Data Sharing Options – U.S. Payments Forum Payments Ecosystem View

#	Option	Description	Technology	Liability Shift	Benefits	Opportunities	Network Dependent?	Usage / Business Case
1	3D Secure	 Merchant flags online transaction for 3DS treatment to be applied by Card issuer who: 1) Declines authentication 2) Steps up through pre-authorization authentication 3) Approves authentication and proceeds to authorization Merchant provides additional data and data or derived score is shared with Card Issuer 	Merchant's Payment Gateway to Access Control Server (ACS) to Card Issuer	Yes	 Established protocol Avoids fraud losses for all parties Merchant has chargeback protection for online transaction 	 Client friction may result in cart abandonment or servicing challenges for issuer May results in higher # of false/positive issuer declines ACS provider may/may not include data elements, versus score (model risk management required) Data not always clean Work required to share data elements to downstream applications at issuer Additional fees for merchants 	Yes – Not available for US Debit Networks	Limited to merchant's with larger ticket sizes and / or high reported fraud Need widespread merchant adoption to maximize value
2	3D Secure Data Only	Merchant sends pre-authorization message to Card Issuer with data fields populated Issuer utilizes data to make authorization decision with no step up requirement	Same as above	No	 Improves approval rates Data can also be leveraged in fraud prevention strategies and dispute process Frictionless customer experience 	 Expensive to build Data elements are limited –not always as defined Additional fees for merchants 	Yes – Not available for US Debit Networks	Pilot activity / one large processor only Need widespread merchant adoption to gain value from build
3	Trusted Transaction / Merchant ID	Merchant identifies population of "trusted" transactions and sends to Card Issuer to be considered as part of the issuing decision strategy	Leverages auth flow: either MID or unused data field	No	 Reduction in false positives / fraud declines leading to improvement of authorization rates Easy to measure success and adjust strategy if needed Limited / no tech development 	 MID structure or unused data element may not be available for use Merchants may need to add new 'trusted' MID(s) Merchants required to connect to multiple issuers 	No	Growing – most large issuers support Lift in approvals drive positive business case



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4	Issuer Led Connections to Merchant / Processor	Issuers receive data directly from Merchants, Fraud Risk Providers and Processors pre- authorization and utilize that data in their decisioning models	API	No	 Reduction in false positives / fraud declines leading to improvement of authorization rates Data can also be leveraged in Operations and dispute process Merchants can share declines, allowing Issuer to service calls from customer. 	 Build required for users Vendor registration / agreements required Merchants need to build connections to multiple issuers 	No	One large issuer supporting today, use growing Need adoption by processors and merchants to maximize value
5	Fraud Risk Providers Connections to Issuers	Fraud Risk Providers connect merchants to card issuers; share data or a score as part of authorization request. Issuers incorporate data into authorization strategies	API	Dependent on agreement	 Improved approval rates Data can also be leveraged in fraud prevention and dispute process 	 Vendor registration / agreements required Issuers have to connect to multiple providers Some solutions are only model based / model risk management required 	No	Many large merchants participate in services Value dependent on contract with provider
6	Network Adds Data to Auth Message	Networks Add Data from Merchants and / or Fraud Risk Providers into the Auth Stream. Issuers incorporate data into authorization strategies and send to downstream applications for servicing and dispute processing.	API	No	 Networks do majority of work Merchants / Issuers don't have to connect with additional providers Consistent approach across the industry 	 Payment ecosystem members may not want to share data with networks Merchant and Issuer fees 	Yes	Development underway Value dependent on fee structure
7	Wallet Provider Score Solution	Wallet providers provide a score for transaction via authorization. Issuers incorporate score into authorization strategies. Emerging: Wallet providers share data directly with issuers pre-authorization.	API or via Auth	No U.S. Paymen	Wallet providers have device insights across merchants Wallet provider scoring layered on top of other risk management The Forapabilities 2025	 Model risk management required for Auth or API Direct API – issuer integration with multiple wallets required Wallet provider privacy concerns with sharing data with networks 	Yes – Auth No - API	Value to be determined as solution evolves