Deutsche Bank Global Transaction Banking



Workshop on environmental readiness for ecommerce: economic, legal and institutional factors

Session 3 : E-payment infrastructure for e-commerce and cross-border e-commerce

Shanghai, China 6-7 December 2018

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For more information on Market Advocacy

What we understand

- 1. Overview of electronic payment infrastructure (method)
- 2. Interoperability among various payment solutions
- 3. E-payment for cross-border e-commerce transactions
- 4. Legal and regulatory environment

Overview. Some electronic payment methods

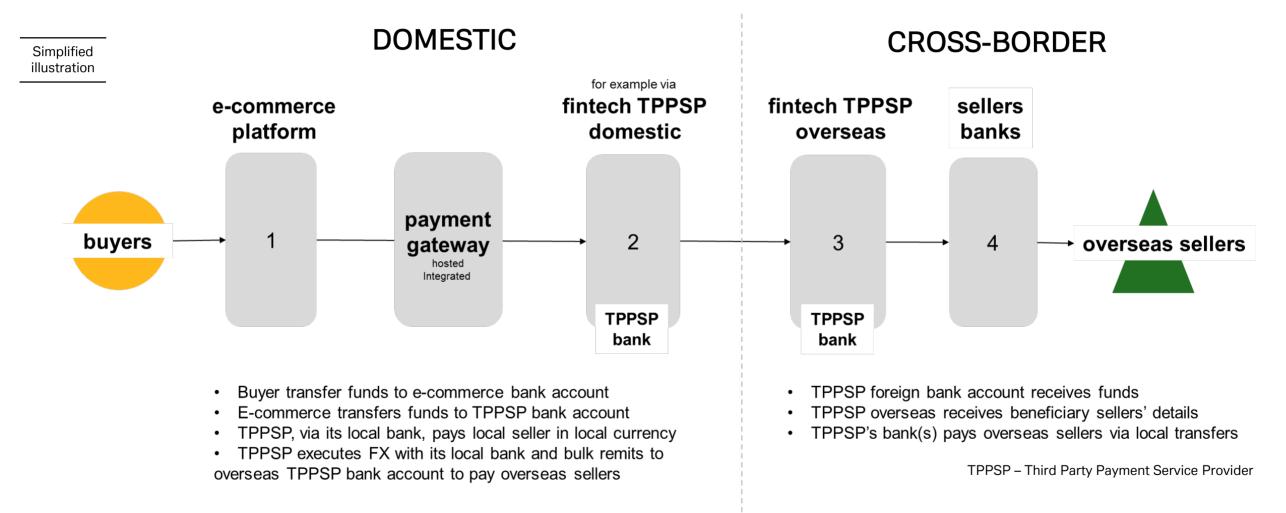
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- 1. Credit card model
- 2. Telecom model
- 3. Fintech Third Party Payment (in App)
- 4. Fintech Third Party Payment (e-wallet)
- 5. "Virtual currency"
- 6. Bank Debit Card, QR Code
- 7. Bank Instant Payment
- 8. Bank High Value Cross-Border, GPI
- 9. Future Machine-to-machine supermicro payment

cross-border payments Some banking Same payment infrastructure involvement method, "interoperability" across border Different payment "interoperability" via software payment gateway Market behavior / adoption is important

Domestic and/or

Bank and Fintech (and Telco) collaboration for cross-border e-payments



NB: Flows can be different for different cross-border payment methods e.g. QR code, Telco wallets, etc.

Legal and regulatory considerations



E.g. Payment systems.

TRANSACTION VISIBILITY

E.g. Fintech payment clearing.

ACCOUNT AT CENTRAL BANK

E.g. Restricted currency accounts, reports.

REGULATE BY ACTIVITY; DEFINITIONS

E.g. E-money, E-wallet, Stored Value, Virtual Currency, Private Money, etc.

DATA GOVERNANCE

E.g. Privacy, confidentiality, discriminative, manipulative, etc.

FUTURE DIGITAL CURRENCY

E.g. Central Bank Digital Currency and digital legal tender as digital cashless shifts trust from central bank-backed bills to technology and credit risks.

AML/CFT E.g. criminal liabilities. E.g. What is a minimal set of data. Is data mirroring allowed to facilitate transaction monitoring? Is there any spill over effect to payment systems hardware?

DATA LOCALISATION

E-COMMERCE TAX

E.g. Who is responsible to calculate, to collect, etc?

CROSS-BORDER DATA ACCESS

E.g. For enforcement purposes.

Market practice considerations



TRANSACTION MESSAGE FORMAT

E.g. Does the transaction message format contain complete information for sanctions, AML/CFT screening?

SHARED RESPONSIBILITY MODEL

E.g. what is the shared responsibilities between Banks, Fintech and Cloud computing service providers?

CONTROLS

E.g. What are the transaction controls as a result of instant payments, high-volume low value transactions?

VIRTUAL CURRENCIES

E.g. What is the expectations for KYC, fraud monitoring, AML/CFT standards on banks and non-bank participants?

FAIRNESS, EQUITABILITY & PROPORTIONALITY

E.g. What is the responsibility standard for the same data handled by a bank and fintech? Is the standard for KYC/AML/CFT and cybersecurity similar too?

Other environmental readiness considerations

ROLE OF TELCO E.g. in Telco-led e-wallets?

PHYSICAL CONNECTIVITY

E.G. Latency, network speed and the implications on e-payment transaction cybersecurity?

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DIGITAL EVIDENCE FOR ENFORCEMENT

E.g. What is a minimum set of digital evidence and storage duration? Is this standard the same for cross-industry participants?

DIGITAL ANTI-COMPETITIVE PRACTICES

E.g. Data and other new indicators of barriers to competition in e-payments. Is it anti-competitive practice or the results of faster innovation, greater adoption, network effects and efficiency benefits?

DIGITAL IDENTITY

E.g. Is it complete and reliable for KYC purposes? Can it flow cross-border to facilitate KYC/AML/CFT monitoring?

CONSUMER PROTECTION

CYBERSECURITY, DATA INSURANCE

E.g. Is there availability of cybersecurity and data insurance? What do they cover in an environment of interdependencies?

TOOLS & EXPERTISE

E.g. Are there appropriate product and policy/regulatory sandboxes, expertise availability and training?

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