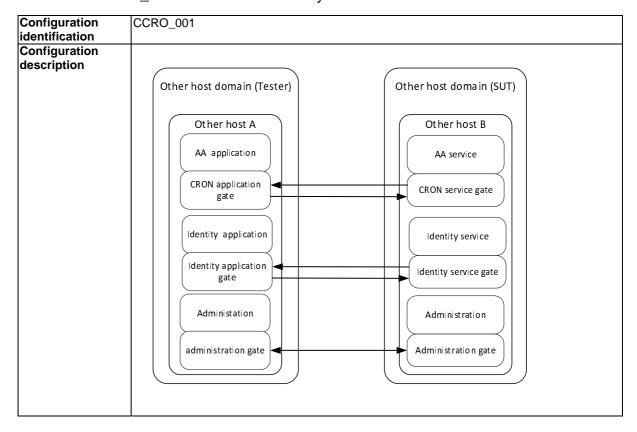
The following requirements identified in clause 5.6.4 are either generated from descriptive text or not testable in the defined test environment. A verification of the listed requirements is not possible:

RQ1005_006	RQ1005_009	
RQ1005_013	RQ1005_014	RQ1005_017
RQ1005_019	RQ1005_020	RQ1005_021

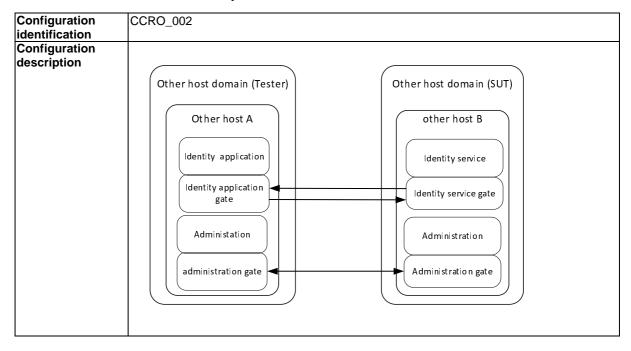
## 10.6 CRON service support

#### 10.6.1 Configurations

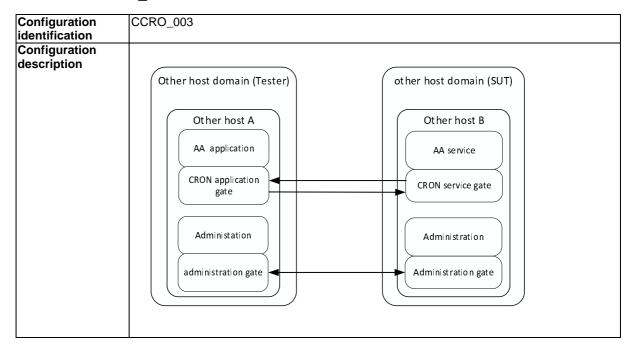
#### 10.6.1.1 CCRO\_001 - CRON and Identity services



#### 10.6.1.2 CCRO\_002 - Identity service



#### 10.6.1.3 CCRO\_003 - Generic CRON service



#### 10.6.1.4 ASN.1 definitions

The following definitions are used for the procedures and the test descriptions.

```
-- ASN1START
SSPCRONconfigurations { itu-t (0) identified-organization (4) etsi (0) smart-secure-platform (3666)
part1 (1) test (2) cron (8)}
DEFINITIONS
AUTOMATIC TAGS
EXTENSIBILITY IMPLIED ::=
BEGIN
EXPORTS ALL;
/* Imports */
```

```
IMPORTS
    CRON-SERVICE-GATE-Commands,
    CRON-SERVICE-GATE-Responses,
    CRON-APPLICATION-GATE-Events,
    UUID,
    Version,
    VersionType
FROM SSPDefinitions;

eCRONVersion VersionType ::='0100' --Version 01.00
eDateFuture    GeneralizedTime::= "20410629114501.000" /* Date in the future June 29, 2041*/
eDatePast    GeneralizedTime::= "20110629114501.000" /* Date in the past June 29, 2011*/
-- ASN1STOP
```

#### 10.6.2 Procedures

## 10.6.2.1 PCRO\_021 - Open a pipe session with the Identity gate

Procedure		PCRO_021	
identif	ication		
Procedure objectives		The host A shall be able to open a pipe session to the identity service gate of the host B (SUT). From the GATE_LIST registry, the UUID of the CRON service shall be listed. If the procedure is successful then a pipe session is open between the identity application	
0 ::		and the identity service in the other hosts.	
refere	guration	CCRO_002	
rerere	nce	Initial conditions	
The te	ster runs the C	RON application gate and the SUT runs the CRON service gate.	
	<u> </u>	Procedure sequence	
Step	Description	·	
1	Administration	n gate of the host A sends EVT_ADM_BIND to Administration gate in the host B with:	
		Exy: a dynamically assigned pipe identifier for the identity service gate.	
	• GAT	EIDENTITY: The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-	
		BA497F917).	
2		n gate in the host B sends EVT_ADM_BIND to Administration gate in the host A with:	
		Eyx: a dynamically assigned pipe identifier for the identity application gate.	
		E <sub>IDENTITY</sub> : The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-	
		BA497F917).	
3		ation gate sends ANY_GET_PARAMETER command (pipe PIPExy) to the identity service	
		st B with the register '04'H.	
4		e gate sends ANY_GET_PARAMETER response (pipe PIPE <sub>YX</sub> ) to the identity application	
	gate in the oth		
		ervice identifier shall be present. The procedure is successful if the previous requirement is	
	satisfied.	A STATE OF THE PART OF THE PAR	
5		n gate in the host A sends EVT_ADM_UNBIND event to the administration gate in the host	
	B with:		
		xy: a dynamically assigned pipe identifier for the identity service gate.	
		sion between the Identity application gate and the Identity service gate is closed. This step	
	is required to	clean up the context of the procedure, but it is not essential for the procedure objective.	

# 10.6.2.2 PCRO\_022 - Open a pipe session with the CRON service in a host of the REE Host domain

Procedure identification		PCRO_022
Procedure		The host A shall be able to open a pipe session to the CRON service gate of the host B.
objecti	ives	If the procedure is successful, then a pipe session is open between the CRON application
		in the other host and the CRON service in the host B.
_	uration	CCRO_001
referer	nce	
		Initial conditions
The pro	ocedure PCRC	0_021 shall be successfully executed:
•	The CRON :	service identifier is present in the GATE_LIST registry of the Identity gate.
		Procedure sequence
Step	Description	
1		n gate in the host A sends EVT_ADM_BIND to Administration gate in the host B with:
	PIPE	BA: a dynamically assigned pipe identifier for the CRON service gate.
	• GAT	Ecron: The UUID gate identifier of the identity gate (D67ABDB2-91AC-5B2E-8DF9-
		591E987C0).
2		n gate in the host B sends EVT_ADM_BIND to Administration gate in the host A with a
	• •	neter equal to:
	PIPE	EAB: a dynamically assigned pipe identifier for the identity application gate.
		Ecron: The UUID gate identifier of the identity gate (D67ABDB2-91AC-5B2E-8DF9-591E987C0).
		all be present in one of the binding parameters (see VNP[XX]). If present, then the
	procedure is	successful.

# 10.6.2.3 PCRO\_023 - Open a pipe session with the CRON service in the TEE Host domain

Proce identif	dure fication	PCRO_023
Procedure objectives		The host A shall be able to open a pipe session to the CRON service gate of the host B in the TEE host domain. The CRON service identifier is 'E5C6D5E1-6376-5B2D-A158-F11B5E7BA7AE'H
		If the procedure is successful, then a pipe session is open between the CRON application gate in the host B and the CRON service gate in the host A.
Config	guration	
refere	nce	
		Initial conditions
The pr	rocedure	PCRO_021 shall be successfully executed:
•	The C	RON service identifier is present in the GATE_LIST registry of the Identity gate.
		Procedure sequence
Step	Descri	otion
1	Adminis	stration gate in the host A sends EVT_ADM_BIND to Administration gate in the host B with:
	•	PIPE <sub>BA</sub> : a dynamically assigned pipe identifier for the CRON service gate.
	•	GATECRON: The UUID gate identifier of the identity gate (E5C6D5E1-6376-5B2D-A158-F11B5E7BA7AE).
2		stration gate in the host B sends EVT_ADM_BIND to Administration gate in the host A with a parameter equal to:
	•	PIPE <sub>AB</sub> : a dynamically assigned pipe identifier for the identity application gate.
	•	GATECRON: The UUID gate identifier of the identity gate (E5C6D5E1-6376-5B2D-A158-F11B5E7BA7AE).
		RON shall be present in one of the binding parameters (see VNP[XX]). If present, then the ure is successful.

#### PCRO\_024 - Open a pipe session with the CRON service in the MBM Host 10.6.2.4 domain

Proced	Huro	PCRO_024
	ication	1 GNO_024
Procedure		The best A shall be able to approximate the CDON comics again to the MDM
		The host A shall be able to open a pipe session to the CRON service gate of the MBM
objecti	ives	host. The CRON service identifier is '51FE5F0F-3BAA-506B-8CB5-AFD7562268E8'H
		If the test is successful then a pipe session is open between the CRON application in the
		other host and the CRON service in the MBM host.
Config	uration	CCRO_001
referer	nce	
		Initial conditions
The pro	ocedure PC	RO_021 shall be successfully executed:
•	The CRC	N service identifier is present in the GATE_LIST registry of the Identity gate.
		Procedure sequence
Step	Description	on .
1	Administra	tion gate in the host A sends EVT_ADM_BIND to Administration gate in the MBM host with:
	• F	IPE <sub>BA</sub> : a dynamically assigned pipe identifier for the CRON service gate.
	• (	ATECRON: The UUID gate identifier of the identity gate (51FE5F0F-3BAA-506B-8CB5-
		FD7562268E8).
2	Administra	tion gate in the host B sends EVT_ADM_BIND to Administration gate in the host A with a
	binding pa	rameter equal to:
	• F	IPE <sub>AB</sub> : a dynamically assigned pipe identifier for the identity application gate.
		ATE <sub>CRON</sub> : The UUID gate identifier of the identity gate (51FE5F0F-3BAA-506B-8CB5-
		FD7562268E8).
		shall be present in one of the binding parameters (see VNP[XX]. If present then the
		is successful.

#### 10.6.3 **Test Descriptions**

#### 10.6.3.1 **CRON-REQUEST-TIMER-Command**

#### 10.6.3.1.1 CRO\_031 - Request a CRON timer

	1 4161 41	000	
l est i	dentification	CRO_031	
Test o	objectives	CRON Service gate shall open a timer of absolute date and time sp	ecified in command.
Config	guration	CCRO_001	
refere	nce		
		Initial conditions	
PCRO	021 shall be s	uccessfully executed.	
One o	f following proc	edures shall be executed:	
•	PCRO_022.	The pipe session is opened between the CRON application gate an	d the CRON service
	gate.		
•	PCRO 023.	The pipe session is opened between the CRON application gate an	d the CRON service
	gate.		
•	•	The pipe session is opened between the CRON application gate an	d the CRON service
	gate.		
		Test sequence	
Step	Description	<u> </u>	Requirements
1	AAA gate sen	ds an aCRO-031-command-01 to CRON gate with:	DO1006 006
	ASN1STAR		RQ1006_006
			RQ1006_006
	aCRO-031-cor	r nmand-01 CRON-SERVICE-GATE-Commands ::= aCRON-REQUEST-	RQ1006_007
	TIMER-Commar	nmand-01 CRON-SERVICE-GATE-Commands ::= aCRON-REQUEST-nd : {	
	TIMER-Commar aInitialNo	nmand-01 CRON-SERVICE-GATE-Commands ::= aCRON-REQUEST- nd : { ptificationDateTime aDateTimeAbsolute eDateFuture,	RQ1006_007
	TIMER-Commar	nmand-01 CRON-SERVICE-GATE-Commands ::= aCRON-REQUEST- nd : { ptificationDateTime aDateTimeAbsolute eDateFuture,	RQ1006_007
	TIMER-Commar aInitialNo aPeriod 3600 }	nmand-01 CRON-SERVICE-GATE-Commands ::= aCRON-REQUEST- nd : { ptificationDateTime aDateTimeAbsolute eDateFuture,	RQ1006_007
	TIMER-Commar aInitialNo	nmand-01 CRON-SERVICE-GATE-Commands ::= aCRON-REQUEST- nd : { ptificationDateTime aDateTimeAbsolute eDateFuture,	RQ1006_007
	TIMER-Commar aInitialNo aPeriod 3600 } ASN1STOP	nmand-01 CRON-SERVICE-GATE-Commands ::= aCRON-REQUEST- nd : { ptificationDateTime aDateTimeAbsolute eDateFuture,	RQ1006_007

```
CRON gate sends aCRO-031-response-01 response to AAA gate with:
    -- ASN1START
    aCRO-031-response-01 CRON-SERVICE-GATE-Responses ::= aCRON-REQUEST-
TIMER-Response : {
    aCRON-Service-Response eCRON-OK,
    aParameter {
        aCRON-ID 0, /*<STORE(eCRONSession)>*/
        aPersistantOverPowerCycle FALSE
    }
}
-- ASN1STOP
RQ1006_011
RQ1006_012
```

#### 10.6.3.1.2 CRO\_032 - CRON service does not support absolute time

Test identification	CRO_032	
Test objectives	CRON Service gate does not support absolute date and time. At absolute date and time	
	CRON request of application gate, service gate reject it.	
Configuration	CCRO_001	
reference		
Initial conditions		

#### Initial conditions

PCRO\_021 shall be successfully executed.

One of following tests shall be executed:

- PCRO\_022. The pipe session is opened between the CRON application gate and the CRON service gate.
- PCRO\_023. The pipe session is opened between the CRON application gate and the CRON service
  gate.
- PCRO\_024. The pipe session is opened between the CRON application gate and the CRON service gate.

Test sequence			
Step	Description	Requirements	
1	AA Application CRON gate sends an aCRO-032-command-02 to other host CRON	RQ1006_006	
	service gate with:	RQ1006_007	
	ASN1START	RQ1006_008	
	aCRO-032-command-02 CRON-SERVICE-GATE-Commands ::= aCRON-REQUEST-		
	TIMER-Command : {		
	aInitialNotificationDateTime aDateTimeAbsolute eDateFuture, aPeriod 36000		
	}		
	ASN1STOP		
	Set an alarm the June,29 2021 at 11H45 and then every hour.		
2	Other host CRON gate sends aCRO-032-response-02 response to AA application	RQ1006_009	
	CRON gate with:		
	ASN1START		
	aCRO-032-response-02 CRON-SERVICE-GATE-Responses ::= aCRON-REQUEST-		
	TIMER-Response : {		
	aCRON-Service-Response eCRON-E-NO-ABSOLUTE-TIME,		
	aParameter {     aCRON-ID 0, /* <store(ecronsession)>*/</store(ecronsession)>		
	aPersistantOverPowerCycle FALSE		
	}		
	}		
	ASN1STOP		

#### 10.6.3.1.3 CRO\_033 - CRON Application request absolute timer in the past

Test identification	CRO_033
Test objectives	CRON service gate executing one CRON timer of absolute time. There is one more
	request of absolute time. CRON Service gate shall reject this request.
Configuration	CCRO_001
reference	

#### Initial conditions

The PCRO\_021 shall successfully executed.

One of following tests shall be executed:

- PCRO\_022. The pipe session is opened between the CRON application gate and the CRON service gate.
- PCRO\_023. The pipe session is opened between the CRON application gate and the CRON service gate.
- PCRO\_024. The pipe session is opened between the CRON application gate and the CRON service gate.

CRO\_031 shall be successfully executed.

	Test sequence				
Step	Description	Requirements			
1	The CRON application gate sends an aCRO-033-command-03 to CRON service gate with:	RQ1006_006 RQ1006_007			
	ASN1START aCRO-033-command-03 CRON-SERVICE-GATE-Commands ::= aCRON-REQUEST- TIMER-Command : {				
	<pre>aInitialNotificationDateTime aDateTimeAbsolute eDatePast,    aPeriod 36000 }</pre>				
	ASNISTOP				
	Set an alarm the June,29 2019 at 11H45 and then every hour.	DO4000 040			
2	The CRON service gate sends aCRO-033-response-03 response to CRON application gate with:	RQ1006_010			
	ASN1START				
	aCRO-031-response-03 CRON-SERVICE-GATE-Responses ::= aCRON-REQUEST-				
	TIMER-Response : {    aCRON-Service-Response eCRON-E-NOK,				
	aParameter {				
	aCRON-ID 0, /* <store(ecronsession)>*/</store(ecronsession)>				
	aPersistantOverPowerCycle FALSE }				
	}				
	ASN1STOP				

#### 10.6.3.2 CRON-READ-DATE-TIME-Command

#### 10.6.3.2.1 CRO\_041 - Read the time and date

Test identification	CRO_041	
Test objectives	The CRON service gate able to return date and time successfully.	
Configuration	CCRO_001	
reference		
Initial conditions		

#### Initial conditions

The PCRO\_021 shall be successfully executed.

One of following tests shall be executed:

- PCRO\_022. The pipe session is opened between the CRON application gate and the CRON service gate.
- PCRO\_023. The pipe session is opened between the CRON application gate and the CRON service gate.
- PCRO\_024. The pipe session is opened between the CRON application gate and the CRON service gate.

	yaie.				
	Test sequence				
Step	Description	Requirements			
1	The CRON application gate sends an aCRO-041-command-02 to the CRON	RQ1006_013			
	service gate with:				
	ASN1START				
	aCRO-041-command-01 CRON-SERVICE-GATE-Commands ::= aCRON-READ-DATE-				
	Command : {				
	}				
	ASN1STOP				
2	The CRON service gate sends aCRO-041-response-02 response to CRON	RQ1006_014			
	application gate with:	RQ1006_015			
	ASN1START				
	aCRO-041-response-01 CRON-SERVICE-GATE-Responses ::= aCRON-READ-				
	DATE-TIME-Response : {				
	aCRON-Service-Response eCRON-OK,				
	aParameter {				
	aDateTime "20210629114501.000"				
	}				
	} ASN1STOP				

#### 10.6.3.3 CRON-KILL-TIMER-Command

## 10.6.3.3.1 CRO\_051 - CRON application requests to kill a timer

Test ic	Test identification   CRO_051			
Test o	bjectives	The CRON service able to kill a timer which are successfully created on the request of		
		CRON application before expire.	·	
Config	guration	CCRO_001		
refere	nce			
		Initial conditions		
The fol	llowing test sha	all be executed:		
•	CRO_031. A	timer has been created.		
		Test sequence		
Step	Description		Requirements	
1	service gate v ASN1STAR: aCRO-051-cor Command : {	rmmand-02 CRON-SERVICE-GATE-Commands ::= aCRON-KILL-TIMER-	RQ1006_016 RQ1006_017	
2	CRON gate w ASN1STAR: aCRO-051-res TIMER-Respon	r sponse-02 CRON-SERVICE-GATE-Responses ::= aCRON-KILL- nse : { vice-Response eCRON-OK	RQ1006_018	

#### 10.6.3.4 CRON-KILL-ALL-TIMERS-Command

#### 10.6.3.4.1 CRO\_061 - CRON application requests to kill all timers

Test id	dentification	CRO_061			
Test o	The CRON service shall be able to kill all timers which are successful				
	request of the CRON application before they expire.				
Config	guration	CCRO_001			
refere	_	_			
		Initial conditions			
The fo	llowing test sha	all be executed:			
•	CRO 031. A	A timer has been successfully created.			
	_	Test sequence			
Step	Description	•	Requirements		
1	The CRON ar	oplication gate sends an aCRO-061-command-01 to the CRON	RQ1006_019		
	service gate v	•	_		
	ASN1STAR				
	aCRO-061-com	mmand-01 CRON-SERVICE-GATE-Commands ::= aCRON-KILL-ALL-			
	TIMERS-Comma	and : {			
	}	· ·			
	ASN1STOP				
2	The CRON se	ervice gate sends an aCRO-061-response-01 response to CRON	RQ1006_020		
	application ga		_		
	ASN1STAR				
	aCRO-061-re	sponse-01 CRON-SERVICE-GATE-Responses ::= aCRON-KILL-ALL-			
	TIMERS-Respo	onse : {			
	aCRON-Ser	vice-Response eCRON-OK			
	}				
	ASN1STOP				

RQ1006\_011

RQ1006\_012

#### 10.6.3.4.2 CRO\_062 - CRON application requests to kill all timers twice

Test ic	est identification   CRO_062				
Test o	Test objectives The CRON service shall be able to kill all timers which have been already				
	killed. The command shall have no effect and shall always return eCR				
Config	guration	CCRO_001			
refere	nce	_			
		Initial conditions			
The fo	llowing test sha	all be executed:			
•	•	All timers have been already killed.			
		Test sequence			
Step	Description		Requirements		
1	service gate v ASN1STAR aCRO-062-con TIMERS-Comma } ASN1STOP	r mmand-01 CRON-SERVICE-GATE-Commands ::= aCRON-KILL-ALL- and : {	RQ1006_019		
2	application ga ASN1STAR  aCRO-062-res TIMERS-Respo	r sponse-01 CRON-SERVICE-GATE-Responses ::= aCRON-KILL-ALL-	RQ1006_020		

#### 10.6.3.5 **CRON-ELAPSED-TIMER-Event**

-- ASN1STOP

-- ASN1START

Set a relative alarm.

TIMER-Response : {

aParameter

ASN1STOP

aCRON-Service-Response eCRON-OK,

aCRON-ID 0, /\*<STORE(eCRONSession)>\*/ aPersistantOverPowerCycle FALSE

#### 10.6.3.5.1 CRO\_071 - Request a CRON timer

Tost ic	lontification	CRO 071			
	-				
	bjectives	CRON Service gate shall open a timer of absolute date and time spe	ecified in command.		
Config	guration	CCRO_001			
eferei	nce				
		Initial conditions			
he PO	CRO_021 shall	be successfully executed.			
One of	following proc	edures shall be executed:			
•	PCRO_022.	The pipe session is opened between the CRON application gate and	I the CRON service		
	gate.				
•	•	The pipe session is opened between the CRON application gate and	the CRON service		
	gate.	The pipe december of the action and the approximating gard and			
•	•	The pipe session is opened between the CRON application gate and	the CRON service		
•	gate.	The pipe session is opened between the Orton application gate and	THE CITCH SELVICE		
	gate.	Test sequence			
31	Danadadian	rest sequence	D		
Step	Description		Requirements		
1	AAA gate sen	ds an aCRO-071-command-01 to CRON service gate with:	RQ1006_006		
	ASN1START		RQ1006_007		
		mmand-01 CRON-SERVICE-GATE-Commands ::= aCRON-REQUEST-	RQ1006 008		
	TIMER-Commar	nd : {			
	aInitialNo	otificationDateTime aTimeRelative 1, aPeriod 360			
	1				

CRON service gate sends aCRO-071-response-01 response to AAA gate with:

aCRO-071-response-01 CRON-SERVICE-GATE-Responses ::= aCRON-REQUEST-

#### 10.6.3.5.2 CRO\_072 - ELAPSED-TIMER-Event trigger

Test id	est identification CRO_072				
Test o	<b>Test objectives</b> At timer elapsed, CRON Service shall notify to the CRON application gate by an event.				
Config	guration	CCRO_001			
refere	nce				
		Initial conditions			
The fo	llowing test sha	all be executed:			
•	CRO_071. A	timer with relative time is created.			
		Test sequence			
Step	Description		Requirements		
1		ed, the CRON service gate sends an aCRO-072-Event-01 response	RQ1006_022		
	to the CRON	application gate with:	RQ1006_023		
	ASNISIAR.	L			
	aCRO-072-event-01 CRON-APPLICATION-GATE-Events ::= aCRON-ELAPSED-				
	TIMER-Event : {				
aCRON-ID		) /* <compare(ecronsession,eq)>*/</compare(ecronsession,eq)>			
	} ASN1STOP				

#### 10.6.3.6 End of test descriptions - CRON ASN.1 descriptions

#### 10.6.3.6.1 Annex - End of ASN.1 structure

The annex shall be appended at the end of the CRON test descriptions.

```
-- ASN1START
END
-- ASN1STOP
```

#### 10.6.3.7 Requirements not testable

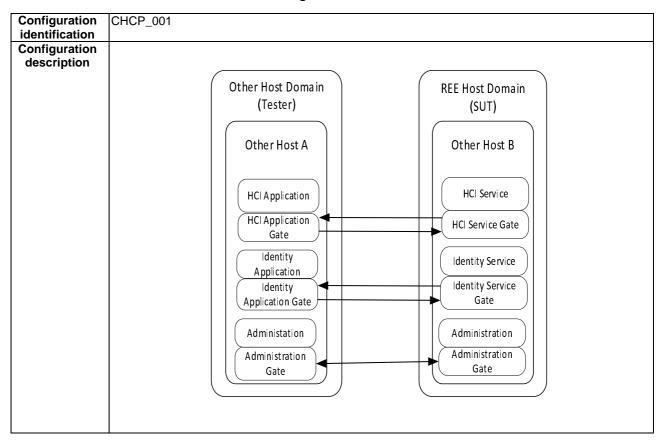
The following requirements identified in clause 5.6.6 are either generated from descriptive text or not testable in the defined test environment. A verification of the listed requirements is not possible.

RQ1006_001
RQ1006_002
RQ1006_003
RQ1006_004
RQ1006_005
RQ1006_021

# 10.7 Contactless related applications support

# 10.7.1 Configurations

## 10.7.1.1 CHCP\_001 - HCP tunnelling over SCL



## 10.7.2 Procedures

## 10.7.2.1 PHCP\_021 - Open a pipe session with the Identity gate

Procedure identification		PHCP_021
Procedure objectives		The host A(tester) shall be able to open a pipe session to the identity service gate of the other host in the SUT. From the GATE_LIST registry, the UUID of the HCI service shall be listed.
	guration	CHCP_001
refere	nce	
		Initial conditions
None.		
_		Test sequence
Step	Description	
1		n gate sends EVT_ADM_BIND to Administration gate in the host A with:
		Exx: a dynamically assigned pipe identifier for the identity service gate.
		: The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-
	FA1BA497F9	
2		n gate sends EVT_ADM_BIND to Administration gate in the host B with:
		E <sub>YX</sub> : a dynamically assigned pipe identifier for the identity application gate.
	GATEIDENTITY	: The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-
	FA1BA497F9	
3	Identity applic	cation gate sends ANY_GET_PARAMETER command (pipe PIPE <sub>XY</sub> ) to the identity service
	gate in the ot	her host with the register '04'H.
4	Identity service	ce gate sends ANY_GET_PARAMETER response (pipe PIPE <sub>YX</sub> ) to the identity application
	gate.	
The HCI servi		ice identifier shall be present. The procedure is successful if the previous requirement is
	satisfied.	
5	Administratio	n gate sends EVT_ADM_UNBIND event to the administration gate in the host A with:
	PIPI	Exy: a dynamically assigned pipe identifier for the identity service gate.
		sion between the Identity application gate and the Identity service gate is closed.

## 10.7.2.2 PHCP\_022 - Open a pipe session with the HCl service

Proce	dure	PHCP_022		
identif	fication			
Proce	dure	The HCl application gate shall be able to open a pipe session to the HCl service gate.		
objectives		If the test is successful, then a pipe session is open between the HCl application in the host A and the HCl service in the host B.		
Config	guration	CHCP_001		
refere	nce			
		Initial conditions		
The te	st HCP_02	21 shall be successfully executed.		
		Test sequence		
Step	Descript	ion		
1	Administ	ration gate sends EVT_ADM_BIND to Administration gate in the other with:		
	•	PIPE <sub>BA</sub> : a dynamically assigned pipe identifier for the HCI control service gate.		
		GATE <sub>HCI</sub> : The UUID gate identifier of the HCI service gate (213CA645-9A22-5C5D-B340-60212840015B).		
2	Administ	ration gate sends EVT_ADM_BIND to Administration gate in the other host with a binding		
	parameter equal to:			
PIPE		PIPE <sub>AB</sub> : a dynamically assigned pipe identifier for the HCI control application gate.		
		GATE <sub>URN</sub> : The UUID gate identifier of the HCI control service gate (213CA645-9A22-5C5D-B340-60212840015B).		
		edure is successful if the pipe session is open.		

# 10.7.3 Test descriptions

# 10.7.3.1 HCP\_001 - HCP tunnelling over SCL-1

Test id	st identification   HCP_ 001			
Test objectives  To verify HCI Host Controller's HCP tunnelling procedure over SCL. The pipe session between the HCI application and the HCI service acts as a link layer as defined in ETS TS 102 622 [5], clause 4.1.  To verify that the HCP tunneling can be operated as defined in ETSI TS 102 622 [5], the tests defined in ETSI TS 102 695-1 [3] shall be executed using configuration CHCP_0 Test case defined in ETSI TS 102 695-1 [3] are to be handled as test descriptions defined in the present document, where the term 'HS' shall be replaced by 'Tester' is a HCI host as defined in ETSI TS 102 622 [5] embedded in the host A and the term 'HCUT' shall be replaced by 'SUT' is a HCI host embedded with host B.				
_	juration	CHCP_001		
referer	ice			
		Initial conditions		
The pro	ocedure PHCF	P_022 shall be successfully executed.		
		Test sequence		
Step		Description	Requirements	
1	The tester sha	all successfully execute all test descriptions as defined in ETSI	RQ1007_003	
TS 102 695-1		[3].	RQ1007_004	
			RQ1007_005	
			RQ1007_006	
			RQ1007_007	
			RQ1007_008	

# 10.7.3.2 HCP\_002 - HCP tunnelling over SCL-2

Test ic	st identification  HCP_002					
Test objectives  To verify HCI Host Controller's HCP tunnelling procedure over SCL. The pipe session between the HCI application and the HCI service acts as a link layer as defined in the ETSI TS 102 622 [5], clause 4.1.  To verify that the HCP tunneling can be operated as defined in ETSI TS 102 622 [5], the tests defined in ETSI TS 102 695-2 [4] shall be executed using configuration CHCP_0 Test cases defined in ETSI TS 102 695-2 [4] are to be handled as test descriptions defined in the present document, where the term 'HCS' shall be replaced by 'Tester' is HCI host as defined in ETSI TS 102 622 [5] embedded in the host A and the term 'HU' shall be replaced by 'SUT' is a HCI host embedded with host B.			TS 102 622 [5], the juration CHCP_001. st descriptions ced by 'Tester' is a			
Config	guration	CHCP_001				
refere	nce					
	Initial conditions					
The pr	ocedure PHCF	P_022 shall be successfully executed.				
		Test sequence				
Step		Description	Requirements			
1	The tester shared TS 102 695-2	all successfully execute all test descriptions as defined in ETSI [4].	RQ1007_003 RQ1007_004 RQ1007_005 RQ1007_006 RQ1007_007 RQ1007_008			

#### 10.7.3.3 HCP\_003 - limited pipe session

Test id	Test identification HCP_003					
Test of	The objectives The objective of the test is to verify than at most one pipe session on the HCP service gate shall be open.					
	Configuration CHCP_001 reference					
Initial conditions						
The pro	The procedure PHCP_022 shall be successfully executed.					
Test sequence						
Step	p Description Requirements					
1	The procedure	e PHCP_022 shall fail	RQ1007_002			

#### 10.7.3.4 Requirements not testable, implicitly verified or verified elsewhere

#### 10.7.3.4.1 Requirements not tested

The following requirements identified in clause 5.6.7 are either generated from descriptive text or not testable in the defined test environment. A verification of the listed requirements is not possible:

RQ1004\_043, RQ1004\_008

#### 10.7.3.4.2 Implicit requirements

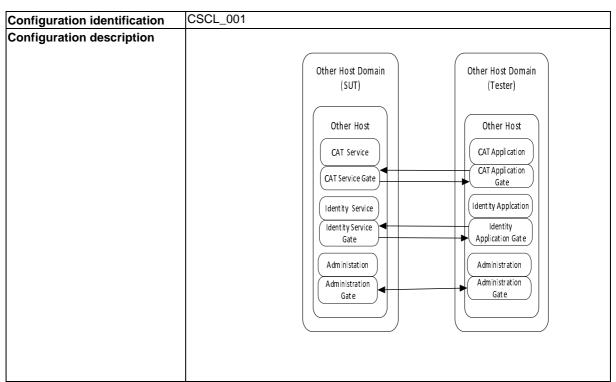
By executing the test descriptions defined in ETSI TS 102 695-1 [3], clause 5.2 the following requirements are implicitly tested:

RQ1007\_001

## 10.8 Card Application Toolkit (CAT) over SCL

## 10.8.1 Configurations

In addition the following configurations are used in this clause.



## 10.8.2 Procedures

# 10.8.2.1 PSCL\_001 - Open a pipe session with the Identity gate of the Other host (SUT)

Procedure		PSCL_001				
identification						
Proced	dure	The Other host (Tester) shall be able to open a pipe session to the identity gate of the				
objecti	ives	Other host (SUT).				
Config	uration	CSCL_001				
referer	nce					
		Initial conditions				
		Procedure sequence				
Step	Description	ription				
1	Administration	ation gate sends EVT_ADM_BIND to Administration gate in the Other host (SUT) with:				
	PIPE	Exy: a dynamically assigned pipe identifier for the identity service gate.				
	• GAT	GATE <sub>IDENTITY</sub> : The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-				
	FA1BA497F917).					
2	2 Administration gate sends EVT_ADM_BIND to Administration gate in the Other host (Tester) with:					
	<ul> <li>PIPE<sub>YX</sub>: a dynamically assigned pipe identifier for the identity application gate.</li> </ul>					
	• GAT	GATEIDENTITY: The UUID gate identifier of the identity gate (416B66AC-A134-5082-8160-FA1BA497F917).				

#### 10.8.2.2 PSCL\_002 - Open a pipe session with the CAT gate

Proce	dure	PSCL 002				
identification		002_002				
Proce	dure	The gate identifier of the CAT service is FF00453F-B0D5-59CE-B0D4-3AE178432F73				
object	ives	and is related to the REE only in order to be independent of the configuration.				
Config	guration	CSCL_001				
refere	nce					
		Initial conditions				
		Procedure sequence				
Step	Step Description					
1	Administration	n gate sends EVT_ADM_BIND to Administration gate in the Other host (SUT) with:				
	<ul> <li>PIPE<sub>XY</sub>: a dynamically assigned pipe identifier for the CAT service gate.</li> </ul>					
	GATE <sub>CAT</sub> : The UUID gate identifier of the CAT gate (FF00453F-B0D5-59CE-B0D4-					
	3AE178432F73).					
2	2 Administration gate sends EVT_ADM_BIND to Administration gate in the Other host (Tester) with:					
	PIPE <sub>YX</sub> : a dynamically assigned pipe identifier for the CAT application gate.					
	• GAT	E <sub>CAT</sub> : The UUID gate identifier of the CAT gate (FF00453F-B0D5-59CE-B0D4-				
	3AE178432F73).					

# 10.8.3 Test descriptions

## 10.8.3.1 SCL\_001 - CAT Service Gate URN in REE

Test identification		SCL_001					
Test objectives		Verify GATE Identifier of CAT Service gate to ensure CAT Service Gate supports URN syntax as defined in ETSI TS 103 666-1 [1], clause 8.2, with the values specified in ETSI TS 103 666-1 [1], Table 8.1.					
Config	guration	CSCL_001 with REE host domain as Other host domain (SUT)					
refere	nce						
		Initial conditions					
PSCL_	_001 is succes	sfully run.					
		Test sequence					
Step	Description Requirements						
1	Identity Application Gate in Other host (Tester) sends command  "ANY_GET_PARAMETER" with parameter "GATE_LIST" ('04' H) to the Identity  Service Gate in REE host domain:  • Verify that this list contains GATE Identifier"FF00453F-B0D5-59CE-B0D4-3AE178432F73".						

#### 10.8.3.2 SCL\_002 - CAT Service Gate URN in MBM

Test ic	est identification   SCL_002						
Test objectives  Verify GATE Identifier of CAT Service gate to ensure CAT Service Gate supports URI syntax as defined in ETSI TS 103 666-1 [1], clause 8.2, with the values specified in ETSI 103 666-1 [1], Table 8.1.							
Config	guration nce	CSCL_001 with MBM host domain as Other host domain					
Initial	conditions	I					
PSCL_	_001 is success	sfully run.					
Test s	equence						
Step	Description		Requirements				
1	Identity Application Gate in Other host (Tester) sends command  "ANY_GET_PARAMETER" with parameter "GATE_LIST" ('04' H) to the Identity  Service Gate in MBM host domain:  • Verify that this list contains GATE Identifier "3D16542C-691F-53DB-A62A-B5AEF296159B".						

#### 10.8.3.3 SCL\_003 - CAT Service Gate testing procedure

Test identification		SCL_003								
Test of	ojectives	Verify CAT Service Gate Procedures								
Config	uration	CSCL_001								
referer										
	Initial conditions									
PSCL_	001 is success	sfully run.								
PSCL_	002 is success	sfully run.								
		Test sequence								
Step	Description		Requirements							
1		on Gate (Tester) sends event "EVT_PROACTIVE_CMD" ('10' H) with	RQ1008_012							
		defined) COMPREHENSION-TLV data objects at end of command	RQ1008_021							
	to CAT servic		RQ1008_023							
		y that there is no error from CAT Service Gate (SUT).								
2		Gate (SUT) shall issue back "EVT_TERMINAL_RESPONSE" ('11' H):	RQ1008_005							
		y that this is received to CAT Application Gate (Tester).	RQ1008_007							
		y that this message follows structure as defined in ETSI	RQ1008_009							
		02 622 [5], clause 5.2 HCP message structure.	RQ1008_011							
		y that it follows BER-TLV encoding.	RQ1008_013							
		th encoding of this shall be verified against "Table 10.15: Length	RQ1008_017							
		oding" of ETSI TS 103 666-1 [1].	RQ1008_018							
		that COMPREHENSION-TLV data objects are provided in order as								
		defined for this in ETSI TS 102 223 [9].								
3	Force CAT Service Gate (SUT) to send some info which should be encapsulated in RQ1008_005									
	envelope:	RQ1008_007								
		Verify that "EVT_ENVELOPE_CMD" ('10' H) is received to CAT  RQ1008_008  RQ1008_008								
		ication Gate (Tester).	RQ1008_009 RQ1008_011							
		02 622 [5], clause 5.2 HCP message structure.	RQ1008_013							
		y that it follows BER-TLV encoding.	RQ1008_015 RQ1008_016							
		zerigin energing et inte enam de vermeu agamer i adre rerrer zerigin								
		oding" of ETSI TS 103 666-1 [1].								
		y that COMPREHENSION-TLV data objects are provided in order as led for this in ETSI TS 102 223 [9].								
		byte of BER-TLV is constant, verify that it indicates a CAT command								
		efined in ETSI TS 101 220 [11] "Card application toolkit templates".								
4		on Gate (Tester) sends back "EVT_ENVELOPE_RSP" ('11' H) with	RQ1008_010							
-		ructed length byte:	RQ1008_021							
		y that it should be treated as error and message shall be rejected.	1.3(1000_021							
	<ul> <li>Verify that it should be treated as error and message shall be rejected.</li> <li>Further action to be performed on with this response is not taken by CAT</li> </ul>									
	Service (SUT).									
5		AT Application Gate (Tester) sends back event "EVT_ENVELOPE_RSP" to CAT RQ1008_021								
	Service Gate (SUT), including optional payload and followed by SW1/SW2 RQ1008_025									
	Verify that the	re is no error from CAT Service Gate (SUT).								
	Verify that there is no error from CAT Service Gate (SUT).									

#### 10.8.3.4 Requirements not tested

The following requirements identified in clause 5.6.8 are either generated from descriptive text or not testable in the defined test environment. A verification of the listed requirements is not possible:

RQ1008_002	RQ1008_014	RQ1008_024
RQ1008_003	RQ1008_019	RQ1008_026
RQ1008_004	RQ1008_022	RQ1008_027
RQ1008_006		

## 10.9 Access control protocol

There are no requirements for test descriptions related to clause 10.9 of ETSI TS 103 666-1 [1].

# Annex A (normative): SSP Initial State

If the SSP under test supports the SSP File System it shall be configured for testing with a root directory "SSPFS" as defined in clause 6.6.4.

# Annex B (informative): Change History

The table below indicates all changes that have been incorporated into the present document since it was published.

	Change history							
Date Meeting Plenary Doc CR Rev Cat Subject/Comment Old N				New				
08/07/2021	SCP#100	SCP(21)000098	-	-	-	Version 15.0.0 first publication	-	15.0.0

# History

Document history						
V15.0.0	V15.0.0 September 2021 Publication					