

Index

Table of Contents

Table of Contents.....	i
List of Figures.....	v
Executive summary.....	1
1 Premium SMS and other text or voice based payments.....	3
1.1 Introduction.....	3
1.1.1 Setting up a premium SMS payment gateway	4
1.1.2 Advantages and disadvantages for consumers and merchants	4
1.1.3 Examples of applications	5
1.2 Mobile content sales.....	6
1.2.1 Market overview	6
1.2.2 Payment methods	7
1.3 Public transport ticketing.....	8
1.3.1 Single journey ticketing.....	9
1.3.2 SMS public transport ticketing in European cities	11
1.4 Parking payments.....	13
1.5 Other micro-payments and voting.....	16
1.6 Case studies	18
1.6.1 Telenor: Mobile payment service enabler	18
1.6.2 Plusdial: Premium SMS public transport ticketing provider	19
1.6.3 Mobile-City: Prepaid account SMS ticketing provider	20
2 Next generation mobile payments.....	21
2.1 Mobile operator billing.....	21
2.1.1 WAP billing	22
2.1.2 Payment Intermediaries and payment platforms	23
2.1.3 Case study: Payfort enables cross-operator WAP billing in the UK.....	25
2.2 Transactional networks.....	26
2.2.1 Online payment networks	27
2.2.2 Mobile transactional networks	28

2.3	Credit/debit card billing	29
2.3.1	Credit/debt card usage for mobile commerce	31
2.3.2	Case study: Apple App Store – 300 million mobile credit card purchases	32
2.4	NFC technology – enabling integration of credit cards into handsets	32
2.4.1	Contact-less smartcards	33
2.4.2	Mobile NFC.....	34
2.4.3	NFC case studies from Europe and Asia.....	37
3	Mobile money transfer	41
3.1	Global money transfer outlook	41
3.1.1	The money transfer market	45
3.1.2	Cost of remitting money	47
3.2	The GSMA Money Transfer Programme	49
3.2.1	Programme objectives	49
3.2.2	Eco-system structure	50
3.3	Case studies: Examples of mobile money transfer programs	51
3.3.1	M-PESA in Kenya	51
3.3.2	Orascom in cooperation with Western Union	52
3.3.3	Tata, Idea, Etisalat and HSBC launch mobile money transfer service	53
4	Mobile banking	55
4.1	The banking sector	55
4.1.1	Retail banking.....	56
4.1.2	The Western European retail banking industry.....	59
4.1.3	US retail banking industry.....	62
4.1.4	Trends in the retail banking industry.....	64
4.2	Telephone and online banking.....	65
4.3	Mobile banking	67
4.3.1	Utilising mobile devices for remote banking.....	67
4.3.2	Levels of functionality for mobile banking.....	69
4.3.3	Mobile banking in Europe and the US	70
4.3.4	Mobile banking in emerging markets.....	75
4.4	Case studies	75
4.4.1	Bank of America – Mobile banking adoption rises in the US.....	76

4.4.2	Wizzit – Banking South Africa’s unbanked population	77
4.4.3	Sweden – Mobile banking schemes by the main retail banks.....	78
4.4.4	Rabobank moves into the operator sphere	80
4.4.5	Barclaycard and Orange partner on the UK market	81
4.4.6	The Philippines – GCASH and Smart Money attracts 9 million users	81
5	Forecasts and conclusions.....	83
5.1	Mobile payments	83
5.1.1	SMS payments	85
5.1.2	WAP payments.....	85
5.1.3	Credit cards.....	86
5.1.4	Mobile transactional networks	87
5.1.5	Mobile NFC payments.....	89
5.2	Mobile remittance	90
5.2.1	Value proposition for players in the ecosystem	91
5.2.2	Market analysis and forecast	92
5.3	Mobile banking.....	94
5.3.1	Mobile banking in the US and Europe.....	94
5.3.2	Mobile banking in emerging markets	99
5.4	Industry player analysis.....	104
5.4.1	Service portfolios.....	104
5.4.2	Market positioning.....	105
5.4.3	Future role in the mobile and financial industries	106
6	Company profiles.....	107
6.1	Mobile payment providers.....	107
6.1.1	Bango.....	107
6.1.2	Crandy.....	108
6.1.3	Ericsson IPX	109
6.1.4	Luup	109
6.1.5	mChek	110
6.1.6	Mi-Pay.....	111
6.1.7	mPay	111
6.1.8	Netsize.....	112

6.1.9	Obopay.....	112
6.1.10	Sybase 365.....	113
6.1.11	Tyfone.....	114
6.1.12	Upaid.....	115
6.1.13	Utiba.....	115
6.2	Mobile banking providers.....	116
6.2.1	Firethorn.....	116
6.2.2	Fronde Anywhere.....	117
6.2.3	Fundamo.....	118
6.2.4	Macalla Software.....	119
6.2.5	mFoundry.....	120
6.2.6	Monitise.....	120
6.3	Financial institutions.....	121
6.3.1	Visa.....	121
6.3.2	MasterCard.....	122
6.3.3	Mobipay.....	123
	Glossary.....	125

Index

List of Figures

Figure 1.1: Mobile content value chain overview.....	7
Figure 1.2: Public transport statistics for 15 European cities (2004)	9
Figure 1.3: Selection of mobile payment systems for public transport (Europe 2009)	11
Figure 1.4: Mobile parking solutions in some European cities	14
Figure 2.1: Payfort's accredited payment Intermediates (Q1-2009).....	26
Figure 2.2: Examples of online payment services (Worldwide 2008)	28
Figure 2.3: Examples of mobile transactional service providers	29
Figure 2.4: Global market shares for general purpose cards (Worldwide 2007)	30
Figure 2.5: NFC handset and reader	35
Figure 2.6: Examples of mobile NFC projects (Worldwide)	36
Figure 3.1: Top 10 remittance recipient countries in US\$ billion (2008)	42
Figure 3.2: Remittance flows to different regions in US\$ billion (2002–2008).....	43
Figure 3.3: Sources of remittance to developing countries in US\$ billion (2008)	44
Figure 3.4: Sources of remittance in US\$ billion by recipient regions (2008)	45
Figure 3.5: Main players in the international P2P remittance market (World 2007)	46
Figure 3.6: Average cost for sending US\$ 200 between different countries (2008).....	48
Figure 4.1: Top 10 banks (Worldwide 2008)	56
Figure 4.2: Retail banking revenues by region (2006).....	57
Figure 4.3: Split of fees for retail banks by region (2008).....	58
Figure 4.4: Average cost with local usage pattern by region (2008).....	59
Figure 4.5: The largest European retail banking players (2008)	61
Figure 4.6: Top 10 US retail banks (2008)	63
Figure 4.7: Monthly online banking users as share of adult population (2007)	66
Figure 4.8: Levels of mobile banking sophistication, examples of functions (2008).....	69
Figure 4.9: First major US banks to launch mobile banking	71
Figure 4.10: Selection of European mobile banking launch dates	72
Figure 4.11: Willingness to adopt mobile banking services (Germany 2007).....	73
Figure 4.12: Perceived disadvantages of mobile banking (Germany 2007)	74

Figure 4.13: Bank of America's mobile banking application	76
Figure 4.14: Main features of mobile banking services in Sweden	79
Figure 5.1: Primary areas of use for mobile payments	84
Figure 5.2: Comparison of payout rates for WAP billing and credit cards	86
Figure 5.3: Examples of mobile payment payout rates (UK 2009)	88
Figure 5.4: The largest receivers of remittance and mobile penetration (2008)	92
Figure 5.5: Mobile international remittance revenue forecast (US\$ million)	93
Figure 5.6: Business model for mobile banking and payments	95
Figure 5.7: Internet, online banking and mobile browsing in the US (1995–2008)	96
Figure 5.8: Forecast of active mobile banking users in the US and Europe (2008–2014)	98
Figure 5.9: Bank account access and mobile penetration in selected markets (2008)	99
Figure 5.10: Major mobile financial services deployments in emerging markets (2008)	101
Figure 5.11: Forecast of mobile financial services users (APAC and MEA 2008–2014)	102