


SIM Profile Mark-Up Language (UXP) Template Sheet

Version 2.0

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2.0	04.06.2010	SIM Alliance	This document has been based on the UXP 1.4 (U)SIM XML Profile (UXP) Template Sheet) forum which comprises of Gemalto, Giesecke & Devrient, O2, Oberthur Technologies, and SanDisk.



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ABSTRACT

This document specifies the requirements to implement a unified XML schema for SIM cards prototyping and testing, so the **SIM Profile Mark-Up Language (SIMpml)**.

It has been defined to simplify the transfer of card profile configuration information and the approval of test and production cards, with the intention of replacing the existing various text-based documents. It is firmly believed by this forum that this approach will reduce the failure rates, decrease test loops and minimise human interactions, since XML is a common used way of transferring structured data.

This format allows any Card Vendor or Network Operator to specify and implement any SIM card electrical profile, since it strongly relies on Smart Cards Specifications such as 3GPP, GSMA and SIM Alliance.

The document is based on the UXP 1.4 (U)SIM XML Profile (UXP) Template Sheet, the output of an initiative created by a dedicated forum set up in 2007 under the initiative of Telefónica O2 UK. This forum comprised Gemalto, Giesecke & Devrient, Oberthur Technologies, SanDisk and Telefónica O2 UK.



1. General Considerations

Here are some references used in this document:

- M: The file is mandatory
- O: The file is optional
- R: The file may be repeated
- C: The file presence depends on a specific condition (presence is mandatory if the condition is fulfilled)

Data Generation:

- Static: Used for alpha card creation or fixed data
- Dynamic: Data Processing will be detailed in a dedicated document.

Differences between UXP 1.4 and UXP 2.0 are shown in **green**.



2. Header XML Tag List / Requirements

Item / Structure	Function	Status	Value Type
Header			
TemplateInformation	This section describes all the attributes that will capture details about the skeleton	M	
TemplateVersion	Reference according to which skeleton version this file has been produce Value is taken from the namespace "http://www.simalliance.org/SIMProfile/2.0" Set as fixed value of "2.0".	M	Variable String
DateOfIssuance	Date of the skeleton template used – e.g. YYYY-MM-DD Set as fixed date of "2010-06-04".	M	Date
XMLValidated	Indicates if the XML file has been validated according the XML Schema. <i>The tool updates automatically this field after saving the UXP file.</i>	M	Boolean
TemplateVersionHistory	Details the history of the skeleton. Set as fixed text of <i>"Add of profile naming convention and name space, correction of existing fields, add of new fields "</i>	M	Variable String
XMLToolInformation	Details information about the 3 rd party tool used to produced this profile document	O	Variable String
Comments	Free text which allows to add further information about the template versioning	O	Variable String
SIMCardProfileReference	Customer profile reference information	M	
MobileCountryCode	Customer Mobile Country Code	M	3 int
MobileNetworkCode	Customer Mobile Network Code	M	3 int
ProfileName	Customer profiles name – Free Text	M	Variable String
ProfileVersion	Unique identifier that defines the version of the profile	M	Variable String
ProfileRevision	Track version number	M	2 String
DateOfIssuance	Date of the creation of the document – e.g. YYYY-MM-DD	M	Date
Issuer	Name of the person who created the profile or to whom the enquiries need to be made	M	Variable String
RevisionHistory	Free text which allows to add information about the modification made to the profile	O	Variable String
CustomerSpecificRequirements	Specific customer requirements for the configuration of the card	M	
PPS	The Protocol and Parameter Selection (PPS) procedure	O	1 Hex
Voltage	Voltage class support required. The values are as follows: <ul style="list-style-type: none"> ▪ 1,8V ▪ 3V ▪ 5V ▪ 1,8V to 5V ▪ 1,8V to 3V ▪ 3V to 5V 	O	Enumeration



ProprietaryAlgorithm	Name of the MNO proprietary Algo to be used	O	Variable String
ClockStopMode	Clock Stop Mode procedure as follows (TS 102 221, table 11.6): <ul style="list-style-type: none"> ▪ Clock stop allowed ▪ No preferred level ▪ High level preferred ▪ Low level preferred ▪ Clock stop not allowed ▪ Never ▪ Unless at high level ▪ Unless at low level 	O	Enumeration
CardTechnology	type of card and profile required: <ul style="list-style-type: none"> ▪ SIM (2G only) ▪ USIM (3G only) ▪ CombiCard (2G and 3G) Has to be checked against the Algo used	M	Enumeration
NumberIncomingMessages	Number of incoming concatenated messages	O	1 Hex
NumberOutgoingMessages	Number of outgoing concatenated messages	O	1 Hex
DataDownloadviaUPDATERECORD	Defines if the SIM/USIM need to support Update Record on SMS submit – (Yes or No)	O	Boolean
Re-entrance	Enumerated type that should include all the events to select those that are allowed (43.019 (R5) - Table 1: Handler availability for each event) – 102.241 and 31.130 (R6)	O/R	Enumeration
BIP	Defines if the BIP is enabled (Yes or No)	O	Boolean
Comments	Free text for MNO comments on further implementation guidelines or requirements	O	Variable String



3. Body XML Tag List/Requirements

Item / Structure	Function	Status	Value Type
CardBody			
Comment	Free text which allows to add information about the card body section	O	Variable String
MF_DF	Definition of a MF or DF	R	
FileName	Name of the MF or DF	M	Variable String
FileDescription	Free text to allow to add a quick description of the MF or DF	O	Variable String
FileID	File identifier	M	2 Hex
FileType	Type of the file. The values are as follows: <ul style="list-style-type: none"> MF DF 	M	Enumeration
FilePath	Path of the DF or Subdirectory. Repetition of 2 bytes	M	2*N Hex
Shareable	File is shareable or not. If not set, default value is true.	O	Boolean
AccessConditions2G		O / C	
Create	Values are as follows: <ul style="list-style-type: none"> ALW CHV1 CHV2 ADM1, 2...9,10,11 NEV 	M	Enumeration
Delete	Values are as follows: <ul style="list-style-type: none"> ALW CHV1 CHV2 ADM1, 2...9,10,11 NEV 	M	Enumeration
AccessConditions3G		O / C	
DeleteSelf	Values are as follows (Min 1 Max 29): <ul style="list-style-type: none"> ALW UPIN GPIN1, 2, 3...8 ADM1, 2...9,10 LPIN1, 2, 3...8 NEV 	M / R	Enumeration
Operator	Type of Operation : <ul style="list-style-type: none"> OR AND If not available, default value is OR	O	Enumeration
TerminateDF	Values are as follows (Min 1 Max 29): <ul style="list-style-type: none"> ALW UPIN GPIN1, 2, 3...8 LPIN1, 2, 3...8 ADM1, 2...9,10 NEV 	M / R	Enumeration
Operator	Type of Operation : <ul style="list-style-type: none"> OR AND If not available, default value is OR	O	Enumeration



	Activate	Values are as follows (Min 1 Max 29): <ul style="list-style-type: none"> ▪ ALW ▪ UPIN ▪ GPIN1, 2, 3...8 ▪ LPIN1, 2, 3...8 ▪ ADM1, 2...9,10 ▪ NEV 	M / R	Enumeration
	Operator	Type of Operation : <ul style="list-style-type: none"> ▪ OR ▪ AND If not available, default value is OR	O	Enumeration
	Deactivate	Values are as follows (Min 1 Max 29): <ul style="list-style-type: none"> ▪ ALW ▪ UPIN ▪ GPIN1, 2, 3...8 ▪ LPIN1, 2, 3...8 ▪ ADM1, 2...9,10 ▪ NEV 	M / R	Enumeration
	Operator	Type of Operation : <ul style="list-style-type: none"> ▪ OR ▪ AND If not available, default value is OR	O	Enumeration
	CreateChildDF	Values are as follows (Min 1 Max 29): <ul style="list-style-type: none"> ▪ ALW ▪ UPIN ▪ GPIN1, 2, 3...8 ▪ LPIN1, 2, 3...8 ▪ ADM1, 2...9,10 ▪ NEV 	M / R	Enumeration
	Operator	Type of Operation : <ul style="list-style-type: none"> ▪ OR ▪ AND If not available, default value is OR	O	Enumeration
	CreateChildEF	Values are as follows (Min 1 Max 29): <ul style="list-style-type: none"> ▪ ALW ▪ UPIN ▪ GPIN1, 2, 3...8 ▪ LPIN1, 2, 3...8 ▪ ADM1, 2...9,10 ▪ NEV 	M / R	Enumeration
	Operator	Type of Operation : <ul style="list-style-type: none"> ▪ OR ▪ AND If not available, default value is OR	O	Enumeration
	DeleteChild	Values are as follows (Min 1 Max 29): <ul style="list-style-type: none"> ▪ ALW ▪ UPIN ▪ GPIN1, 2, 3...8 ▪ LPIN1, 2, 3...8 ▪ ADM1, 2...9,10 ▪ NEV 	M / R	Enumeration
	Operator	Type of Operation : <ul style="list-style-type: none"> ▪ OR ▪ AND If not available, default value is OR	O	Enumeration
	EFArrID ⁵	File Identifier of EF ARR	O	2 Hex
	EFArrRecordNb ⁵	Record Number (SE 01)	O	1 Int
	OTAAccess ³	Mapping of Keypset Reference and TAR	O / R	Not more than 16 repetitions



	KeySetReference	Range 00 to 0F	M	Enumeration
	TAR	TAR value of RFM Instance	M	3 Hex
ADF			O R	
	FileName	Name of the ADF. This can be used to provision EF DIR	M	Variable String
	FileDescription	Free text to allow to add a quick description of the ADF	O	Variable String
	FileID	File identifier	M	2 Hex
	AID	AID of the Application	M	5 to 16 Hex
	FileType	Type of the file. E.g.: ▪ USIM ▪ ISIM	M	Enumeration
	FilePath	Path of the ADF. Repetition of 2 bytes	M	2*N Hex
	AID_ETSI_102226_DAP	If this field is present: The linked SD is not the ISD. The value given is the SD AID value. If this field is not present: The linked SD is the ISD.	O	5 to 16 Hex
	Shareable	File is shareable or not. If not set, default value is true.	O	Boolean
	AccessConditions2G		O	
	Create	Values are as follows: ▪ ALW ▪ CHV1 ▪ CHV2 ▪ ADM1, 2...9,10,11 ▪ NEV	M	Enumeration
	Delete	Values are as follows: ▪ ALW ▪ CHV1 ▪ CHV2 ▪ ADM1, 2...9,10,11 ▪ NEV	M	Enumeration
	AccessConditions3G		M	
	DeleteSelf	Values are as follows (Min 1 Max 29): ▪ ALW ▪ UPIN ▪ GPIN1, 2, 3...8 ▪ LPIN1, 2, 3...8 ▪ ADM1, 2...9,10 ▪ NEV	M / R	Enumeration
	Operator	Type of Operation : ▪ OR ▪ AND If not available, default value is OR	O	Enumeration
	TerminateDF	Values are as follows (Min 1 Max 29): ▪ ALW ▪ UPIN ▪ GPIN1, 2, 3...8 ▪ LPIN1, 2, 3...8 ▪ ADM1, 2...9,10 ▪ NEV	M / R	Enumeration



	Operator	Type of Operation : <ul style="list-style-type: none"> ▪ OR ▪ AND If not available, default value is OR	O	Enumeration
	Activate	Values are as follows (Min 1 Max 29): <ul style="list-style-type: none"> ▪ ALW ▪ UPIN ▪ GPIN1, 2, 3...8 ▪ LPIN1, 2, 3...8 ▪ ADM1, 2...9,10 ▪ NEV 	M / R	Enumeration
	Operator	Type of Operation : <ul style="list-style-type: none"> ▪ OR ▪ AND If not available, default value is OR	O	Enumeration
	Deactivate	Values are as follows (Min 1 Max 29): <ul style="list-style-type: none"> ▪ ALW ▪ UPIN ▪ GPIN1, 2, 3...8 ▪ LPIN1, 2, 3...8 ▪ ADM1, 2...9,10 ▪ NEV 	M / R	Enumeration
	Operator	Type of Operation : <ul style="list-style-type: none"> ▪ OR ▪ AND If not available, default value is OR	O	Enumeration
	CreateChildDF	Values are as follows (Min 1 Max 29): <ul style="list-style-type: none"> ▪ ALW ▪ UPIN ▪ GPIN1, 2, 3...8 ▪ LPIN1, 2, 3...8 ▪ ADM1, 2...9,10 ▪ NEV 	M / R	Enumeration
	Operator	Type of Operation : <ul style="list-style-type: none"> ▪ OR ▪ AND If not available, default value is OR	O	Enumeration
	CreateChildEF	Values are as follows (Min 1 Max 29): <ul style="list-style-type: none"> ▪ ALW ▪ UPIN ▪ GPIN1, 2, 3...8 ▪ LPIN1, 2, 3...8 ▪ ADM1, 2...9,10 ▪ NEV 	M / R	Enumeration
	Operator	Type of Operation : <ul style="list-style-type: none"> ▪ OR ▪ AND If not available, default value is OR	O	Enumeration
	DeleteChild	Values are as follows (Min 1 Max 29): <ul style="list-style-type: none"> ▪ ALW ▪ UPIN ▪ GPIN1, 2, 3...8 ▪ LPIN1, 2, 3...8 ▪ ADM1, 2...9,10 ▪ NEV 	M / R	Enumeration
	Operator	Type of Operation : <ul style="list-style-type: none"> ▪ OR ▪ AND If not available, default value is OR	O	Enumeration
	EFArrID	File Identifier of EF ARR	O	2 Hex



	EF	EFArrRecordNb	Record Number (SE 01)	O	1 Int
		OTAAccess ³	Mapping of Keypset Reference and TAR	O / R	Not more than 16 repetitions
		KeySetReference	Range 00 to 0F	M	Enumeration
		TAR	TAR value of RFM Instance	M	3 Hex
	EF			O R	
		FileName	Name of the EF	M	Variable String
		FileDescription	Free text to allow to add a quick description of the EF	O	Variable String
		FileID	File identifier	M	2 Hex
		FileType	Type of EF. The values are as follows: <ul style="list-style-type: none"> ▪ TR ▪ LF ▪ CY ▪ Link 	M	Enumeration
		FilePath	Path of the EF Repetition of 2 bytes	M	2*N Hex
		SFI	SFI (Short File Identifier) Referencing used	O	1 Hex
		LCSI	Life Cycle Status Integer. The values are as follows: <ul style="list-style-type: none"> ▪ Operational ▪ Not Operational ▪ Initialised ▪ Not Initialised Note: see below link between this and telecom standard : Initialised= initialization state Operational= Operational state - activated Not Operational= Operational state - deactivated Not Initialised= Termination state	M	Enumeration
		LinkFilePath	File to which this file is linked. Note: Item is only present if the file is Link file (FileType is Link). Repetition of 2 bytes	C	2*N Hex
		Shareable	File is shareable or not. If not set, default value is true.	O	Boolean
		Readable	File is readable or not. If not available, default value is false.	O	Boolean
		AccessConditions2G		O / C	
		Read	Values are as follows: <ul style="list-style-type: none"> ▪ ALW ▪ CHV1 ▪ CHV2 ▪ ADM1, 2...9,10,11 ▪ NEV 	M	Enumeration
		Update	Values are as follows: <ul style="list-style-type: none"> ▪ ALW ▪ CHV1 ▪ CHV2 ▪ ADM1, 2...9,10,11 ▪ NEV 	M	Enumeration



	Increase	<p>Values are as follows:</p> <ul style="list-style-type: none"> ▪ ALW ▪ CHV1 ▪ CHV2 ▪ ADM1, 2...9,10,11 ▪ NEV 	O	Enumeration
	Resize	<p>Values are as follows:</p> <ul style="list-style-type: none"> ▪ ALW ▪ CHV1 ▪ CHV2 ▪ ADM1, 2...9,10,11 ▪ NEV 	M	Enumeration
	Rehabilitate	<p>Values are as follows:</p> <ul style="list-style-type: none"> ▪ ALW ▪ CHV1 ▪ CHV2 ▪ ADM1, 2...9,10,11 ▪ NEV 	M	Enumeration
	Invalidate	<p>Values are as follows:</p> <ul style="list-style-type: none"> ▪ ALW ▪ CHV1 ▪ CHV2 ▪ ADM1, 2...9,10,11 ▪ NEV 	M	Enumeration
	AccessConditions3G		O / C	
	Read	<p>Values are as follows (Min 1 Max 29):</p> <ul style="list-style-type: none"> ▪ ALW ▪ UPIN ▪ GPIN1, 2, 3...8 ▪ LPIN1, 2, 3...8 ▪ ADM1, 2...9,10 ▪ NEV 	M / R	Enumeration
	Operator	<p>Type of Operation :</p> <ul style="list-style-type: none"> ▪ OR ▪ AND <p>If not available, default value is OR</p>	O	Enumeration
	Update	<p>Values are as follows (Min 1 Max 29):</p> <ul style="list-style-type: none"> ▪ ALW ▪ UPIN ▪ GPIN1, 2, 3...8 ▪ LPIN1, 2, 3...8 ▪ ADM1, 2...9,10 ▪ NEV 	M / R	Enumeration
	Operator	<p>Type of Operation :</p> <ul style="list-style-type: none"> ▪ OR ▪ AND <p>If not available, default value is OR</p>	O	Enumeration
	Increase	<p>Values are as follows (Min 1 Max 29):</p> <ul style="list-style-type: none"> ▪ ALW ▪ UPIN ▪ GPIN1, 2, 3...8 ▪ LPIN1, 2, 3...8 ▪ ADM1, 2...9,10 ▪ NEV 	O / R	Enumeration
	Operator	<p>Type of Operation :</p> <ul style="list-style-type: none"> ▪ OR ▪ AND <p>If not available, default value is OR</p>	O	Enumeration



	Resize	Values are as follows (Min 1 Max 29): <ul style="list-style-type: none"> ▪ ALW ▪ UPIN ▪ GPIN1, 2, 3...8 ▪ LPIN1, 2, 3...8 ▪ ADM1, 2...9,10 ▪ NEV 	M / R	Enumeration
	Operator	Type of Operation : <ul style="list-style-type: none"> ▪ OR ▪ AND If not available, default value is OR	O	Enumeration
	Activate	Values are as follows (Min 1 Max 29): <ul style="list-style-type: none"> ▪ ALW ▪ UPIN ▪ GPIN1, 2, 3...8 ▪ LPIN1, 2, 3...8 ▪ ADM1, 2...9,10 ▪ NEV 	M / R	Enumeration
	Operator	Type of Operation : <ul style="list-style-type: none"> ▪ OR ▪ AND If not available, default value is OR	O	Enumeration
	Deactivate	Values are as follows (Min 1 Max 29): <ul style="list-style-type: none"> ▪ ALW ▪ UPIN ▪ GPIN1, 2, 3...8 ▪ LPIN1, 2, 3...8 ▪ ADM1, 2...9,10 ▪ NEV 	M / R	Enumeration
	Operator	Type of Operation : <ul style="list-style-type: none"> ▪ OR ▪ AND If not available, default value is OR	O	Enumeration
	Deleteltself	Values are as follows (Min 1 Max 29): <ul style="list-style-type: none"> ▪ ALW ▪ UPIN ▪ GPIN1, 2, 3...8 ▪ LPIN1, 2, 3...8 ▪ ADM1, 2...9,10 ▪ NEV 	M / R	Enumeration
	Operator	Type of Operation : <ul style="list-style-type: none"> ▪ OR ▪ AND If not available, default value is OR	O	Enumeration
	EFArrID ⁵	File Identifier of EF ARR	O	2 Hex
	EFArrRecordNb ⁵	Record Number (SE 01)	O	1 Int
	OTAAccess ³	Mapping of Keypset Reference and TAR	O / R	Not more than 16 repetitions
	KeySetReference	Range 00 to 0F	M	Enumeration
	TAR	TAR value of RFM Instance	M	3 Hex
	EFContent	EFContent is not available in case of EFLink	O	
	NbOfRecords	Number of records (Linear Fixed or Cyclic File only)	C	1 Int
	RecordSize	Size of record (Linear Fixed or Cyclic File only)	C	1 Int



	FileSize	Size of a transparent file (used for this type of file only)	C	2 Int
	DataGenerationType	Static or Dynamic	M	Enumeration
	Data Value ⁴	Value of fixed data Min 1 Max 254	O/R	Variable Hex

³ This data will be superseded by the File Access information in [Section 5](#), in the event of a conflict

⁴ If the data value field is empty and the data generation type is dynamic, see the process flow to know how the data will be provided.

⁵ If EFArrID and EFArrRecordNb are filled, it is under user responsibility to ensure that the content is consistent with Acces Condition already defined.



4. Card Management

Item / Structure	Function	Status	Value Type
Card Management	To capture details about PIN management, Admin codes	M	
CHV_PUK_Settings	Defines the settings for CHV and PUK codes	O/R	
CHV_PUKName	Name of the CHV or PUK code. Example: CHV1, CHV2, CHV1x, CHV2y (to be used for Multiple IMSI profiles), PUK1	M	Enumeration
CHV_PUKLength	Number of bytes defined for the secret code (min 4 max 8)	M	1 Int
CHV_PUKStatus	Defines if the code is enabled (Y) or disabled (N)	M	Boolean
CHV_PUKMaximumRetryNumber	Maximum number of presentations	M	1 Int
CHV_PUKRetryNumberLeft	Number of left presentations (0 if the code is blocked)	O	1 Int
DataGenerationType	Static or Dynamic	M	Enumeration
CHV_PUK_Value	Hex value of the CHV or PUK	O	8 Hex
PIN_PUK_Settings	Defines the settings for PIN and PUK codes	O/R	
PIN_PUKName	Name of the PIN code. Example: PIN1, PIN2, UPIN,...	M	Enumeration
PIN_PUKLength	Number of bytes defined for the secret code (min 4 max 8)	M	1 Int
PIN_PUKStatus	Defines if the code is enabled (Y) or disabled (N)	M	Boolean
PIN_PUKMaximumRetryNumber	Maximum number of presentations	M	1 Int
PIN_PUKRetryNumberLeft	Number of left presentations (0 if the code is blocked)	O	1 Int
DataGenerationType	Static or Dynamic	M	Enumeration
PIN_PUK_Value	Hex value of the PIN or PUK	O	8 Hex
ADF_AID	AID of the ADF, in case of a local PIN is defined	O	5 to 16 Hex
Mapping2G3G	Defines if this code is mapped with a PIN. The value is the name of the PIN it is mapped with: <ul style="list-style-type: none"> ▪ CHV1 ▪ CHV2 ▪ ADM1...ADM11 If not present, the CHV is not mapped.	O	Enumeration
ADM_Settings	Defines the settings for ADM codes	R	Max 11 2G card Max 10 2G/3G card
ADMName	Name of the ADM code. Example: ADM1, ADM2, ...	M	Enumeration
ADMLength	Number of bytes defined for the secret code (fixed value: 8)	M	1 Int
ADMStatus	Defines if the code is enabled (Y) or disabled (N)	M	Boolean
ADMMaximumRetryNumber	Maximum number of presentations	M	1 Int
ADMRetryNumberLeft	Number of left presentations	O	1 Int



	DataGenerationType	Static or Dynamic	M	Enumeration
	ADM_Value	Hex value of the ADM	O	8 Hex
SecurityDomain		Defines the settings of Security Domains	O / R	
	SD_Name	Name of the SD	M	Variable String
	SD_AID	AID defined for the SD	M	5 to 16 Hex
	SDPrivileges		M	
	DAPVerificationAllowed	Defines if the DAP Verification is allowed or not (Y/N)	M	Boolean
	DelegatedManagement	Defines if the Delegated Management is allowed or not (Y/N)	M	Boolean
	MandatedDAPVerification	Defines if SD will mandate DAP verification in any application loading	M	Boolean
	PriorityLevel	SD Priority	M	1 Hex
	MinSecurityLevel	SD level MSL.	O	3 Hex
	KeySetVersionInformation	KeySetVersion Information (See section 5.1 of this document) Min1 Max 127	R	1 Hex
OTASettings		Defines the general settings used for Over the Air	O	
	UserNotificationMessage	Replacement text message for SMS data download available (Y/N)	O	
	ValueOK	Replacement Text for successful delivery	O	140 String
	ValueNOK	Replacement Text for unsuccessful delivery	O	140 String
	ValueCC	Replacement Text for Concatenated Messages	O	140 String
	TPOA_Checking	Indicates whether the TP-OA field shall be checked or not (Y / N)	O/R	
	TPOA_Value	TP-OA value required if the TPOA field is to be checked (see above field) Coding of TPOA value according to GSM 04.11	C	Variable Hex
	TPOA_TAR	Linked TAR to TPOA_Value	C	3 Hex
Authentication		Defines the requirements needed for Authentication	M	
	Authentication2G		O / R	
	Authentication2GAlgorithm	Algorithm used for a 2G Context (COMP128-1, COMP128-2, COMP128-3, COMP128-4 (AES), COMP128-4 (GSM-MILENAGE), XOR, Proprietary)	M	Enumeration
	Authentication2GCounter	Counter linked to the 2G Authentication. Number of times authentications allowed	O	Variable Hex
	Algo2GMappedTo3G	Defines if the 2G and 3G algorithms should share keys (Y / N).	M	Boolean
	Authentication3G		O / R	
	Authentication3GAlgorithm	Algorithm used for a 3G Context : <ul style="list-style-type: none"> MILENAGE Dummy Proprietary 	M	Enumeration
	Authentication3GSeqNb	Sequence number linked to the 3G Authentication activated or not (Y / N)	O	Boolean



Authentication3GFreshnessTest	Defines if the freshness test is activated or not (acc. 33.102, C2.2) SEQ > SEQMS(i) activated or not (Y/N)	O	Boolean
Authentication3GAgeLimitTest	Defines if age limit test (acc. 33.102, C2.2) is set or not SEQMS - SEQ < L activated or not (Y/N)	O	Boolean
Authentication3GWrapAroundProtection	Defines if protection against wrap around (acc. 33.102, C2.1) is set or not SEQ-SEQMS ≤ Delta activated or not (Y/N)	O	Boolean
Authentication3GRFU	RFU	O	Boolean
Authentication3GDeltaValue	Value of Delta	C	Variable Hex
Authentication3G_L_Value	Value of L	C	Variable Hex
Authentication3GRESLength	Value of the RES length	M	1 Hex
Authentication3G_Ri_and_Ci_ValueType	Default or Customer Specific	M	Enumeration
Authentication3GDataGeneration	Static or Dynamic	M	Enumeration
Authentication3GAMFDefinition	Definition of the AMF value: <ul style="list-style-type: none"> • 00 00 • Use AMF* of incoming response 	O	Enumeration

Algorithm elements can be repeatable but the first one defined is the default one.

Default values are the values suggested by the standard, and Customer Specific means they will be exchanged in a secured way between MNO and provider.



5. OTA Access Conditions

Item / Structure	Function	Status	Value Type
Applications	To capture details about the applications installed on the card, AID structure, applet status.	M	
RFMApplication	RFM applications description Min 0 Max 16	O / R	
TAR	Toolkit reference application	M	3 Hex
MSL	Minimum Security Level required (SPI 1)	M	1 Hex
MSLExtension	Optional Bytes (SPI2/KiC/KiD)	O	3 Hex
KeySetVersionInformation	KeySetVersion Information (See section 5 of this document) Min 1 Max 16	M / R	1 Hex
TargetApplicationRFMType		M	
TargetApplication	GSM/USIM/UICC	M	Enumeration
USIM_AID	Optional depending if the target application is an USIM	O	5 to 16 Hex
LinkToSecurityDomain	Default ISD AID – if empty, refers to Issuer Security Domain	O	5 to 16 Hex
FileAccess		M	
AccessDomainType	Type of Access domain The Value will be on of the following: <ul style="list-style-type: none"> ▪ Full Access ▪ No Access ▪ APDU Mechanism ▪ UICC APDU ▪ RFU ▪ Proprietary 	M	Enumeration
SecurityCondition	Files Access right for the application when APDU Mechanism or UICC APDU is selected (See example 4.1)	O	2 (APDU) or 3 (UICC APDU) Hex
RAMApplication	RAM description	O	
TAR	Toolkit reference application	M	3 Hex
MSL	Minimum Security Level required (SPI 1) – Minimum Security Level = CC	M	1 Hex
MSLExtension	Optional Bytes (SPI2/KiC/KiD)	O	3 Hex
KeySetVersionInformation	KeySetVersion Information (See section 5 of this document) Min 1 Max 16	M / R	1 Hex



5.1 Example

APDU access mechanism

SIM access mechanism

Possible combinations of fulfilled Access Conditions are shown below:

ADD value	Applet access condition fulfilled
'00 00'	No access
'00 01'	ALWays
'00 02'	CHV1
'00 03'	ALWays and CHV1
'00 04'	CHV2
'00 05'	ALWays and CHV2
'00 06'	CHV1 and CHV2
:	:
'00 10'	ADM1
:	:
'00 20'	ADM2
:	:
'00 22'	ADM2 and CHV1
:	:
'01 00'	ADM5
:	:
'40 00'	ADM11
:	:
'41 37'	ADM11 and ADM5 and ADM2 and ADM1 and CHV2 and CHV1 and ALWays
:	:

If this is not supported the SIM Vendor shall maps his OTA technology on the APDU Mechanism.

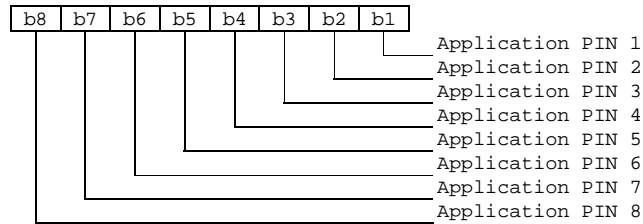


UICC APDU access mechanism

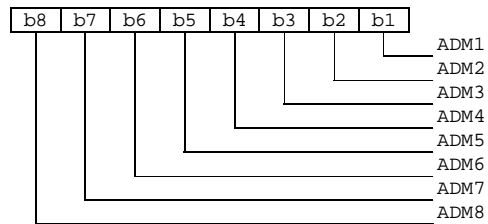
From ETSI TS102226 Section 8.2.1.3.2.5.2

The UICC access mechanism shall be coded as follows:

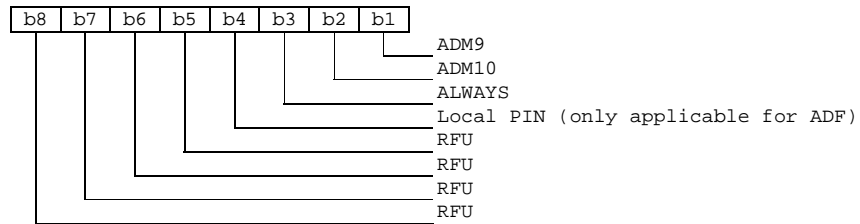
Byte 1:



Byte 2:



Byte 3:



6. Key Set Definition

Item / Structure	Function	Status	Value Type
KeySetSettings	Defines the settings for the Keysets Associated to an SD	M	
KeySetVersionInformation	KeySetVersion Information Min 1 Max 127	M / R	
KeySetVersionInformationValue	Defines version between 01 hex and 7F hex	M	1 Hex
KeyIdentifier	Key Identifier Min 1 Max 128	M / R	
KeyIdentifierValue	Defines version between 00 hex and 7F hex	M	1 Hex
KeyType	Algorithm associated and to be used with the Keyset <ul style="list-style-type: none"> ▪ DES_CBC ▪ 3DES2_CBC ▪ 3DES3_CBC ▪ DES_ECB ▪ AES ▪ RSA ▪ Proprietary 	M	Enumeration
KeyLength	Number of bytes defined for the key – (8 – 16 – 24)	M	Enumeration
DataGenerationType	Static or Dynamic	M	Enumeration
Data ⁴	Value of a fixed key	O	Variable Hex
CounterValueGeneration		O	
CounterValueGenerationType	Values of the counter associated to a keyset - Static or Dynamic	M	Enumeration
Data ⁴	Value of a fixed counter	O	5 Hex
CounterGAP (Window)	GAP associated to a counter	O	5 Hex
CryptographicChecksumAcceptedLength	Length of the accepted CC (4 – 8 ... - 48 Bytes)	O	1 Hex

⁴ If the data field is empty and the data generation type is dynamic, see the process flow to know how the data will be provided.



7. Applets

Please note that the installation order of the packages is intended to be the one as defined in the Applet section of the profile.

Item / Structure	Function	Status	Value Type
Applets	Defines the applets / packages	O	
Package		M / R	
PackageProvided	This defines if the package is delivered by the customer. (Y/N) - If the package is not provided, the comment field will be mandatory. - If the package is provided, the other parameters (fields under package definition) will follow the indication M/O	M	Boolean
Comment	Details about the package to load if it's not provided	C	Variable String
PackageDefinition		C	
PackageName	Name of the package as specified in the CAP file	M	Variable String
PackageAID	The AID of a Javacard Package	M	5 to 16 Hex
FileType	This defines the type of package sent by the customer. The value shall be as follows: <ul style="list-style-type: none"> ▪ LOP ▪ IJC ▪ CAP ▪ HEX ▪ JAR 	M	Enumeration
FullFileName	Defines the path to the file that contain the applet to load	M	Variable String
FilePackageSignature	MD5 File Package Signature	O	Variable String
SecurityDomainAID	See spec Open Platform 2.1.1	O	5 to 16 Hex
C6	Package Non volatile Memory size	O	2 Hex
C7	Installation Volatile Memory sizes	O	2 Hex
C8	Installation Non Volatile Memory size	O	2 Hex
DAPKeyReference	This defines the DAP key to use.	O	Variable String
ApplicationPersoScript		O	
Level	This describes the level where the specific perso scripts must be run. The values are as follows: <ul style="list-style-type: none"> ▪ BFSC (Before File System Creation) ▪ AFSC (After File System Creation) ▪ AI (After Instantiation) 	M	Enumeration
Script (Commands)	Command to be executed for applet personalisation	M	Variable String



	SpecificFilePath	This defines the path of the files specific to a package.	O/R	12 Hex
Applet				
	AppletName	Name of the applet as specified in the code file	M	Variable String
	AppletClassAID	The AID of the applet class	M	5 to 16 Hex
Instance				
	InstanceName	Applet name as specified in code file	M	Variable String
	ApplicationInstanceAID	The AID to be assigned to the instantiation of the applet - See spec Open Platform 2.1.1	M	5 to 16 Hex
	ProductionStatus	This defines the state of the applet after perso.	M	
	Installed	Is this applet installed: Y / N	C	Boolean
	MadeSelectable	Is this applet made selectable : Y / N	C	Boolean
	ExtraditionAID	AID of the SD after installation (if this field is present than the instance is extradited)	O	5 to 16 Hex
	C9	Application Specific Parameters	O	Variable Hex
	C7	Installation Volatile Memory sizes	O	2 Hex
	C8	Installation Non Volatile Memory size	O	2 Hex
	ToolkitTag	Toolkit Applet specific Parameters – 03.48 section A.1.1.4.2.1	O	
	UICCSpecific	This is a flag to be positioned according to the spec 102.226 (section 8.2.1.3.2.2). The value shall be Y or N	M	Boolean
	PriorityLevel	Applet Priority	M	1 Hex
	MinSecurityLevel	Applet level MSL.	O	3 Hex
	MaxMenuEntryTextLength	Menu Entry Max Length	M	1 Hex
	MaxNbOfMenuEntries	Number of Entries to allocate	O	1 Hex
	AccessDomain		M	
	AccessDomainType	Type of Access domain <ul style="list-style-type: none"> • Full Access • No Access • APDU Mechanism • UICC APDU • RFU • Proprietary 	M	Enumeration
	AccessDomainCode	Files Access right for the application when APDU Mechanism and UICC APDU is selected	O	2 (APDU) or 3 (UICC APDU) Hex
	MaxNumberOfTimers	Maximum number of timers allowed	M	1 Hex
	MenuEntriesPosition	Menu entries position	C	Variable Hex



	MaxNumberOfChannels	Maximum number of channels	O	1 Hex
	TARValue	Assigned TAR values (1 Or more) (Rel6)	O/R	3 Hex
	UICCDAPSignature	UICC Toolkit Parameters DAP Signature (Rel6)	O	Variable Hex
	UICCAccessApplicationParameters	UICC Access Application Parameters (Rel6)	O/R	
	ADFAID	If empty, it refers to UICC	M	5 to 16 Hex
	AccessDomain	Access Domain for the ADF	M	
	AccessDomainType	Type of Access domain : <ul style="list-style-type: none"> ▪ Full Access ▪ No Access ▪ APDU Mechanism ▪ UICC APDU ▪ RFU ▪ Proprietary 	M	Enumeration
	AccessDomainCode	Files Access right for the application when APDU Mechanism and UICC APDU is selected (See section 102.226 8.2.1.3.2.5.2)	O	2 (APDU) or 3 (UICC APDU) Hex
	AccessDomainDAP	Access Domain DAP	O	Variable Hex
	MaxNumberOfService	Maximum number of services for this application instance (Rel6)	C	1 Hex
	UICCAdministrativeAccessApplicationParameters	UICC Administrative Access Application Parameters (Rel6)	O/R	
	ADFAID	If empty, it refers to UICC	M	5 to 16 Hex
	AdministrativeAccessDomain	Administrative Access Domain for the ADF	M	
	AccessDomainType	Type of Access domain : <ul style="list-style-type: none"> ▪ Full Access ▪ No Access ▪ APDU Mechanism ▪ UICC APDU ▪ RFU ▪ Proprietary 	M	Enumeration
	AccessDomainCode	Files Access right for the application when APDU Mechanism and UICC APDU is selected (See section 102.226 8.2.1.3.2.5.2)	O	2 (APDU) or 3 (UICC APDU) Hex
	AdministrativeAccessDomainDAP	Administrative Access Domain DAP	O	Variable Hex



8. File StructureBody

The delivered xmls have to be signed as defined in the w3 org specifications (<http://www.w3.org/TR/xmlsig-core/>). You will find hereunder a simple example of a detached signature of the content of the HTML4 in XML specification.

```
[s01] <Signature Id="MyFirstSignature"
xmlns="http://www.w3.org/2000/09/xmlsig#">
  [s02]   <SignedInfo>
    [s03]   <CanonicalizationMethod
Algorithm="http://www.w3.org/TR/2001/REC-xml-c14n-20010315" />
    [s04]   <SignatureMethod
Algorithm="http://www.w3.org/2000/09/xmlsig#dsa-sha1" />
    [s05]   <Reference
URI="http://www.w3.org/TR/2000/REC-xhtml1-20000126/">
    [s06]     <Transforms>
    [s07]       <Transform Algorithm="http://www.w3.org/TR/2001/REC-xml-c14n-20010315" />
    [s08]     </Transforms>
    [s09]     <DigestMethod Algorithm="http://www.w3.org/2000/09/xmlsig#sha1" />
    [s10]     <DigestValue>j6lwx3rvEPO0vKtMup4NbeVu8nk=</DigestValue>
    [s11]   </Reference>
    [s12] </SignedInfo>
    [s13]   <SignatureValue>MC0CFFrVLtRlk=...</SignatureValue>
    [s14]   <KeyInfo>
    [s15a]     <KeyValue>
    [s15b]       <DSAKeyValue>
    [s15c]         <P>...</P><Q>...</Q><G>...</G><Y>...</Y>
    [s15d]       </DSAKeyValue>
    [s15e]     </KeyValue>
    [s16]   </KeyInfo>
    [s17] </Signature>
```

Notes:

- The sha1 algorithm used above is not the only one available.
- The KeyInfo section is optional.
- The chosen algorithm is to be agreed by the different parties (MNO and Card Vendors)



9. OTA Mechanism References

Relevant specification for ETSI Rel. 5 is:

- 3GPP 23.048
- TS 31.102
- 3GPP 43.019
- ETSI 300 942

Relevant specifications for ETSI Rel. 6 are:

- 3GPP 31.115
- 3GPP 31.116
- 3GPP 31.130
- TS 102 224
- TS 102 225
- TS 102 226
- TS 102 241



10. Open Platform and Global Platform References

Relevant specification for Open Platform is OP 2.0.1

Relevant specification for Global Platform is GP Card Spec 2.1.1



11. Restrictions and implementation advice

In order to define a xsd format that would avoid as many potential errors as possible, the following restrictions have been decided:

- The fields declared as variable strings should not exceed 256 characters
- The comment fields should not exceed 32*1024 characters
- The script commands should not exceed 256 * 1024 characters

All these restrictions will be implemented in the xsd thanks to data types restrictions. The enumeration type will be used for any type of fields which has only a given pool of values (i.e. Access Domain Type, Data Generation Type...)

For fields which value is not given by a pool, but that must have a given format, it has been decided, to avoid as many errors as possible, to use the pattern facets in the xsd.

```
<xs:simpleType name="FilePath_Type">
  <xs:restriction base="xs:string">
    <xs:pattern value="([0-9A-F]{4}){1,6}"/>
  </xs:restriction>
</xs:simpleType>
```

The following example values are accepted: 3F00, 3F002F05, 3F007F106F3A,...



12. Profile Naming convention

The file shall be respect the following convention: **LLLCCC_nnn_Vx.x.x (.UXP)**

With :

LLL MCC for Mobile Country Code

CCC MNC for Mobile Network Code

In case 2 characters are used, the first one is to be filled by underscore ‘_’

nnn customer Profile Name (variable length)

x.x.x customer Version (variable length could be x.x.xxx)

Example:

222_01_profilename_V1.1.0.uxp (Italy - TIM)

722341_profilename_V2.0.010.uxp (Argentina - Personal)

Remarks:

- The File name size is limited to 64 characters.
- The space on Profile Name and Profile Version shall be removed.
- If the file is invalided (according the XML Schema), the label “_draft” will be added on the profile naming:



13. SIM Profile Mark-Up Language – XML Schema (XSD file)

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns="http://www.simalliance.org/SIMProfile/2.0" xmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://www.simalliance.org/SIMProfile/2.0" elementFormDefault="qualified" id="NewDataSet">
  <xs:simpleType name="Common_String_Type">
    <xs:restriction base="xs:string">
      <xs:maxLength value="256"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="Free_Text_Type">
    <xs:restriction base="xs:string">
      <xs:maxLength value="32768"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="SMSString_Type">
    <xs:restriction base="xs:string">
      <xs:maxLength value="140"/>
      <xs:minLength value="1"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="ScriptString_Type">
    <xs:restriction base="xs:string">
      <xs:maxLength value="262144"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="Byte_Type">
    <xs:restriction base="xs:hexBinary">
      <xs:length value="1"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="TwoBytes_Type">
    <xs:restriction base="xs:hexBinary">
      <xs:length value="2"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="TwoOrThreeBytes_Type">
    <xs:restriction base="xs:hexBinary">
      <xs:minLength value="2"/>
      <xs:maxLength value="3"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="ThreeBytes_Type">
    <xs:restriction base="xs:hexBinary">
      <xs:length value="3"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="HexString_Type">
    <xs:restriction base="xs:hexBinary">
      <xs:minLength value="1"/>
      <xs:maxLength value="256"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="MF_DF_Type">
    <xs:restriction base="xs:string">
      <xs:enumeration value="MF"/>
      <xs:enumeration value="DF"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="FileID_Type">
    <xs:restriction base="xs:hexBinary">
      <xs:length value="2"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="FilePath_Type">
    <xs:restriction base="xs:string">
      <xs:pattern value="([0-9A-F]{4}){1,6}"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="AID_Type">
    <xs:restriction base="xs:hexBinary">
      <xs:minLength value="5"/>
    </xs:restriction>
  </xs:simpleType>
</xs:schema>
```



```

        <xs:maxLength value="16"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="AID_FileType_Type">
    <xs:restriction base="xs:string">
        <xs:enumeration value="USIM"/>
        <xs:enumeration value="ISIM"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="EF_Type">
    <xs:restriction base="xs:string">
        <xs:enumeration value="TR"/>
        <xs:enumeration value="LF"/>
        <xs:enumeration value="CY"/>
        <xs:enumeration value="Link"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="LCSI_Type">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Operational"/>
        <xs:enumeration value="Not Operational"/>
        <xs:enumeration value="Initialised"/>
        <xs:enumeration value="Not Initialised"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="AccessConditions2GValueEnum_Type">
    <xs:restriction base="xs:string">
        <xs:enumeration value="ALW"/>
        <xs:enumeration value="CHV1"/>
        <xs:enumeration value="CHV2"/>
        <xs:enumeration value="ADM1"/>
        <xs:enumeration value="ADM2"/>
        <xs:enumeration value="ADM3"/>
        <xs:enumeration value="ADM4"/>
        <xs:enumeration value="ADM5"/>
        <xs:enumeration value="ADM6"/>
        <xs:enumeration value="ADM7"/>
        <xs:enumeration value="ADM8"/>
        <xs:enumeration value="ADM9"/>
        <xs:enumeration value="ADM10"/>
        <xs:enumeration value="ADM11"/>
        <xs:enumeration value="NEV"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="AccessConditions3GValueEnum_Type">
    <xs:restriction base="xs:string">
        <xs:enumeration value="ALW"/>
        <xs:enumeration value="UPIN"/>
        <xs:enumeration value="GPIN1"/>
        <xs:enumeration value="GPIN2"/>
        <xs:enumeration value="GPIN3"/>
        <xs:enumeration value="GPIN4"/>
        <xs:enumeration value="GPIN5"/>
        <xs:enumeration value="GPIN6"/>
        <xs:enumeration value="GPIN7"/>
        <xs:enumeration value="GPIN8"/>
        <xs:enumeration value="LPIN1"/>
        <xs:enumeration value="LPIN2"/>
        <xs:enumeration value="LPIN3"/>
        <xs:enumeration value="LPIN4"/>
        <xs:enumeration value="LPIN5"/>
        <xs:enumeration value="LPIN6"/>
        <xs:enumeration value="LPIN7"/>
        <xs:enumeration value="LPIN8"/>
        <xs:enumeration value="ADM1"/>
        <xs:enumeration value="ADM2"/>
        <xs:enumeration value="ADM3"/>
        <xs:enumeration value="ADM4"/>
        <xs:enumeration value="ADM5"/>
        <xs:enumeration value="ADM6"/>
        <xs:enumeration value="ADM7"/>
        <xs:enumeration value="ADM8"/>
        <xs:enumeration value="ADM9"/>
    </xs:restriction>
</xs:simpleType>

```




```

        <xs:enumeration value="ADM10"/>
        <xs:enumeration value="NEV"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="KeySetVersionInformation_Type">
    <xs:restriction base="xs:string">
        <xs:pattern value="0[1-9A-F][1-7][0-9A-F]"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="KeySetReference_Type">
    <xs:restriction base="xs:string">
        <xs:enumeration value="00"/>
        <xs:enumeration value="01"/>
        <xs:enumeration value="02"/>
        <xs:enumeration value="03"/>
        <xs:enumeration value="04"/>
        <xs:enumeration value="05"/>
        <xs:enumeration value="06"/>
        <xs:enumeration value="07"/>
        <xs:enumeration value="08"/>
        <xs:enumeration value="09"/>
        <xs:enumeration value="0A"/>
        <xs:enumeration value="0B"/>
        <xs:enumeration value="0C"/>
        <xs:enumeration value="0D"/>
        <xs:enumeration value="0E"/>
        <xs:enumeration value="0F"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="TAR_Type">
    <xs:restriction base="xs:hexBinary">
        <xs:length value="3"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="DataGenerationKind_Type">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Static"/>
        <xs:enumeration value="Dynamic"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="EFNbOfRecords_Type">
    <xs:restriction base="xs:int">
        <xs:minInclusive value="1"/>
        <xs:maxInclusive value="254"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="EFRecordSize_Type">
    <xs:restriction base="xs:int">
        <xs:minInclusive value="1"/>
        <xs:maxInclusive value="255"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="EFFileSize_Type">
    <xs:restriction base="xs:int">
        <xs:minInclusive value="1"/>
        <xs:maxInclusive value="65535"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="PackageFileType_Type">
    <xs:restriction base="xs:string">
        <xs:enumeration value="LOP"/>
        <xs:enumeration value="IJC"/>
        <xs:enumeration value="CAP"/>
        <xs:enumeration value="HEX"/>
        <xs:enumeration value="JAR"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="ApplicationPersoScriptLevel_Type">
    <xs:restriction base="xs:string">
        <xs:enumeration value="BFSC"/>
        <xs:enumeration value="AFSC"/>
        <xs:enumeration value="AI"/>
    </xs:restriction>

```



```

</xs:simpleType>
<xs:simpleType name="AccessDomainType_Type">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Full Access"/>
    <xs:enumeration value="No Access"/>
    <xs:enumeration value="APDU Mechanism"/>
    <xs:enumeration value="UICC APDU"/>
    <xs:enumeration value="RFU"/>
    <xs:enumeration value="Proprietary"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="Voltage_Type">
  <xs:restriction base="xs:string">
    <xs:enumeration value="1.8V"/>
    <xs:enumeration value="3V"/>
    <xs:enumeration value="5V"/>
    <xs:enumeration value="1.8V to 3V"/>
    <xs:enumeration value="1.8V to 5V"/>
    <xs:enumeration value="3V to 5V"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="ClockStopMode_Type">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Clock stop allowed"/>
    <xs:enumeration value="No preferred level"/>
    <xs:enumeration value="High level preferred"/>
    <xs:enumeration value="Low level preferred"/>
    <xs:enumeration value="Clock stop not allowed"/>
    <xs:enumeration value="Never"/>
    <xs:enumeration value="Unless at high level"/>
    <xs:enumeration value="Unless at low level"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="CardTechnology_Type">
  <xs:restriction base="xs:string">
    <xs:enumeration value="SIM (2G only)"/>
    <xs:enumeration value="USIM (3G only)"/>
    <xs:enumeration value="CombiCard (2G and 3G)"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="KeyIdentifierValue_Type">
  <xs:restriction base="xs:string">
    <xs:pattern value="[0-7][0-9A-F]"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="Re-Entry">
  <xs:restriction base="xs:string">
    <xs:enumeration value="FormattedSMSPPEnv"/>
    <xs:enumeration value="UnformattedSMSPPEnv"/>
    <xs:enumeration value="FormattedSMSCB"/>
    <xs:enumeration value="UnformattedSMSCB"/>
    <xs:enumeration value="MenuSelection"/>
    <xs:enumeration value="MenuSelectionHelpRequest"/>
    <xs:enumeration value="TimerExpiration"/>
    <xs:enumeration value="EventDownload"/>
    <xs:enumeration value="UnrecognizedEnvelope"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="KeyType_Type">
  <xs:restriction base="xs:string">
    <xs:enumeration value="DES_CBC"/>
    <xs:enumeration value="3DES2_CBC"/>
    <xs:enumeration value="3DES3_CBC"/>
    <xs:enumeration value="DES_ECB"/>
    <xs:enumeration value="AES"/>
    <xs:enumeration value="RSA"/>
    <xs:enumeration value="Proprietary"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="KeyLength_Type">
  <xs:restriction base="xs:string">
    <xs:enumeration value="8"/>
    <xs:enumeration value="16"/>
  </xs:restriction>

```



```

        <xs:enumeration value="24"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="MSL_Hex_Type">
    <xs:restriction base="xs:hexBinary">
        <xs:minLength value="1"/>
        <xs:maxLength value="3"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="CHV_PUKName_Type">
    <xs:restriction base="xs:string">
        <xs:enumeration value="CHV1"/>
        <xs:enumeration value="CHV2"/>
        <xs:enumeration value="PUK1"/>
        <xs:enumeration value="PUK2"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="PIN_PUKName_Type">
    <xs:restriction base="xs:string">
        <xs:enumeration value="UPIN"/>
        <xs:enumeration value="GPIN1"/>
        <xs:enumeration value="GPIN2"/>
        <xs:enumeration value="GPIN3"/>
        <xs:enumeration value="GPIN4"/>
        <xs:enumeration value="GPIN5"/>
        <xs:enumeration value="GPIN6"/>
        <xs:enumeration value="GPIN7"/>
        <xs:enumeration value="GPIN8"/>
        <xs:enumeration value="GPUK1"/>
        <xs:enumeration value="GPUK2"/>
        <xs:enumeration value="GPUK3"/>
        <xs:enumeration value="GPUK4"/>
        <xs:enumeration value="GPUK5"/>
        <xs:enumeration value="GPUK6"/>
        <xs:enumeration value="GPUK7"/>
        <xs:enumeration value="GPUK8"/>
        <xs:enumeration value="LPIN1"/>
        <xs:enumeration value="LPIN2"/>
        <xs:enumeration value="LPIN3"/>
        <xs:enumeration value="LPIN4"/>
        <xs:enumeration value="LPIN5"/>
        <xs:enumeration value="LPIN6"/>
        <xs:enumeration value="LPIN7"/>
        <xs:enumeration value="LPIN8"/>
        <xs:enumeration value="LPUK1"/>
        <xs:enumeration value="LPUK2"/>
        <xs:enumeration value="LPUK3"/>
        <xs:enumeration value="LPUK4"/>
        <xs:enumeration value="LPUK5"/>
        <xs:enumeration value="LPUK6"/>
        <xs:enumeration value="LPUK7"/>
        <xs:enumeration value="LPUK8"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="Mapping2G3G_Type">
    <xs:restriction base="xs:string">
        <xs:enumeration value="CHV1"/>
        <xs:enumeration value="CHV2"/>
        <xs:enumeration value="ADM1"/>
        <xs:enumeration value="ADM2"/>
        <xs:enumeration value="ADM3"/>
        <xs:enumeration value="ADM4"/>
        <xs:enumeration value="ADM5"/>
        <xs:enumeration value="ADM6"/>
        <xs:enumeration value="ADM7"/>
        <xs:enumeration value="ADM8"/>
        <xs:enumeration value="ADM9"/>
        <xs:enumeration value="ADM10"/>
        <xs:enumeration value="ADM11"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="ADMName_Type">
    <xs:restriction base="xs:string">

```



```

        <xs:enumeration value="ADM1"/>
        <xs:enumeration value="ADM2"/>
        <xs:enumeration value="ADM3"/>
        <xs:enumeration value="ADM4"/>
        <xs:enumeration value="ADM5"/>
        <xs:enumeration value="ADM6"/>
        <xs:enumeration value="ADM7"/>
        <xs:enumeration value="ADM8"/>
        <xs:enumeration value="ADM9"/>
        <xs:enumeration value="ADM10"/>
        <xs:enumeration value="ADM11"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="CHV_PIN_ADM_Value">
    <xs:restriction base="xs:hexBinary">
        <xs:length value="8"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="CHV_PIN_PUKLength_Type">
    <xs:restriction base="xs:int">
        <xs:minInclusive value="4"/>
        <xs:maxInclusive value="8"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="CHV_PIN_PUKMaximumRetryNumber_Type">
    <xs:restriction base="xs:int">
        <xs:minInclusive value="0"/>
        <xs:maxInclusive value="255"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="CHV_PIN_PUKRetryNumberLeft_Type">
    <xs:restriction base="xs:int">
        <xs:minInclusive value="0"/>
        <xs:maxInclusive value="255"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="Operator_Type">
    <xs:restriction base="xs:string">
        <xs:enumeration value="OR"/>
        <xs:enumeration value="AND"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="TargetApplication_Type">
    <xs:restriction base="xs:string">
        <xs:enumeration value="GSM"/>
        <xs:enumeration value="USIM"/>
        <xs:enumeration value="UICC"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="Authentication3GAMFDefinition_Type">
    <xs:restriction base="xs:string">
        <xs:enumeration value="00 00"/>
        <xs:enumeration value="Use AMF* of incoming response"/>
    </xs:restriction>
</xs:simpleType>
<xs:complexType name="AccessConditions3GValueType">
    <xs:simpleContent>
        <xs:extension base="AccessConditions3GValueEnum_Type">
            <xs:attribute name="Operator" type="Operator_Type"/>
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
<xs:simpleType name="MobileCode_Type">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="3"/>
        <xs:pattern value="([0-9]*)"/>
    </xs:restriction>
</xs:simpleType>
<xs:element name="DFAccessConditions2GType">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="Create" type="AccessConditions2GValueEnum_Type"/>

```



```

        <xs:element name="Delete" type="AccessConditions2GValueEnum_Type"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DFAccessConditions3GType">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="DeleteSelf" type="AccessConditions3GValueType" maxOccurs="29"/>
        <xs:element name="TerminateDF" type="AccessConditions3GValueType" maxOccurs="29"/>
        <xs:element name="Activate" type="AccessConditions3GValueType" maxOccurs="29"/>
        <xs:element name="Deactivate" type="AccessConditions3GValueType" maxOccurs="29"/>
        <xs:element name="CreateChildDF" type="AccessConditions3GValueType" maxOccurs="29"/>
        <xs:element name="CreateChildEF" type="AccessConditions3GValueType" maxOccurs="29"/>
        <xs:element name="DeleteChild" type="AccessConditions3GValueType" maxOccurs="29"/>
        <xs:element name="EFArrID" type="FileID_Type" minOccurs="0" maxOccurs="1"/>
        <xs:element name="EFArrRecordNb" type="EFNbOfRecords_Type" minOccurs="0" maxOccurs="1"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EFAccessConditions2GType">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="Read" type="AccessConditions2GValueEnum_Type"/>
        <xs:element name="Update" type="AccessConditions2GValueEnum_Type"/>
        <xs:element name="Increase" type="AccessConditions2GValueEnum_Type" minOccurs="0"/>
        <xs:element name="Resize" type="AccessConditions2GValueEnum_Type"/>
        <xs:element name="Rehabilitate" type="AccessConditions2GValueEnum_Type"/>
        <xs:element name="Invalidate" type="AccessConditions2GValueEnum_Type"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="EFAccessConditions3GType">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="Read" type="AccessConditions3GValueType" maxOccurs="29"/>
        <xs:element name="Update" type="AccessConditions3GValueType" maxOccurs="29"/>
        <xs:element name="Increase" type="AccessConditions3GValueType" minOccurs="0" maxOccurs="29"/>
        <xs:element name="Resize" type="AccessConditions3GValueType" maxOccurs="29"/>
        <xs:element name="Activate" type="AccessConditions3GValueType" maxOccurs="29"/>
        <xs:element name="Deactivate" type="AccessConditions3GValueType" maxOccurs="29"/>
        <xs:element name="DeleteItself" type="AccessConditions3GValueType" maxOccurs="29"/>
        <xs:element name="EFArrID" type="FileID_Type" minOccurs="0" maxOccurs="1"/>
        <xs:element name="EFArrRecordNb" type="EFNbOfRecords_Type" minOccurs="0" maxOccurs="1"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="OTAAccessType">
    <xs:complexType>
      <xs:attribute name="KeySetReference" type="KeySetReference_Type" use="required"/>
      <xs:attribute name="TAR" type="TAR_Type" use="required"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="EFContentType">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="DataValue" type="xs:hexBinary" minOccurs="0" maxOccurs="254"/>
      </xs:sequence>
      <xs:attribute name="NbOfRecords" type="EFNbOfRecords_Type"/>
      <xs:attribute name="RecordSize" type="EFRecordSize_Type"/>
      <xs:attribute name="FileSize" type="EFFileSize_Type"/>
      <xs:attribute name="DataGenerationType" type="DataGenerationKind_Type" use="required"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="CHV_PUK_Settings">
    <xs:complexType>
      <xs:attribute name="CHV_PUKName" type="CHV_PUKName_Type" use="required"/>
      <xs:attribute name="CHV_PUKLength" type="CHV_PIN_PUKLength_Type" use="required"/>
      <xs:attribute name="CHV_PUKStatus" type="xs:boolean" use="required"/>
      <xs:attribute name="CHV_PUKMaximumRetryNumber" type="CHV_PIN_PUKMaximumRetryNumber_Type" use="required"/>
      <xs:attribute name="CHV_PUKRetryNumberLeft" type="CHV_PIN_PUKRetryNumberLeft_Type" use="optional"/>
      <xs:attribute name="DataGenerationType" type="DataGenerationKind_Type" use="required"/>
      <xs:attribute name="CHV_PUK_Value" type="CHV_PIN_ADM_Value" use="optional"/>
    </xs:complexType>
  </xs:element>

```



```

    </xs:complexType>
  </xs:element>
  <xs:element name="PIN_PUK_Settings">
    <xs:complexType>
      <xs:attribute name="PIN_PUKName" type="PIN_PUKName_Type" use="required"/>
      <xs:attribute name="PIN_PUKLength" type="CHV_PIN_PUKLength_Type" use="required"/>
      <xs:attribute name="PIN_PUKStatus" type="xs:boolean" use="required"/>
      <xs:attribute name="PIN_PUKMaximumRetryNumber" type="CHV_PIN_PUKMaximumRetryNumber_Type"
use="required"/>
      <xs:attribute name="PIN_PUKRetryNumberLeft" type="CHV_PIN_PUKRetryNumberLeft_Type" use="optional"/>
      <xs:attribute name="Mapping2G3G" type="Mapping2G3G_Type" use="optional"/>
      <xs:attribute name="DataGenerationType" type="DataGenerationKind_Type" use="required"/>
      <xs:attribute name="ADF_AID" type="AID_Type" use="optional"/>
      <xs:attribute name="PIN_PUK_Value" type="CHV_PIN_ADM_Value" use="optional"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="ADM_Settings">
    <xs:complexType>
      <xs:attribute name="ADMName" type="ADMName_Type" use="required"/>
      <xs:attribute name="ADMLength" use="required">
        <xs:simpleType>
          <xs:restriction base="xs:int">
            <xs:minInclusive value="8"/>
            <xs:maxInclusive value="8"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
      <xs:attribute name="ADMStatus" type="xs:boolean" use="required"/>
      <xs:attribute name="ADMMaximumRetryNumber" type="CHV_PIN_PUKMaximumRetryNumber_Type"
use="required"/>
      <xs:attribute name="ADMRetryNumberLeft" type="CHV_PIN_PUKRetryNumberLeft_Type" use="optional"/>
      <xs:attribute name="DataGenerationType" type="DataGenerationKind_Type" use="required"/>
      <xs:attribute name="ADM_Value" type="CHV_PIN_ADM_Value" use="optional"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="SDPrivileges">
    <xs:complexType>
      <xs:attribute name="DAPVerificationAllowed" type="xs:boolean" use="required"/>
      <xs:attribute name="DelegatedManagement" type="xs:boolean" use="required"/>
      <xs:attribute name="MandatedDAPVerification" type="xs:boolean" use="required"/>
      <xs:attribute name="MinSecurityLevel" use="optional">
        <xs:simpleType>
          <xs:restriction base="MSL_Hex_Type">
            <xs:minLength value="1"/>
            <xs:maxLength value="3"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
      <xs:attribute name="PriorityLevel" type="Byte_Type" use="required"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="UserNotificationMessage">
    <xs:complexType>
      <xs:attribute name="ValueOK" type="SMSString_Type" use="optional"/>
      <xs:attribute name="ValueNOK" type="SMSString_Type" use="optional"/>
      <xs:attribute name="ValueCC" type="SMSString_Type" use="optional"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="TPOA_Checking">
    <xs:complexType>
      <xs:attribute name="TPOA_Value" type="xs:hexBinary"/>
      <xs:attribute name="TPOA_TAR">
        <xs:simpleType>
          <xs:restriction base="ThreeBytes_Type">
            <xs:length value="3"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
    </xs:complexType>
  </xs:element>
  <xs:element name="SecurityDomain">
    <xs:complexType>
      <xs:sequence>

```



```

        <xs:element ref="SDPrivileges"/>
        <xs:element name="KeySetVersionInformation" type="KeySetVersionInformation_Type" maxOccurs="127"/>
    </xs:sequence>
    <xs:attribute name="SD_Name" use="required"/>
    <xs:attribute name="SD_AID" type="AID_Type" use="required"/>
</xs:complexType>
</xs:element>
<xs:element name="OTASettings">
    <xs:complexType>
        <xs:sequence>
            <xs:element ref="UserNotificationMessage" minOccurs="0" maxOccurs="1"/>
            <xs:element ref="TPOA_Checking" minOccurs="0" maxOccurs="10"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="Authentication2G">
    <xs:complexType>
        <xs:attribute name="Authentication2GAlgorithm" use="required">
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="COMP128-1"/>
                    <xs:enumeration value="COMP128-2"/>
                    <xs:enumeration value="COMP128-3"/>
                    <xs:enumeration value="COMP128-4 (AES)"/>
                    <xs:enumeration value="COMP128-4 (GSM-MILENAGE)"/>
                    <xs:enumeration value="XOR"/>
                    <xs:enumeration value="Proprietary"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:attribute>
        <xs:attribute name="Authentication2GCounter" type="xs:hexBinary" use="optional"/>
        <xs:attribute name="Algo2GMappedTo3G" type="xs:boolean" use="required"/>
    </xs:complexType>
</xs:element>
<xs:element name="Authentication3GSeqNb">
    <xs:complexType>
        <xs:simpleContent>
            <xs:extension base="xs:boolean">
                <xs:attribute name="Authentication3GFreshnessTest" type="xs:boolean"/>
                <xs:attribute name="Authentication3GAgeLimitTest" type="xs:boolean"/>
                <xs:attribute name="Authentication3GWrapAroundProtection" type="xs:boolean"/>
                <xs:attribute name="Authentication3GRFU" type="xs:boolean"/>
            </xs:extension>
        </xs:simpleContent>
    </xs:complexType>
</xs:element>
<xs:element name="Authentication3G">
    <xs:complexType>
        <xs:all>
            <xs:element ref="Authentication3GSeqNb" minOccurs="0"/>
        </xs:all>
        <xs:attribute name="Authentication3GAlgorithm" use="required">
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="MILENAGE"/>
                    <xs:enumeration value="Dummy"/>
                    <xs:enumeration value="Proprietary"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:attribute>
        <xs:attribute name="Authentication3GDeltaValue" type="xs:hexBinary" use="optional"/>
        <xs:attribute name="Authentication3G_L_Value" type="xs:hexBinary" use="optional"/>
        <xs:attribute name="Authentication3GRESLength" type="Byte_Type" use="required"/>
        <xs:attribute name="Authentication3G_Ri_and_Ci_ValueType" use="required">
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="Default"/>
                    <xs:enumeration value="Customer Specific"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:attribute>
        <xs:attribute name="Authentication3GDataGeneration" type="DataGenerationKind_Type" use="required"/>
        <xs:attribute name="Authentication3GAMFDefinition" type="Authentication3GAMFDefinition_Type" use="optional"/>
    </xs:complexType>

```




```

    </xs:complexType>
  </xs:element>
  <xs:element name="Authentication">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="Authentication2G" minOccurs="0" maxOccurs="unbounded"/>
        <xs:element ref="Authentication3G" minOccurs="0" maxOccurs="unbounded"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="Applet">
    <xs:annotation>
      <xs:documentation/>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:element name="AppletName" type="Common_String_Type">
          <xs:annotation>
            <xs:documentation>Name of the applet as specified in the code file</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="AppletClassAID" type="AID_Type">
          <xs:annotation>
            <xs:documentation>The AID of the applet class</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="Instance" minOccurs="0" maxOccurs="256">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="InstanceName" type="Common_String_Type">
                <xs:annotation>
                  <xs:documentation>Applet name as specified in code file</xs:documentation>
                </xs:annotation>
              </xs:element>
              <xs:element name="ApplicationInstanceAID" type="AID_Type">
                <xs:annotation>
                  <xs:documentation>The AID to be assigned to the instantiation of the applet - See spec Open
Platform 2.1.1 </xs:documentation>
                </xs:annotation>
              </xs:element>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="ProductionStatus">
          <xs:annotation>
            <xs:documentation>This defines the state of the applet after perso</xs:documentation>
          </xs:annotation>
          <xs:complexType>
            <xs:sequence>
              <xs:element name="Installed" type="xs:boolean">
                <xs:annotation>
                  <xs:documentation>Is this applet installed: true | false</xs:documentation>
                </xs:annotation>
              </xs:element>
              <xs:element name="MadeSelectable" type="xs:boolean">
                <xs:annotation>
                  <xs:documentation>Is this applet made selectable: true | false</xs:documentation>
                </xs:annotation>
              </xs:element>
              <xs:element name="ExtraditionAID" type="AID_Type" minOccurs="0">
                <xs:annotation>
                  <xs:documentation>AID of the SD after installation</xs:documentation>
                </xs:annotation>
              </xs:element>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="C9" type="HexString_Type" minOccurs="0">
          <xs:annotation>
            <xs:documentation>Application Specific Parameters</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="C7" type="TwoBytes_Type" minOccurs="0">
          <xs:annotation>
            <xs:documentation>Installation Volatile Memory sizes</xs:documentation>
          </xs:annotation>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="C9" type="HexString_Type" minOccurs="0">
    <xs:annotation>
      <xs:documentation>Application Specific Parameters</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="C7" type="TwoBytes_Type" minOccurs="0">
    <xs:annotation>
      <xs:documentation>Installation Volatile Memory sizes</xs:documentation>
    </xs:annotation>
  </xs:element>

```




```

</xs:element>
<xs:element name="C8" type="TwoBytes_Type" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Installation Non Volatile Memory size</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="ToolkitTag" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Toolkit Applet specific Parameters ? 03.48 section
A.1.1.4.2.1</xs:documentation>
  </xs:annotation>
<xs:complexType>
  <xs:sequence>
    <xs:element name="UICCSpecific" type="xs:boolean">
      <xs:annotation>
        <xs:documentation>This is a flag to be positioned according to the spec 102.226
(section8.2.1.3.2.2): true | false</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="PriorityLevel" type="Byte_Type">
      <xs:annotation>
        <xs:documentation>Applet Priority</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="MinSecurityLevel" type="ThreeBytes_Type" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Applet level MSL</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="MaxMenuEntryTextLength" type="Byte_Type">
      <xs:annotation>
        <xs:documentation>Menu Entry Max Length</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="MaxNbOfMenuEntries" type="Byte_Type" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Number of Entries to allocate</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="AccessDomain">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="AccessDomainType" type="AccessDomainType_Type">
            <xs:annotation>
              <xs:documentation>Type of Access domain: Full Access | No Access |
APDU Mechanism | UICC APDU | RFU | Proprietary</xs:documentation>
            </xs:annotation>
          </xs:element>
          <xs:element name="AccessDomainCode" type="TwoOrThreeBytes_Type"
minOccurs="0">
            <xs:annotation>
              <xs:documentation>Files Access right for the application when APDU
mechanism and UICC APDU is selected</xs:documentation>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="MaxNumberOfTimers" type="Byte_Type">
      <xs:annotation>
        <xs:documentation>Maximum number of timers allowed</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="MenuEntriesPosition" type="HexString_Type" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Menu entries position</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="MaxNumberOfChannels" type="Byte_Type" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Maximum number of channels</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>

```



```

maxOccurs="256">
    <xs:element name="TARValue" type="ThreeBytes_Type" minOccurs="0"
        <xs:annotation>
            <xs:documentation>Assigned TAR values (1Or more) (Rel6)</xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="UICCDAPSignature" type="HexString_Type" minOccurs="0">
        <xs:annotation>
            <xs:documentation>UICC Toolkit Parameters DAP Signature
            (Rel6)</xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="UICCAccessApplicationParameters" minOccurs="0"
        <xs:annotation>
            <xs:documentation>UICC Access Application Parameters
            (Rel6)</xs:documentation>
        </xs:annotation>
        <xs:complexType>
            <xs:sequence>
                <xs:element name="ADFAID" type="AID_Type">
                    <xs:annotation>
                        <xs:documentation>If empty, it refers to UICC</xs:documentation>
                    </xs:annotation>
                </xs:element>
                <xs:element name="AccessDomain">
                    <xs:annotation>
                        <xs:documentation>Access Domain for the ADF</xs:documentation>
                    </xs:annotation>
                    <xs:complexType>
                        <xs:sequence>
                            <xs:element name="AccessDomainType"
                                type="AccessDomainType_Type">
                                    <xs:annotation>
                                        <xs:documentation>Type of Access domain: Full Access |
                                        No Access | APDU mechanism | UICC APDU | RFU | Proprietary</xs:documentation>
                                    </xs:annotation>
                                </xs:element>
                                <xs:element name="AccessDomainCode"
                                    type="TwoOrThreeBytes_Type" minOccurs="0">
                                        <xs:annotation>
                                            <xs:documentation>Files Access right for the application
                                            when APDU mechanism and UICC APDU is selected (See section 102.226 8.2.1.3.2.5.2)</xs:documentation>
                                        </xs:annotation>
                                    </xs:element>
                                </xs:sequence>
                            </xs:complexType>
                        </xs:element>
                        <xs:element name="AccessDomainDAP" type="HexString_Type"
                            minOccurs="0">
                            <xs:annotation>
                                <xs:documentation>Access Domain DAP</xs:documentation>
                            </xs:annotation>
                        </xs:sequence>
                    </xs:complexType>
                </xs:element>
                <xs:element name="MaxNumberOfService" type="Byte_Type" minOccurs="0">
                    <xs:annotation>
                        <xs:documentation>Maximum number of services for this application
                        instance</xs:documentation>
                    </xs:annotation>
                </xs:element>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="UICCAccessAdministrativeAccessApplicationParameters" minOccurs="0"
        maxOccurs="256">
        <xs:annotation>
            <xs:documentation>UICC Administrative Access Application Parameters
            (Rel6)</xs:documentation>
        </xs:annotation>
        <xs:complexType>
            <xs:sequence>
                <xs:element name="ADFAID" type="AID_Type">
                    <xs:annotation>

```



```

        <xs:documentation>If empty, it refers to UICC</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="AdministrativeAccessDomain">
      <xs:annotation>
        <xs:documentation>Administrative Access Domain for the
ADF</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:element name="AccessDomainType"
type="AccessDomainType_Type">
          <xs:annotation>
            <xs:documentation>Type of Access domain: Full Access |
No Access | APDU mechanism | UICC APDU | RFU | Proprietary</xs:documentation>
          </xs:annotation>
          </xs:element>
          <xs:element name="AccessDomainCode"
type="TwoOrThreeBytes_Type" minOccurs="0">
          <xs:annotation>
            <xs:documentation>Files Access right for the application
when APDU mechanism and UICC APDU is selected (See section 102.226 8.2.1.3.2.5.2)</xs:documentation>
          </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="AdministrativeAccessDomainDAP"
type="HexString_Type" minOccurs="0">
    <xs:annotation>
      <xs:documentation>Administrative Access Domain
DAP</xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="Package">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="PackageProvided" type="xs:boolean">
        <xs:annotation>
          <xs:documentation>This defines if the package is delivered by the customer: true |
false</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="Comment" type="Free_Text_Type" minOccurs="0">
        <xs:annotation>
          <xs:documentation>Details about the package to load if it's not provided</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element ref="PackageDefinition" minOccurs="0"/>
      <xs:element ref="Applet" maxOccurs="256"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="PackageDefinition">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="PackageName" type="Common_String_Type">
        <xs:annotation>
          <xs:documentation>Name of the package as specified in the CAP file</xs:documentation>
        </xs:annotation>
      </xs:element>

```



```

<xs:element name="PackageAID" type="AID_Type">
  <xs:annotation>
    <xs:documentation>The AID of a Javacard Package</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="FileType" type="PackageFileType_Type">
  <xs:annotation>
    <xs:documentation>This defines the type of package sent by the customer. The value shall be as follows:
LOP | IJC | CAP | HEX| JAR</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="FullFileName" type="Common_String_Type">
  <xs:annotation>
    <xs:documentation>Defines the path to the file that contain the applet to load</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="FilePackageSignature" type="Common_String_Type" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Defines the MD5 signature of Applet Package File</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="SecurityDomainAID" type="AID_Type" minOccurs="0">
  <xs:annotation>
    <xs:documentation>See spec Open Platform 2.1.1</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="C6" type="TwoBytes_Type" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Package Non volatile Memory size</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="C7" type="TwoBytes_Type" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Installation Volatile Memory sizes</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="C8" type="TwoBytes_Type" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Installation Non Volatile Memory size</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="DAPKeyReference" type="Common_String_Type" minOccurs="0">
  <xs:annotation>
    <xs:documentation>This defines the DAP key to use</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="ApplicationPersoScript" minOccurs="0">
  <xs:annotation>
    <xs:documentation>This describes the specific perso scripts</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="Level" type="ApplicationPersoScriptLevel_Type">
        <xs:annotation>
          <xs:documentation>This describes the level where the specific perso scripts must be run. The
values are as follows: BFSC | AFSC | AI</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="Script" type="ScriptString_Type">
        <xs:annotation>
          <xs:documentation>Command to be executed for applet personalisation</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SpecificFilePath" type="FilePath_Type" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>This defines the path of the files specific to a package</xs:documentation>
  </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>

```



```

</xs:element>
<xs:element name="Header">
  <xs:annotation>
    <xs:documentation>XML Tag List/Requirements</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="TemplateInformation">
        <xs:complexType>
          <xs:sequence>
            <xs:annotation>
              <xs:documentation>Template Information</xs:documentation>
            </xs:annotation>
            <xs:element name="TemplateVersion">
              <xs:simpleType>
                <xs:restriction base="xs:string">
                  <xs:maxLength value="256"/>
                </xs:restriction>
              </xs:simpleType>
            </xs:element>
            <xs:element name="DateOfIssuance" type="xs:date"/>
            <xs:element name="XMLValidated" type="xs:boolean"/>
            <xs:element name="TemplateVersionHistory" minOccurs="0">
              <xs:simpleType>
                <xs:restriction base="xs:string">
                  <xs:maxLength value="256"/>
                </xs:restriction>
              </xs:simpleType>
            </xs:element>
            <xs:element name="XMLToolInformation" minOccurs="0">
              <xs:simpleType>
                <xs:restriction base="xs:string">
                  <xs:maxLength value="256"/>
                </xs:restriction>
              </xs:simpleType>
            </xs:element>
            <xs:element name="Comments" minOccurs="0">
              <xs:simpleType>
                <xs:restriction base="xs:string">
                  <xs:maxLength value="256"/>
                </xs:restriction>
              </xs:simpleType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="SIMCardProfileReference">
        <xs:complexType>
          <xs:sequence>
            <xs:annotation>
              <xs:documentation>SIM Card Profile Reference</xs:documentation>
            </xs:annotation>
            <xs:element name="MobileCountryCode" type="MobileCode_Type"/>
            <xs:element name="MobileNetworkCode" type="MobileCode_Type"/>
            <xs:element name="ProfileName">
              <xs:simpleType>
                <xs:restriction base="xs:string">
                  <xs:maxLength value="256"/>
                </xs:restriction>
              </xs:simpleType>
            </xs:element>
            <xs:element name="ProfileVersion">
              <xs:simpleType>
                <xs:restriction base="xs:string">
                  <xs:maxLength value="256"/>
                </xs:restriction>
              </xs:simpleType>
            </xs:element>
            <xs:element name="ProfileRevision">
              <xs:simpleType>
                <xs:restriction base="xs:string">
                  <xs:length value="2"/>
                </xs:restriction>
              </xs:simpleType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```



```

        </xs:simpleType>
      </xs:element>
      <xs:element name="DateOfIssuance" type="xs:date"/>
      <xs:element name="Issuer">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:maxLength value="256"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="RevisionHistory" minOccurs="0">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:maxLength value="256"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="CustomerSpecificRequirements">
  <xs:complexType>
    <xs:sequence>
      <xs:annotation>
        <xs:documentation>Customer Specific Requirements</xs:documentation>
      </xs:annotation>
      <xs:element name="PPS" type="Byte_Type" minOccurs="0"/>
      <xs:element name="Voltage" type="Voltage_Type" minOccurs="0"/>
      <xs:element name="ProprietaryAlgorithm" type="Common_String_Type" minOccurs="0"/>
      <xs:element name="ClockStopMode" type="ClockStopMode_Type" minOccurs="0"/>
      <xs:element name="CardTechnology" type="CardTechnology_Type"/>
      <xs:element name="NumberIncomingMessages" type="Byte_Type" minOccurs="0"/>
      <xs:element name="NumberOutgoingMessages" type="Byte_Type" minOccurs="0"/>
      <xs:element name="DataDownloadviaUPDATERECORD" type="xs:boolean" minOccurs="0"/>
      <xs:element name="Re-entrance" type="Re-Entry" minOccurs="0" maxOccurs="9"/>
      <xs:element name="BIP" type="xs:boolean" minOccurs="0"/>
      <xs:element name="Comments" type="Free_Text_Type" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="CardBody">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="MF_DF" maxOccurs="unbounded">
        <xs:complexType>
          <xs:sequence minOccurs="0">
            <xs:element name="AccessConditions2G">
              <xs:complexType>
                <xs:sequence>
                  <xs:element ref="DFAccessConditions2GType" minOccurs="0"/>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
            <xs:element name="AccessConditions3G">
              <xs:complexType>
                <xs:sequence>
                  <xs:element ref="DFAccessConditions3GType" minOccurs="0"/>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
            <xs:element name="OTAAccess">
              <xs:complexType>
                <xs:sequence>
                  <xs:element ref="OTAAccessType" minOccurs="0" maxOccurs="16"/>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:attribute name="FileName" type="Common_String_Type" use="required"/>
      <xs:attribute name="FileDescription" type="Free_Text_Type"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```



```

<xs:attribute name="FileID" type="FileID_Type" use="required"/>
<xs:attribute name="FileType" type="MF_DF_Type" use="required"/>
<xs:attribute name="FilePath" type="FilePath_Type" use="required"/>
<xs:attribute name="Shareable" type="xs:boolean" use="optional"/>
</xs:complexType>
</xs:element>
<xs:element name="ADF" minOccurs="0" maxOccurs="unbounded">
  <xs:complexType>
    <xs:sequence minOccurs="0">
      <xs:element name="AccessConditions2G">
        <xs:complexType>
          <xs:sequence>
            <xs:element ref="DFAccessConditions2GType" minOccurs="0"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="AccessConditions3G">
        <xs:complexType>
          <xs:sequence>
            <xs:element ref="DFAccessConditions3GType" minOccurs="0"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="OTAAccess">
        <xs:complexType>
          <xs:sequence>
            <xs:element ref="OTAAccessType" minOccurs="0" maxOccurs="16"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
    <xs:attribute name="FileName" type="Common_String_Type" use="required"/>
    <xs:attribute name="FileDescription" type="Free_Text_Type"/>
    <xs:attribute name="FileID" type="FileID_Type" use="required"/>
    <xs:attribute name="AID" type="AID_Type" use="required"/>
    <xs:attribute name="FileType" type="AID_FileType_Type" use="required"/>
    <xs:attribute name="FilePath" type="FilePath_Type" use="required"/>
    <xs:attribute name="AID_ETSI_102226_DAP" type="AID_Type"/>
    <xs:attribute name="Shareable" type="xs:boolean" use="optional"/>
  </xs:complexType>
</xs:element>
<xs:element name="EF" minOccurs="0" maxOccurs="unbounded">
  <xs:complexType>
    <xs:sequence minOccurs="0">
      <xs:element name="AccessConditions2G">
        <xs:complexType>
          <xs:sequence>
            <xs:element ref="EFAccessConditions2GType" minOccurs="0"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="AccessConditions3G">
        <xs:complexType>
          <xs:sequence>
            <xs:element ref="EFAccessConditions3GType" minOccurs="0"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="OTAAccess">
        <xs:complexType>
          <xs:sequence>
            <xs:element ref="OTAAccessType" minOccurs="0" maxOccurs="16"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="EFContent">
        <xs:complexType>
          <xs:sequence>
            <xs:element ref="EFContentType" minOccurs="0"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```



```

        <xs:attribute name="FileName" type="Common_String_Type" use="required"/>
        <xs:attribute name="FileDescription" type="Free_Text_Type"/>
        <xs:attribute name="FileID" type="FileID_Type" use="required"/>
        <xs:attribute name="FileType" type="EF_Type" use="required"/>
        <xs:attribute name="FilePath" type="FilePath_Type" use="required"/>
        <xs:attribute name="SFI" type="Byte_Type"/>
        <xs:attribute name="LCSI" type="LCSI_Type" use="required"/>
        <xs:attribute name="LinkFilePath" type="FilePath_Type" use="optional"/>
        <xs:attribute name="Shareable" type="xs:boolean" use="optional"/>
        <xs:attribute name="Readable" type="xs:boolean" use="optional"/>
    </xs:complexType>
</xs:element>
</xs:sequence>
<xs:element name="Comment" type="Free_Text_Type"/>
</xs:complexType>
</xs:element>
<xs:element name="CardManagement">
    <xs:complexType>
        <xs:sequence>
            <xs:element ref="CHV_PUK_Settings" minOccurs="0" maxOccurs="unbounded"/>
            <xs:element ref="PIN_PUK_Settings" minOccurs="0" maxOccurs="unbounded"/>
            <xs:element ref="ADM_Settings" maxOccurs="11"/>
            <xs:element ref="SecurityDomain" minOccurs="0" maxOccurs="unbounded"/>
            <xs:element ref="OTASettings" minOccurs="0"/>
            <xs:element ref="Authentication"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="OTA">
    <xs:annotation>
        <xs:documentation>OTA Access Conditions/Applications</xs:documentation>
    </xs:annotation>
    <xs:complexType>
        <xs:sequence>
            <xs:element name="RFMApplication" minOccurs="0" maxOccurs="16">
                <xs:complexType>
                    <xs:sequence>
                        <xs:annotation>
                            <xs:documentation>RFM Application</xs:documentation>
                        </xs:annotation>
                        <xs:element name="TAR" type="ThreeBytes_Type"/>
                        <xs:element name="MSL" type="Byte_Type"/>
                        <xs:element name="MSLExtension" type="ThreeBytes_Type" minOccurs="0"/>
                        <xs:element name="KeySetVersionInformation" type="KeySetVersionInformation_Type"
maxOccurs="16"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="TargetApplicationRFMType">
                <xs:complexType>
                    <xs:sequence>
                        <xs:annotation>
                            <xs:documentation>Target Application/RFM type</xs:documentation>
                        </xs:annotation>
                        <xs:element name="TargetApplication" type="TargetApplication_Type"/>
                        <xs:element name="USIM_AID" type="AID_Type" minOccurs="0"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="LinkToSecurityDomain" type="AID_Type" minOccurs="0"/>
            <xs:element name="FileAccess">
                <xs:complexType>
                    <xs:sequence>
                        <xs:annotation>
                            <xs:documentation>FileAccess</xs:documentation>
                        </xs:annotation>
                        <xs:element name="AccessDomainType" type="AccessDomainType_Type"/>
                        <xs:element name="SecurityCondition" type="TwoOrThreeBytes_Type" minOccurs="0"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="RAMApplication" minOccurs="0">
    <xs:complexType>

```




```

</xs:sequence>
  <xs:annotation>
    <xs:documentation>RAM Application</xs:documentation>
  </xs:annotation>
  <xs:element name="TAR" type="ThreeBytes_Type"/>
  <xs:element name="MSL" type="Byte_Type"/>
  <xs:element name="MSLExtension" type="ThreeBytes_Type" minOccurs="0"/>
  <xs:element name="KeySetVersionInformation" type="KeySetVersionInformation_Type"
maxOccurs="16"/>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="KeySetSettings">
  <xs:annotation>
    <xs:documentation>Defines the settings for the Keysets Associated to an SD</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="KeySetVersionInformation" maxOccurs="127">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="KeySetVersionInformationValue" type="KeySetVersionInformation_Type"/>
            <xs:element name="KeyIdentifier" maxOccurs="128">
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="KeyIdentifierValue" type="KeyIdentifierValue_Type"/>
                  <xs:element name="KeyType" type="KeyType_Type"/>
                  <xs:element name="KeyLength" type="KeyLength_Type"/>
                  <xs:sequence>
                    <xs:annotation>
                      <xs:documentation>Data Generation Type</xs:documentation>
                    </xs:annotation>
                    <xs:element name="DataGenerationType" type="DataGenerationKind_Type"/>
                    <xs:element name="Data" minOccurs="0">
                      <xs:simpleType>
                        <xs:restriction base="xs:hexBinary">
                          <xs:maxLength value="256"/>
                        </xs:restriction>
                      </xs:simpleType>
                    </xs:element>
                  </xs:sequence>
                </xs:complexType>
              </xs:element>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      <xs:element name="CounterValueGeneration" minOccurs="0">
        <xs:complexType>
          <xs:sequence>
            <xs:annotation>
              <xs:documentation>Counter Value Generation Type</xs:documentation>
            </xs:annotation>
            <xs:element name="CounterValueGenerationType" type="DataGenerationKind_Type"/>
            <xs:element name="Data" minOccurs="0">
              <xs:simpleType>
                <xs:restriction base="xs:hexBinary">
                  <xs:length value="5"/>
                </xs:restriction>
              </xs:simpleType>
            </xs:element>
            <xs:element name="CounterGAP" minOccurs="0">
              <xs:simpleType>
                <xs:restriction base="xs:hexBinary">
                  <xs:length value="5"/>
                </xs:restriction>
              </xs:simpleType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="CryptographicChecksumAcceptedLength" type="Byte_Type" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:sequence>

```



```

        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Applets">
  <xs:annotation>
    <xs:documentation>Defines the applets / packages</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="Package" maxOccurs="256"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="CardProfile">
  <xs:annotation>
    <xs:documentation>Defines the card profile</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="Header"/>
      <xs:element ref="CardBody"/>
      <xs:element ref="CardManagement"/>
      <xs:element ref="OTA"/>
      <xs:element ref="KeySetSettings"/>
      <xs:element ref="Applets" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:schema>

```



14. SIM Profile Mark-Up Language Sample – XML File (UXP file)

```
<?xml version="1.0" encoding="utf-8"?>
<CardProfile xmlns="http://www.simalliance.org/SIMProfile/2.0">
  <Header>
    <TemplateInformation>
      <TemplateVersion>2.0</TemplateVersion>
      <DateOfIssuance>2010-06-04</DateOfIssuance>
      <XMLValidated>true</XMLValidated>
      <TemplateVersionHistory>Add of profile naming convention and name space, correction of existing fields, add of new
fields</TemplateVersionHistory>
      <XMLToolInformation>SPML Editor 2.0.0</XMLToolInformation>
      <Comments />
    </TemplateInformation>
    <SIMCardProfileReference>
      <MobileCountryCode>001</MobileCountryCode>
      <MobileNetworkCode>001</MobileNetworkCode>
      <ProfileName>UXP Sample File</ProfileName>
      <ProfileVersion>01</ProfileVersion>
      <ProfileRevision>01</ProfileRevision>
      <DateOfIssuance>2009-06-19</DateOfIssuance>
      <Issuer>None</Issuer>
      <RevisionHistory>01</RevisionHistory>
    </SIMCardProfileReference>
    <CustomerSpecificRequirements>
      <PPS>95</PPS>
      <Voltage>1.8V to 5V</Voltage>
      <ClockStopMode>No preferred level</ClockStopMode>
      <CardTechnology>CombiCard (2G and 3G)</CardTechnology>
      <NumberIncomingMessages>03</NumberIncomingMessages>
      <NumberOutgoingMessages>03</NumberOutgoingMessages>
      <Re-entrance>FormattedSMSPPEnv</Re-entrance>
      <Re-entrance>UnformattedSMSPPEnv</Re-entrance>
      <Re-entrance>EventDownload</Re-entrance>
      <BIP>true</BIP>
      <Comments>None</Comments>
    </CustomerSpecificRequirements>
  </Header>
  <CardBody Comment="None">
    <MF_DF FileName="MF" FileDescription="Master File" FileID="3F00" FileType="MF" FilePath="3F00" Shareable="true">
      <AccessConditions2G />
      <AccessConditions3G>
        <DFAccessConditions3GType>
          <DeleteSelf>NEV</DeleteSelf>
          <TerminateDF>NEV</TerminateDF>
          <Activate>ADM1</Activate>
          <Deactivate>ADM1</Deactivate>
          <CreateChildDF Operator="OR">ADM1</CreateChildDF>
          <CreateChildDF Operator="OR">ADM2</CreateChildDF>
          <CreateChildEF Operator="AND">ADM1</CreateChildEF>
          <CreateChildEF Operator="AND">ADM2</CreateChildEF>
          <DeleteChild>ADM1</DeleteChild>
        </DFAccessConditions3GType>
      </AccessConditions3G>
      <OTAAccess>
        <OTAAccessType KeySetReference="00" TAR="B00010" />
        <OTAAccessType KeySetReference="01" TAR="B00001" />
      </OTAAccess>
    </MF_DF>
    <MF_DF FileName="Telecom" FileDescription="Telecom DF" FileID="7F10" FileType="DF" FilePath="3F007F10"
Shareable="true">
      <AccessConditions2G />
      <AccessConditions3G>
        <DFAccessConditions3GType>
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          <TerminateDF>NEV</TerminateDF>
          <Activate>ADM1</Activate>
          <Deactivate>ADM1</Deactivate>
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          <CreateChildEF>ADM1</CreateChildEF>
          <DeleteChild>ADM1</DeleteChild>
        </DFAccessConditions3GType>
      </AccessConditions3G>
    </MF_DF>
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</CardProfile>
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    <DFAccessConditions3GType>
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      <TerminateDF>NEV</TerminateDF>
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      <CreateChildEF>ADM1</CreateChildEF>
      <DeleteChild>ADM1</DeleteChild>
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FileType="USIM" FilePath="7F40" AID_ETSI_102226_DAP="0000000000" Shareable="true">
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      <TerminateDF>NEV</TerminateDF>
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      <CreateChildDF Operator="OR">ADM2</CreateChildDF>
      <CreateChildEF Operator="AND">ADM1</CreateChildEF>
      <CreateChildEF Operator="AND">ADM2</CreateChildEF>
      <DeleteChild>ADM1</DeleteChild>
    </DFAccessConditions3GType>
  </AccessConditions3G>
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    <OTAAccessType KeySetReference="01" TAR="B00001" />
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Shareable="true" Readable="false">
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    <EFAccessConditions3GType>
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      <Resize>ADM1</Resize>
      <Resize>ADM2</Resize>
      <Activate>ADM1</Activate>
      <Deactivate>ADM1</Deactivate>
      <DeleteItself>ADM1</DeleteItself>
    </EFAccessConditions3GType>
  </AccessConditions3G>
  <OTAAccess>
    <OTAAccessType KeySetReference="00" TAR="B00010" />
    <OTAAccessType KeySetReference="01" TAR="B00001" />
  </OTAAccess>
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    </EFContentType>
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<Activate>GPIN1</Activate>
<Activate>ADM1</Activate>
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</AccessConditions3G>
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LCSI="Operational" Shareable="true" Readable="false">
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<Resize>NEV</Resize>
<Activate>ADM1</Activate>
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<Deactivate>ADM1</Deactivate>
<Deactivate>ADM2</Deactivate>
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</AccessConditions3G>
<OTAAccess>
<OTAAccessType KeySetReference="00" TAR="B00010" />
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  </AccessConditions3G>
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    <EFAccessConditions3GType>
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      <Resize>NEV</Resize>
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  <CHV_PUK_Settings CHV_PUKName="CHV2" CHV_PUKLength="4" CHV_PUKStatus="true"
CHV_PUKMaximumRetryNumber="3" CHV_PUKRetryNumberLeft="3" DataGenerationType="Dynamic" />
  <PIN_PUK_Settings PIN_PUKName="GPIN1" PIN_PUKLength="4" PIN_PUKStatus="true" PIN_PUKMaximumRetryNumber="3"
PIN_PUKRetryNumberLeft="3" Mapping2G3G="CHV1" DataGenerationType="Dynamic" />
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PIN_PUKRetryNumberLeft="3" Mapping2G3G="CHV2" DataGenerationType="Dynamic"
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ADMRetryNumberLeft="3" DataGenerationType="Static" ADM_Value="3030303030303030" />
  <ADM_Settings ADMName="ADM2" ADMLength="8" ADMStatus="true" ADMMaximumRetryNumber="3"
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delivery" ValueCC="replacement text for concatenated messages" />
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    <TPOA_Checking TPOA_Value="14253775112458312458" TPOA_TAR="020202" />
  </OTASettings>
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Algo2GMappedTo3G="true" />
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Algo2GMappedTo3G="true" />
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    </Authentication3G>
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</ApplicationPersoScript>
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