

Table of Contents

Glossary	11
Executive Summary	
<hr/>	
The Chinese Telecoms Opportunity	13
Figure ES1: Telecom Revenue Growth Rate (%) vs GDP Growth Rate in China (%)	13
Table ES1: Telecom Revenue Growth Rate (%) vs GDP Growth Rate in China (%)	14
The 3G Opportunity	14
Regulations & Navigating the System	14
Market Entry Strategies for 'Foreign' Participants	15
Standards & Technological Challenges	15
W-VAS Chinese Operator Strategies	15
Figure ES2: China Mobile Blended MOU (\$) and Blended ARPU (\$).....	16
Figure ES3: China Unicom GSM & CDMA ARPU (\$) Trend	16
Figure ES4: China Mobile VAS Revenue Mix (\$m)	17
Figure ES5: China Unicom W-VAS Revenues (\$bn) & Total Service Revenues (%), 2004, 2005, 2006.....	17
Table ES2: Total SMS Volume in China (bn) 2003 – 2006.....	18
Issues of Convergence.....	18
Table ES3: Internet Connect Method: Broadband User (%) 2002 – 2006	18
Figure ES5: Internet Connect Method: Broadband User (%) 2002 – 2006	19
Understanding the Monternet & Uni-Info W-VAS Business Model.....	19
Figure ES6: The Monternet & Uni-Info Business Model – Revenue Share	20
Positioning & Strategies of Other Key Players.....	20
Market Forecasts	21
Figure ES7: Mobile Phone Subscriber Base (m) Forecast 2007- 2012.....	21
Figure ES8: 3G Subscriber Base (m) Forecast 2007- 2012.....	22
Figure ES9: Voice and Data Revenues (\$bn) 2007 –2012	23
Table ES4: Voice and Data Revenues (\$bn) 2007–2012.....	23
Table ES5: 3G Market Revenue (\$m) Forecast, 2007 – 2012	23
Figure ES10: 3G Market Revenue (\$bn) Forecast, 2007 – 2012.....	24
'Hot' Applications Forecast	24
Mobile TV / Mobile Video.....	24
Table ES6: Mobile TV/Video Subscribers (m) & Revenue Forecast (\$m) 2007–2012.....	24
Ringtones and Mobile Music.....	24
Table ES7: Total Mobile Music & 3G Mobile Music Revenue (\$m) Forecast 2007-2012	24
Mobile Games.....	25
Table ES8: Total Mobile Games and 3G Mobile Games Revenue (\$m) Forecast 2007-2012..	25
SMS/MMS	25
Table ES9: SMS/MMS and 3G SMS/MMS Market (\$m) Forecast 2007-2012	25
Location Based Services	25
Table ES10: Mobile LBS Market (\$m) and Subscriber (m) Forecast 2007-2012	25
Potential Hurdles.....	25
Government Involvement.....	25
Guanxi	26
Market Access and the Value Chain	26
Figure ES11: The Generic Model of W-VAS Value Chain – The Evolving New Model for the Chinese W-VAS Market.....	27

Handsets.....	27
Table ES1 I: China Handsets In-Use (m) and Growth (%) 2007-2012.....	27
Market Entry Models	28
Figure ES12: Market Entry Model: Wholly Owned Foreign Enterprise (WOFE).....	28
Figure ES13: Market Entry Model through Partnerships.....	29
Conclusion	29

I. Market Review

1.1 Current Developments Influencing China’s Telecom Service Industry	32
1.1.1 Growth of the Chinese Telecom Service Industry.....	32
Table 1.1: Chinese Telecoms Revenue Growth Rate (%) vs GDP Growth Rate (%).....	32
Table 1.2: Basic Telecommunications & Value Added Services (VAS) Telecommunications Revenue Growth Rate (%) vs GDP(%).....	32
1.1.2 Mobile Phone Subscription Growth.....	32
Figure 1.1: Growth of Subscribers (m) 2001 – 2006.....	33
Table 1.3: Growth of Subscribers (m) 2001–2006.....	33
1.1.3 Growth of the Internet and Broadband Sectors	34
Figure 1.2: Connect Method: Broadband User % 2002 – 2006 %	34
Table 1.4: Broadband Internet Connections as a % of Total Connections, 2002–2006.....	34
1.2 3G Market Drivers	34
1.2.1 The Revenue Growth Challenge	34
Figure 1.3: Revenue (\$bn) & Growth Rates (%) 2001-2005	35
Table 1.5: Revenue (\$bn) & Growth Rates (%) 2001-2005	35
Figure 1.4: Telecom Sales Volumes (\$bn) vs Revenues (\$bn) 2001-2005	35
Table 1.6: Telecom Sales Volumes vs Revenues (\$bn) 2001-2005.....	35
1.2.2 ARPU & ARPM.....	36
Figure 1.4: Mobile ARPU and ARPM, Fixed ARPU and ARPM (\$) 2002-2005	36
Table 1.7: Mobile ARPU and ARPM, Fixed ARPU and ARPM (\$), 2003-2006.....	37
1.2.3 Technology Convergence and the Development of Value Added Services.....	37
a. The Impact of 3G.....	37

2. The Impact of 3G Regulations

2.1 The Regulatory Regime: Multi-Government Department Control.....	39
2.1.1 The Regulator - Ministry of Information (MII).....	39
a. Regulations on Telecommunications of the Peoples Republic of China	40
2.1.2 The Regulator - SARFT (State Administration for Radio, Film and Television).....	41
2.1.3. The Regulator - The Ministry of Culture.....	42
2.2 The VAS Licensing System	42
2.2.1 Licenses for Different Types of Content	42
2.2.2 Requirements & Timescales	43
2.3 The Control of Public Security	43
2.3.1 Media – The Country’s “Throat and Tongue”	43
2.3.2 Censorship Systems.....	43
2.3.3 Internet Service Provider Requirements.....	44
2.4 The Regulations for W-VAS	44
2.4.1 Categorisation of Telecommunications Services.....	44
2.4.2 WTO and Foreign Participation in Value Added Service Provision in the Chinese Telecommunications Industry	45
Table 2.1: China’s Commitments on Foreign Direct Investment in Telecommunications Under its WTO Service Schedule	46

2.5 Implications for Foreign Participants Entering the VAS Market	46
2.6 Issuance of 3G Licenses.....	47
2.6.1 3G Standards and the Implications of TD-SCDMA	47
i. The Three Competing Standards.....	47
ii. The Role and Positioning of TD-SCDMA	47
2.6.2 Latest Developments in the Licensing of TD-SCDMA.....	48

3. Major Operator 3G Strategies

3.1 The Six Telecom Service Operators.....	51
3.1.1 China Mobile.....	52
i. The Company.....	52
ii. Market Share & Business Performance.....	52
Figure 3.1: China Mobile Subscriber Base – Prepay and Contract (m) 2004-2006	52
Table 3.1: China Mobile Subscriber Base (m) – Prepay and Contract - 2004-2006.....	53
iii. Opportunities and Challenges: Declining APRU & VAS Development.....	53
a. Declining APRU	53
Figure 3.2: China Mobile Blended MOU and Blended APRU (\$) 2001-2006.....	53
Table: 3.2: China Mobile - Blended Minutes of Use (MOU) and Blended APRU (\$).....	54
b. Development & Contribution of Value Added Services	54
Figure 3.3: China Mobile VAS Revenues (\$bn) 2004-2006	54
Table 3.3: China Mobile VAS Revenues (\$bn) 2004-2006	54
Figure 3.4: China Mobile VAS Revenue Mix (\$m) - 2005 vs 2006	55
Table 3.4: China Mobile VAS Revenue Mix (\$m) - 2005 vs 2006	55
iv. China Mobile and 3G.....	55
a. China Mobile 3G Roll Out Plans	55
b. 3G Services.....	56
c. Mobile Music.....	56
Figure 3.5: China Mobile Colour Ring Back Tone (CRBT) Users (m) & Revenues (\$m), 2005 vs 2006	56
Table 3.5: China Mobile Colour Ring Back Tone (CRBT) Users (m) & Revenues (\$m).....	56
d. Mobile Search.....	57
3.1.2 China Unicom	57
i. The Company.....	57
ii. Market Share and Business Performance	58
Figure 3.6: China Unicom Subscriber Base (m) 2004-2006	58
Table 3.6: China Unicom Subscriber Base (m) 2004-2006	58
iii. Opportunities and Challenges: Declining APRU and VAS Development.....	59
a. Subscriber Profiles and Declining APRU	59
Table 3.7: China Unicom - GSM & CDMA APRU Trend (\$) 2004-2006	59
Figure 3.7: China Unicom – GSM & CDMA APRU Trend (\$) 2004-2006	59
b. Development & Contribution of Value Added Services	59
Table 3.8: China Unicom W-VAS Revenues (\$bn) & Percentage of Total Service Revenue (%) , 2004-2006	60
Figure 3.8: China Unicom W-VAS Revenues (\$bn) & Percentage of Total Service Revenues (%) , 2004-2006	60
iv. China Unicom and 3G.....	60
a. Mobile Music.....	60
3.1.3 China Telecom.....	61
i. The Company.....	61
ii. Market Share & Business Performance.....	62
iii. Opportunities and Challenges	62
a. Declining APRU	62
b. VAS Development.....	62
Table 3.9: SMS and CRT Users (m) 2006.....	62
iv. China Telecom and 3G	62
a. 1-2-3 Strategy	62
3.1.4. China Netcom.....	63

- i. The Company 63
- ii. Market Share and Business Performance..... 64
- iii. Opportunities and Challenges..... 64
 - Table 3.10: China Netcom – CRBT & Broadband Subscribers (m), SMS Volumes (bn)..... 64
- iv. China Netcom and 3G..... 64
- 3.1.5. China Satellite 65**
 - i. The Company 65
 - ii. Business Performance Highlights 65
 - iii. The Challenge..... 65
 - iv. ChinaSatcom and 3G..... 65
- 3.1.6 China Tietong..... 66**
 - i. The Company 66
 - ii. Business Highlights..... 66
 - iii. China Tietong and 3G..... 67
- 3.2 Key Points: The Six Operators 67**
 - 3.2.1. China Mobile & China Unicom 67**
 - 3.2.2. China Telecom 67**
 - 3.2.3 China Tietong..... 67**
- 3.3 Market Share 68**
 - Figure 3.9: Telecom Service Carrier Market Share by Revenue (%) 2005 68
 - Figure 3.10: Telecom Service Carrier Market Share by Investment (%) 2005..... 68

4. W-VAS Operator Business Models

- 4.1. Monternet 69**
 - 4.1.1 The Establishment of Monternet 69**
 - i. The Service Platform: MISC (Mobile Information Service Centre)..... 70
 - Table: 4.1 Monternet Usage – SMS, WAP, MMS (m) 70
 - 4.1.2 The Business Model 70**
 - Figure 4.1: Monternet Business Model 71
 - 4.1.3 Revenue Sharing Practices..... 71**
 - Figure 4.2: Monternet’s Revenue Sharing Model..... 72
- 4.2. Uni-Info 72**
 - 4.2.1 The Establishment of Uni-Info..... 72**
 - 4.2.2 The Business Model 72**
 - 4.2.3 The Revenue Sharing Model..... 73**

5. China W-VAS Market: Major Players

- 5.1 The Internet Portals 75**
 - 5.1.1 Sina Corporation..... 76**
 - i. Company Profile 76
 - ii. Composition of Revenue..... 76
 - Table 5.1: Sina Revenue Mix (\$m) - Advertising, M-VAS, Others 2003–2006..... 77
 - Figure 5.1: Sina Revenue Mix (\$m) – Advertising, M-VAS, Others 2003–2006..... 76
 - iii. M-VAS Strategy - Partnerships and the Product Mix..... 77
 - a. Strategic Partnerships..... 77
 - b. Product Mix 77
 - iv. 3G Opportunities and Challenges..... 77
 - a. M-VAS Performance Analysis 78
 - b. 3G Strategy 78
 - 5.1.2 NetEase.com Inc 78**
 - i. Company Profile 78
 - ii. Composition of Revenue..... 79

Figure 5.2: NetEase Revenue Mix (\$m) – Online Games, Advertising and W-VAS, 2003–2006.....	79
Table 5.2: NetEase Revenue Mix (\$m) – Online Games, Advertising and W-VAS, 2003–2006.....	80
iii W-VAS Strategy: Partnerships and the Product Mix.....	80
a. Strategic Partnerships.....	80
b. Product Mix.....	80
iv. 3G Opportunities and Challenges.....	80
5.1.3 Sohu Corp.....	81
i. Company Profile.....	81
ii. Composition of Revenue.....	81
Table 5.3: Sohu Revenue Mix (\$m) – Advertising, W-VAS, Others, 2004–2006.....	82
Figure 5.3: Sohu Revenue Mix (\$m) – Advertising, W-VAS, Others, 2004–2006.....	82
iii. W-VAS Strategy: Partnerships and the Product Mix.....	82
a. Strategic Partnerships.....	82
b. Product Mix.....	83
iv. 3G Opportunities and Challenges.....	83
5.2. The Pure Players	83
5.2.1 Tom Online Inc.	83
i. The Company.....	83
ii. W-VAS Strategy.....	84
a. Product Mix.....	84
Figure 5.4: Tom Online Revenue Mix (\$m) – SMS, MMS, WAP, IVR, CRBT, Others, 2003–2005.....	85
Table 5.4: Tom Online Revenue Mix (\$m) – SMS, MMS, WAP, IVR, CRBT, Others, 2004 – 2006.....	85
b. Fee Structures and Revenue Channels.....	85
Table 5.5: Fee Structures for SMS, MMS, WAP by Operator.....	86
iii. Tom Online Development Trends and 3G.....	87
a. Product Offering Enhancement: Acquisition & Partnership.....	87
b. Product Mix Diversification: Long-term Strategic Initiatives.....	87
5.2.2 Linktone Ltd	88
i. The Company.....	88
ii. M-VAS Strategy.....	88
a. Product Mix.....	88
Figure 5.5: Linktone Revenue Mix – SMS, MMS/WAP/JAVA, Audio, Casual Games, Others 2003–2005 (\$m).....	89
Table 5.6: Linktone Revenue Mix – SMS, MMS/WAP/JAVA, Audio, Casual Games, Others 2003–2005 (\$m).....	89
b. Revenue Channel.....	89
iii. Linktone Development Trends and 3G.....	90
a. Product Offering Enhancement: Organic In-house Development.....	90
b. Product Offering Diversification: New Partnerships.....	90
c. Transforming the Business Model: A New Interactive Media Model.....	91
d. Operator Channel Diversification.....	92
e. Strengthen Marketing Channels.....	92
Figure 5.6: Linktone Local on-the-Ground Sales Team.....	93
5.2.3 Kongzhong.....	94
i. The Company.....	94
ii. W-VAS Strategy.....	94
a. Product Mix.....	94
Table 5.7: Kongzhong Revenue Mix (\$m) – WAP, MMS, JAVA, SMS, IVR, CRBT, Others, 2003–2005.....	94
Figure 5.7: Kongzhong Revenue Mix (\$m) – WAP, MMS, JAVA, SMS, IVR, CRBT, Others, 2003–2005.....	95
b. Revenue Channel.....	95
iv. Kongzhong Development Trends and 3G.....	96
a. Product Offering Enhancement: Product Diversification.....	96

Table 5.8: Kongzhong Product Mix – WAP, MMS, JAVA, 2G, SMS, IVR, CRBT, Others Q4'05-Q4'06 (%).....	96
b. Revenue Channel Enhancement: Operator Channel Diversification.....	96
c. Strategic Investment and Acquisition.....	97
d. WAP Branding.....	97
e. Nationwide Sales and Marketing Offices	97
f. Joint Marketing Programme.....	97
5.2.4 Hurray!	98
i. The Company	98
ii. W-VAS Strategy	98
a. Product Mix	98
Figure 5.8: Hurray! Revenue Mix (\$m) 2004–2006	98
Table 5.9: Hurray! Revenue Mix (\$m) – SMS, IVR, CRBT, WAP, MMS, 2004 – 2006	99
b. Revenue Channels	99
iii. Hurray! Development Trends and 3G	99
a. Product Offering Enhancement: Acquisition and Strategic Investment.....	99
b. Product Diversification	99
5.3 Other Players	100
5.3.1 Arena Mobile	100
i. The Company	100
ii. The Product	100
iii. The Development Trend: a New Third Line of Business - Mobile TV.....	100
5.4 Analysis & Positioning of Chinese W-VAS Providers.....	101
5.4.1 Composition of Revenue: W-VAS vs Non W-VAS	101
Figure 5.9: Revenue (\$m) by 7 Service Providers – W-VAS & Non W-VAS, 2005.....	101
Table 5.10: Revenue (\$m) by 7 Service Providers – W-VAS & Non W-VAS, 2005.....	102
Figure 5.10: Service Provider Revenue Mix (%) – Advertising, Non Advertising, (Sohu, Sina, NetEase).....	102
5.4.2 Strategic Diversification & Business Model Transformation	102
Figure 5.11: Hurray! Diversification Strategy – By Operator, Product Mix & Distribution Channel	103

6. Market Forecasts: 3G Market Size, Growth and Opportunities

6.1 Market Forecast Methodology.....	105
6.2 Industry Culture & Characteristics	106
6.2.1 Disparity of Development in Cities.....	106
i. Quantifying Market Potential.....	106
Figure 6.1: Mobile Penetration Rate Comparison by Country (% unit/100 people) 2005	106
ii. Economic Disparity and the Impact on the Telecommunications Industry.....	107
a. Comparisons between Chinese Regions	107
Table 6.1: Chinese Fixed Line Penetration Rates (%), East, Central, West China 2001-2006.....	107
Figure 6.2: Chinese Fixed Line Penetration Rates (%), East, Central, West China 2001-2006.....	108
Figure 6.3: Chinese Mobile Penetration Rate (%), East, Central, West China 2001-2006.....	108
Table 6.2: Chinese Mobile Penetration Rate (%), East, Central, West China 2001-2006.....	109
Figure 6.4: Top 10 Mobile Subscriber Cities (m) in China in 2005	109
Table 6.3: Top 10 Mobile Subscriber Cities (m) in China in 2005	109
Table 6.4: Top 10 Cities for Telecom Fixed Asset Investment (\$bn) in China in 2005	110
Figure 6.5: Top 10 Cities for Telecom Fixed Asset Investment (\$bn) in China in 2005	110
6.2.2 Economic Disparity and Impact on the W-VAS Market	110
a. Alcatel-Lucent Technologies – Research Study	111
Figure 6.6: Cites and Locations of East, West and Central China.....	111
6.3 Market Size	112
6.3.1 Mobile Phone Subscription Forecasts for China	112
Figure 6.7: Chinese Mobile Phone Subscriber Forecast (m) & Growth (%) 2007-2012	112

Table 6.5: Chinese Mobile Phone Subscriber Forecast (m) & Growth (%) 2007-2012.....	113
i. Top 10 Cities.....	113
Table 6.6: Top 10 Chinese Cities by Mobile Subscribers (m) Forecasts, 2006-2012	113
ii. Guangdong Market.....	113
iii. Shandong Market.....	114
6.3.2 China 3G Subscriber Forecasts	114
i. 3G Roll Out Plans & Priorities.....	114
ii. Forecast Basis and Assumptions.....	114
iii. Estimates for the Chinese Regions & Cities	115
Figure 6.9: Chinese 3G Subscriber Forecasts (m) 2008-2012.....	115
Table 6.7: Chinese 3G Subscriber Forecast (m) 2008-2012.....	116
Table 6.8: Chinese 3G Subscriber Forecasts (m) for the Top 10 Cities, 2008-2012.....	116
6.3.3 Chinese Mobile Market Forecasts.....	116
Table 6.9: Chinese Blended Mobile ARPU Forecast (\$) 2007-2012.....	117
Figure 6.11: Chinese Blended Mobile ARPU Forecast (\$) 2007-2012.....	117
Figure 6.12: Chinese Mobile Revenue Forecasts (\$bn) – Voice & Data, 2007–2012.....	117
Table 6.10: Chinese Mobile Revenue Forecasts (\$bn) – Voice & Data, 2007-2012.....	118
6.3.4 Chinese 3G Revenue Forecasts.....	118
i. 3G ARPU.....	118
Figure 6.13: Chinese 3G Blended ARPU Forecast (\$), 2007-2012	118
Table 6.11: Chinese 3G Blended ARPU Forecast (\$), 2008-2012.....	118
ii. Chinese 3G Revenues & Market Value.....	119
Figure 6.14: Chinese 3G Market Revenue Forecast (\$m) – Voice & Data, 2008–2012	119
Table 6.12: Chinese 3G Market Revenue Forecast (\$m) – Voice & Data, 2008–2012	120
6.4. Hot Applications.....	120
6.4.1 Research Findings from Ericsson’s Chinese Research	120
i. Features Valued by Chinese Consumers.....	120
Table 6.13: Attractive data Services for Different Consumer Groups	121
ii. Enterprise Requirements	121
iii. Demand for Content.....	121
iv. Handset Requirements.....	121
6.4.2 Alcatel- Lucent Chinese Research Study Findings.....	122
i. Enterprise Services in Demand.....	122
ii. Consumer Services in Demand	122
Table 6.14: Difference in Consumer and Enterprise Customers Requirements.....	123
6.4.3 Mobile TV & Video Opportunity.....	123
i. Market Drivers	123
a. Mobile 365	123
b. The Enablers.....	124
c. Development Issues	124
- Licensing.....	124
- Technical Standards.....	125
- Content.....	125
ii. Market Size & Competition.....	125
Figure 6.15: Chinese Mobile TV/ Video Subscribers (m) and Revenue Forecast (\$m), 2007–2012.....	126
Table 6.15: Chinese Mobile TV/ Video Subscribers (m) and Revenue Forecast (\$m), 2007–2012.....	126
6.4.4 Ringtones and Mobile Music	126
i. Market Drivers.....	126
a. Player Strategies & Developments.....	126
b. Piracy.....	127
ii. Value Chain.....	127
iii. Market Size & Growth	127
a. Mobile Music in W-VAS Sector.....	127
b. 3G Mobile Music Market Growth	128
Table 6.16: Chinese Mobile Music and 3G Mobile Music Market Forecast (\$m), 2007-2012	128
Figure 6.16: Chinese Mobile Music and 3G Mobile Music Market Forecast (\$m) 2007-2012	128

6.4.5 Mobile Games	128
i. Market Drivers.....	128
ii. Market Size & Growth.....	129
Figure 6.17: Chinese Total Mobile Games and 3G Games Market Forecast (\$m), 2007-2012	129
Table 6.17: Chinese Total Mobile Games and 3G Games Market Forecast (\$m), 2007-2012	130
6.4.6 SMS Market	130
i. Market Drivers.....	130
Table 6.18: SMS Usage Volume (m) - China Mobile 2000–2005	130
ii. Market Size & Growth.....	131
Table 6.19: Chinese SMS Volumes (bn), 2003–2006	131
Figure 6.18: Chinese SMS/MMS Market Value and 3G SMS/MMS Market Value (\$m) 2007-2012	131
Table 6.20: Chinese SMS/MMS Market Value and 3G SMS/MMS Market Value (\$m), 2007-2012	132
6.4.7 Location Based Services	132
i. deCarta	132
a. The Company and the Product.....	132
b. The Value Chain.....	132
Figure 6.19: Location Based Services – deCarta’s Value Chain.....	133
c. Market Entry	134
d. Pricing Model.....	134
ii. Market Drivers for LBS in China.....	135
iii. Market Size & Growth.....	135
Figure 6.20: Chinese Mobile LBS Subscribers (m) & Revenues (\$m), 2007-2012	136
Table: 6.21: Chinese Mobile LBS Subscribers (m) & Revenues (\$m), 2007-2012	136
6.5 Summary	136

7. Market Entry Strategy - Potential Barriers & Hurdles

7.1 An Emerging Economy in Transition	137
7.1.1 MII Rule Changes for the VAS Market	138
i. The Changing Regulatory Environment for Mobile Value Added Services.....	138
a. Double Confirmation for Purchases.....	138
b. Subscriber Pricing & Service Reminder Requirements.....	139
c. Free Trial Period Requirements	139
7.1.2 The Impact of Restrictions on the Exchange of Foreign Currency	139
7.1.3 Intellectual Property & Copyright Issues	140
7.1.4 Content Localisation	141
7.2 Business Culture	142
7.2.1 Language	142
7.2.2 Guanxi	142
i. What is “Guanxi”?	142
ii. “Guanxi” Strategy	143

8. Market Access and the W-VAS Value Chain

8.1. Operator Development Plans	145
8.1.1 Direct Involvement of Content Providers	145
i. Alliances & Partnerships.....	146
8.1.2 New Service Strategy	146
i. Mobile Banking	146
8.2 Implications for the W-VAS Value Chain	147
Figure 8.1: Phase I: The Generic Model of the Chinese W-VAS Value Chain	147
Figure 8.2: Phase II: The Generic Model of the Chinese W-VAS Value Chain	147

Figure 8.3: The Generic Model of Chinese W-VAS Value Chain – The Evolving New Model for Telecom Operators	148
Figure 8.4: China Power Distribution in the Evolving Value Chain.....	148
Figure: 8.5: The Generic Model of Chinese W-VAS Value Chain – The Evolving Model for W-VAS Providers	149
Figure 8.6: China Power Distribution for Service Providers Evolving Model.....	150
Figure 8.7: The Generic Model of Chinese W-VAS Value Chain – The Evolving New Model for the W-VAS Market.....	151
8.2.1 Gaining Market Access - Strategic Alliance and the Value Chain.....	151

9. Opportunity Appraisal

9.1 Handset Market.....	153
9.1.1 Handset Production in China	153
i. The 3G Opportunity.....	154
Figure 9.1: Chinese Mobile Handset Market Shipment (m) Forecast 2007-2012	154
Table 9.1: Chinese Mobile Handset Market Shipment (m) Forecast 2007-2012	155
9.1.2 Leading Handset Manufacturers in China.....	155
Figure 9.2: Top 5 Mobile Handset Manufacturers in China, Output Volume (m) IH 2006 ...	155
Figure 9.3: Top 5 Mobile Handset Manufacturers in China, Handset Sales Volume IH 2006 Domestic Shipment vs IH 2006 Export Shipment (m).....	156
Table 9.2: Top 5 Mobile Handset Manufacturers in China, Output Volume (m) IH 2006.	156
9.2 Case Study: Ericsson China	157
9.2.1 The Company.....	157
9.2.2 Service Layer and Systems Integration Unit.....	157
9.2.3 Key 3G Opportunities	157
i. Public Safety Solutions.....	157
ii. Service Delivery Platform (SDP)	158
iii. An Aggregator.....	159
9.3 Case Study: BT Movio.....	160
9.3.1 The Company & its Role in China.....	160
9.3.2 The Projects: Innovation and Manufacturing Outsourcing.....	160
i. Innovation and Flexibility	160
a. ZTE Agreement	161
ii. Mutual Benefits.....	161
9.4 Case Study: DiBcom	162
9.4.1 The Company.....	162
9.4.2 The Project: Specialised ICT Components Outsourcing.....	162
Figure 9.3: The Value Chain (DiBcom).....	163
9.5 Case Study: GSR Ventures	164
9.5.1 The Company.....	164
9.5.2 Projects	164

10. Market Entry and Future Outlook

10.1 Market Entry Models.....	165
10.1.1 Market Entry Model.....	165
10.1.2 Lengthy and Complicated Application Process.	166
Figure 10.1: VAS Licence Applications Process.....	167
Figure 10.2: Market Entry Model through Partnerships.	168
10.1.3 Two Forms of Investment: JV vs WFOE.....	169
Figure 10.3: Kongzhong's Organisational Structure	169
Figure 10.4: Market Entry Model: WFOE.....	170
10.2 Industry Outlook	171

Figure 10.5: Triple Play..... 172

Appendix I: Web Addresses for Companies Included in Report..... 173