Strong Customer Authentication

The main principles

V1.6

Xpollens

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Version history

version	date	Update
1.5	24/03/2022	Add Activate x-Pay Token (inAppVerificationActivation) in the list of mobile-initiated sensitive operations
1.6	27/06/2022	Get pin / card display method for iOS
1.7	19/12/2022	Add the target endpoint related to the modification of a User
1.8	06/02/2023	Fix the Notification message JSON structure SCA success screenshot horizontal flip

Introduction

Xpollens offers two kind of usage that require the use of a mobile phone by the customer:

1. **KYC process** during the user's onboarding (please refer to [Know your customer | Xpollens API docs](#))

2. **Strong authentication process** (please refer to [Strong customer authentication | Xpollens API docs](#))

Authentication is required for your end-customers if you are on the Retail B2C market ; it is also required for all key individuals of your professional customers, if you are on the Corporates B2B market. Strong Customer Authentication will occur in two situations :
- Online card payment
- Sensitive Operations (amongst which, some require secure display)

➤ This document aims at presenting the key elements to use these features.

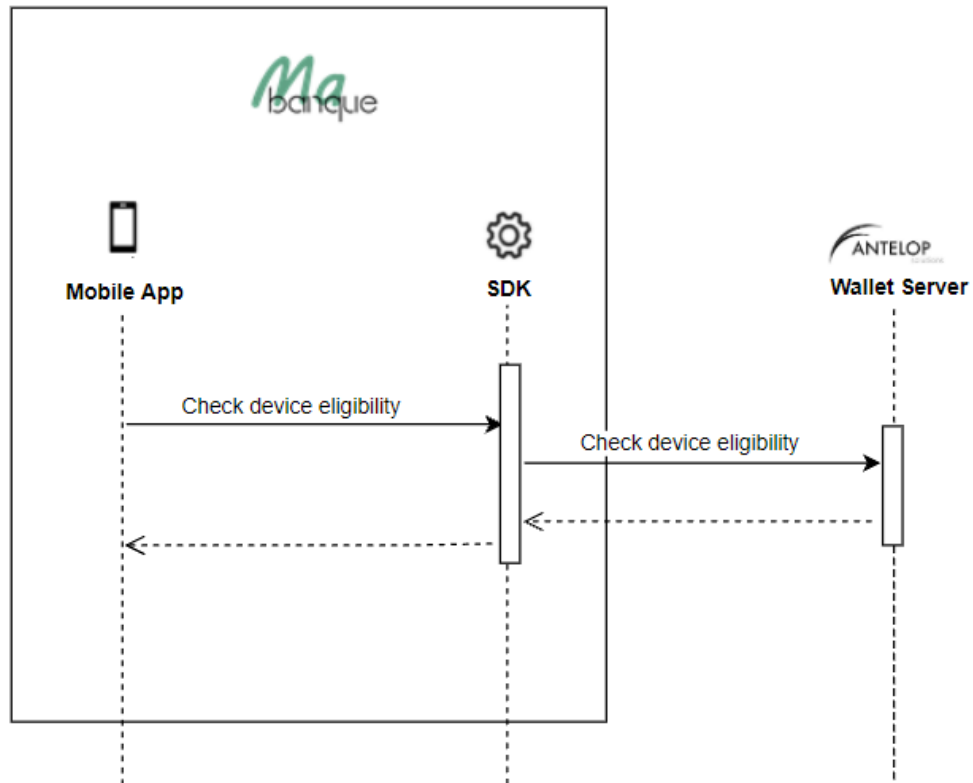The first step consists of integrating our SDK in your mobile application.
SDK's documentation is available at : https://doc.antelop-solutions.com/latest/wallet/sdk/index.html
Note : To access this online documentation, you shall use the ID / pwd provided by Xpollens, during your Onboarding process.
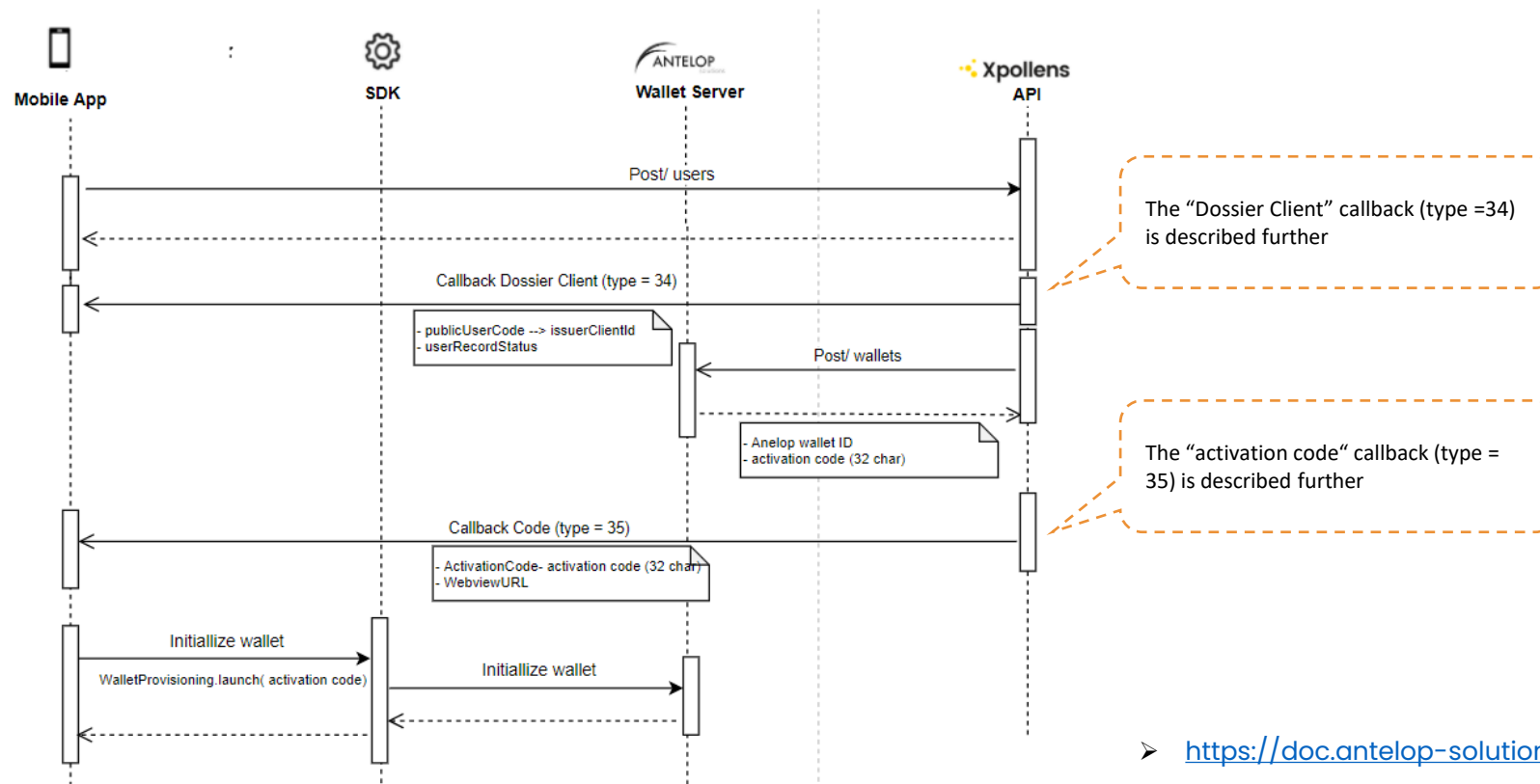
Wallet initialization

Check mobile eligibility

- https://doc.antelop-solutions.com/latest/wallet/general/getting-started.html
- https://doc.antelop-solutions.com/latest/wallet/sdk/wallet_management.html
- https://doc.antelop-solutions.com/latest/common/sdk-javadoc/index.html

Wallet inititialization

- https://doc.antelop-solutions.com/latest/wallet/general/getting-started.html
- https://doc.antelop-solutions.com/latest/wallet/sdk/wallet_management.html

Authentication patterns

The Customer Authentication is based on Authentication Patterns, which define the possible combinations of authentication methods to authenticate for a given operation.

The authentication pattern used by Xpollens when creating the wallet is « **BIOORPIN** ».

For more details, please refer to : https://doc.antelop-solutions.com/latest/wallet/sca/sca-intro.html#_authentication_patterns

Callback « Dossier Client » : type = 34

This callbacks provides info about the user's onboarding status (called user record)

Field	Format	Required (Y/C/O)	Description
type	string	Y	Callback type = 34
appUserid	string	Y	User Reference
publicUserCode	string	Y	Corresponds to issuerClientID in our partner's (Antelop) system. It is used to create the wallet in its system.
userRecordStatus	String	Y	Status of the user record : 1 = initialized 2 = inProgress 4 = validated 5 = refused

Example :
```
{
 "type" : "34"
  "appUserid" : "toto12344"
  "publicUserCode" : "1234der14ft2"
   "userRecordStatus" : "InProgress"
}
```

Callback Code : type = 35

This callbacks provides the activation code required in the wallet enrolment process

Field	Format	Required (Y/C/O)	Description
type	string	Y	Callback Type
AppUserId	string	Y	User Reference
ActivationCode	string	C	Code use to activate wallet (32 char)
ErrorMessage	string	C	Error message if an error occurs
ExtraData	Json object	Y	Contains the webview URL

Example :
```
{
    "type": "35",
    "AppUserId":"Au007",
    "ActivationCode":"5743c6747156074e5aebcbaec6f8b4a8",
    "ErrorMessage": null
}
```

Mobile initiated authentication

Refer to https://doc.antelop-solutions.com/latest/wallet/sca/sca-intro.html#_mobile_initiated_authentication
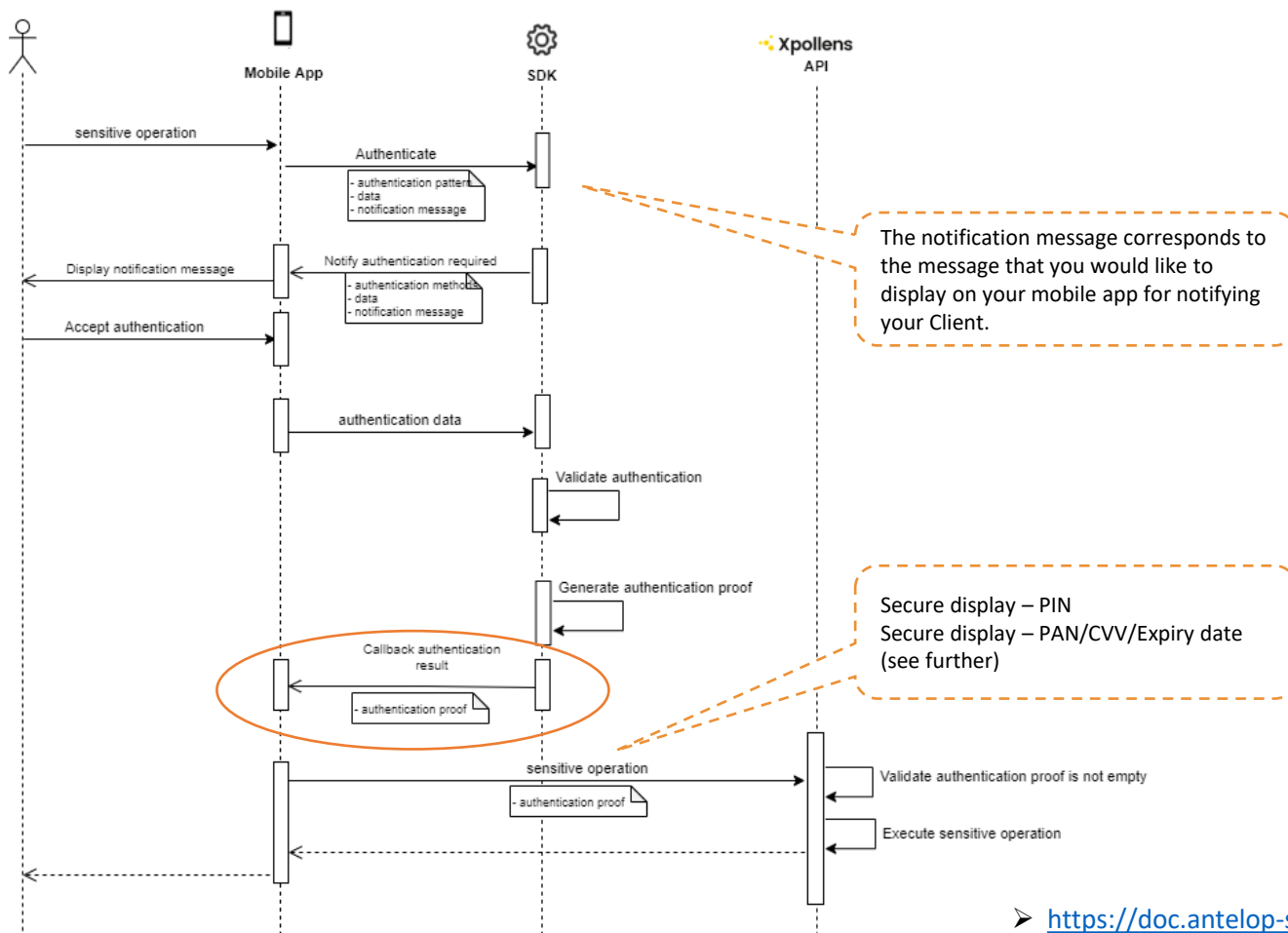
Xpollens
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Sensitive operations – Mobile initiated Authentication

List of Xpollens « sensitive operations » APIs requiring the Mobile initiated Auhtentication workflow (« **/sca/normal** » in the URL)

	Sensitive operations	Xpollens Endpoints	Documentation
Card Secure Display	• PIN Display • Card Display (CVV,PAN, Expiry date)	• GET /api/sca/normal/v2.0/{appUserId}/pin/{cardExternalRef}?channelCode={channelCode} • POST /api/sca/normal/v2.0/{appUserId}/carddisplay/{cardExternalRef}	See webdoc : https://docs.xpollens.com/ Please note that the corresponding EndPoints currently described in the webdoc do not include "/sca/normal" into the signature, **but should use the signature with /sca/normal in order to be functional for our Agent Clients**.
X-Pay enrolment	• Activate x Pay Token (inAppVerification Activation)	• POST / api sca /normal/ appUserId }}/ xpayInAppVerifActivation cardExternalRef	

Mobile initiated authentication flow chart

In this workflow, the user's strong authentication is processed through the SDK **prior to the Xpollens API call**. The authentication proof shall be then provided as an input (header) of the corresponding Xpollens APIs (Secure PIN display, Secure PAN/CVV/Expiry date Display) wich work in a **synchronous** mode.

- *Note* : Xpollens APIs which require the mobile initiated authentication contain **« /sca/normal »** in the signature

- **The authentication proof** (= JWS token = offline_authentication_token) contains a public key used by Xpollens to encypher sensitive data (PIN, PAN&CVV)

- The SDK will then use the private key to decypher the secure payload, and display the sensitive info on the mobile app

➢ https://doc.antelop-solutions.com/latest/wallet/sca/sca-intro.html#_mobile_initiated_authentication

Secure Display – Pin Display flow chart for Android

Display the Xpollens card PIN on the user's mobile device

For more details, refer to

https://doc.antelop-solutions.com/latest/common/sdk-javadoc/fr/antelop/sdk/ui/securedisplay/package-summary.html

Secure Display – Pin Display flow chart for iOS

Display the Xpollens card PIN on the user's mobile device

App Backend | **App Frontend** | **SDK Antelop** | **Xpollens API**

① Wallet.getSecureDisplayCertificate

↪ SDK private key

② Client Authentication

↪ JWS generated with the proof of authentication

JWS

JWS

The proof of authentication should be transmitted in a header of the request and described as follows:
Key = offline_authentifcation_token
Value = [authentication proof]

③

Card PIN request with JWS **and private key** in the headers   GET api/sca/normal/v2.0/{{AppUserId}}/pin/{{CardExternalRed}}?channelCode=XX

↪ JWE generated and encrypted with the public key **provided in the header**

Secure paylaod sent to the app backend

④

Secure paylod transmitted to the Antelop SDK for encryption

DISPLAY : PIN
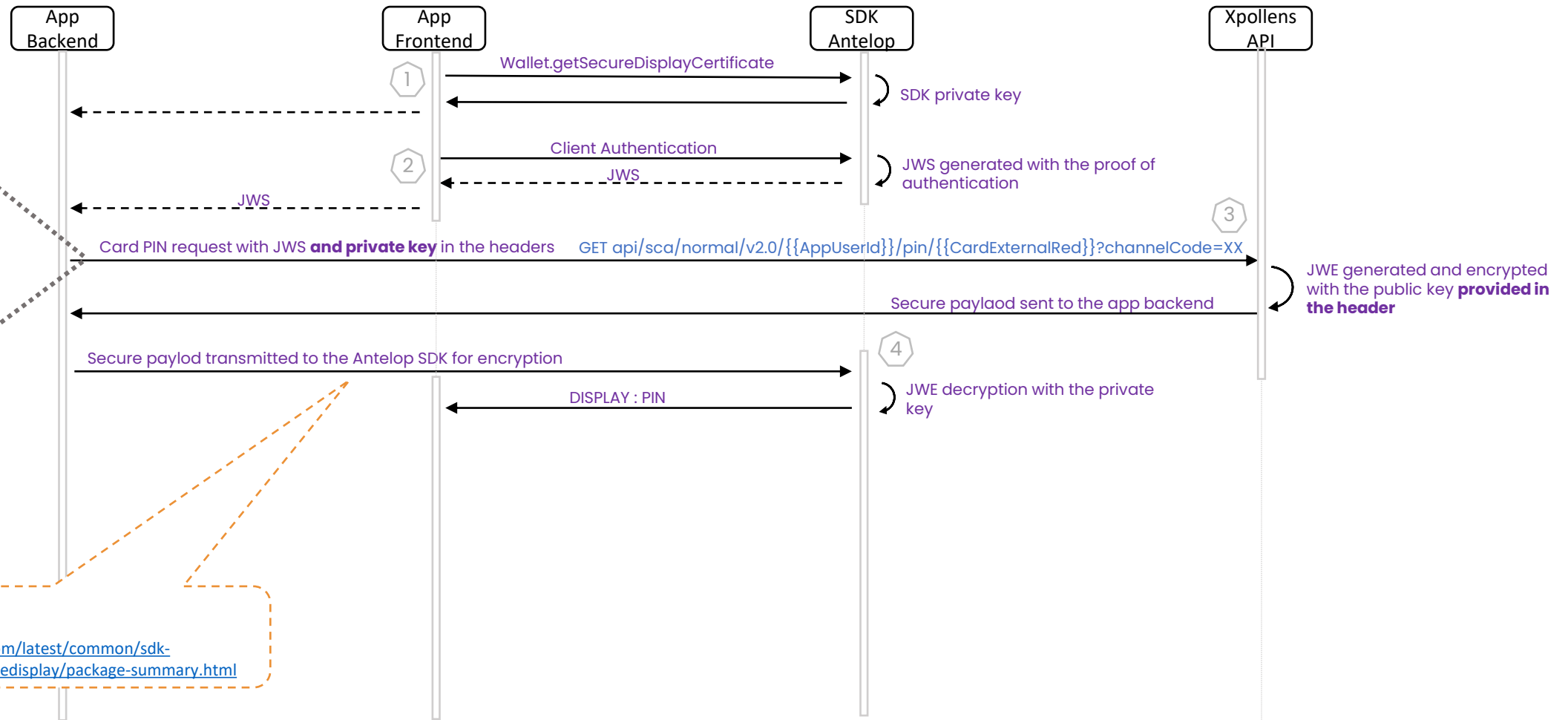
↪ JWE decryption with the private key

For more details, refer to

https://doc.antelop-solutions.com/latest/common/sdk-javadoc/fr/antelop/sdk/ui/securedisplay/package-summary.html

Secure Display – Pin Display

➢ **Pre-requisites**:

- Get the « offline_authentication_token » through the SDK
- Card status should be 'sent' or 'Activated'

➢ **EndPoint** : **GET** /api/sca/normal/v2.0/{{AppUserId}}/pin/{{CardExternalRef}}/?channelCode=XX

➢ **Inputs:**

Field	Format	Required (Y/C/O)	Settings	Description
offline_authentication_token	string	Y	header	The proof of authentication (or JWS) should be transmitted in the header of the request and described as follows: Key = offline_authentication_token Value = [authentication proof]
secure_display_certificate	string	C – **for iOS only**	header	Certificate obtained by prior call to the Antelop SDK *Wallet.getSecureDisplayCertificate* Transmitted in addition to the offline_authentication_token
CardExternalRef	string	Y	path	Card Reference attributed by the partner. Card status should be 'sent' or 'Activated'
AppUserId	string	Y	path	User Reference attributed by the partner
channelCode	string	Y	**path**	The channel used to display the PIN. List of possible values: 04 = by computer 66 = by phone 72 = by tablet

➢ **Output:**

Field	Format	Description
secure_payload	string	The secure payload containing the PIN, to be sent to the Antelop SDK for decryption & secure display

Secure Display – Pin Display for Android

- **Example:**

URL: https://sb-api.xpollens.com/api/sca/normal/v2.0/Xpo-demo1/pin/Card-demo?channelCode=66

Example of Secure payload (or JWE) generated:

"{\"secure_payload\":\"eyJhbOrTOiJSU0EtT0FFUC0yNTYiLCJlbmMiOiJBMjU2R0NNIn0.lx1ZYYz3ummyrlusRwJRMMf6-mLCsPSAVboqjary9UYaCT_MCd312Bos7kiLLa-RCFYMpD4lDZp53iYnelrMJ6DK8-lSt7dwHX6auXDdlFPccs0N8T9MQ-t-ONWZFhR2dmP26GSpZuaAgFqNMmov8nJeF_B1CbzmTYS9DKYOofSDUAtWfB4lmjH8btVhkvCMHVcYkQSVam_yqhzA4ISp_k6zg9ej_I05Sz5cyuCIGZ069aBHUNOcoa-n88b63BZjYhLhkdZEZWsPkJ7UN075EzGR9jM8-rU3Y-zhtzjwK6pX7GFL-KNH_cFWXczQ-nAZ4ilaxgSWsPF5w3Yi7tpTdSBwyB8jJTRZg8BvW-m9-suKhGABKVbkf_hnld0ZISAwMebTxrh2wqxs9ct52vADIUCgaCd2R5N5YKgPEeTiP3WB99R0_vFigm2yKoGFmVsg2-BzBhj3BT_algbFALVmqM4PM62bFOGKgXBa18xORP4zJWqVdajSBZY2ViMHAsNz.owRHkohCu665_Yyl.jMGJ5Ff9-jwTglUo2SQUmq-2dO2mVBlYrUbq5Cyl48AgtDnvgXTIwOIMiEXWsHm4UrEs19T83VPxshWQc0Pb2vYU_v5WGCi9a-0NmJ_pmCgSySxF_LcA_mla_7YasbK81yA2cKrywsMkZrKpSC0DrLzGCPsgzmJ2Sf27_VzLHtDwMU5ic1tPdvytS_yBepurQx2TVb5W3eb4olMh6rY5tlst27p6g3rQPZP564jedD9omdhgX47rUNboDtANR-CuU6BcYdDkaqrS9nHd5aFQlJERKplp7WWvGYObSIAf-vEzp3ao5EQwApJM-0hH8ph1Db9r5mtCXNU7jh0gAobQm5AYKDoOoQYaekT4-OsxRxCqmvxgvBNUMTWaa_iEePrSastokw3D_0Lz2PnSr4IhDPeZh0ktjtsvFe1QjyFtcGVQiHOE26J7L5rc9h2pNcITX96o8FQrHEn4apZ3YdyLrmrW520eqZDjjAHLUHrFzMt6mO0MjfO8gSSRiqSz__ZoOjx2gqQh2PmcCY9zgVFx43pnjfpNLem5omThS-vL4_8OIORIsxZSAkknoK2WHDRsCFcn1KZxwK4L4_iKZ8NVoRXeiAN2i0artKK0uM9ZAOSZ9ZP95U2NK_715jYZp-bRNvRcCogOc8JwBpTSJTwarEAli3_T1PzD0WM3coDQTRPo3PE9YLj0h6MWn5f6RQzfWuLZIHAyL20q0Jd_4ABSaFlfEURLhjN9EmD0-eV3CIh_vUIjU5NZ6ZK0PMIEFUYyJ_Lp2pjV1n4kZhJbn1Yst5rmUNNeylWaSIbjWJtEEpSaLCIi4zmjlJBQ85mnGLx5fEHkbJ0siAMm-85-xLGS9m7qEDsapqlDcwwRKJmWa5yJIexcl1GDgaEsyfhmGkH2NvRnT7QEXW-Uhn6iQTCNQOuq6sLr.-AM3KAeyPrbl7tN28IcDyQ\"}"

Secure Display – Pin Display for iOS

① **secure_display_certificate:**

LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSUZHRENDQXdDZ0F3SUJBZ0lPQWFIUzRXSXdYOUwvd2lKNDZYQXdEUVlKS29aSWh2Y05BUUVMQlFBd2daNHgKQ3pBSkJnTlZCQVlUQWtaU01Rd3dDZllEVlFRSURBTkpaRVl4RGpBTUJnTlZCQWNNQlZCaGNtbHBhNUkF3RGdZRApWUVFLREFkQmJuUmxiRzl3TVJBd0RnWURWUVFMREFkQmJuUmxiRzl3TVlwd0d3WUpLb1pJaHZjTkFRa0JGZzV2CmNITkFZVzUwWld4dmNDNW1jakV1TUN3R0ExVUVBd3dsUVclMFpXeHZjQ0JQWm1ac2FXNWxJRUYxZEdobGJuUnAKWTJGMGFXOXVJRkZWWVV4SlJqQWVGdzB5TWpBM0lERXhNelF3TkRKYUZ3M0HlNekEzTURFeE16UXdOREphUBEAplREFhQmdOVkJBTU1Fek16TVRBek5EQTRNRGt5TlRBME16ZzRORE14RURBT0JnTlZCQXNNQjl1aGRHbDRhWE13CmdnR2lNQTBHQ1NxR1NJYjNEUUVCQVFVQUE0SUJqd0F3Z2dHS0F2SUJnUURzUXM4dzhwdzJEOGwpaWQmkzb2d5M24KYk5YZ0kzdjdCQ29seU9UMlpKSE9XbW5tZFdsKysrZGwsSnNETXA0ZisydjlKWHRjNjJtK3FqaXBnajdSbi8ySgpUc3YzSVNCOEdrYzUzUHV3am82NkxmbDhZVUx5QnFrVXBJL0NyM2VmaHlld0lKSEpsaVRGK0fCbU9pSzZiVXlZCktyMGlrWUlubkRYckc0VXlEZmp1b2VVMnlGTWtvdnJxNWtHTlBnRzl2cWlFTlZ5NndlN3BzbkhsYUNnaFFlaGGQKbHZZZnlwdjlVHeHJEZXAzc2RQamhiY2dib0dzbllUYzlUUUJ5Vk1qUUlFeVd4cEt3cEZvZ3VEVm5HbTkyU0s4bgpJRDNmQUc4Y0ExR0tQL1drNUdDRnJLSmxBMEgvNnFiWHYrMzlib0c2eGh4M3JHUUlmRzltUHJBN092bU9UVUk2CkZjb3hFMEhuSkdua3B0QU9yUzg2N2lMN0tkdlnUFE1OXpxM0lqMHJ6M25JeGtVRmcyRkpiaWFyajkrb0ElMlAKMFVDNWNuc2NvYzB0MzR5cUlGSUdBemZmakhoS3JXVFlWdlhyKldabFVCL2RVaWJlRTBOVmpjclV4a04xVTZVQgp1dTZzZ2RRLy8welExOXlPWXlMa3pLaUlJelB5N1hqb3ZtY1lxcTZhOTdzQ0F3RUFBYU5CTUQ4d0NRWURWUjBCUCkJBSXdBREFPQmdOVkhROEJBZjhFQkFNQ0JhQXdJZZllEVllwakFSC9CQmd3Rm9BVVovUGkzSUM5NkFML3RHVHckaU9uYK54ZFlmNXN3RFFZSktvWklodmNOQVFFTEJRQURnZ0lCQUllemNTZTJveGlHZHVINVFtM1h1WHB2Vm83WApDaTg0ZmJoN1VVTVdHV2pTWGtGSWZoR0ZTekVWdU5oMkJ4L2ZPdFJnTFRra3lvaFdiWFNkZkIzZVVBUU9DNDc5CmMwOVdJNHBlUlNQQldRSUVzdDVvVENhZ3ljSVJiMG9VQTFDcnFmMVRUVJkbVBrbTlFNldWbThkRGhvUzVlVDUKV0RoVEtreTlEd0l3bkNVTVltYlNoRFVza1gzcGM2bGlMc2s1U3RL2ZtSUNTZGtDSzhEU0RMTi9wN1pkbnhLNApuRDRvbko3WGxzbzczTit3aCtGTGs0VGlNM2M4d0JLYlJMjEvaC9CQlFLMV0o2RUNtNUwlRUwdUHBhdFJPTC92ClNkMGtUSTRqT05YWmhYUy92bUlU3dmVlJUMDdEeiJMNEJoWURyYUFQZVZzMEd1cFR4WHFFMDZ5Y1NQbGRGa2kKT0lSSVJKb0l3alk5Um9RWlFINzBtSHN4U0YwcVdlY2xZQUwxd2ViSERrbUUwVEhwOE9yYkVBRHhKeFFQZUkvdApVUUFSNXBlRExZKzRsUGgvM2o4bUtmY3JjS1ZKWjhETlhxdjNPM1Y4QkZLOEJaVVJrQU9NZU9laDyYUpFYzBnCllUVjgrTHZYNWxmZmRmL09qNzhiSmRtcVVhbnA3eXRRcjBwK2hDekdubEpDTG5idzcrQThaZERBWVE2eUdhalgKNjZlNjV6cWprSkwza1d3a2hxQ2FnMW00K3M0WlhqUmlVaUxCTis0S1JCSWtaMkxONzFhVEpTV3FFOUxTUGt2cgpLcWpneGVROS95U0ZJNmZlckxndzJMRlQ5SmpkMEllS1htcHVDS0huS05XaDhITkxiTm1lbnJxLzZ3V0VXREluCmN3VlFqNWVwbitVTU8zU2YKLS0tLS1FTkQgQ0VSVElGSUNBVEUtLS0tLQ
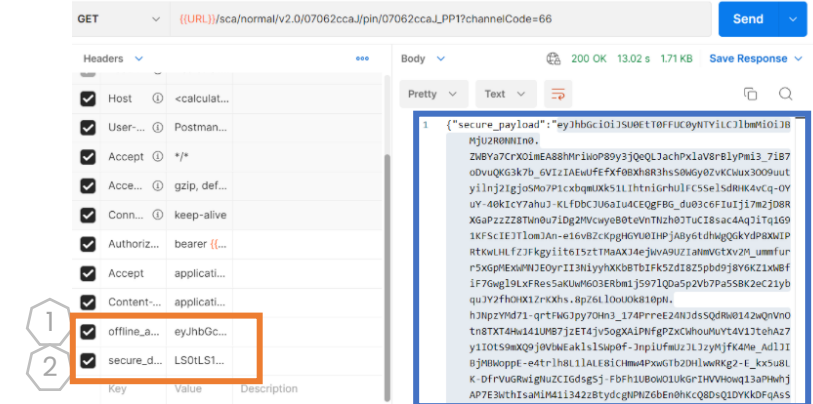
② **offline_authentication_token:**

eyJhbGciOiJFUzI1NiIsInR5cCI6IkpXVCIsIng1YyI6WyJMUzB0TFMxQlJVZEpUaUJEUlZKVVNVVWkpRMEZVUlMwdExTMHRDazFKU1VSNlZFTkRRV0pYWjBGM1NVSkJaMGxQUVdGSVV6UlhTWGRTl1V3dmQyMUtORFpWVlhkRVVWbEtTMjlhU1doMlkwNUJVVVZNUWxQQmQyZGFOSGdLUTNwQlNrSm5UbFpDUVZsVVFXdGFVMDFSZDNkRFoxbEVWbEZSU1VSQlRrcGFSVmw0Ukdwd2tSm5UbFpDUVdOTlFSWkNhR050YkhwTlVrRjNSR2RaUkFwV1VWRkxSRUZrUW1KdVVteGlSemwzVFZKQmQwUm5XVUpXVVZGTVJFRmtRbUp1VW14aVJ6bDNVVkl3ZDBkM1dVcExiMXBLYUhaalRrRlJhMEpHWnpWMkNtTklUa0ZaVnpVd1dsZDRkbU5ETlcxamFrVjFUVU4zUjBFeFZVVkJkM2RzVVZjMUlGcFhlSFpqQ0JRUVdtMWFjMkZYTld4SlJVWXhaRWRvYkdKdVVuUQtXVEpHTUdGWE9YVkpSa1pXVFZVUkVaZHNHWkpIUkhSdgpCUkVWVkVVVlJFQmhHUlFUMUJSVFVKQ2QwTkVRRVUZTWm1ONEsxWnNUemh6WnpWWlZXVlFiemcwYlhCMWIxa3pTWGxwWlU0S2MySjFMMHhqTjBwUVVFTjVaVzl6W0WtkcU5sRktkazF0YlNzNGFqRmtWSGhQV2lkUE16UlJTbWhTWW5Odkt5OU9SbUpCV1dGQ1drWnZNRVYzVHwQlNncENaMDVXU0ZKTllVRnFRVU20U0tjMkQxRkZRWGRKUm05RVFXbENNaMDVXU0ZOTlFrRm1PRVZIUkVGWFowSlNiamdyVEdOblRETnZDa0YyS3pCYVVFTkpObVJ6TTBZeGFDOXRla0ZPUWlkcmNXaEJhV0MlVZHpCQlFWRnpSa0ZCVDBOQlowVKJibmRPTmpSUE0wZExPRUppT0dSTGJXVlBSVWpaLVztselpYSTBUemxsTVRob1ZrUlVSbTlMYW5KMk4waaGtWbEJTTUdOdVowaEhUVk5EYTB0TVdYb3lhNVlZUWjFaUmVVZE1VVEkyVVZGMJHMTVjVGh3TlFwaUwxZzBaekJUTUN0UGFrUlFlYm1zNFUxTlYm1zNFUxTklWa3hJUmpaNk5HaHdTbmQyZEVGR2EyWlBSRU5YTlhkSVNYTnphRFZwZVdNdEeyaDFWRkY1VW1aRENtTlhVRnB2ZVUcwNWVEVnZjRzFTV0M4d1REVXpTSFp4YUZCSmJETlZXRzFNY3pjMVVVdExUekJTZUdkNU4wVndOWFpNVG1NNEltUk9SV2xtZEU5UFdWa0tWRE5pZERGeVVySkRjV05UTmlkWRUVNNXa0pWVFRGaGREWnpjVFJ6UVVVVmVsQnVNWFlzVVVGemFXSVXlNM2RsTDB4RFQwbGhUV2QlVjBneGQwOUxSd3AxTmtWNWJEQkpaV3hUU3pJeU5rczJWUzlHY3pWRGlxWnZTMnB6ZERZM05sUnRWSGhlTW5VMkluaHpUamglTjBoTGVXNXNVVUZoY0VkS2FYcG5Obkl5Q25wTVMzZzBRBFp0VEd4MFVYRXpNSGRQYm5selVVZGlhWE0wTVhRNU1VZGFRlZxZUZoYWJtVkNaMmxMUWpsUU4xaHNXRE15VRSMU1GbE5UMkpWTlVzS1ZsWnZXVlZUU0ZKWmFrZFNhblplUlRKUlJHMDNkV05PUzFOWVdWTXlabIZrZWpCUE5FTmxNM0l2ZFdSeVFWZ3JhaTlNdWtaSmJFOVZZVlJhVwrdlZncGtblV6WTAwMWNteEtiME0wUlVodlRrWkhjMngxWW5CeFQwdFRRbThyZFhOeWFGRXhhRXBzS3paSlprVk9NbGxoVldGUlpuVktlV0p1UkVOclkycHhDbE55ZGtWWE9YNXdVVRHSXdlVzFMYTJOU1JXaHZZalJtVUU5R04xcHBiak5WV0Vnd0szSTJOM2xZUlZWTlZqSTBZemtLVWlzeFZuQkhNaXRaTDNsMWRlcFFOM0l2UkhaWVp6NmStZMFJNUnpCdFVuVnlUekJJZ0c09VeEVhWFJ6ZDJoQlEwWklLMGNyU0ZweWN6STBNV3hrY1FwdU9VOHZZbkplWVZZdl1JrNUZWVWR5VVdvM0wwMWFPRDBLTFMwdExTMUZUa1FnUTBWU1ZFbEdTVU5CVkVVdExTMHRMUT09Il9.eyJpc3MiOiJodHRwczovL2FldGguYW50ZWxvcC5pbylsImlhdCI6MTY1NjY4MzA3MCwic3ViojoiMzMxMDM0MDgwOTIlMDQzODg0MylsImFtci6WyJIWUJSSURfUElOIl0sImFldGhfcGF0dGVybiI6IkJJT09SUElOIiwidmFsaWRhdGlvbl90eXBlljoib2ZmbGluZSIsInNpZ25lZF9kYXRhIjoiVTJsbmJpQjBhR2x6SUdSaGRHRT0ifQ.lR_e461jaNKSJcoYQzSEvJr9RXNnLEquySP-b1GO7lWmRQFD-a98VsxMcZXB72-AuBmlMiDkfihWSAEKVsLvMQ

③ {{URL}}/sca/normal/v2.0/07062ccaJ/pin/07062ccaJ_PP1?channelCode=66

④ secure_paylod transmitted to the Antelop SDK for encryption

Card Display flow chart for Android

Display the Xpollens card PAN/Expiry Date/CVV on the user's mobile device

App BackEnd · App FrontEnd · Antelop SDK · Xpollens API

Flow chart page 12

1 Client authentication

2 JWS generated with the SDK private key

JWS

JWS

3 Card Display (CVV/PAN/Expiry Date) Request

POST ·api/sca/normal/v2.0/{{AppUserId}}/carddisplay/{{AppCardId}}

4 JWE generated and encrypted with the public key extracted from the JWS

The proof of authentication should be transmitted in a header of the request and described as follows:
Key = offlline_authenticattion_token
Value = [authentication proof]

5 Secure payload sent to the app backend

6 Secure payload transmitted to the Antelop SDK for encryption

7 JWE decryption with the private key

DISPLAY

CVV,PAN,Expiry Date

kage-summary.html
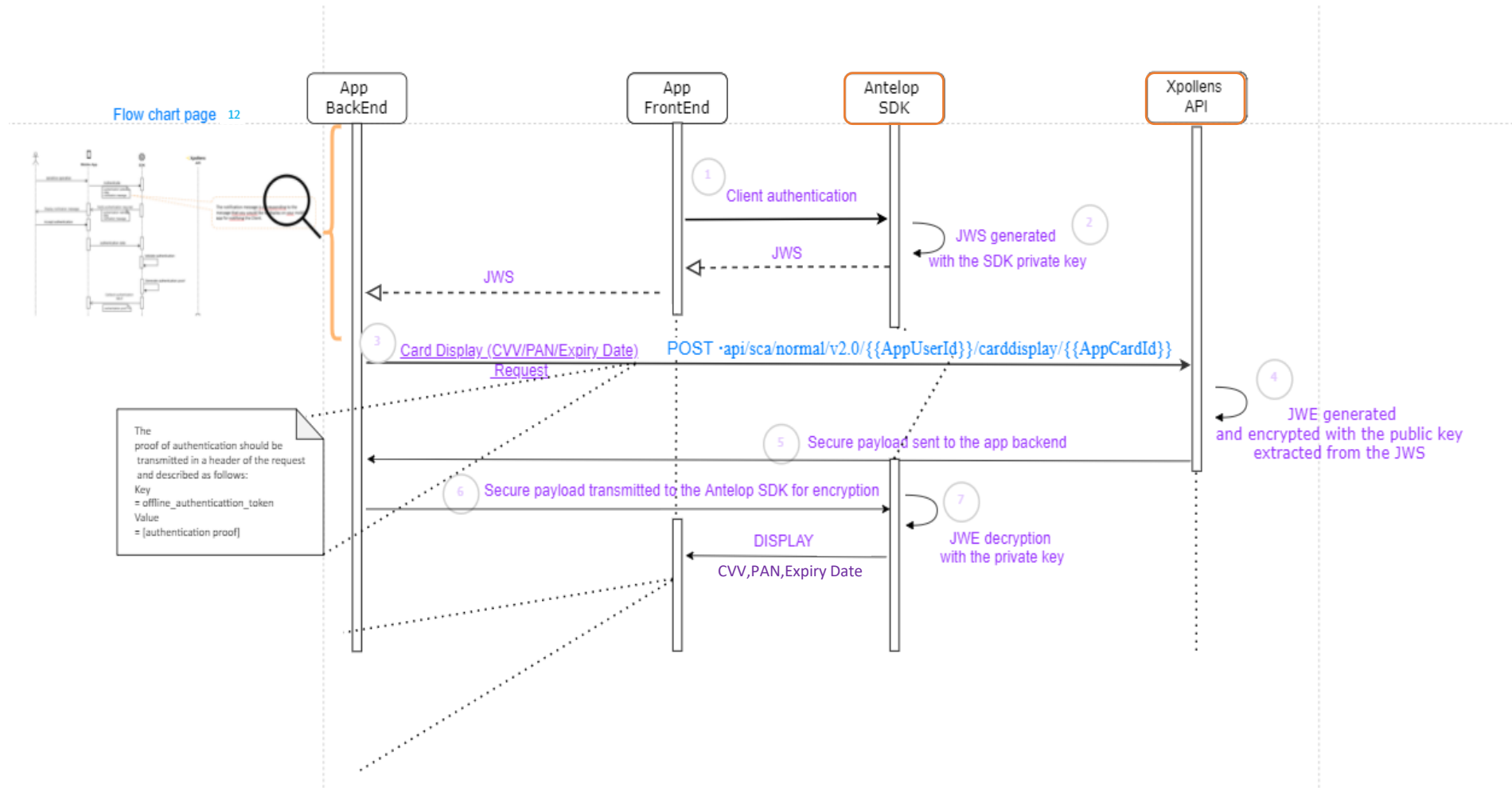
Card Display flow chart for iOS

Display the Xpollens card PAN/Expiry Date/CVV on the user's mobile device

Secure display – Card Display (CVV,PAN, Expiry date)
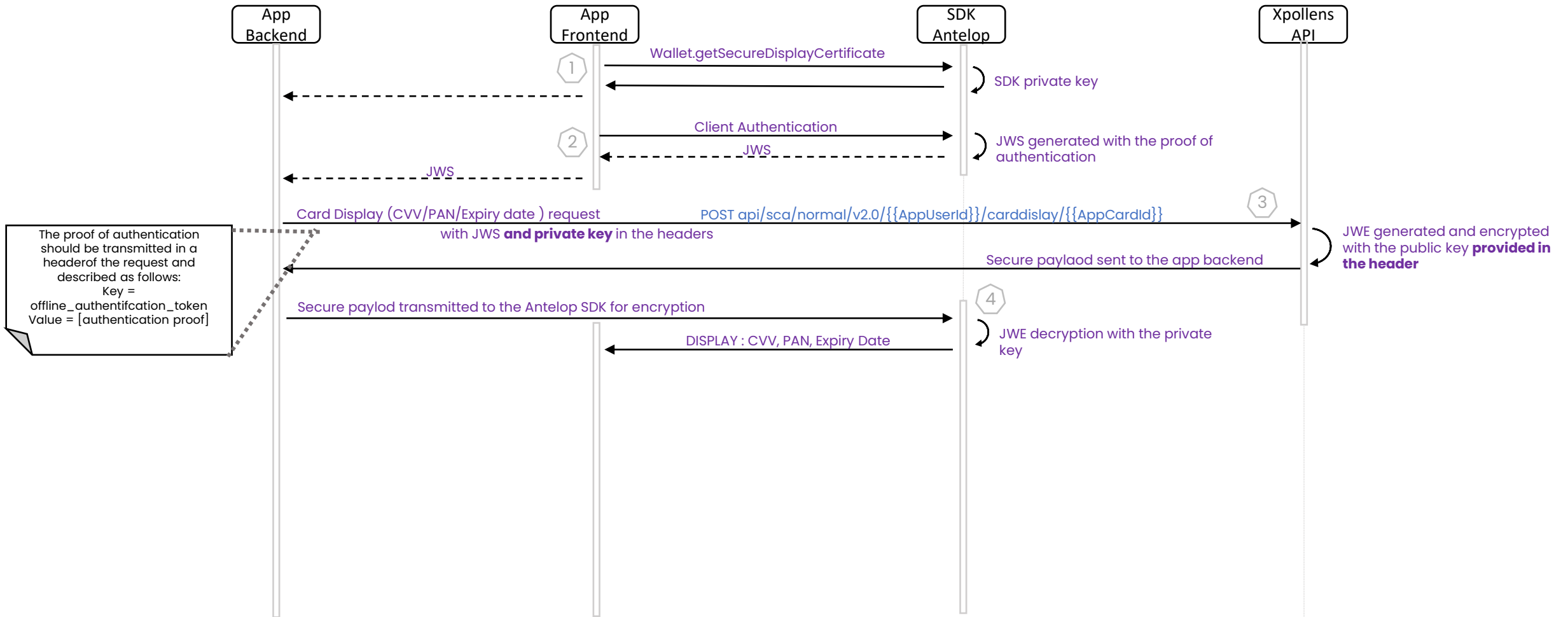
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➢ **Pre-requisites** :
  ▪ Get the « offline_authentication_token » through the SDK
  ▪ Card status should be 'sent' or 'Activated'

➢ **EndPoint** : **POST** api/sca/normal/v2.0/{{AppUserId}}/carddisplay/{{CardExternalRef}}

➢ **Inputs**:

Field	Format	Required (Y/C/O)	Settings	Description
offline_authentication_token	string	Y	Header	The proof of authentication (or JWS) should be transmitted in the header of the request and described as follows: Key = offline_authenticattion_token Value = [authentication proof]
secure_display_certificate	string	C – **for iOS only**	header	Certificate obtained by prior call to the Antelop SDK *Wallet.getSecureDisplayCertificate* Transmitted in addition to the offline_authentication_token
CardExternalRef (= AppCardId)	string	Y	path	Card Reference attributed by the partner. The card status should be 'sent' or 'Activated'
AppUserId	string	Y	path	User Reference attributed by the partner
channelCode	string	Y	**BODY**	The channel used to display the PAN/CVV/Expiry Date. List of possible values: 04 = by computer 66 = by phone 72 = by tablet

➢ **Output**:

Field	Format	Description
secure_payload	string	The secure payload containing the PAN/CVV/Expiry Date, to be sent to the Antelop SDK for decryption & secure display
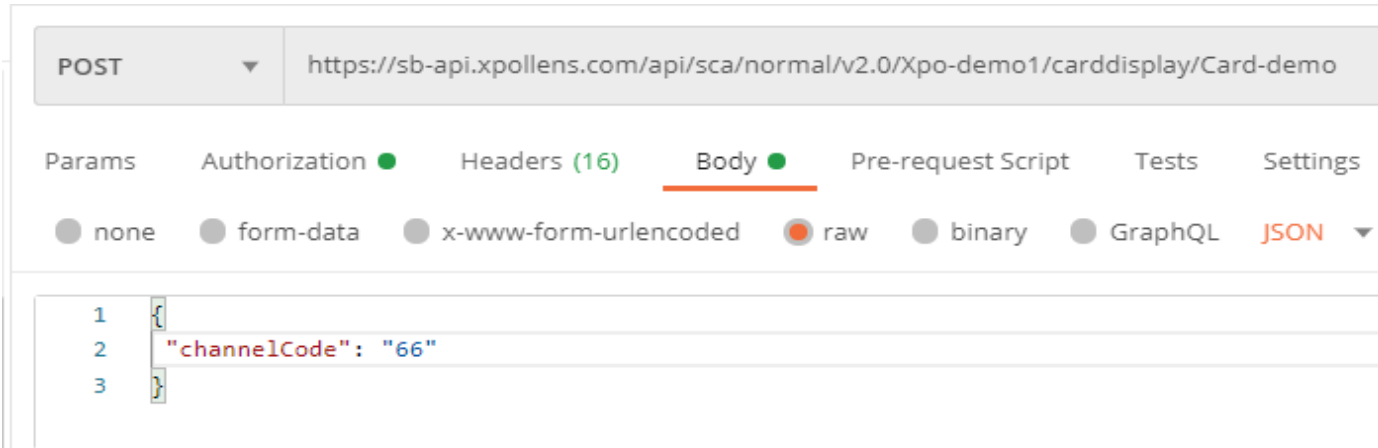
Secure Display – Card Display (CVV,PAN, Expiry date) for Android

- **Example:**

URL: POST https://sb-api.xpollens.com/api/sca/normal/v2.0/Xpo-demo1/carddisplay/Card-demo

Example of Secure payload (or JWE) generated:

"{\"secure_payload\":\"eyJhbGciOiJSU0EtT0FFUC0yNTYiLCJlbmMiOiJBMjU2R0NNIn0.lx1ZYYz3ummyrlusRwJRMMf6-mLCsPSAVboqjary9UYaCT_MCd312Bos7kiLLa-
RCFYMpD4lDZp53iYnelrMJ6DK8-lSt7dwHX6auXDdIFPccs0N8T9MQ-t-
ONWZFhR2dmP26GSpZuaAgFqNMmov8nJeF_B1CbzmTYS9DKYOofSDUAtWfB4lmjH8btVhkvCMHVcYkQSVam_yqhzA4ISp_k6zg9ej_I05Sz5cyuCIGZ069aBHUNOcoa-
n88b63BZjYhLhkdZEZWsPkJ7UN075EzGR9jM8-rU3Y-zhtzjwK6pX7GFL-KNH_cFWXczQ-nAZ4ilaxgSWsPF5w3Yi7tpTdSBwyB8jJTRZg8BvW-m9-
suKhGABKVbkf_hnld0ZISAwMebTxrh2wqxs9ct52vADIUCgaCd2R5N5YKgPEeTiP3WB99R0_vFigm2yKoGFmVsg2-
BzBhj3BT_algbFALVmqM4PM62bFOGKqXBa18xORP4zJWqVdajSBZY2ViMHAsNz.owRHkohCu665_YyI.jMGJ5Ff9-jwTglUo2SQUmq-
2dO2mVBlYrUbq5Cyl48AgtDnvgXTIwOlMiEXWsHm4UrEs19T83VPxshWQc0Pb2vYU_v5WGCi9a-
0NmJ_pmCgSySxF_LcA_mla_7YasbK81yA2cKrywsMkZrKpSC0DrLzGCPsgzmJ2Sf27_VzLHtDwMU5ic1tPdvytS_yBepurQx2TVb5W3eb4olMh6rY5tlst27p6g3rQPZP564jedD9omdhgX47rU
NboDtANR-CuU6BcYdDkaqrS9nHd5aFQlJERKpIp7WWvGYObSlAf-vEzp3ao5EQwApJM-0hH8ph1Db9r5mtCXNU7jh0gAobQm5AYKDoOoQYaekT4-
OsxRxCqmvxgvBNUMTWaa_iEePrSastokw3D_0Lz2PnSr4lhDPeZh0ktjtsvFe1QjyFtcGVQiHOE26J7L5rc9h2pNclTX96o8FQrHEn4apZ3YdyLrmrW520eqZDjiAHLUHrFzMt6mO0MjfO8gSSRi
qSz__ZoOjx2gqQh2PmcCY9zgVFx43pnjfpNLem5omThS-vL4_8OlORlsxZSAkknoK2WHDRsCFcn1KZxwK4L4_iKZ8NVoRXeiAN2i0artKK0uM9ZAOSZ9ZP95U2NK_715jYZp-
bRNvRcCogOc8JwBpTSJTwarEAli3_T1PzD0WM3coDQTRPo3PE9YLj0h6MWn5f6RQzfWuLZIHAyL20q0Jd_4ABSaFlfEURLhjN9EmD0-
eV3CIh_vUIjU5NZ6ZK0PMlEFUYyJ_Lp2pjV1n4kZhJbn1Yst5rmUNNeyIWaSIbjWJtEEpSaLCli4zmjlJBQ85mnGLx5fEHkbJ0siAMm-85-
xLGS9m7qEDsapqlDcwwRKJmWa5yJIexcl1GDgaEsyfhmGkH2NvRnT7QEXW-Uhn6iQTCNQOuq6sLr.-AM3KAeyPrbl7tN28IcDyQ\"}"

Secure Display – Card Display (CVV,PAN, Expiry date) for iOS

(1) secure_display_certificate:

LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSUZHRENDQXdDZ0F3SUJBZ0lPQWFIUzRXSXdYOUwvd2lKNDZYQXdEUVlKS29aSWh2Y05BUUVMQlBd2daNHgKQ3pBSkJnTlZCQVlUQWtaU01Rd3dDZllEVlFSURBTkpaRVl4RGpBTlJnTlZCQWNNQlZCaGNtbHpNUkF3RGd
ZRApWUVFLREFkQmJuUmxiRzl3TVJBd0RnWURWUFMREFkQmJuUmxiRzl3TVlwd0d3WUpLb1pJaHZjTkFRa0JGZzV2Cm NITkFZVzUwWld4dmNDNW1jakVlTUN3R0ExVUVBd3dsUVc1MFpXeHZjQ0JQWm1ac2FXNWxJRUYxZEdobGJuUnAKWTJGMGFXOXVJRkZWUVV4SlJ
qQWVGdzB5TWpBM0lERXhNelF3TkRYUZ3MHlNekEzTURFeE16UXdOREphTURBeAlREFhQmdOVkJBTU1Fek16TVRBek5EQTRNRGt5TlRBME16ZzRORE14RURBT0JnTlZCQXNNQjllaGRHbDRHWE13CmdnR2lNQTBHQ1NxR1NJYjNEQUVCQVFVQUE0SUJqd0F3Z2dHS0FvSUJnUU
RzUXM4dzhwdzJEOGwwQmkzb2d5bM24KYk5YZ0kzdjdCQ29seU9UMlpKSE9XbW5tZFdsKysrZGwsSrnNETXA0ZisydjlKWHRjNjJtK3FqaXBnajdSbi8ySgpUc3YzSVNCOEdrYzUzUHV3am82NkxmbDhZVUx5QnFrVXBJL0NyM2VmaHlld0lKSEpsaVRGK0FCbU9pSZiVXIZCkty
MGlrWUlubkRYckc0VXlEZmp1b2VVMnlGTWtvdnJxNWtHTlBnRzl2cWlFTlZ5NndlN3BzbkhsYUNnaFFIaGQKbHZZZnlwdjVHeHJEZXAzc2RQamhiY2dib0dzbllUYzlUUUJ5Vk1qUU1FeVd4cEt3cEzvZ3VEVm5HbTkyU0s4bgpJRDNmQUc4Y0ExR0tQL1drNUdDRnJLSmxBMEgvNn
FiWHYrMzlib0c2eGh4M3JHUUlmRzltUHJBN092bU9UVUk2CkZjb3hFMEhuSkdua3B0QU9yUzg2N2lMN0tkdnlnUFElOXpxM0lqMHJ6M25JeGtVRmcyRkpiaWFyajkrb0ElMlAKMFVDNWNuc2NvYzB0MzR5cUlGSUdBemZmakhoS3JXVFlWdlhyKldabFVCL2RVaWJlRTBOVm
pjclV4a04xVTZVQgp1dTZzZ2RRLy8welExOXlPWXlMa3pLaUlJelB5N1hqb3ZtY1lxcTZhOTdzQ0F3RUFBYU5CTUQ4d0NRWURWUjBUCkJBSXdBREFPQmdOVkhROEJBZjhFQkFNQ0JhQXdJZllEVllwakFRSC9CQmd3Rm9BVVovUGkzSUM5NkFML3RHVHcKaU9uYk54ZFlmNXN3
RFFZSktvWklodmNOQVFFTEJRUURnZ0lCQUllemNTZTJveGlHZVlVNVFtM1h1WHB2Vm83WApDaTg0ZmJoN1VVTVdHV2pTWGtGSWZoR0ZTekVWdU5oMkJ4L2ZPdFJnTFRra3lvaFdiWFNkZklzZVVBUU9DNDc5CmMwOVdJNHBlUlNQQldRSUVzdDVvVENhZ3ljSVJiMG9VQTF
DcnFmMVRUVTJkbVBrbTlFNldWbThkRGhvUzVlVDUKV0RoVEtreTlEd0l3bkNVTVltYlNoRFVza1gzcGM2bGlMc2s1U3ZRL2ZtSUNTZGtDSzhEU0RMTi9wN1pkbnhLNApuRDRvbko3WGxzbzczTit3aCtGTGs0VGlNM2M4d0JLYllJMjEvaC9CQlFLWVo2RnNUw5RE9yYkVBRHhKeFFQZUkvdApVUUFSNXBlRExZKzRsUGgvM2o4
bUtmY3JjS1ZKWjhETlhxdjNPM1Y4QkZLOEJaVWJrQU9NZU9laDYyYUpFYZBnCllUVjgrTHZYNWxmZmRmL09qNzhiSmRtcVVhbnA3eXRRcjBwK2hDekdubEpDTG5idzcrQThaZERBWVE2eUdhalgKNjZINjV6cWprSkwza1d3a2hxQ2FnMW00K3M0WlhqUmlVaUxCTis0S1JCSWt
aMkxONzFhVEpTV3FFOUxTUGt2cgpLcWpneGVROS95U0ZJNmZlckxndzJMRlQ5SmpkMEllS1htcHVDS0huS05XaDhlTkxiTm1lbnJxLzZ3V0VXREluCmN3VlFqNWVwbitVTU8zU2YKLS0tLS1FTkQgQ0VSVElGSUNBVEUtLS0tLQ

(2) offline_authentication_token:

eyJhbGciOiJFUzIlNilsInR5cCl6IkpXVCIsIng1YyI6WyJMUzB0TFMxQ1JVZEpUaUJEUlZKVVNVVWkpRMEZVUlMwdExTMHRDazFKU1VSlZFTkRRV0pYWjBGM1NVSkJaMGxQVVdGSVV6UlhTWGRZT1V3dmQyMUtORFpWVlhkRVVVbEtTMjlhU1doMlkwNUJVVVZNUWxQbmQyZGF
OSGdLUTNwQlNrSm5UbFpDUVZsVVFXdGFVMDFSZDNkRFoxbEVWbEZSU1VSQlRrcGFSVmw0Ukdw QlRVSm5UbFpDUVdOTlFsWkNhR050YkhwTlVrRjNSR2RaUkFwVlVWRkxSRUZrUW1KdVVteGlSemwzVFZKQmQwUm5XVVJXVVZGTVJFRmtRbUp1VW14aVJ6bDNUVkl3ZDB
kM1dVcExiMXBKYUhaalRrRlJHMEpHWnpWMkNtTklUa0ZaVnpVd1dsZDRkbU5ETlcxamFrVjFUVU4zUjBFeFZVVkJkM2RzVVZjMUljcFhlSFpqUTBKUVdtMWJMkZYTld4SlJVWXhaRWRvYkdKdVVuQUtXVEpHUUdWE9YVkpSa1pXVXZWNFNsSnFRVlZHZHpCNVVRXcEJNMDFFUl
hoTmVsRjNUa1JLWVVaM01lbE5la0V6VFVSRmVFMTZVWGRPUkVwaFRVUkJIQXBJUkVGaFFtZE9Wa0pCVFUxRmVrMTZUVlJCZWslRVFUUk5SR3Ql VGxSQkFMTZaelJPUkUxNFJVUkJUMEpuVGxaQlFYTk5RakkxYUdSSGJEUmhXRTEzQ2xkVVFWUlkNaMk54YUd0cVQxQlJTVU
pDWjJkeGFHdHFUMUJSVFVKQ2QwNURRVUZTWm1ONEsxWnNUemh6WnpWWlZXVTFiemcwYlhCMWlxa3pTWGxDWlU0S2MySjFMMHhqTjBwUVVFTjVaVzl6WWtkcU5sRktkazF0YlNzNGFqRmtWSGhQV2lkUE16UlJTbWhTWW5Odkt5OU9SbUpCV1dGQldrWnZNRVYzVUh
wQlNncENaMDVXU0ZKTlJVRnFRVUZ0VVRSSFFURlZaRVlzUlVJdmQxRkZRWGRKUm05RVFXbENaMDVXU0ZOTlFrRm1PRVZIUkVGWFowSlNiamdyVEdOblRETnZDa0YyS3pCYVVFTkpObVJ6TTBZeGFDOXRla0ZPUWlkcmNXaEHJnVVMl1ZHpCQlFWRnpSa0ZCVDBOQlowVkJi
bmRPTmpSUE0wZExPRUppT0dSTGJXVlBSVWdaLV2tselpYSTBUemxsTVRob1ZrUlVSbTlMYW5KMk4wadGtWbEJTTUdOdVowaEhUVk5EYTB0TVdYb3hNV1ZUWjFaUmVYZE1VVEkyVVZGMFJHMTVjVGh3TlFwaUwxZzBaekJUTUN0UGFrUlFXVkIlYm1zNFUxTklxY3a3hJUmpaNk5Ha
HdTbmQyZEVGR2EyWlBSRU5YT1hkSVNYTnphRFZwZVdNdmEyaDFWRkY1VW1aRENtTlhVRnB2ZUcwNWVEVnZjRzFTV0M4d1REVXpTSFp4YUZCSmJETlZXRzFNY3pjMVVVdExUekJTZUdkNU4wVndOWFpNVG1NNE1tUk9SV2xtZEU5UFdWa0tWRE5pZERGeVYySkRjV05UTm1ke
WRUVnNXa0pWVFRaGgREWnpjVFJ6UVVVVmVsQnVNWFlzVVVGemFXVXlNM2RsTDB4RFQwbGhUV2QlVjBneGQwOUxSd3AxTmtWNWJEQkpaV3hUU3pJeU5rczJWUzlHY3pWRGlxWnZTMnB6ZERZM05sUnRWSGhlTW5VMkluaHpUamglTjBoTGVXNXVVUZoY0VkS2FY
cG5Obkl5Q25wTVMzZZBRbFp0VEd4MFVYRXpNSGRQYm5selVVZGlhWE0wTVhRNU1VZGFaRlZxZUZoYWJtVkNaMmxMUWpsUU4xaHNXRE15ZVRSMU1GbE5UMkpWTlVzS1ZsWnZXV1ZUU0ZKWmRrZFNhblpLUlRKUlJHMDNkV05PUzFOWVdWTXlablZrZWpCUE5FTmxNM0l2ZF
dSeVFWZ3JhaTlNUWtaSmJFOVZZVlJhVWrdlZncGtkblV6WTAwMWNteEtiME0wUlVodlRrWkhjMngxWW5CeFQwdFRRbThyZFhOeWFGRXhhRXBzS3paSlprVk9NbGxoVldGUlpuVktlV0plUkVOclkycHhDbE55ZGtWWE9VNVFaR2RzVEdWUGlxTlZRMl4Y0ZwWVRHSXdlVzFM
YTJOU1JXaHZZalJtVUU5R04xcHBiak5WV0Vnd0szSTJOM2xZUlZWTlZqSTBZemtLVWlzeFZuQkhNaXRaTDNsMWRlcFFFOM0l2UkhaWVp6SmtZMFJNUnpCdFVuVnlUekJJZFd0c09VeEVhWFJ6ZDJoQlEwWklLMGNyU0ZweWN6STBNV3hrY1FwdU9VOHZZbkpIWVZCdlJrNUZW
VWR5VVdvM0wwMWFPRDBLTFMwdExTMUZUa1FnUTBWUlZFbEdTVU5CVkVVdExTMHRMUT09Il19.eyJpc3MiOiJodHRwczovL2FldGguYW50ZWxvcC5pbylsImlhdCl6MTY1NjY4MzA3MCwic3ViljoiMzMxMDM0MDgwOTllMDQzODg0MylsImFtcil6WyJIWUJSSURfUElOIl0sImFl
dGhfcGF0dGVybil6lkJJT09SUElOliwidmFsaWRhdGlvbl90eXBlljoib2ZmbGluZSlsInNpZ25lZF9kYXRhljoiVTJsbmJpQjBhR2x6SUdSaGRHRT0ifQ.lR_e461jaNKSJcoYQzSEvJr9RXNnLEquySP-b1GO7lWmRQFD-a98VsxMcZXB72-AuBmlMjDkfihWSAEKVsLvMQ

(3) {{URL}}/sca/normal/v2.0/07062ccaJ/carddisplay/07062ccaJ_PP1

(4) secure_paylod transmitted to the Antelop SDK for encryption

Server initiated authentication

Refer to https://doc.antelop-solutions.com/latest/wallet/sca/sca-intro.html#_server_initiated_authentication

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Server initiated authentication flow chart

In this workflow, the user's strong authentication **is initiated via Antelop Wallet server, post Xpollens API call**.

- The user's authentication occurs during the API process, **and the sensitive operation result is provided in 2 steps :**
1. **Synchronous reponse** : « Precheck result » to inform the client pre-checks are OK, Authentication process is about to occur followed by the Xpollens sensitive operation processing
2. **Asynchronous Authentication Status + Sensitive operation return provided through the Callback type 36**

- Xpollens APIs using the server initiated authentication are described in the next page.

- In this case, you do not manage **the authentication proof :** it is not provided as an input of the sensitive operation Xpollens API.

- « callback type = 36 » is described further

Sensitive operations

List of Xpollens « sensitive operations » APIs requiring the Server initiated Auhtentication workflow :

	Sensitive operations	Xpollens Endpoints	Documentation
User's onboarding	• Modify a User - Legacy endpoint • Modify a User - Target endpoint • Send User's accepted gcu	• PUT /api/sca/v1.1/users/{userid}/ - DEPRECATED • PUT /api/sca/v2.0/users/{appUserId}/ • POST /api/sca/v2.0/users/{AppUserId}/cgu	See webdoc : https://docs.xpollens.com/
Transfer	• Create a bankaccount • Modify bankaccount • Create sct • Create sct recurrent • Create sct planned	• POST /api/sca/v1.1/users/Appuserid/bankaccounts • PUT /api/sca/v1.1/users/Appuserid/bankaccounts • POST /api/sca/v1.1/users/{appuserid}/sct • POST /api/sca/v1.1/users/appuserid/sct • POST /api/sca/v1.1/users/appuserid/sct	Please note that the corresponding EndPoints currently described in the webdoc do not include "/sca/" into the signature, **but should use the signature with /sca/ in order to be functional for our Agent Clients**.
Card management	• Create card • Refabricate card	• Post /api/sca/v2.0/card/{{holderExternalRef}} • Post /api/sca/v2.0/card/refabricate/{{holderExternalRef}}	Keep also in mind the fact that the sensitive operation return will be provided through the callback type = 36 (instead of synchronous return).
Transaction management	• Get transaction history	• GET /api/sca/v1.1/users/{appUserId}/historyitems	
Compliance	• Provide FATCA/EAI info	• PATCH /api/sca/v2.1/user/{appUserId}/fatcaEai	

Synchronous operation Response

Synchronous response corresponding to the « Pre-checks » related to the sensitive operation Xpollens API.
• If OK, Authentication process is about to occur followed by the Xpollens sensitive operation processing (flow chart → (1)).
• If KO, http response code is the one of the sensitive operation called with pre-checks KO & the Reason of the failure is provided into the "Reason" field

	Field	Format	Description
Header	AuthenticationId	long	Id of the Authentication Operation
	AppUserId	string	User Reference
	RequestDate	DateTime	Effective end date for the operation
	Status	enum	Authentication Status List of possible values: • Pending (if pre-checks OK) • Failed (if pre-checks KO)
	Reason	string	**http Code** of the sensitive Operation if pre-checks KO (see the corresponding API documentation)
Payload		Binary	• **null** if pre-checks OK • Payload response of the sensitive operation if pre-checks KO (see the corresponding API documentation)

Example :

```
{
"Header":
  {
    "AuthenticationId": 1234,
    "AppUserId":"Au007",
    "RequestDate":"2021-02-19T16:18:41.4570774+00:00"
    "Status":"Pending",
    "Reason": null,
  },
  "Payload": null
}
```

Callback type = 36 : return of the sensitive operation

Asynchronous Authentication Status + Sensitive operation return provided through the Callback type 36 (flow chart → (2))

	Field	Format	Required (Y/C)	Description
Header	AuthenticationId	long	Y	Id of the Authentication Operation
	Type	string	Y	Callback Type
	AppUserId	string	Y	User Reference
	AuthenticationResultDate	DateTime	Y	Effective authentication result date
	RequestProcessedDate	DateTime	C	Effective end date for the operation
	RequestResponseCode	int	Y	Http status code of the operation
	Status	enum	Y	AuthenticationStatus List of possible values: - Pending - Failed
	Reason	string	C	TIMEOUT: customer did not authenticate in due time CANCELED: customer canceled the authentication request, FAILED: customer did not successfully authenticate
Payload		Binary	Y	Result of the operation

Example of a Callback type=36 for a call to EndPoint « POST /api/sca/v2.0/users/{AppUserId}/cgu»

```
"Header": {
        "AuthenticationId": "549ee806-fbb4-4ad9-a20e-d2fb279bc610",
        "Type": 36,
        "AppUserId": "RgdmCHYJ2",
        "AuthenticationResultDate": "2022-02-04T07:50:27+00:00",
        "RequestProcessDate": "2022-02-04T07:50:27.6650131+00:00",
        "RequestResponseCode": 200,
        "RequestDate": "2022-02-04T07:48:51.899405+00:00",
        "Status": "Succeeded",
        "Reason": null
    },
    "Payload": "{\"card\":true,\"partner\":true,\"account\":true}"
```

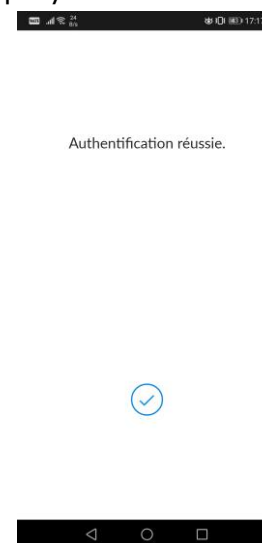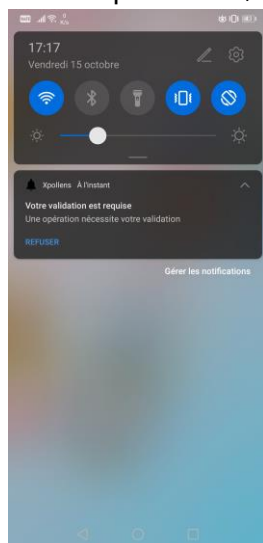# Authentication process : Notification message for sensitive operations

This corresponds to the notification sent by the SDK to the mobile App in order to ask for a strong authentication for a sensitive operation

The notification must be implemented in RAW_LIST format.
Note : The message displayed to the user depending the operation type cannot be modified and is in **French** (cf. next page)

```
{
  "notificationMessage": "Une opération sensible requiert votre validation",
  "message": "Opération sensible à confirmer",
  "format":"RAW_LIST",
  "data":[
      {"title" : "Opération", "value":"Acceptation des CGU"},
      {"title": "Compte", "value" : %Nom_partenaire}
  ]
}
```

list of sensitive operations, as well as the notification messages to display on the mobile are descrived in next page

Please refer to webdoc :
https://docs.xpollens.com/docs/kyc/identification

Authentication process : notification msg / sensitive operations

Sensitive operation	Operation	Operation details
Ajout/Modif de bénéficiaire	Ajout d'un Bénéficiaire	Nom: %Nom_Bénéficiaire IBAN: %IBAN_Masqué_Bénéficiaire
Ajout/Modif de bénéficiaire	Modification d'un Bénéficiaire	Nom: %Nom_Bénéficiaire IBAN: %IBAN_Masqué_Bénéficiaire)
Accéder aux informations de compte	Consultations des opérations	Compte: %Nom_Partenaire
Virement	Virement immédiat	Montant: %Montant %Devise Bénéficiaire: %Nom_Bénéficiaire
Virement	Virement planifié	Montant: %Montant %Devise Bénéficiaire: %Nom_Bénéficiaire Date planifiée: %Date_Future
Virement	Virement récurrent	Montant: %Montant %Devise Bénéficiaire: %Nom_Bénéficiaire Récurrence: Tous les %Quantile du mois
Commande d'une carte	Commande d'une Carte	Type: Carte VISA %Type \n %Nom_Partenaire
Modif. d'une donnée perso	Modification Donnée Personnelle	Rue: %adresse
Acceptation des CGUc	Acceptation des CGU	Compte: %Nom_Partenaire
Déclaration Fatca / eai	Déclaratifs Fiscaux	Compte: %Nom_Partenaire
Affichage PIN	Affichage Code PIN	Carte: %Nom_Partenaire
Choix Wish PIN	Choix d'un nouveau Code PIN	Carte: %Nom_Partenaire
Affichage PAN & CVV2	Affichage de votre Carte	Carte: %Nom_Partenaire

Please refer to webdoc : https://docs.xpollens.com/docs/kyc/identification

Notification message for online payment

The notification must be implemented in PURCHASE format.

```
{
  "notificationMessage": "Une opération sensible requiert votre validation",
  "message": "Paiement en ligne à confirmer",
  "format":"PURCHASE",
  "amount":"74,12 €",
  "merchant":"WWW.OUI.SNCF"
}
```

Please refer to webdoc : https://docs.xpollens.com/docs/kyc/identification