



AGENDA



SPC in 3DS [Current State]

Blockers for SPC Adoption

SPC in 3DS [Ideal future state]

Mock-ups for suggested UX Changes

3DS Specs & SPC – Current State [1/2]



EMV 3DS Reference	RP	SPC API invoked By	Supported by EMV 3DS Versions	Supported Channels
Merchant initiated SPC	Issuer	Merchant	EMV 3DS v2.3.1.1	Browser (Chrome, Edge)
Issuer Initiated SPC	Issuer	Issuer	All active EMV 3DS versions	Browser (Chrome, Edge)
Delegated Authentication	Merchant/PSP	Merchant/PSP	EMV 3DS v2.2+	Browser (Chrome, Edge)

3DS Specs & SPC – Current State [2/2]



EMV 3DS Reference	Supported Use-Cases
Merchant initiated SPC	All Payment [PA] Use-cases with one time/simplified payments
Issuer Initiated SPC	All Payment [PA] Use-cases with one time/simplified payments
Delegated Authentication	All Payment [PA] Use-cases with one time/simplified payments

Identified Unsupported Use-Cases/Gaps

Recurring Payments, Subscriptions, Installments Issue#185
Non-payment [NPA] Issue#186
UX [issuer, network logos] Issue #197

3DS Specs & SPC – Blockers for Industry Adoption



Support for Recurring Payments	Lack of more Channels	Feature Awareness	UX
 Regulated markets require users to be informed of the complete transaction details (frequency, amount etc.) The check-out/issuer challenge pages and SPC modal window may show different information 	 Currently only Chrome supports SPC Investment in SPC based solutions hindered if not supported on Safari * SPC supported in Apps through Android will help address some of these 	 SPC is a new feature and not very well understood across providers in Payments domain * EMVCo is educating industry through spec literature and white papers 	 Existing 3DS users are educated to look for issuer, network logos on authentication pages Feedback welcome

3DS Specs & SPC – Ideal Future State

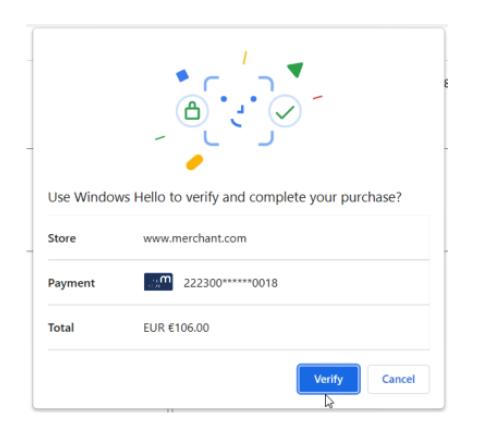


Support for other use- cases	Support on all channels	Industry Adoption	Others?
 Recurring transactions supported through SPC API Non-payment supported for ID&V UX Changes 	 Chrome, Safari Support through Apps on Android, iOS 	In the wild implementations of all SPC flows in 3DS	Feedback welcome

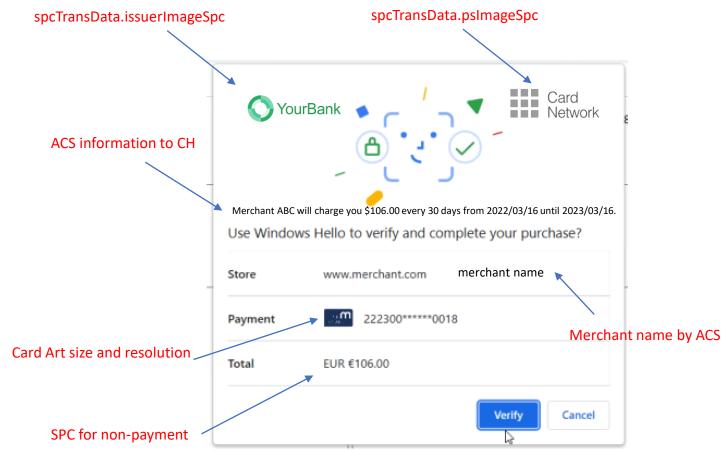
SPC UI Mock-Ups



Current SPC UI

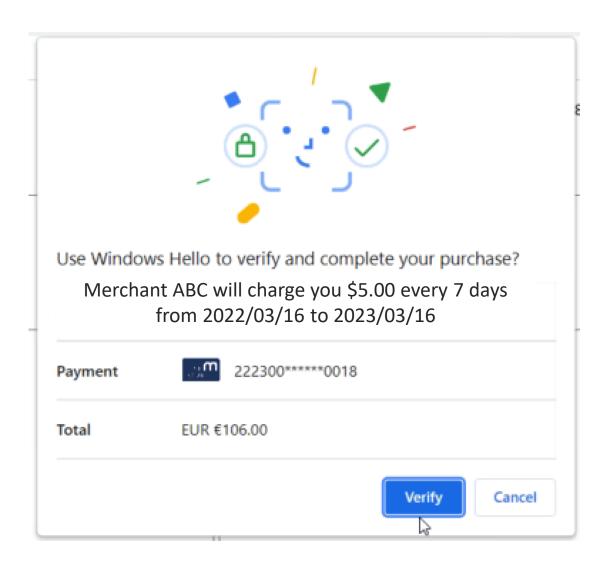


Enhanced 3DS UI



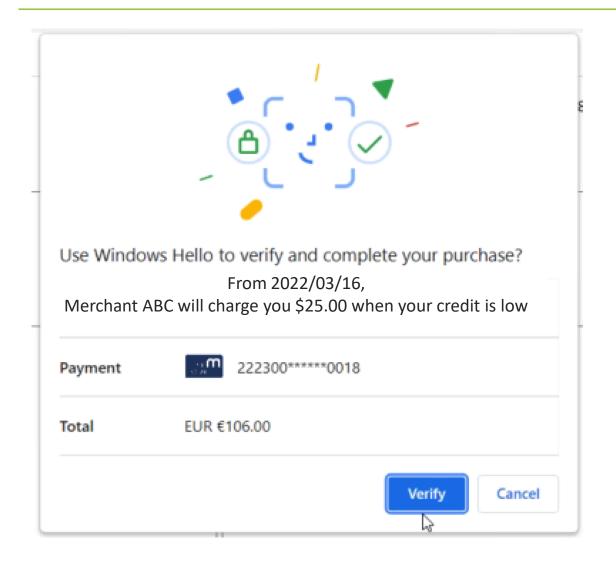
RECURRING TRANSACTION 1/4





Fixed amount and fixed frequency: example subscription newspaper, cloud service

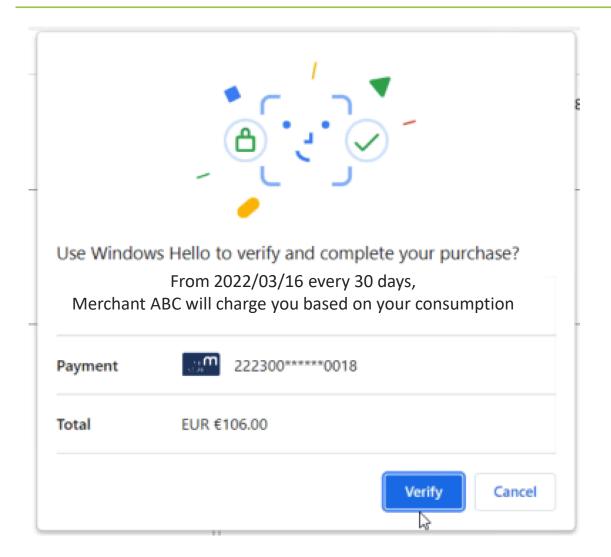
RECURRING TRANSACTION 2/4





Fixed amount and variable frequency: example prepaid train travel card with automatic top up.

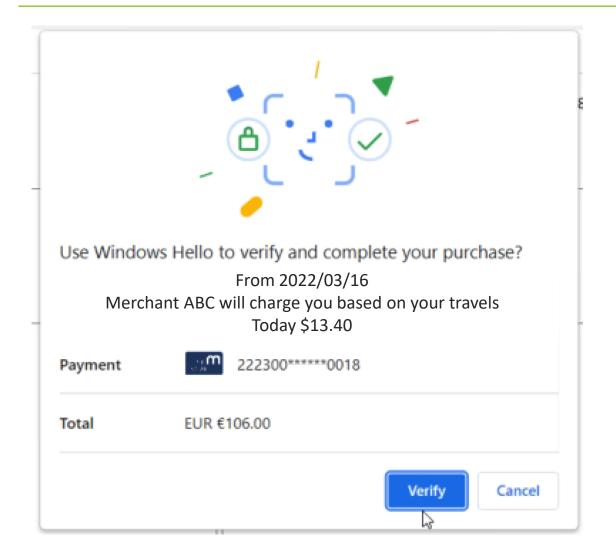
RECURRING TRANSACTION 3/4





Variable amount, fixed frequency: example utility bills

RECURRING TRANSACTION 4/4

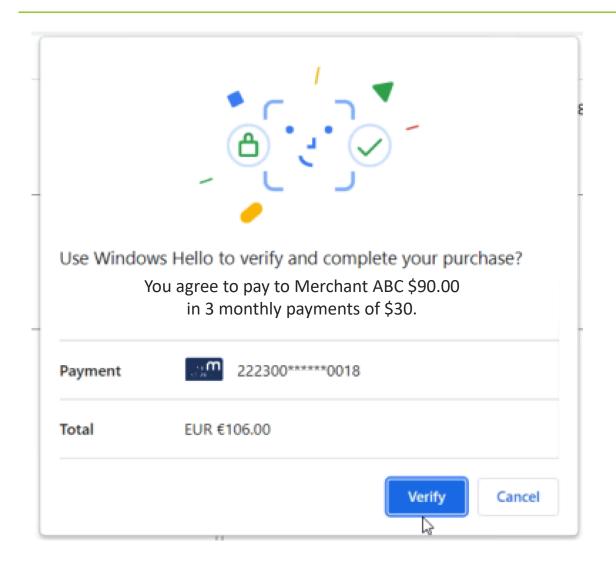




Variable amount, variable frequency: example pay per use travel journey

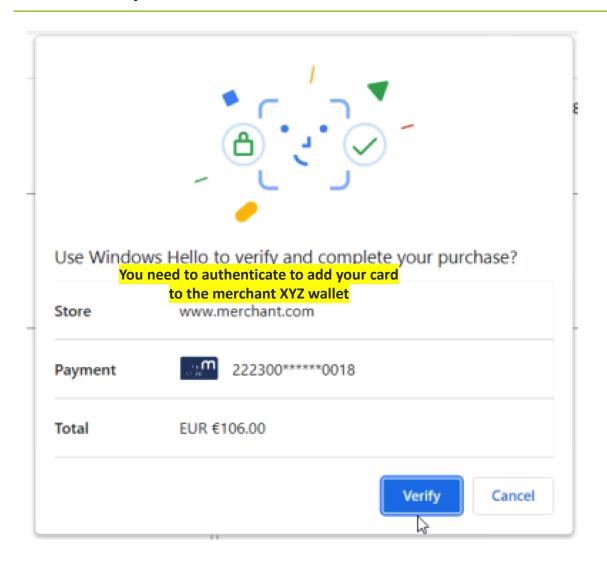
Installment transaction





Non-Payment Transaction





Suggested Data Dictionary



Challenge Info Text/Cardholder Info
Start Date
End Date (Optional)
Amount + Currency – already specified in SPC
Frequency (days)
Instalment amount + Currency
Instalment number

Suggested Data Dictionary - Examples



- 1. Fixed amount and fixed frequency
 - From 2022/03/16 until 2023/03/16, Merchant ABC will charge you \$5.00 every 7 days.
 Start date End date Amount Frequency
- 2. Fixed amount and variable frequency
 - Today 2022/03/16, Merchant ABC will charge you the agreed amount of \$25.00 based on your usage.
 Start date

 Amount
- 3. Variable amount, fixed frequency
 - From 2022/03/16 until 2023/03/16, Merchant ABC will charge you based on your usage every 30 days, today \$14.40
 Start date End date Frequency Amount
- Variable amount, variable frequency
 - Today 2022/03/16, Merchant ABC will charge you \$13.40 based on your usage.

Start date Amount

- 5. installment
 - Today 2022/03/16, Merchant ABC will charge you \$90.00 in 3 payments of \$30 every 30 days.
 Start date
 Amount Instalment nb Instalment amount Frequency

Thank You

