ISO/TS 12812-4:2017-03 (E)

Core banking - Mobile financial services - Part 4: Mobile payments-to-persons

Contents

Page

Foreword v

Introduction vi

1 Scope 1

2 Normative references 2

3 Terms and definitions 2

4 Abbreviated terms 3

5 Specific characteristics for mobile payments-to-persons 3
5.1 General 3
5.2 Mobile payments-to-persons concepts 3
5.3 User expectations 4
5.4 Stakeholders involved in a mobile payments-to-persons program 4
5.4.1 Mobile financial service provider 4
5.4.2 Mobile network operator 4
5.4.3 Agent 4
5.4.4 Electronic money service provider 4

6 Requirements for mobile payments-to-persons 5
6.1 General 5
6.2 Device, network, and application selection requirements 5
6.2.1 General 5
6.2.2 Requirements 5
6.3 Logging requirements 6
6.3.1 General 6
6.3.2 Requirements 6
6.4 Notice requirements 6
6.4.1 General 6
6.4.2 Requirements 6
6.5 Authentication and authorization requirements 7
6.5.1 General 7
6.5.2 Requirements 7

7 Scenarios for interoperability 7
7.1 General 7
7.2 Scenario for interoperability 1 7
7.2.1 General 7
7.2.2 Three-corner model 8
7.2.3 Four-corner model 8
7.3 Scenario for interoperability 2 (cross-system payment) 8
7.4 Interoperability models for payment facilitation 9
7.4.1 General 9
7.4.2 Direct interoperability model 9
7.4.3 Common infrastructure 10

8 Implementation models 11
8.1 General 11
8.2 High-level architecture and network technologies 11

8.2.1 Layer 1: Infrastructure used to convey payment initiation and authorization messages ... 11
8.2.2 Layer 2: Common infrastructure used for payment facilitation ... 12
8.2.3 Layer 3: Value transfers and funds movement ... 12
8.3 Classification of mobile payments-to-persons ... 12
8.3.1 General ... 12
8.3.2 Mobile credit transfer payment ... 13
8.3.3 Mobile card payment ... 13
8.3.4 Electronic money transfer ... 13
8.4 Mobile remittances ... 13
8.5 High-level description for significant use cases ... 14
8.5.1 General ... 14
8.5.2 Mobile payments-to-persons by card ... 14
8.5.3 Payments-to-persons by credit transfer ... 16

9 Detailed payments-to-persons transaction flows ... 20
9.1 General ... 20
9.2 Models for the processing of mobile payments-to-persons ... 20
9.3 Bank-centric payments-to-persons models ... 21
9.3.1 Split payment over the ACH system ... 21
9.3.2 Bank-centric single payment over the ACH system consortium model ... 23
9.4 Non-bank-centric models ... 25
9.4.1 General ... 25
9.4.2 Three-corner non-bank-centric methods funded by non-bank account ... 26
9.4.3 Split non-bank centric model funded by bank account ... 27
9.4.4 Three-corner non-bank-centric single model funded by bank account ... 29
9.5 Card-based payments ... 30
9.5.1 Processing functionalities ... 30
9.5.2 Detailed transaction flow ... 30

Annex A (informative) Financial inclusion for mobile payments-to-persons ... 33

Annex B (informative) Intra-jurisdictional versus inter-jurisdictional aspects for mobile payments-to-persons ... 35

Bibliography ... 36