

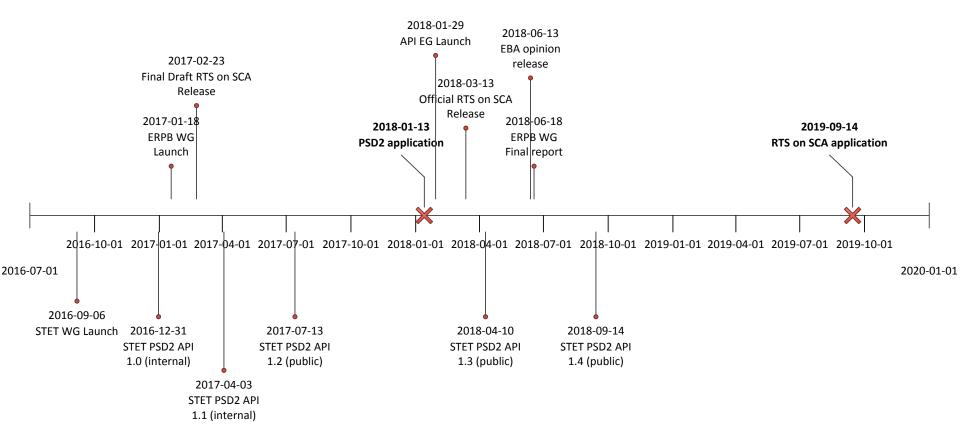
STET PSD2 API - VERSION 1.4

Hervé Robache – October 2018

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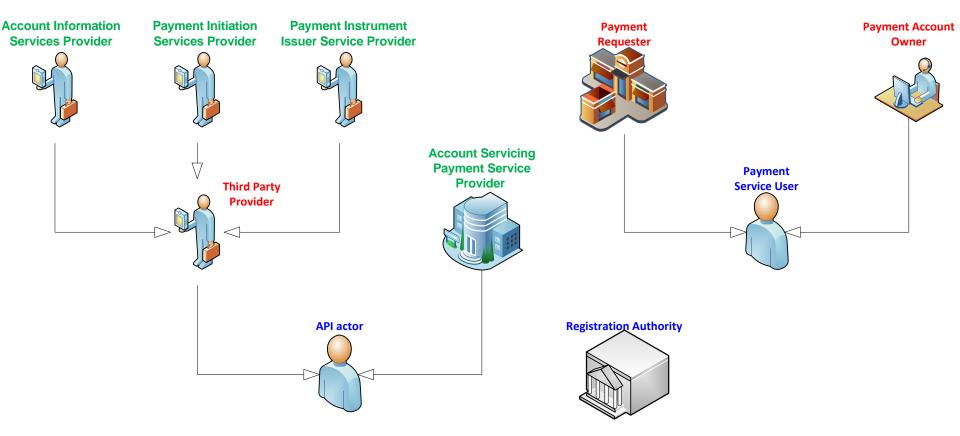
API Timeline



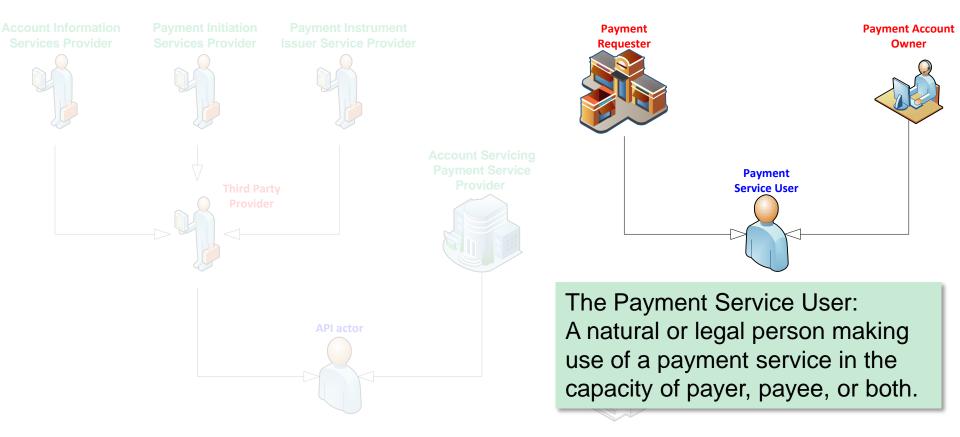
Key Standards

ТНЕМЕ	STANDARD	COMMENTS
Access Network	Internet	
Transport Protocol	HTTP 1.1	
		Provides data encryption during transportation
	TLS 1.2	Provides cross-authentication of the actors
		May be enforced by STS and/or TFS
Authorisation Protocol	OAUTH2	Authorisation Code Grant (AISP + PIISP)
	MTLS	Client Credentials (PISP)
Applicative Protocol	REST	Richardson Maturity Model on level three
Data Format	JSON/UTF8	Transposition of ISO20022 structures
Technical Documentation	SWAGGER	AOS3 format also available
	2.0 (AOS2)	

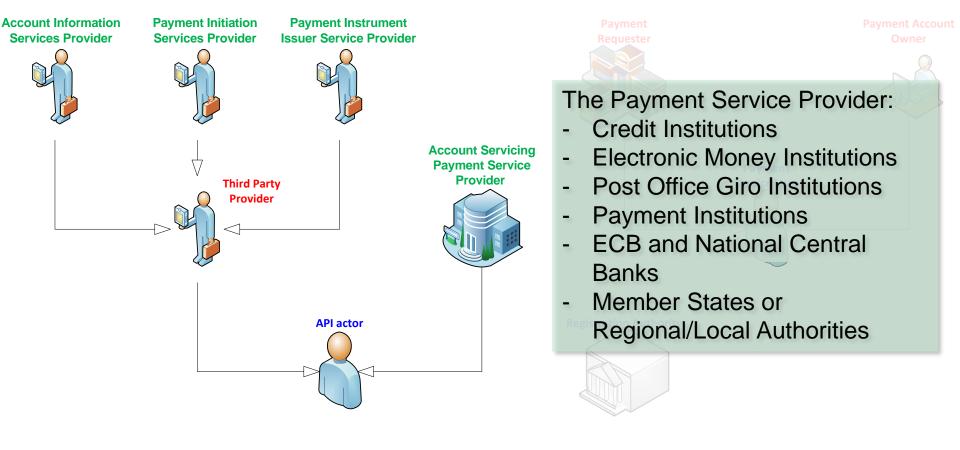
PSD2 Actors



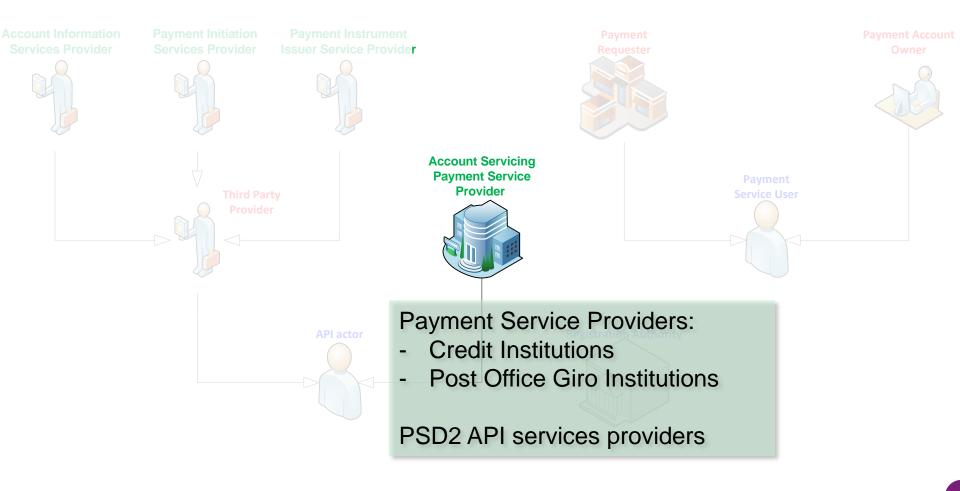
PSD2 Actors: The Payment Service User



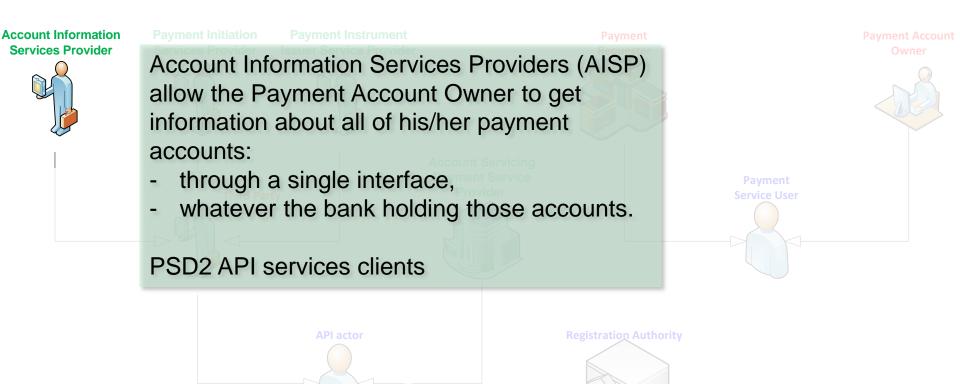
PSD2 Actors: The PSD2 API actors



PSD2 Actors: Account Servicing Payment Service Providers

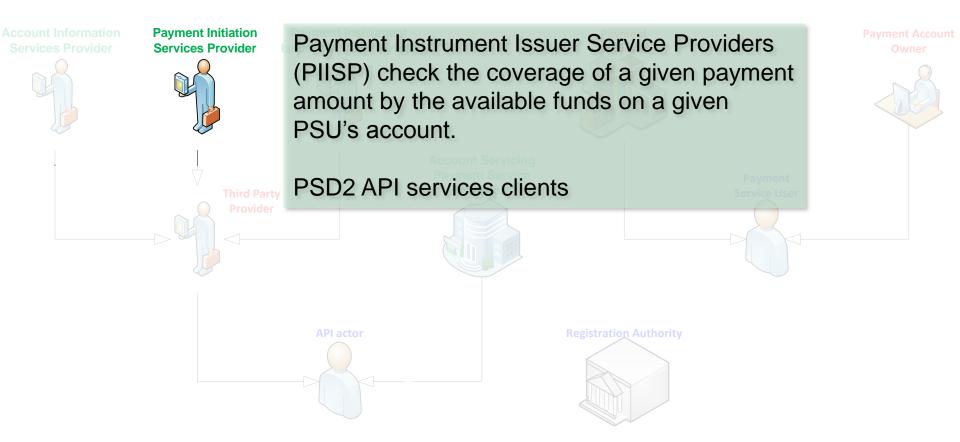


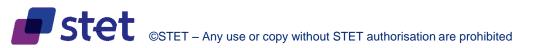
PSD2 Actors: Account Information Service Providers



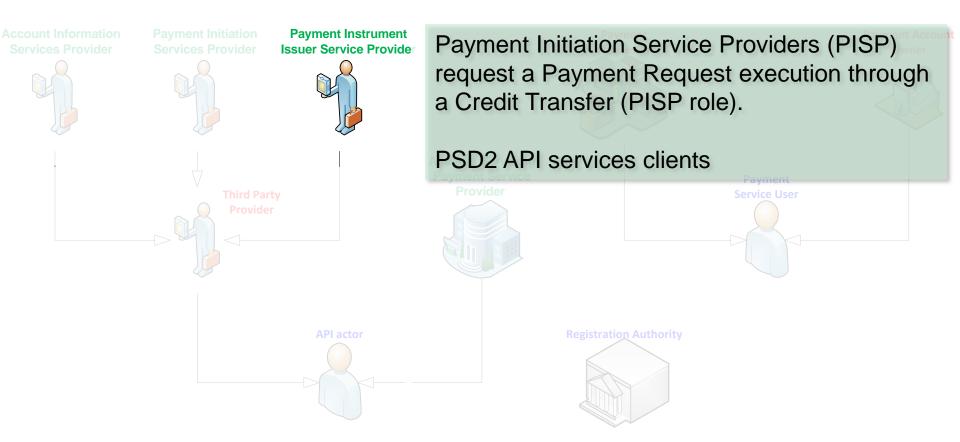


PSD2 Actors: Payment Instrument Issuer Service Providers



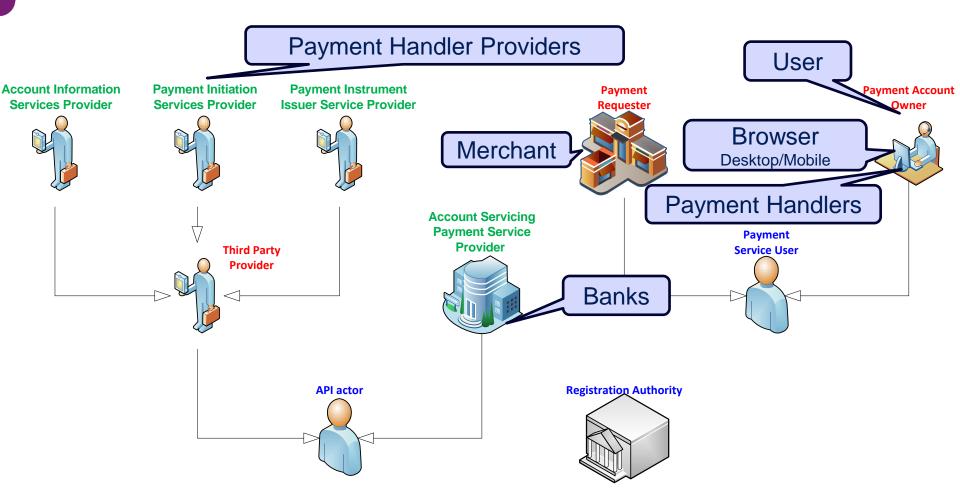


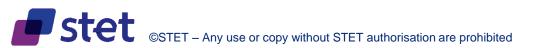
PSD2 Actors: Payment Initiation Service Providers

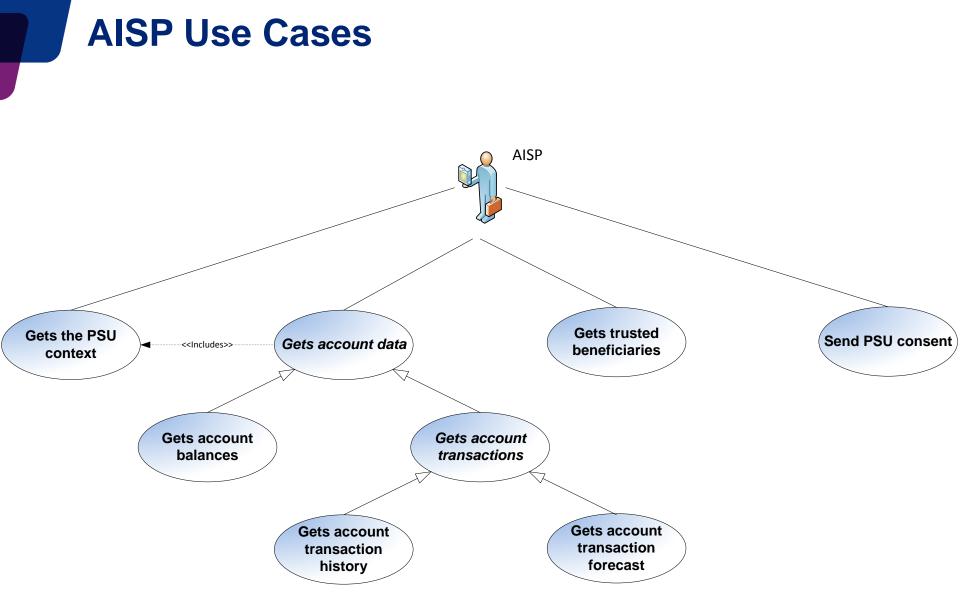




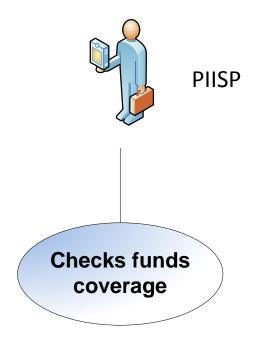
PSD2 Actors vs W3C Model



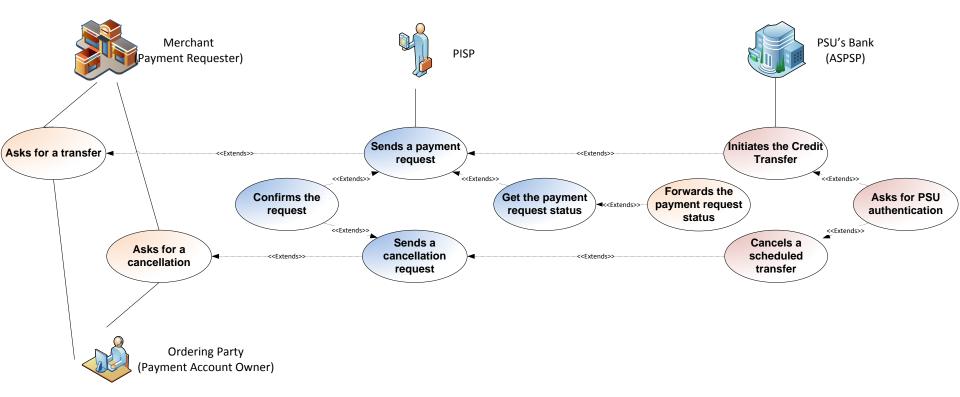




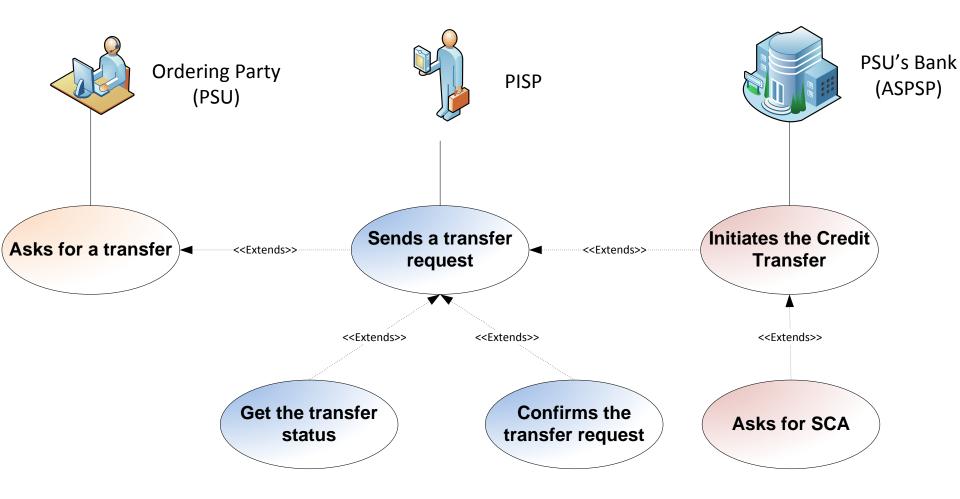
PIISP Use Case



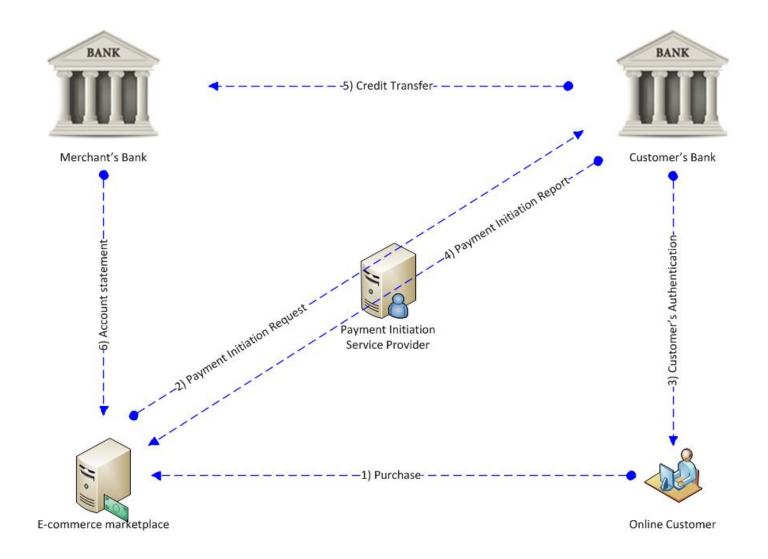
PISP Purchase Use Cases



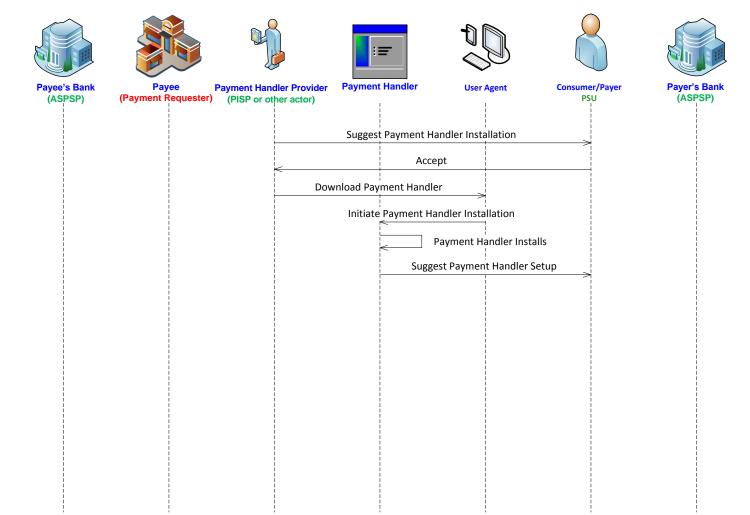
PISP Transfer Use Cases



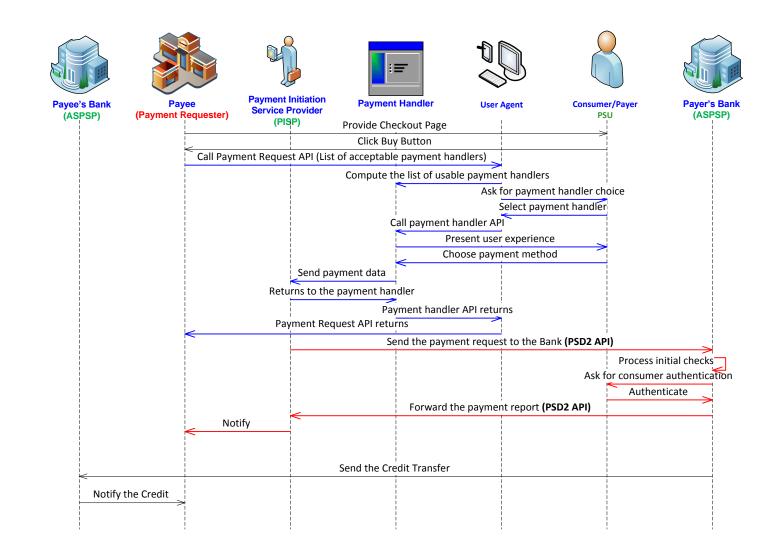
PISP Purchase Use Case



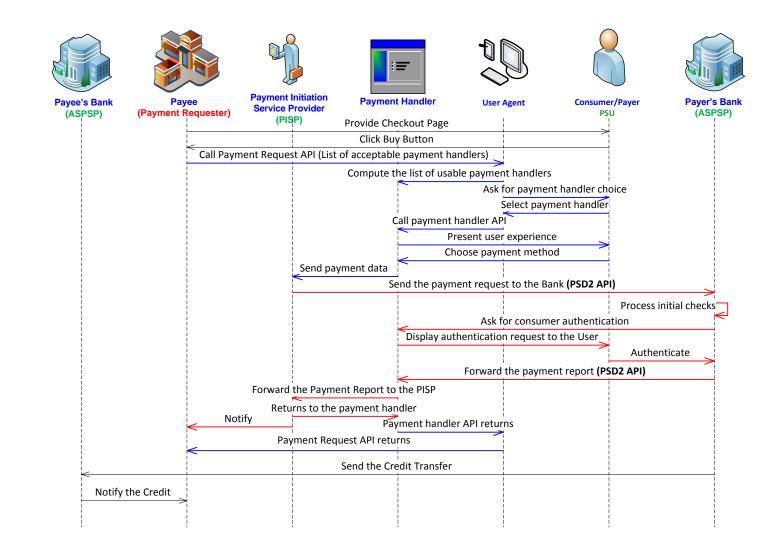
PISP Purchase Use Case in a W3C approach (initial setup)



PSD2 decoupled from Payment Request API



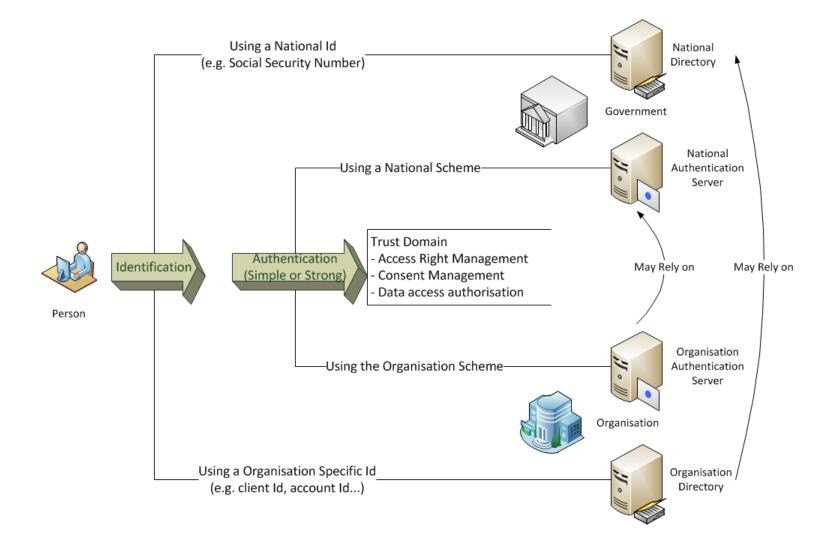
PSD2 During Payment Request API



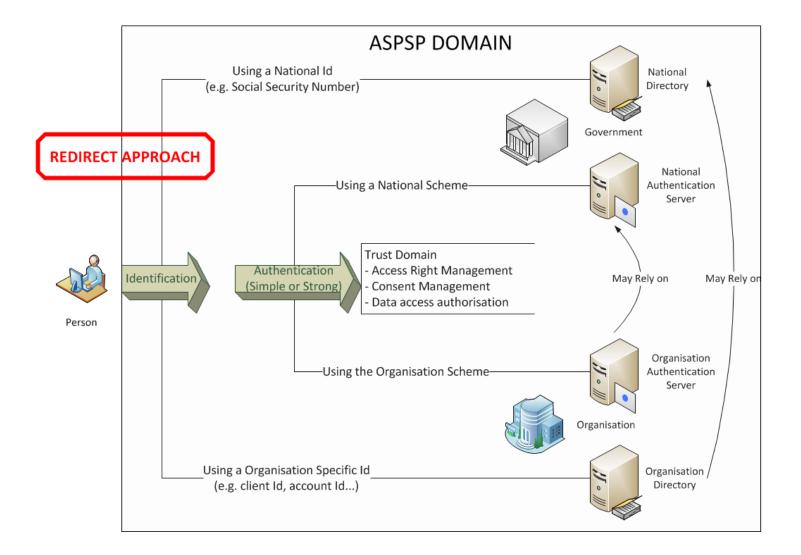
PSD2 API and ISO20022

- STET already experienced ISO20022 through
 - SEPA payments implementation (from 2008)
 - Account Management messages (2009)
 - SEPAmail messages (2011)
- So using ISO20022 was a strategic choice. It was also a recommendation from the RTS on SCA.
 - V1.0, V1.1 and V1.2 used
 - ISO20022 data structures for AIS and PIISP
 - a whole copy/paste of some messages for PIS
- ISO20022 Modelling of STET API work started in Fall 2017
 - Reflexions about API resources and automatic documentation
 - V1.3 and V1.4 provide a smarter use of ISO20022 building blocks
 - Berlin Group joined in June 2018
- ISO TC68/SC9/WG2 started to work on general usage of ISO20022 in Spring 2018

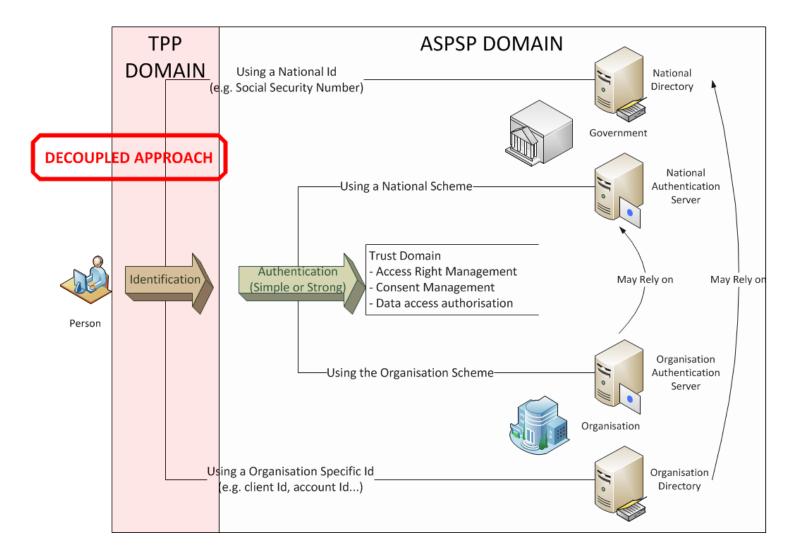
Identification and Authentication (1/4)



Identification and Authentication (2/4)



Identification and Authentication (3/4)



Identification and Authentication (4/4)

