



# **SEPA Card Standardisation Stock Taking Exercise & Implementation Plan**

**Executive Summary Presentation  
V1.0**

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**June 2015**

- Euro Retail Payments Board (ERPB) agreed in December 2014 to invite the CSG to:
  - complete its stock taking exercise of market initiatives developing technical standards by June 2015
  - formulate a procedure for the assessment of conformity of those technical standards with the SCS Volume by June 2015
  
- Report on the current situation for card payment standards in four of the most important card payment chain domains:
  - **Card to Terminal Domain**
  - **Terminal to Acquirer Domain**
  - **Acquirer to Issuer Processing Domain**
  - **Terminal Security Domain**



# Four domains covered



**Card to Terminal Domain**  
(including the Terminal Application)

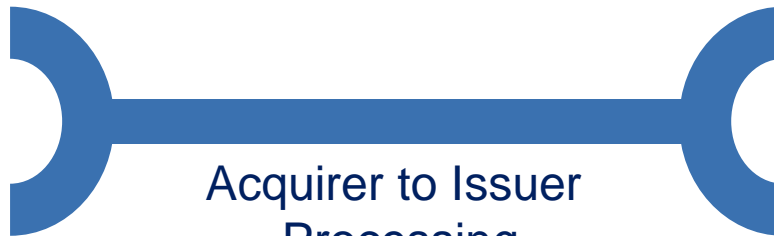


**Terminal to Acquirer Domain**

**Terminal Security Domain**



Issuer



**Acquirer to Issuer Processing Domain**



Acquirer

- SEPA card standardisation market is progressively evolving
  - From previously fragmented situation with many domestic or scheme specific standards
  - To a pan-European card standardisation ecosystem
- Based on
  - Implementation of global standards (ISO, EMV...)
  - Usage of European standards or market initiatives
- Implementation plans of the CSG regarding the procedure for assessment of conformance of technical specifications
  - Labelling procedure for conformance monitoring
  - Monitoring structure (also called SCCMB\*) to be set up



\* SEPA Card Certification Management Body

# SEPA Card Standardisation Ecosystem



Development of products & solutions having the capability to work cross-countries and cross-card schemes in SEPA



- These achievements, if pursued and supported by all the stakeholders and regulators, will improve the harmonisation of card transactions in SEPA, while also fostering innovation
  
- Based on these conclusions, the ERPB is invited to acknowledge the present report, including:
  - The analysis of the situation in the different domains
  - Three proposed ERPB recommendations (CSG-R1 to R3)
  - Three proposed ERPB guidance for action (CSG-I1 to I3)

- For **Card-to-Terminal** and **Terminal-to-Acquirer domains**, choice of implementation specifications will be market driven
  - Implementations specifications have to be **based on SCS Volume** requirements and principles
- Card acquirers and processors should recognise and work with at least one Volume Conformant implementation specification
  - For **new terminals**, the choice of implementation specifications is market driven among Volume Conformant specifications
  - For **installed terminals**, it is not recommended to require a migration to a Volume Conformant specifications  
Else this would result in a huge investment, with no obvious ROI for merchants or PSPs



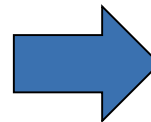
## In the **Card-to-Terminal** and **Terminal-to-Acquirer** domains:

From a situation of fragmentation of implementation specifications, mainly due to legacy **domestic market** practices...

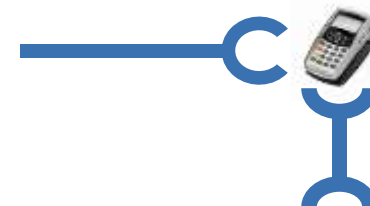
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To the future use of **pan-European** implementation specifications, conformant to the SCS Volume requirements,

	Today	Today	Today	Today
Country	T2A Protocol	T2A Prot. Model	T2A Prot. Syntax	Respect of Book 5 conditions
UK	STD70	8583	Bitmap	No?
Italy	ABI-CB	8583	Bitmap	No?
France	CB2A	8583	Bitmap	No?
Spain	PRICE (HtoH) TPV	8583	Bitmap	No?
Germany	GICC-ZVT	8583	Bitmap	No?
Poland	Diverse, STD70, SPDH			No?
Greece	Diverse, SPDH			No?
Portugal	SPFS	Prop.		No?
Netherlands	CTAP		ASN-1	Yes?
Sweden	Diverse, SPDH, SIXML, APACS60/OTRS		Diverse	No?
Finland	Diverse, BBSAPACS40, APACS60/OTRS, SDI		Diverse	No?
Ireland	STD 70	8583	Bitmap	No?
Denmark	Diverse, APACS60/OTRS, SPDH, BBSAPACS40		Diverse	No?
Belgium	CTAP		ASN-1	Yes?
Romania	Diverse, STD70, SPDH			No?
Austria	Diverse, ZVT, EVB, SPDH			No?
Czech Rep.	Diverse, STD70, SPDH			No?
Croatia	Diverse, STD70, SPDH			No?
Hungary	Diverse, STD70, SPDH			No?
Bulgaria	Diverse, STD70			No?
Slovakia	Diverse, SPDH			No?
Slovenia	Diverse			No?
Lithuania	Diverse, SPDH			No?
Estonia	Diverse, SPDH			No?
Latvia	Diverse, SPDH			No?
Cyprus	JCC	8583	Bitmap	No?
Malta	Multiple	8583	Bitmap	No?
Luxembourg	EP2	8583	XML	No?
EU Wide				
IFSF	IFSF*	8583	Bitmap	No?
nexo	EPAS*	20022	XML	Yes?
Acquiris	CTAP*		ASN-1	Yes?



e.g.,  
EMV  
EPAS (ISO20022)  
IFSF  
SEPA-FAST  
C-TAP





➤ In the **Terminal Security domain** it is recommended that:

- The identified evaluation methodologies, processes and certification frameworks implement the relevant requirements of SCS Volume
- Card Schemes strictly follow the process described in the SCS Volume



➤ So far the CSG has only partially analysed the **Acquirer to Issuer Card Processing domain** with a focus on Data Element requirements and processing framework requirements

- The CSG proposes to undertake a study, at European level, evaluating any interest for and net benefit of a migration to a given standard of messages set and clearing/settlement practices

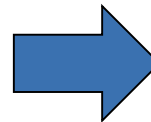


## In the **Terminal Security** and **Acquirer-to-Issuer Processing** domains:

From a situation of fragmentation of implementation specifications, mainly due to the different practices of **card schemes** or organisations...

To the future use of **cross-scheme** implementation specifications, conformant to the SCS Volume requirements,

	88 2013 of national market					Today	Today	Expected Evolution
Schemes or Approval Body	Number of Terminals Approved	Origin (Domestic or International)	Main Place of Activities in EU	Schemes or Approval Body	Terminal Security Basic Reqs.	Additional scheme or national security reqs	Terminal Security Reqs.	
<b>Visa Europe</b>	Confid.	EU	All EU	<b>Visa</b>	PCI		PCI+	
<b>MC</b>	Confid.	Int.	All EU	<b>MC</b>	PCI		PCI+	
<b>Amex</b>	Confid.	Int.	All EU	<b>Amex</b>	PCI		PCI+	
<b>JCB</b>	Confid.	Int.	All EU	<b>JCB</b>	PCI			
<b>Discover</b>	Confid.	Int.	All EU	<b>Discover</b>	PCI			
<b>CUP</b>	Confid.	Int.	All EU	<b>CUP</b>				
<b>UKCA</b>	1654	Dom.	UK	<b>UKCA</b>	"CC"		CC	
<b>CB</b>	1344	Dom.	FR	<b>CB</b>	PCI	Y	PCI+	
<b>Girocard</b>	744	Dom.	DE	<b>Girocard</b>	GBIC		CC	
<b>DPA</b>	249	Dom.	NL	<b>DPA</b>	PCI+		PCI+	



e.g.,



PCI, CC (for Terminal Security)

ISO20022 (for Processing)



Issuer



Acquirer

	Transaction Volume of Scheme or Approved Schemes (B)	% of tx going through the default central switch	Origin (Domestic or International)	Main Place of Activities in EU	Schemes or Approval Body	Today	Today	Today	Today	Expected Evolution	Expected Evolution	Expected Evolution	Expected Evolution
						A2I Architecture	A2I Type	A2I Auth MF (8583 variant)	A2I C&S MF	A2 Architecture	A2I Type	A2I Auth MF	A2I C&S MF
<b>Visa Europe</b>	37	45%	EU	All EU	<b>Visa</b>	Centr. Dual	Prop.	DMSA	DMSC	Centr. Dual	?	?	?
<b>MC</b>	Confid.		Int.	All EU	<b>MC</b>	Centr. Dual	Prop.	CIS	IPM	Centr. Dual	?	?	?
<b>Amex</b>	Confid.		Int.	All EU	<b>Amex</b>	Centr. Dual	Prop.	?	?	Centr. Dual	?	?	?
<b>JCB</b>	Confid.		Int.	All EU	<b>JCB</b>	Centr. Dual	Prop.	?	?	Centr. Dual	?	?	?
<b>Discover</b>	Confid.		Int.	All EU	<b>Discover</b>	Centr. Dual	Prop.	?	?	Centr. Dual	?	?	?
<b>CUP</b>	Confid.		Int.	All EU	<b>CUP</b>	Centr. Dual	Prop.	?	?	Centr. Dual	?	?	?
<b>CB</b>	10,2	71%	Dom.	FR	<b>CB</b>	Centr. Dual	Prop.	CBAE / 8583	CB2C	Centr. Dual	Public	ATICA (20022)	ATICA (20022)
<b>Girocard Servired</b>	4,9 N/A		Dom.	DE	<b>Girocard Servired</b>	Not Centr. Dual	Public	GBIC / 8583	DTA	Not Centr. Dual	Public	GBIC / 8583	SCC (20022)
<b>Amex</b>			Dom.	ES	<b>Amex</b>	Centr. Singl.	Prop.	8583	8583	Centr. Singl.	Public	20022 & 8583	20022 & 8583
<b>JCB</b>			Dom.	ES	<b>JCB</b>	Centr. Singl.	Prop.	8583	8583	Centr. Singl.	Public	20022 & 8583	20022 & 8583
<b>Discover</b>			Dom.	ES	<b>Discover</b>	Centr. Singl.	Prop.	8583	8583	Centr. Singl.	Public	20022 & 8583	20022 & 8583
<b>CUP</b>			Dom.	IT	<b>CUP</b>	Centr. Singl.	Prop.	8583	8583	Centr. Singl.	Public	20022 & 8583	20022 & 8583
<b>Bancomat</b>	2		Dom.	DK	<b>Bancomat</b>	Centr. Singl.	Prop.	8583	8583	Centr. Singl.	Public	20022 & 8583	20022 & 8583
<b>Dankort</b>	1,5		Dom.	DK	<b>Dankort</b>	Centr. Singl.	Prop.			Centr. Singl.	Public	8583	8583
<b>BCMC</b>	1,5 <5%		Dom.	BE	<b>BCMC</b>	Centr. Singl. & Completion	Prop.	8583	8583				
<b>MultiBanco</b>	1,7		Dom.	PT	<b>MultiBanco</b>	Centr. Singl / Dual	Prop.	SRTP / 8583	SRTP / 8583	Centr. Singl/Dual	Prop./Public	SRTP / 20022	SRTP / 20022

- The CSG proposes to undertake a study in the Acquirer-to-Issuer card processing domain



- The ERPB is invited to acknowledge the CSG plans on the **SCCMB** setup (structure to do the labelling of implementation specifications and monitor SCS Volume Conformance)
  - The CSG intends to initiate the SCCMB creation during the second half of 2015



- Finally, the CSG proposes to regularly inform ERPB on:
  - the setup of the SCCMB labelling and monitoring process
  - an update of the Card Standardisation Stock Taking Exercise Report



with a periodicity to be agreed (12 or 18 months)



# Thank you for your attention

- Additional information:
  - Full Report including
    - Executive Summary
    - List of proposed ERPB recommendations and guidance
  - Stock Taking Exercise Detailed data
  - SCCMB draft Terms of Reference