

2015-2020

Global Airport Security: Technologies, Industry & Markets

Airport Perimeter Security

Airport Terminal Surveillance

Intrusion Detection

No-Fly Passenger Pre-Screening

Travel Document Checker

Checked Baggage Screening

Air-Cargo Screening

Command & Control

Air Marshals

Bomb Appraisal Officers

Random Employee Screening

Hardened Cockpit Door

Flight Deck Officers

Cabin CCTV Surveillance

Homeland Security Research Corp.

3 Volumes:

**Global Airport Security: Technologies,
Industry & Markets – Volume 1**

**Global Airport Security: Technologies,
Industry & Markets – Volume 2**

**Global Airport Security: Technologies,
Industry & Markets – Volume 3**

2015-2020

Global Airport Security: Technologies, Industry & Markets

Volume 1

Airport Perimeter Security

Airport Terminal Surveillance

Intrusion Detection

No-Fly Passenger Pre-Screening

Travel Document Checker

Checked Baggage Screening

Air-Cargo Screening

Command & Control

Air Marshals

Bomb Appraisal Officers

Random Employee Screening

Hardened Cockpit Door

Flight Deck Officers

Cabin CCTV Surveillance

Homeland Security Research Corp.

***Global Airport Security:
Technologies, Industry &
Markets
2015-2020***

Volume 1

March 2015

Table of Contents

1	Summary	27
2	Extended Summary	30
2.1	Scope.....	30
2.2	Major Findings	31
2.3	Major Conclusions	37
	GLOBAL MARKET	39
3	Market Background	39
3.1	Aviation Security Terror Threats	39
3.2	Aviation Security Strategy.....	39
3.3	Aviation Security Market Demand Side.....	42
3.4	Airports	42
3.5	Airlines	42
3.6	Freight Forwarders.....	42
3.7	Customs Services	42
3.8	Security Service Providers.....	43
3.9	Aviation Passenger Screening Technologies Outlook: 2015-2020.....	43
4	Aviation Security Market Drivers	45
5	Aviation Security Market Inhibitors	47
6	Aviation Security: 20 Business Opportunities and Challenges	48
7	Aviation Security Industry: SWOT Analysis.....	50
7.1	Strengths	50
7.2	Weaknesses	51
7.3	Opportunities	52
7.4	Threats.....	53
8	Aviation Security Market Competitive Analysis.....	55
9	Global Airport Security Market – 2011-2014 Data and 2015-2020 Forecast.....	56
9.1	Global Airport Security Market by Region	56
9.1.1	Consolidated Market by Region – 2015-2020	56
9.1.2	Market Dynamics – 2015-2020.....	57
9.1.3	Market Breakdown – 2015-2020	58
9.2	Global Airport Security Market by Technology	59
9.2.1	Consolidated Market – 2015-2020	59
9.2.2	Market Dynamics – 2015-2020.....	61
9.2.3	Market Breakdown – 2015-2020	62

NORTH AMERICA MARKET	64
10 North America Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	64
11 U.S. Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	65
11.1 U.S. Aviation Security Market Background	65
11.1.1 The Transportation Security Administration.....	65
11.1.1.1 Screening Partnership Program.....	68
11.1.1.2 Screening Training and Other Programs	69
11.1.1.3 Passengers Checkpoint Support Program.....	69
11.1.1.4 Screening Technology Maintenance & Utilities Program	71
11.1.2 U.S. Aviation Regulations and Enforcement Programs	71
11.1.3 Airport Management, IT and Support Programs.....	73
11.1.4 The U.S. Air Cargo Security Program.....	73
11.1.5 Secure Flight Program.....	74
11.1.6 Federal Air Marshal Service Program.....	75
11.2 U.S. Passenger Screening Data by 501 Airports	76
11.3 U.S. Airport Security Market	94
11.3.1 Market Size – 2011-2020	94
11.3.2 Market Dynamics – 2012-2020.....	95
11.3.3 Market Breakdown – 2011-2020	96
12 Canada Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	97
12.1 Canada Aviation Market Background.....	97
12.2 Canada Aviation Security Market Background.....	97
12.2.1 Aviation Security Mandated Activities.....	100
12.2.2 Air Travelers Security	100
12.2.3 Air Cargo Screening	101
12.2.4 AIT Screening.....	101
12.3 Canada Passenger Screening Data by 20 Airports.....	103
12.4 Canada Airport Security Market	104
12.4.1 Market Size – 2011-2020	104
12.4.2 Market Dynamics – 2012-2020.....	105
12.4.3 Market Breakdown – 2011-2020	106
LATIN AMERICA MARKET	107
13 Latin America Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	107
14 Mexico Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	108
14.1 Mexico Aviation Security Market Background.....	108
14.2 Mexico Passenger Screening Data by 50 Airports.....	109

14.3	Mexico Airport Security Market	111
14.3.1	Market Size – 2011-2020	111
14.3.2	Market Dynamics – 2012-2020.....	112
14.3.3	Market Breakdown – 2011-2020	113
15	Colombia Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	114
15.1	Colombia Aviation Security Market Background	114
15.2	Colombia Passenger Screening Data by 15 Airports	116
15.3	Colombia Airport Security Market	117
15.3.1	Market Size – 2011-2020	117
15.3.2	Market Dynamics – 2012-2020.....	118
15.3.3	Market Breakdown – 2011-2020	119
16	Brazil Airport Security Market – 2011-2014 Data and 2015-2020 Forecast.....	121
16.1	Brazil Aviation Security Market Background	121
16.2	Brazil Passenger Screening Data by 41 Airports	123
16.3	Brazil Airport Security Market	125
16.3.1	Market Size – 2011-2020	125
16.3.2	Market Dynamics – 2012-2020.....	126
16.3.3	Market Breakdown – 2011-2020	127
17	Argentina Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	128
17.1	Argentina Aviation Security Market Background	128
17.2	Argentina Passenger Screening Data	130
17.3	Argentina Airport Security Market	130
17.3.1	Market Size – 2011-2020	130
17.3.2	Market Dynamics – 2012-2020.....	131
17.3.3	Market Breakdown – 2011-2020	132
	EUROPEAN MARKET	134
18	Europe Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	134
19	UK Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	135
19.1	UK Aviation Passengers & Cargo	135
19.2	UK Aviation Security	138
19.3	UK Passenger Screening Data by 38 Airports	141
19.4	UK Airport Security Market	144
19.4.1	Market Size – 2011-2020	144
19.4.2	Market Dynamics – 2012-2020.....	145
19.4.3	Market Breakdown – 2011-2020	146

20	Sweden Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	147
20.1	Sweden Aviation Security Market Background	147
20.2	Sweden Passenger Screening Data by 24 Airports	148
20.3	Sweden Airport Security Market.....	149
20.3.1	Market Size – 2011-2020	149
20.3.2	Market Dynamics – 2012-2020.....	150
20.3.3	Market Breakdown – 2011-2020	151
21	Denmark Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	152
21.1	Denmark Aviation Security Market Background.....	152
21.2	Denmark Passenger Screening Data by 7 Airports.....	152
21.3	Denmark Airport Security Market.....	153
21.3.1	Market Size – 2011-2020	153
21.3.2	Market Dynamics – 2012-2020.....	154
21.3.3	Market Breakdown – 2011-2020	155
22	Netherlands Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	156
22.1	Netherlands Aviation Security Market Background.....	156
22.2	Netherlands Passenger Screening Data by 5 Airports.....	157
22.3	Netherlands Airport Security Market	158
22.3.1	Market Size – 2011-2020	158
22.3.2	Market Dynamics – 2012-2020.....	159
22.3.3	Market Breakdown – 2011-2020	160
23	Belgium Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	162
23.1	Belgium Aviation Security Market Background	162
23.2	Belgium Passenger Screening Data	162
23.3	Belgium Airport Security Market.....	163
23.3.1	Market Size – 2011-2020	163
23.3.2	Market Dynamics – 2012-2020.....	164
23.3.3	Market Breakdown – 2011-2020	165
24	Germany Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	166
24.1	Germany Aviation Security Market Background	166
24.2	Germany Passenger Screening Data by 26 Airports	167
24.3	Germany Airport Security Market.....	168
24.3.1	Market Size – 2011-2020	168
24.3.2	Market Dynamics – 2012-2020.....	169
24.3.3	Market Breakdown – 2011-2020	170
25	France Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	172
25.1	France Aviation Security Market Background	172

25.2	France Passenger Screening Data by 57 Airports	173
25.3	France Airport Security Market	175
25.3.1	Market Size – 2011-2020	175
25.3.2	Market Dynamics – 2012-2020.....	176
25.3.3	Market Breakdown – 2011-2020	177
26	Spain Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	178
26.1	Spain Aviation Security Market Background	178
26.2	Spain Passenger Screening Data by 30 Airports	179
26.3	Spain Airport Security Market	180
26.3.1	Market Size – 2011-2020	180
26.3.2	Market Dynamics – 2012-2020.....	181
26.3.3	Market Breakdown – 2011-2020	182
27	Italy Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	183
27.1	Italy Aviation Market Background.....	183
27.2	Italy Aviation Security Market Background.....	183
27.3	Italy Passenger Screening Data by 31 Airports	184
27.4	Italy Airport Security Market.....	185
27.4.1	Market Size – 2011-2020	185
27.4.2	Market Dynamics – 2012-2020.....	186
27.4.3	Market Breakdown – 2011-2020	187
28	Austria Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	189
28.1	Austria Aviation Security Market Background	189
28.2	Austria Aviation Security Market Background	190
28.3	Austria Passenger Screening Data by 40 Airports	190
28.4	Austria Airport Security Market	190
28.4.1	Market Size – 2011-2020	190
28.4.2	Market Dynamics – 2012-2020.....	192
28.4.3	Market Breakdown – 2011-2020	193
29	Czech Republic Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	194
29.1	Czech Republic Aviation Security Market Background	194
29.2	Czech Republic Passenger Screening Data	194
29.3	Czech Republic Airport Security Market	195
29.3.1	Market Size – 2011-2020	195
29.3.2	Market Dynamics – 2012-2020.....	196
29.3.3	Market Breakdown – 2011-2020	197
30	Poland Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	199
30.1	Poland Aviation Security Market Background	199
30.2	Poland Passenger Screening Data by 11 Airports	202

30.3	Poland Airport Security Market	203
30.3.1	Market Size – 2011-2020	203
30.3.2	Market Dynamics – 2012-2020.....	204
30.3.3	Market Breakdown – 2011-2020	205
31	Russia Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	206
31.1	Russia Aviation Security Market Background	206
31.2	Russia Passenger Screening Data by 58 Airports	207
31.3	Russia Airport Security Market.....	209
31.3.1	Market Size – 2011-2020	209
31.3.2	Market Dynamics – 2012-2020.....	210
31.3.3	Market Breakdown – 2011-2020	211
	MIDDLE EAST & AFRICA MARKET	212
32	Middle East and Africa Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	212
33	Turkey Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	213
33.1	Turkey Aviation Security Market Background	213
33.2	Turkey Passenger Screening Data by 36 Airports	214
33.3	Turkey Airport Security Market.....	215
33.3.1	Market Size – 2011-2020	215
33.3.2	Market Dynamics – 2012-2020.....	216
33.3.3	Market Breakdown – 2011-2020	217
34	Israel Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	219
34.1	Israel Aviation Market Background	219
34.2	Israel Aviation Security Market Background	219
34.3	Israel Airport Passenger Screening Data.....	221
34.4	Israel Airport Security Market.....	221
34.4.1	Market Size – 2011-2020	221
34.4.2	Market Dynamics – 2012-2020.....	222
34.4.3	Market Breakdown – 2011-2020	223
35	Saudi Arabia Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	225
35.1	Saudi Arabia Aviation Security Market Background.....	225
35.2	Saudi Arabia Passenger Screening Data by Airport	226
35.3	Saudi Arabia Airport Security Market	226
35.3.1	Market Size – 2011-2020	226
35.3.2	Market Dynamics – 2012-2020.....	228
35.3.3	Market Breakdown – 2011-2020	229

36	UAE Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	230
36.1	UAE Aviation Security Market Background	230
36.1.1	Dubai Airports Expansion Plan 2020	230
36.1.2	Augmented Baggage Scanning Machines.....	232
36.2	U.A.E. Passenger Screening Data by 3 Airports.....	232
36.3	UAE Airport Security Market	232
36.3.1	Market Size – 2011-2020	232
36.3.2	Market Dynamics – 2012-2020.....	234
36.3.3	Market Breakdown – 2011-2020	235
37	Qatar Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	236
37.1	Qatar Aviation Security Market Background	236
37.2	Doha Airport Passenger Screening Data	237
37.3	Qatar Airport Security Market	237
37.3.1	Market Size – 2011-2020	237
37.3.2	Market Dynamics – 2012-2020.....	239
37.3.3	Market Breakdown – 2011-2020	240
38	Kuwait Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	241
38.1	Kuwait Aviation Security Market Background	241
38.2	Kuwait Airport Passenger Screening Data	241
38.3	Kuwait Airport Security Market.....	242
38.3.1	Market Size – 2011-2020	242
38.3.2	Market Dynamics – 2012-2020.....	243
38.3.3	Market Breakdown – 2011-2020	244
39	Iraq Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	245
39.1	Iraq Aviation Security Market Background	245
39.2	Iraq Passenger Screening Data	245
39.3	Iraq Airport Security Market	246
39.3.1	Market Size – 2011-2020	246
39.3.2	Market Dynamics – 2012-2020.....	247
39.3.3	Market Breakdown – 2011-2020	248
40	Nigeria Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	249
40.1	Nigeria Aviation Security Market Background.....	249
40.2	Nigeria Passenger Screening Data by 12 Airports.....	250
40.3	Nigeria Airport Security Market	250
40.3.1	Market Size – 2011-2020	250
40.3.2	Market Dynamics – 2012-2020.....	252
40.3.3	Market Breakdown – 2011-2020	253

41	South Africa Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	254
41.1	South Africa Aviation Security Market Background.....	254
41.2	South Africa Passenger Screening Data by 9 Airports.....	255
41.3	South Africa Airport Security Market	255
41.3.1	Market Size – 2011-2020	255
41.3.2	Market Dynamics – 2012-2020.....	257
41.3.3	Market Breakdown – 2011-2020	258
	ASIA-PACIFIC MARKET	259
42	Asia-Pacific Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	259
43	Azerbaijan Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	260
43.1	Azerbaijan Aviation Security Market Background	260
43.2	Passenger Screening Data in Baku Airport.....	261
43.3	Azerbaijan Airport Security Market.....	261
43.3.1	Market Size – 2011-2020	261
43.3.2	Market Dynamics – 2012-2020.....	263
43.3.3	Market Breakdown – 2011-2020	264
44	Kazakhstan Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	265
44.1	Kazakhstan Aviation Security Market Background	265
44.2	Kazakhstan Passengers Screening Data by Airports.....	265
44.3	Kazakhstan Airport Security Market.....	266
44.3.1	Market Size – 2011-2020	266
44.3.2	Market Dynamics – 2012-2020.....	268
44.3.3	Market Breakdown – 2011-2020	269
45	Pakistan Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	270
45.1	Pakistan Aviation Security Market Background	270
45.2	Pakistan Passenger Screening Data by 8 Airports	271
45.3	Pakistan Airport Security Market.....	271
45.3.1	Market Size – 2011-2020	271
45.3.2	Market Dynamics – 2012-2020.....	273
45.3.3	Market Breakdown – 2011-2020	274
45.3.4	India Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	275
45.3.4.1	India Aviation Security Market Background	275
45.4	India Passenger Screening Data by 46 Airports	277
45.5	India Airport Security Market.....	279
45.5.1	Market Size – 2011-2020	279
45.5.2	Market Dynamics – 2012-2020.....	281
45.5.3	Market Breakdown – 2011-2020	282

46	China Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	283
46.1	China Aviation Security Market Background.....	283
46.2	China Passenger Screening Data by 100 Airports.....	284
46.3	China Airport Security Market.....	287
46.3.1	Market Size – 2011-2020	287
46.3.2	Market Dynamics – 2012-2020.....	289
46.3.3	Market Breakdown – 2011-2020	290
47	Taiwan Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	291
47.1	Taiwan Aviation Security Market Background.....	291
47.2	Taiwan Passenger Screening Data by 6 Airports.....	291
47.3	Taiwan Airport Security Market.....	292
47.3.1	Market Size – 2011-2020	292
47.3.2	Market Dynamics – 2012-2020.....	293
47.3.3	Market Breakdown – 2011-2020	294
48	South Korea Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	295
48.1	South Korea Aviation Security Market Background	295
48.2	South Korea Passenger Screening Data by 13 Airports	296
48.3	South Korea Airport Security Market.....	297
48.3.1	Market Size – 2011-2020	297
48.3.2	Market Dynamics – 2012-2020.....	299
48.3.3	Market Breakdown – 2011-2020	300
49	Japan Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	301
49.1	Japan Aviation Security Market Background	301
49.2	Japan Passenger Screening Data by 50 Airports	301
49.3	Japan Airport Security Market.....	303
49.3.1	Market Size – 2011-2020	303
49.3.2	Market Dynamics – 2012-2020.....	304
49.3.3	Market Breakdown – 2011-2020	305
50	Singapore Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	307
50.1	Singapore Aviation Security Market Background.....	307
50.2	Changi Airport Passenger Screening Data	308
50.3	Singapore Airport Security Market	308
50.3.1	Market Size – 2011-2020	308
50.3.2	Market Dynamics – 2012-2020.....	310
50.3.3	Market Breakdown – 2011-2020	311
51	Malaysia Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	312
51.1	Malaysia Aviation Security Market Background	312

51.2	Malaysia Passenger Screening Data by 18 Airports	313
51.3	Malaysia Airport Security Market	314
51.3.1	Market Size – 2011-2020	314
51.3.2	Market Dynamics – 2012-2020.....	316
51.3.3	Market Breakdown – 2011-2020	317
52	Indonesia Airport Security Market - 2011-2014 Data and 2015-2020 Forecast	318
52.1	Indonesia Aviation Security Market Background.....	318
52.2	Indonesia Passenger Screening Data by 33 Airports.....	319
52.3	Indonesia Airport Security Market.....	320
52.3.1	Market Size – 2011-2020	320
52.3.2	Market Dynamics – 2012-2020.....	322
52.3.3	Market Breakdown – 2011-2020	323
53	Australia Airport Security Market - 2011-2014 Data and 2015-2020 Forecast.....	324
53.1	Australia Aviation Market Background	324
53.2	Australia Aviation Security Market Background	324
53.3	Australia Passenger Screening Data by 20 Airports	325
53.4	Australia Airport Security Market.....	326
53.4.1	Market Size – 2011-2020	326
53.4.2	Market Dynamics – 2012-2020.....	328
53.4.3	Market Breakdown – 2011-2020	329
54	Disclaimer & Copyright.....	330

List of Tables

Table 1 - Global Airport Security Market [\$M] by Region – 2011-2020	29
Table 2 - Global Airport Security Market [\$M] by Technology – 2011-2020	29
Table 3 - Aviation Security Market – Competitive Analysis	55
Table 4 - Global Airport Security Market [\$M] by Region – 2011-2020	56
Table 5 - Global Airport Security Market AGR [%] by Region – 2011-2020	57
Table 6 - Global Airport Security Market Share [%] by Region – 2011-2020	58
Table 7 - Global Airport Security Market [\$M] by Technology – 2011-2020	59
Table 8 - Global Airport Security Market AGR [%] by Technology – 2011- 2020	61
Table 9 - Global Airport Security Market Share [%] by Technology – 2011- 2020	62
Table 10 - TSA Passengers and Baggage Installed Base [Units] and Procurement Plans Statistics by Modality.	70
Table 11 - U.S. Passenger Screening [M] by 501 Airports	76
Table 12 - U.S. Airport Security Market [\$M] by Revenue Segment – 2011- 2020	94
Table 13 - U.S. Airport Security Market AGR [%] by Revenue Segment – 2011-2020	95
Table 14 - U.S. Airport Security Market Share [%] by Revenue Segment – 2011-2020	96
Table 15 - Canada Passenger Screening [M] by 20 Airports	103
Table 16 - Canada Airport Security Market [\$M] by Revenue Segment – 2011-2020	104
Table 17 - Canada Airport Security Market AGR [%] by Revenue Segment – 2011-2020	105
Table 18 - Canada Airport Security Market Share [%] by Revenue Segment – 2011-2020	106
Table 19 - Mexico Passenger Screening [M] by 50 Airports	109
Table 20 - Mexico Airport Security Market [\$M] by Revenue Segment – 2011-2020	111
Table 21 - Mexico Airport Security Market AGR [%] by Revenue Segment – 2011-2020	112
Table 22 - Mexico Airport Security Market Share [%] by Revenue Segment – 2011-2020	113
Table 23 - Colombia Passenger Screening [M] by 15 Airports	116
Table 24 - Colombia Airport Security Market [\$M] by Revenue Segment – 2011-2020	117
Table 25 - Colombia Airport Security Market AGR [%] by Revenue Segment – 2011-2020	118
Table 26 - Colombia Airport Security Market Share [%] by Revenue Segment – 2011-2020	119
Table 27 - Brazil Passenger Screening [M] by 41 Airports	123

Table 28 - Brazil Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	125
Table 29 - Brazil Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	126
Table 30 - Brazil Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	127
Table 31 - Argentina Passenger Screening [M]	130
Table 32 - Argentina Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	130
Table 33 - Argentina Airport Security Market AGR [%] by Revenue Segment – 2011-2020	131
Table 34 - Argentina Airport Security Market Share [%] by Revenue Segment – 2011-2020	132
Table 35 - UK Passenger Screening Data [M] by 38 Airports	141
Table 36 - UK Airport Security Market [\$M] by Revenue Segment – 2011- 2020.....	144
Table 37 - UK Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	145
Table 38 - UK Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	146
Table 39 - Sweden Passenger Screening [M] by 24 Airports.....	148
Table 40 - Sweden Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	149
Table 41 - Sweden Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	150
Table 42 - Sweden Airport Security Market Share [%] by Revenue Segment – 2011-2020	151
Table 43 - Denmark Passenger Screening [M] by 7 Airports	152
Table 44 - Denmark Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	153
Table 45 - Denmark Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	154
Table 46 - Denmark Airport Security Market Share [%] by Revenue Segment – 2011-2020	155
Table 47 - Netherlands Passenger Screening [M] by 5 Airports	157
Table 48 - Netherlands Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	158
Table 49 - Netherlands Airport Security Market AGR [%] by Revenue Segment – 2011-2020	159
Table 50 - Netherlands Airport Security Market Share [%] by Revenue Segment – 2011-2020	160
Table 51 - Belgium Passenger Screening [M] by 5 Airports.....	162
Table 52 - Belgium Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	163

Table 53 - Belgium Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	164
Table 54 - Belgium Airport Security Market Share [%] by Revenue Segment – 2011-2020	165
Table 55 - Germany Passenger Screening [M] by 26 Airports	167
Table 56 - Germany Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	168
Table 57 - Germany Airport Security Market AGR [%] by Revenue Segment – 2011-2020	169
Table 58 - Germany Airport Security Market Share [%] by Revenue Segment – 2011-2020	170
Table 59 - France Passenger Screening [M] by 57 Airports	173
Table 60 - France Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	175
Table 61 - France Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	176
Table 62 - France Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	177
Table 63 - Spain Passenger Screening [M] by 30 Airports	179
Table 64 - Spain Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	180
Table 65 - Spain Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	181
Table 66 - Spain Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	182
Table 67 - Italy Passenger Screening [M] by 31 Airports	184
Table 68 - Italy Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	185
Table 69 - Italy Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	186
Table 70 - Italy Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	187
Table 71 - Austria Passenger Screening [M] by 40 Airports	190
Table 72 - Austria Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	191
Table 73 - Austria Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	192
Table 74 - Austria Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	193
Table 75 - Prague Passenger Screening [M] – 2011-2014	194
Table 76 - Czech Republic Airport Security Market [\$M] by Revenue Segment – 2011-2020	195
Table 77 - Czech Republic Airport Security Market AGR [%] by Revenue Segment – 2011-2020	196

Table 78 - Czech Republic Airport Security Market Share [%] by Revenue Segment – 2011-2020	197
Table 79 - Poland Passenger Screening [M] by 11 Airports	202
Table 80 - Poland Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	203
Table 81 - Poland Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	204
Table 82 - Poland Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	205
Table 83 - Russia Passenger Screening [M] by 58 Airports.....	207
Table 84 - Russia Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	209
Table 85 - Russia Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	210
Table 86 - Russia Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	211
Table 87 - Turkey Passenger Screening [M] by 36 Airports.....	214
Table 88 - Turkey Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	215
Table 89 - Turkey Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	216
Table 90 - Turkey Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	217
Table 91 - Israel Airport Passenger Screening Data [M].....	221
Table 92 - Israel Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	221
Table 93 - Israel Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	222
Table 94 - Israel Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	223
Table 95 – Saudi Arabia Passenger Screening [M] by 4 Airports	226
Table 96 - Saudi Arabia Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	227
Table 97 - Saudi Arabia Airport Security Market AGR [%] by Revenue Segment – 2011-2020	228
Table 98 - Saudi Arabia Airport Security Market Share [%] by Revenue Segment – 2011-2020	229
Table 99 - U.A.E. Passenger Screening [M] by 3 Airports	232
Table 100 - UAE Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	233
Table 101 - UAE Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	234
Table 102 - UAE Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	235
Table 103 - Doha Airport Passenger Screening [M].....	237

Table 104 - Qatar Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	237
Table 105 - Qatar Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	239
Table 106 - Qatar Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	240
Table 107 - Kuwait Airport Passenger Screening [M]	241
Table 108 - Kuwait Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	242
Table 109 - Kuwait Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	243
Table 110 - Kuwait Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	244
Table 111 - Iraq Passenger Screening [M]	245
Table 112 - Iraq Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	246
Table 113 - Iraq Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	247
Table 114 - Iraq Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	248
Table 115 - Nigeria Passenger Screening [M] by 12 Airports	250
Table 116 - Nigeria Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	251
Table 117 - Nigeria Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	252
Table 118 - Nigeria Airport Security Market Share [%] by Revenue Segment – 2011-2020	253
Table 119 - South Africa Passenger Screening [M] by 9 Airports	255
Table 120 - South Africa Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	256
Table 121 - South Africa Airport Security Market AGR [%] by Revenue Segment – 2011-2020	257
Table 122 - South Africa Airport Security Market Share [%] by Revenue Segment – 2011-2020	258
Table 123 - Passenger Screening [M] in Baku Airport	261
Table 124 - Azerbaijan Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	262
Table 125 - Azerbaijan Airport Security Market AGR [%] by Revenue Segment – 2011-2020	263
Table 126 - Azerbaijan Airport Security Market Share [%] by Revenue Segment – 2011-2020	264
Table 127 - Kazakhstan Airport Passengers Screening [M].....	265
Table 128 - Kazakhstan Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	266

Table 129 - Kazakhstan Airport Security Market AGR [%] by Revenue Segment – 2011-2020	268
Table 130 - Kazakhstan Airport Security Market Share [%] by Revenue Segment – 2011-2020	269
Table 131 - Pakistan Passenger Screening [M] by 8 Airports	271
Table 132 - Pakistan Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	272
Table 133 - Pakistan Airport Security Market AGR [%] by Revenue Segment – 2011-2020	273
Table 134 - Pakistan Airport Security Market Share [%] by Revenue Segment – 2011-2020	274
Table 135 - India Passenger Screening [M] by 46 Airports – 2013-2014.....	277
Table 136 - India Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	279
Table 137 - India Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	281
Table 138 - India Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	282
Table 139 - China Passenger Screening [M] by 100 Airports	284
Table 140 - China Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	287
Table 141 - China Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	289
Table 142 - China Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	290
Table 143 - Taiwan Passenger Screening [M] by 6 Airports	291
Table 144 - Taiwan Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	292
Table 145 - Taiwan Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	293
Table 146 - Taiwan Airport Security Market Share [%] by Revenue Segment – 2011-2020	294
Table 147 - South Korea Passenger Screening [M] by 13 Airports.....	296
Table 148 - South Korea Airport Security Market [\$M] by Revenue Segment – 2011-2020	297
Table 149 - South Korea Airport Security Market AGR [%] by Revenue Segment – 2011-2020	299
Table 150 - South Korea Airport Security Market Share [%] by Revenue Segment – 2011-2020	300
Table 151 - Japan Passenger Screening [M] by 50 Airports	301
Table 152 - Japan Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	303
Table 153 - Japan Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	304

Table 154 - Japan Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	305
Table 155 - Changi Airport Passenger Screening [M].....	308
Table 156 - Singapore Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	309
Table 157 - Singapore Airport Security Market AGR [%] by Revenue Segment – 2011-2020	310
Table 158 - Singapore Airport Security Market Share [%] by Revenue Segment – 2011-2020	311
Table 159 - Malaysia Passenger Screening [M] by 18 Airports	313
Table 160 - Malaysia Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	314
Table 161 - Malaysia Airport Security Market AGR [%] by Revenue Segment – 2011-2020	316
Table 162 - Malaysia Airport Security Market Share [%] by Revenue Segment – 2011-2020	317
Table 163 - Indonesia Passenger Screening [M] by 33 Airports	319
Table 164 - Indonesia Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	320
Table 165 - Indonesia Airport Security Market AGR [%] by Revenue Segment – 2011-2020	322
Table 166 - Indonesia Airport Security Market Share [%] by Revenue Segment – 2011-2020	323
Table 167 - Australia Passenger Screening [M] by 20 Airports.....	325
Table 168 - Australia Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	326
Table 169 - Australia Airport Security Market AGR [%] by Revenue Segment – 2011-2020	328
Table 170 - Australia Airport Security Market Share [%] by Revenue Segment – 2011-2020	329

List of Figures

Figure 1 - Airport Perimeter Security Infrastructure.....	28
Figure 2 - Airport Perimeter & Terminal Security Areas	32
Figure 3 - A Multi-lane People Screening Site	33
Figure 4 - Airport Security Layers	35
Figure 5 - IATA Outlook of an Airport Passengers Security Screening Infrastructure.....	36
Figure 6 - Future of Aviation Security.....	38
Figure 7 - Aviation Security Layers of Security	41
Figure 8 - Airport Passengers Screening – Segments	43
Figure 9 - Airport Terminal Screening Infrastructure	44
Figure 10 - Global Airport Security Market [\$M] by Region – 2011-2020.....	57
Figure 11 - Global Airport Security Market Share [%] by Region – 2011- 2020.....	58
Figure 12 - Global Airport Security Market [\$M] by Technology – 2011-2020.....	60
Figure 13 - Global Airport Security Market Share [%] by Technology – 2011-2020.....	63
Figure 14 - TSA – Organizational Structure	67
Figure 15 - U.S. Airport Security Market [\$M] by Revenue Segment – 2011- 2020.....	94
Figure 16 - U.S. Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	95
Figure 17 - U.S. Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	96
Figure 18 - Canada Aviation Security Organogram	97
Figure 19 - Canada Aviation Security: Key Data.....	98
Figure 20 - Layers of Canadian Aviation Security	98
Figure 21 - Canada Airports, Screened Passengers - 2010-2014	99
Figure 22 - Canada Aviation Security Mandated Activities	100
Figure 23 - Canada Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	104
Figure 24 - Canada Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	105
Figure 25 - Canada Airport Security Market Share [%] by Revenue Segment – 2011-2020	106
Figure 26 - Mexico Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	111
Figure 27 - Mexico Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	112
Figure 28 - Mexico Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	113
Figure 29 - Colombia Annual Passenger Traffic 1998-2009	115
Figure 30 - Colombia Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	118

Figure 31 - Colombia Airport Security Market AGR [%] by Revenue Segment – 2011-2020	119
Figure 32 - Colombia Airport Security Market Share [%] by Revenue Segment – 2011-2020	120
Figure 33 - Passengers [M] to & from Brazil Airports	122
Figure 34 - Brazil Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	125
Figure 35 - Brazil Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	126
Figure 36 - Brazil Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	127
Figure 37 - Passengers [M] to & from Argentina Airports.....	129
Figure 38 - Argentina Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	131
Figure 39 - Argentina Airport Security Market AGR [%] by Revenue Segment – 2011-2020	132
Figure 40 - Argentina Airport Security Market Share [%] by Revenue Segment – 2011-2020	133
Figure 41 - UK Air Passenger Demand 2010 & 2040	137
Figure 42 - The UK Air Passengers 1984-2012 by Contribution Sources	138
Figure 43 - UK Passengers Share [%] by Airport.....	143
Figure 44 - UK Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	144
Figure 45 - UK Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	145
Figure 46 - UK Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	146
Figure 47 - Sweden Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	149
Figure 48 - Sweden Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	150
Figure 49 - Sweden Airport Security Market Share [%] by Revenue Segment – 2011-2020	151
Figure 50 - Denmark Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	153
Figure 51 - Denmark Airport Security Market AGR [%] by Revenue Segment – 2011-2020	154
Figure 52 - Denmark Airport Security Market Share [%] by Revenue Segment – 2011-2020	155
Figure 53 – Amsterdam Annual Passengers [M] Traffic 2000-2012	156
Figure 54 - Netherlands (w/o AMS) Annual Passengers [M] Traffic 2003-2012.....	157
Figure 55 - Netherlands Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	159

Figure 56 - Netherlands Airport Security Market AGR [%] by Revenue Segment – 2011-2020	160
Figure 57 - Netherlands Airport Security Market Share [%] by Revenue Segment – 2011-2020	161
Figure 58 - Belgium Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	163
Figure 59 - Belgium Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	164
Figure 60 - Belgium Airport Security Market Share [%] by Revenue Segment – 2011-2020	165
Figure 61 - Germany Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	169
Figure 62 - Germany Airport Security Market AGR [%] by Revenue Segment – 2011-2020	170
Figure 63 - Germany Airport Security Market Share [%] by Revenue Segment – 2011-2020	171
Figure 64 - France Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	175
Figure 65 - France Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	176
Figure 66 - France Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	177
Figure 67 - Spain Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	180
Figure 68 - Spain Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	181
Figure 69 - Spain Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	182
Figure 70 - Italy Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	186
Figure 71 - Italy Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	187
Figure 72 - Italy Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	188
Figure 73 - Passengers [M] to & from Austria Airports 1996-2013.....	189
Figure 74 - Austria Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	191
Figure 75 - Austria Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	192
Figure 76 - Austria Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	193
Figure 77 - Air Passengers [M] per Month 2011-2014	194
Figure 78 - Czech Republic Airport Security Market [\$M] by Revenue Segment – 2011-2020	196

Figure 79 - Czech Republic Airport Security Market AGR [%] by Revenue Segment – 2011-2020	197
Figure 80 - Czech Republic Airport Security Market Share [%] by Revenue Segment – 2011-2020	198
Figure 81 - Airport Passenger Growth [%] in Poland	200
Figure 82 - Airport Passenger Traffic in Poland 2011-2013	201
Figure 83 - Poland Airport Security Market [\$M] by Revenue Segment – 2011-2020	203
Figure 84 - Poland Airport Security Market AGR [%] by Revenue Segment – 2011-2020	204
Figure 85 - Poland Airport Security Market Share [%] by Revenue Segment – 2011-2020	205
Figure 86 - Russia Airport Security Market [\$M] by Revenue Segment – 2011-2020	209
Figure 87 - Russia Airport Security Market AGR [%] by Revenue Segment – 2011-2020	210
Figure 88 - Russia Airport Security Market Share [%] by Revenue Segment – 2011-2020	211
Figure 89 - Turkey Airport Security Market [\$M] by Revenue Segment – 2011-2020	216
Figure 90 - Turkey Airport Security Market AGR [%] by Revenue Segment – 2011-2020	217
Figure 91 - Turkey Airport Security Market Share [%] by Revenue Segment – 2011-2020	218
Figure 92 - Israel Airport Security Market [\$M] by Revenue Segment – 2011-2020	222
Figure 93 - Israel Airport Security Market AGR [%] by Revenue Segment – 2011-2020	223
Figure 94 - Israel Airport Security Market Share [%] by Revenue Segment – 2011-2020	224
Figure 95 - Saudi Arabia 2003-2013 Passengers Traffic per Annum [M]	225
Figure 96 - Saudi Arabia Airport Security Market [\$M] by Revenue Segment – 2011-2020	227
Figure 97 - Saudi Arabia Airport Security Market AGR [%] by Revenue Segment – 2011-2020	228
Figure 98 - Saudi Arabia Airport Security Market Share [%] by Revenue Segment – 2011-2020	229
Figure 99 - UAE Airport Security Market [\$M] by Revenue Segment – 2011-2020	233
Figure 100 - UAE Airport Security Market AGR [%] by Revenue Segment – 2011-2020	234
Figure 101 - UAE Airport Security Market Share [%] by Revenue Segment – 2011-2020	235
Figure 102 - Doha Airport – Monthly Passengers [M] 2009-2013	236

Figure 103 - Qatar Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	238
Figure 104 - Qatar Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	239
Figure 105 - Qatar Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	240
Figure 106 - Kuwait Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	242
Figure 107 - Kuwait Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	243
Figure 108 - Kuwait Airport Security Market Share [%] by Revenue Segment – 2011-2020	244
Figure 109 - Iraq Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	246
Figure 110 - Iraq Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	247
Figure 111 - Iraq Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	248
Figure 112 - Nigeria Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	251
Figure 113 - Nigeria Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	252
Figure 114 - Nigeria Airport Security Market Share [%] by Revenue Segment – 2011-2020	253
Figure 115 - South Africa Airport Security Market [\$M] by Revenue Segment – 2011-2020	256
Figure 116 - South Africa Airport Security Market AGR [%] by Revenue Segment – 2011-2020	257
Figure 117 - South Africa Airport Security Market Share [%] by Revenue Segment – 2011-2020	258
Figure 118 - Passengers [M] to & from Azerbaijan Baku Airport.....	261
Figure 119 - Azerbaijan Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	262
Figure 120 - Azerbaijan Airport Security Market AGR [%] by Revenue Segment – 2011-2020	263
Figure 121 - Azerbaijan Airport Security Market Share [%] by Revenue Segment – 2011-2020	264
Figure 122 - Kazakhstan Airport Security Market [\$M] by Revenue Segment – 2011-2020	267
Figure 123 - Kazakhstan Airport Security Market AGR [%] by Revenue Segment – 2011-2020	268
Figure 124 - Kazakhstan Airport Security Market Share [%] by Revenue Segment – 2011-2020	269
Figure 125 - Pakistan Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	272

Figure 126 - Pakistan Airport Security Market AGR [%] by Revenue Segment – 2011-2020	273
Figure 127 - Pakistan Airport Security Market Share [%] by Revenue Segment – 2011-2020	274
Figure 128 - India Airport Passengers: FY2006/07 to FY2011/12	276
Figure 129 - India Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	280
Figure 130 - India Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	281
Figure 131 - India Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	282
Figure 132 - China Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	288
Figure 133 - China Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	289
Figure 134 - China Airport Security Market Share [%] by Revenue Segment – 2011-2020.....	290
Figure 135 - Taiwan Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	292
Figure 136 - Taiwan Airport Security Market AGR [%] by Revenue Segment – 2011-2020	293
Figure 137 - Taiwan Airport Security Market Share [%] by Revenue Segment – 2011-2020	294
Figure 138 - South Korea Passenger Traffic [M] - 2003-2012	296
Figure 139 - South Korea Airport Security Market [\$M] by Revenue Segment – 2011-2020	298
Figure 140 - South Korea Airport Security Market AGR [%] by Revenue Segment – 2011-2020	299
Figure 141 - South Korea Airport Security Market Share [%] by Revenue Segment – 2011-2020	300
Figure 142 - Japan Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	304
Figure 143 - Japan Airport Security Market AGR [%] by Revenue Segment – 2011-2020.....	305
Figure 144 - Japan Airport Security Market Share [%] by Revenue Segment – 2011-2020	306
Figure 145 - Passengers [M] to & from Changi Airport	308
Figure 146 - Singapore Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	309
Figure 147 - Singapore Airport Security Market AGR [%] by Revenue Segment – 2011-2020	310
Figure 148 - Singapore Airport Security Market Share [%] by Revenue Segment – 2011-2020	311
Figure 149 - Malaysia Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	315

Figure 150 - Malaysia Airport Security Market AGR [%] by Revenue Segment – 2011-2020	316
Figure 151 - Malaysia Airport Security Market Share [%] by Revenue Segment – 2011-2020	317
Figure 152 - Indonesia Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	321
Figure 153 - Indonesia Airport Security Market AGR [%] by Revenue Segment – 2011-2020	322
Figure 154 - Indonesia Airport Security Market Share [%] by Revenue Segment – 2011-2020	323
Figure 155 - Australia Airport Security Market [\$M] by Revenue Segment – 2011-2020.....	327
Figure 156 - Australia Airport Security Market AGR [%] by Revenue Segment – 2011-2020	328
Figure 157 - Australia Airport Security Market Share [%] by Revenue Segment – 2011-2020	329

2015-2020

Global Airport Security: Technologies, Industry & Markets

Volume 2

Airport Perimeter Security

Airport Terminal Surveillance

Intrusion Detection

No-Fly Passenger Pre-Screening

Travel Document Checker

Checked Baggage Screening

Air-Cargo Screening

Command & Control

Air Marshals

Bomb Appraisal Officers

Random Employee Screening

Hardened Cockpit Door

Flight Deck Officers

Cabin CCTV Surveillance

Homeland Security Research Corp.

***Global Airport Security:
Technologies, Industry &
Markets
2015-2020***

Volume 2

March 2015

Table of Contents

GLOBAL TECHNOLOGY MARKETS	26
1 Global Baggage & Cargo X-ray Scanners Airport Security Market – 2011-2014 Data & 2015-2020 Forecast.....	26
1.1 Baggage & Cargo X-ray Scanners Market Background.....	26
1.2 Global Baggage & Cargo X-ray Scanners Airport Security Market by Region – 2011-2020.....	26
1.2.1 Market by Region – 2011-2020	26
1.2.2 Market Dynamics by Region – 2012-2020.....	27
1.2.3 Market Share by Region – 2011-2020.....	28
1.3 North America Baggage & Cargo X-ray Scanners Airport Security Market – 2011-2020.....	29
1.4 Latin America Baggage & Cargo X-ray Scanners Airport Security Market – 2011-2020.....	31
1.5 Europe Baggage & Cargo X-ray Scanners Airport Security Market – 2011-2020.....	32
1.6 Middle East and Africa Baggage & Cargo X-ray Scanners Airport Security Market – 2011-2020	34
1.7 Asia-Pacific Baggage & Cargo X-ray Scanners Airport Security Market – 2011-2020.....	35
2 Global Security Related ICT & Cybersecurity Airport Security Market – 2011-2014 Data & 2015-2020 Forecast	37
2.1 Security Related ICT & Cybersecurity Market Background.....	37
2.2 Global Security Related ICT & Cybersecurity Airport Security Market by Region – 2011-2020.....	37
2.2.1 Market by Region – 2011-2020	37
2.2.2 Market Dynamics by Region – 2012-2020.....	38
2.2.3 Market Share by Region – 2011-2020.....	39
2.3 North America Security Related ICT & Cybersecurity Airport Security Market – 2011-2020.....	40
2.4 Latin America Security Related ICT & Cybersecurity Airport Security Market – 2011-2020.....	42
2.5 Europe Security Related ICT & Cybersecurity Airport Security Market – 2011-2020.....	43
2.6 Middle East and Africa Security Related ICT & Cybersecurity Airport Security Market – 2011-2020.....	45
2.7 Asia-Pacific Security Related ICT & Cybersecurity Airport Security Market – 2011-2020.....	46
3 Global Whole Body Scanners (AIT) Airport Security Market – 2011-2014 Data & 2015-2020 Forecast	48
3.1 Whole Body Scanners (AIT) Market Background.....	48

3.2	Global Whole Body Scanners (AIT) Airport Security Market by Region – 2011-2020.....	48
3.2.1	Market by Region – 2011-2020	48
3.2.2	Market Dynamics by Region – 2012-2020.....	49
3.2.3	Market Share by Region – 2011-2020.....	50
3.3	North America Whole Body Scanners (AIT) Airport Security Market – 2011-2020.....	51
3.4	Latin America Whole Body Scanners (AIT) Airport Security Market – 2011-2020.....	53
3.5	Europe Whole Body Scanners (AIT) Airport Security Market – 2011-2020.....	54
3.6	Middle East and Africa Whole Body Scanners (AIT) Airport Security Market – 2011-2020.....	56
3.7	Asia-Pacific Whole Body Scanners (AIT) Airport Security Market – 2011-2020.....	57
4	Global Explosive Detection Systems (EDS) Airport Security Market – 2011-2014 Data & 2015-2020 Forecast.....	59
4.1	Explosive Detection Systems (EDS) Market Background.....	59
4.2	Global Explosive Detection Systems (EDS) Airport Security Market by Region – 2011-2020.....	59
4.2.1	Market by Region – 2011-2020	59
4.2.2	Market Dynamics by Region – 2012-2020.....	60
4.2.3	Market Share by Region – 2011-2020.....	61
4.3	North America Explosive Detection Systems (EDS) Airport Security Market – 2011-2020.....	62
4.4	Latin America Explosive Detection Systems (EDS) Airport Security Market – 2011-2020.....	64
4.5	Europe Explosive Detection Systems (EDS) Airport Security Market – 2011-2020.....	65
4.6	Middle East and Africa Explosive Detection Systems (EDS) Airport Security Market – 2011-2020	67
4.7	Asia-Pacific Explosive Detection Systems (EDS) Airport Security Market – 2011-2020.....	68
5	Global Security Related Baggage Handling Systems (BHS) Airport Security Market – 2011-2014 Data & 2015-2020 Forecast	70
5.1	Security Related Baggage Handling Systems (BHS) Market Background.....	70
5.2	Global Security Related Baggage Handling Systems (BHS) Airport Security Market by Region – 2011-2020	70
5.2.1	Market by Region – 2011-2020	70
5.2.2	Market Dynamics by Region – 2012-2020.....	71
5.2.3	Market Share by Region – 2011-2020.....	72

5.3	North America Security Related Baggage Handling Systems (BHS) Airport Security Market – 2011-2020	73
5.4	Latin America Security Related Baggage Handling Systems (BHS) Airport Security Market – 2011-2020.....	75
5.5	Europe Security Related Baggage Handling Systems (BHS) Airport Security Market – 2011-2020	76
5.6	Middle East and Africa Security Related Baggage Handling Systems (BHS) Airport Security Market – 2011-2020	78
5.7	Asia-Pacific Security Related Baggage Handling Systems (BHS) Airport Security Market – 2011-2020.....	79
6	Global Explosives Trace Detectors (ETD) Airport Security Market – 2011-2014 Data & 2015-2020 Forecast.....	81
6.1	Explosives Trace Detectors (ETD) Market Background.....	81
6.2	Global Explosives Trace Detectors (ETD) Airport Security Market by Region – 2011-2020.....	81
6.2.1	Market by Region – 2011-2020	81
6.2.2	Market Dynamics by Region – 2012-2020.....	82
6.2.3	Market Share by Region – 2011-2020.....	83
6.3	North America Explosives Trace Detectors (ETD) Airport Security Market – 2011-2020.....	84
6.4	Latin America Explosives Trace Detectors (ETD) Airport Security Market – 2011-2020.....	86
6.5	Europe Explosives Trace Detectors (ETD) Airport Security Market – 2011-2020.....	87
6.6	Middle East and Africa Explosives Trace Detectors (ETD) Airport Security Market – 2011-2020	89
6.7	Asia-Pacific Explosives Trace Detectors (ETD) Airport Security Market – 2011-2020.....	90
7	Global Metal Detectors Airport Security Market – 2011-2014 Data & 2015-2020 Forecast	92
7.1	Metal Detectors Market Background.....	92
7.2	Global Metal Detectors Airport Security Market by Region – 2011-2020.....	92
7.2.1	Market by Region – 2011-2020	92
7.2.2	Market Dynamics by Region – 2012-2020.....	93
7.2.3	Market Share by Region – 2011-2020.....	94
7.3	North America Metal Detectors Airport Security Market – 2011-2020.....	95
7.4	Latin America Metal Detectors Airport Security Market – 2011-2020.....	97
7.5	Europe Metal Detectors Airport Security Market – 2011-2020.....	98
7.6	Middle East and Africa Metal Detectors Airport Security Market – 2011-2020.....	100

7.7	Asia-Pacific Metal Detectors Airport Security Market – 2011-2020.....	101
8	Global Liquid Explosives Detectors Airport Security Market – 2011-2014 Data & 2015-2020 Forecast	103
8.1	Liquid Explosives Detectors Market Background	103
8.2	Global Liquid Explosives Detectors Airport Security Market by Region – 2011-2020.....	103
8.2.1	Market by Region – 2011-2020	103
8.2.2	Market Dynamics by Region – 2012-2020.....	104
8.2.3	Market Share by Region – 2011-2020.....	105
8.3	North America Liquid Explosives Detectors Airport Security Market – 2011-2020.....	106
8.4	Latin America Liquid Explosives Detectors Airport Security Market – 2011-2020.....	108
8.5	Europe Liquid Explosives Detectors Airport Security Market – 2011-2020.....	109
8.6	Middle East and Africa Liquid Explosives Detectors Airport Security Market – 2011-2020.....	111
8.7	Asia-Pacific Liquid Explosives Detectors Airport Security Market – 2011-2020.....	112
9	Global Shoe Scanners Airport Security Market – 2011-2014 Data & 2015-2020 Forecast	114
9.1	Shoe Scanners Market Background	114
9.2	Global Shoe Scanners Airport Security Market by Region – 2011-2020.....	114
9.2.1	Market by Region – 2011-2020	114
9.2.2	Market Dynamics by Region – 2012-2020.....	115
9.2.3	Market Share by Region – 2011-2020.....	116
9.3	North America Shoe Scanners Airport Security Market – 2011-2020.....	117
9.4	Latin America Shoe Scanners Airport Security Market – 2011-2020.....	119
9.5	Europe Shoe Scanners Airport Security Market – 2011-2020.....	120
9.6	Middle East and Africa Shoe Scanners Airport Security Market – 2011-2020.....	122
9.7	Asia-Pacific Shoe Scanners Airport Security Market – 2011-2020.....	123
10	Global Workforce ID Documents Screening Systems Airport Security Market – 2011-2014 Data & 2015-2020 Forecast	125
10.1	Workforce ID Documents Screening Systems Market Background.....	125
10.2	Global Workforce ID Documents Screening Systems Airport Security Market by Region – 2011-2020.....	125

10.2.1	Market by Region – 2011-2020	125
10.2.2	Market Dynamics by Region – 2012-2020.....	126
10.2.3	Market Share by Region – 2011-2020.....	127
10.3	North America Workforce ID Documents Screening Systems Airport Security Market – 2011-2020.....	128
10.4	Latin America Workforce ID Documents Screening Systems Airport Security Market – 2011-2020	130
10.5	Europe Workforce ID Documents Screening Systems Airport Security Market – 2011-2020	131
10.6	Middle East and Africa Workforce ID Documents Screening Systems Airport Security Market – 2011-2020.....	133
10.7	Asia-Pacific Workforce ID Documents Screening Systems Airport Security Market – 2011-2020	134
11	Global Automated Border Control Airport Security Market – 2011-2014 Data & 2015-2020 Forecast	136
11.1	Automated Border Control Market Background	136
11.2	Global Automated Border Control Airport Security Market by Region – 2011-2020.....	136
11.2.1	Market by Region – 2011-2020	136
11.2.2	Market Dynamics by Region – 2012-2020.....	137
11.2.3	Market Share by Region – 2011-2020.....	138
11.3	North America Automated Border Control Airport Security Market – 2011-2020.....	139
11.4	Latin America Automated Border Control Airport Security Market – 2011-2020.....	141
11.5	Europe Automated Border Control Airport Security Market – 2011-2020.....	142
11.6	Middle East and Africa Automated Border Control Airport Security Market – 2011-2020.....	144
11.7	Asia-Pacific Automated Border Control Airport Security Market – 2011-2020.....	145
12	Global CCTV & Radar Surveillance Airport Security Market – 2011-2014 Data & 2015-2020 Forecast	147
12.1	CCTV & Radar Surveillance Market Background	147
12.2	Global CCTV & Radar Surveillance Airport Security Market by Region – 2011-2020.....	147
12.2.1	Market by Region – 2011-2020	147
12.2.2	Market Dynamics by Region – 2012-2020.....	148
12.2.3	Market Share by Region – 2011-2020.....	149
12.3	North America CCTV & Radar Surveillance Airport Security Market – 2011-2020.....	150
12.4	Latin America CCTV & Radar Surveillance Airport Security Market – 2011-2020.....	152

12.5	Europe CCTV & Radar Surveillance Airport Security Market – 2011-2020.....	153
12.6	Middle East and Africa CCTV & Radar Surveillance Airport Security Market – 2011-2020.....	155
12.7	Asia-Pacific CCTV & Radar Surveillance Airport Security Market – 2011-2020.....	156
13	Global C2/C4ISR Systems Airport Security Market – 2011-2014 Data & 2015-2020 Forecast	158
13.1	C2/C4ISR Systems Market Background	158
13.2	Global C2/C4ISR Systems Airport Security Market by Region – 2011-2020	158
13.2.1	Market by Region – 2011-2020	158
13.2.2	Market Dynamics by Region – 2012-2020.....	159
13.2.3	Market Share by Region – 2011-2020.....	160
13.3	North America C2/C4ISR Systems Airport Security Market – 2011-2020.....	161
13.4	Latin America C2/C4ISR Systems Airport Security Market – 2011-2020.....	163
13.5	Europe C2/C4ISR Systems Airport Security Market – 2011-2020.....	164
13.6	Middle East and Africa C2/C4ISR Systems Airport Security Market – 2011-2020.....	166
13.7	Asia-Pacific C2/C4ISR Systems Airport Security Market – 2011-2020.....	167
14	Global Airport Perimeter Fencing Market – 2011-2014 Data & 2015-2020 Forecast	169
14.1	Airport Perimeter Fencing Market Background	169
14.2	Global Airport Perimeter Fencing Market by Region – 2011-2020.....	169
14.2.1	Market by Region – 2011-2020	169
14.2.2	Market Dynamics by Region – 2012-2020.....	170
14.2.3	Market Share by Region – 2011-2020.....	171
14.3	North America Airport Perimeter Fencing Market – 2011-2020.....	172
14.4	Latin America Airport Perimeter Fencing Market – 2011-2020.....	174
14.5	Europe Airport Perimeter Fencing Market – 2011-2020.....	175
14.6	Middle East and Africa Airport Perimeter Fencing Market – 2011-2020.....	177
14.7	Asia-Pacific Airport Perimeter Fencing Market – 2011-2020	178

15	Global Multi-modal Security Systems and Other Modalities Airport Security Market – 2011-2014 Data & 2015-2020 Forecast	180
15.1	Multi-modal Security Systems and Other Modalities Market Background.....	180
15.2	Global Multi-modal Security Systems and Other Modalities Airport Security Market by Region – 2011-2020	180
15.2.1	Market by Region – 2011-2020	180
15.2.2	Market Dynamics by Region – 2012-2020.....	181
15.2.3	Market Share by Region – 2011-2020.....	182
15.3	North America Multi-modal Security Systems and Other Modalities Airport Security Market – 2011-2020	183
15.4	Latin America Multi-modal Security Systems and Other Modalities Airport Security Market – 2011-2020	185
15.5	Europe Multi-modal Security Systems and Other Modalities Airport Security Market – 2011-2020	186
15.6	Middle East and Africa Multi-modal Security Systems and Other Modalities Airport Security Market – 2011-2020	188
15.7	Asia-Pacific Multi-modal Security Systems and Other Modalities Airport Security Market – 2011-2020	189
16	Disclaimer & Copyright.....	191

List of Tables

Table 1 - Global Baggage & Cargo X-ray Scanners Airport Security Market [\$M] by Region – 2011-2020.....	26
Table 2 - Global Baggage & Cargo X-ray Scanners Airport Security Market AGR [%] by Region – 2011-2020.....	27
Table 3 - Global Baggage & Cargo X-ray Scanners Airport Security Market Share [%] by Region – 2011-2020.....	28
Table 4 - North America Baggage & Cargo X-ray Scanners Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	29
Table 5 - Latin America Baggage & Cargo X-ray Scanners Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	31
Table 6 - Europe Baggage & Cargo X-ray Scanners Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	32
Table 7 - Middle East and Africa Baggage & Cargo X-ray Scanners Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011- 2020.....	34
Table 8 - Asia-Pacific Baggage & Cargo X-ray Scanners Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	35
Table 9 - Global Security Related ICT & Cybersecurity Airport Security Market [\$M] by Region – 2011-2020.....	37
Table 10 - Global Security Related ICT & Cybersecurity Airport Security Market AGR [%] by Region – 2011-2020.....	38
Table 11 - Global Security Related ICT & Cybersecurity Airport Security Market Share [%] by Region – 2011-2020.....	39
Table 12 - North America Security Related ICT & Cybersecurity Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011- 2020.....	40
Table 13 - Latin America Security Related ICT & Cybersecurity Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011- 2020.....	42
Table 14 - Europe Security Related ICT & Cybersecurity Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	43
Table 15 - Middle East and Africa Security Related ICT & Cybersecurity Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	45
Table 16 - Asia-Pacific Security Related ICT & Cybersecurity Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011- 2020.....	46
Table 17 - Global Whole Body Scanners (AIT) Airport Security Market [\$M] by Region – 2011-2020	48
Table 18 - Global Whole Body Scanners (AIT) Airport Security Market AGR [%] by Region – 2011-2020	49
Table 19 - Global Whole Body Scanners (AIT) Airport Security Market Share [%] by Region – 2011-2020.....	50

Table 20 - North America Whole Body Scanners (AIT) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	51
Table 21 - Latin America Whole Body Scanners (AIT) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	53
Table 22 - Europe Whole Body Scanners (AIT) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	54
Table 23 - Middle East and Africa Whole Body Scanners (AIT) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	56
Table 24 - Asia-Pacific Whole Body Scanners (AIT) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	57
Table 25 - Global Explosive Detection Systems (EDS) Airport Security Market [\$M] by Region – 2011-2020.....	59
Table 26 - Global Explosive Detection Systems (EDS) Airport Security Market AGR [%] by Region – 2011-2020.....	60
Table 27 - Global Explosive Detection Systems (EDS) Airport Security Market Share [%] by Region – 2011-2020.....	61
Table 28 - North America Explosive Detection Systems (EDS) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	62
Table 29 - Latin America Explosive Detection Systems (EDS) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	64
Table 30 - Europe Explosive Detection Systems (EDS) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	65
Table 31 - Middle East and Africa Explosive Detection Systems (EDS) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	67
Table 32 - Asia-Pacific Explosive Detection Systems (EDS) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	68
Table 33 - Global Security Related Baggage Handling Systems (BHS) Airport Security Market [\$M] by Region – 2011-2020	70
Table 34 - Global Security Related Baggage Handling Systems (BHS) Airport Security Market AGR [%] by Region – 2011-2020	71
Table 35 - Global Security Related Baggage Handling Systems (BHS) Airport Security Market Share [%] by Region – 2011-2020	72
Table 36 - North America Security Related Baggage Handling Systems (BHS) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	73
Table 37 - Latin America Security Related Baggage Handling Systems (BHS) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	75
Table 38 - Europe Security Related Baggage Handling Systems (BHS) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	76

Table 39 - Middle East and Africa Security Related Baggage Handling Systems (BHS) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	78
Table 40 - Asia-Pacific Security Related Baggage Handling Systems (BHS) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	79
Table 41 - Global Explosives Trace Detectors (ETD) Airport Security Market [\$M] by Region – 2011-2020.....	81
Table 42 - Global Explosives Trace Detectors (ETD) Airport Security Market AGR [%] by Region – 2011-2020.....	82
Table 43 - Global Explosives Trace Detectors (ETD) Airport Security Market Share [%] by Region – 2011-2020.....	83
Table 44 - North America Explosives Trace Detectors (ETD) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	84
Table 45 - Latin America Explosives Trace Detectors (ETD) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	86
Table 46 - Europe Explosives Trace Detectors (ETD) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	87
Table 47 - Middle East and Africa Explosives Trace Detectors (ETD) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	89
Table 48 - Asia-Pacific Explosives Trace Detectors (ETD) Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	90
Table 49 - Global Metal Detectors Airport Security Market [\$M] by Region – 2011-2020.....	92
Table 50 - Global Metal Detectors Airport Security Market AGR [%] by Region – 2011-2020	93
Table 51 - Global Metal Detectors Airport Security Market Share [%] by Region – 2011-2020	94
Table 52 - North America Metal Detectors Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	95
Table 53 - Latin America Metal Detectors Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	97
Table 54 - Europe Metal Detectors Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	98
Table 55 - Middle East and Africa Metal Detectors Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	100
Table 56 - Asia-Pacific Metal Detectors Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	101
Table 57 - Global Liquid Explosives Detectors Airport Security Market [\$M] by Region – 2011-2020	103
Table 58 - Global Liquid Explosives Detectors Airport Security Market AGR [%] by Region – 2011-2020	104

Table 59 - Global Liquid Explosives Detectors Airport Security Market Share [%] by Region – 2011-2020.....	105
Table 60 - North America Liquid Explosives Detectors Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	106
Table 61 - Latin America Liquid Explosives Detectors Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	108
Table 62 - Europe Liquid Explosives Detectors Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	109
Table 63 - Middle East and Africa Liquid Explosives Detectors Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011- 2020.....	111
Table 64 - Asia-Pacific Liquid Explosives Detectors Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	112
Table 65 - Global Shoe Scanners Airport Security Market [\$M] by Region – 2011-2020.....	114
Table 66 - Global Shoe Scanners Airport Security Market AGR [%] by Region – 2011-2020	115
Table 67 - Global Shoe Scanners Airport Security Market Share [%] by Region – 2011-2020	116
Table 68 - North America Shoe Scanners Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	117
Table 69 - Latin America Shoe Scanners Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	119
Table 70 - Europe Shoe Scanners Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	120
Table 71 - Middle East and Africa Shoe Scanners Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	122
Table 72 - Asia-Pacific Shoe Scanners Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	123
Table 73 - Global Workforce ID Documents Screening Systems Airport Security Market [\$M] by Region – 2011-2020.....	125
Table 74 - Global Workforce ID Documents Screening Systems Airport Security Market AGR [%] by Region – 2011-2020.....	126
Table 75 - Global Workforce ID Documents Screening Systems Airport Security Market Share [%] by Region – 2011-2020	127
Table 76 - North America Workforce ID Documents Screening Systems Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	128
Table 77 - Latin America Workforce ID Documents Screening Systems Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	130
Table 78 - Europe Workforce ID Documents Screening Systems Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011- 2020.....	131

Table 79 - Middle East and Africa Workforce ID Documents Screening Systems Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	133
Table 80 - Asia-Pacific Workforce ID Documents Screening Systems Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	134
Table 81 - Global Automated Border Control Airport Security Market [\$M] by Region – 2011-2020	136
Table 82 - Global Automated Border Control Airport Security Market AGR [%] by Region – 2011-2020	137
Table 83 - Global Automated Border Control Airport Security Market Share [%] by Region – 2011-2020	138
Table 84 - North America Automated Border Control Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	139
Table 85 - Latin America Automated Border Control Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	141
Table 86 - Europe Automated Border Control Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	142
Table 87 - Middle East and Africa Automated Border Control Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	144
Table 88 - Asia-Pacific Automated Border Control Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	145
Table 89 - Global CCTV & Radar Surveillance Airport Security Market [\$M] by Region – 2011-2020	147
Table 90 - Global CCTV & Radar Surveillance Airport Security Market AGR [%] by Region – 2011-2020	148
Table 91 - Global CCTV & Radar Surveillance Airport Security Market Share [%] by Region – 2011-2020.....	149
Table 92 - North America CCTV & Radar Surveillance Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	150
Table 93 - Latin America CCTV & Radar Surveillance Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	152
Table 94 - Europe CCTV & Radar Surveillance Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	153
Table 95 - Middle East and Africa CCTV & Radar Surveillance Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	155
Table 96 - Asia-Pacific CCTV & Radar Surveillance Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	156
Table 97 - Global C2/C4ISR Systems Airport Security Market [\$M] by Region – 2011-2020	158
Table 98 - Global C2/C4ISR Systems Airport Security Market AGR [%] by Region – 2011-2020	159

Table 99 - Global C2/C4ISR Systems Airport Security Market Share [%] by Region – 2011-2020	160
Table 100 - North America C2/C4ISR Systems Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	161
Table 101 - Latin America C2/C4ISR Systems Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	163
Table 102 - Europe C2/C4ISR Systems Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	164
Table 103 - Middle East and Africa C2/C4ISR Systems Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	166
Table 104 - Asia-Pacific C2/C4ISR Systems Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	167
Table 105 - Global Airport Perimeter Fencing Market [\$M] by Region – 2011-2020	169
Table 106 - Global Airport Perimeter Fencing Market AGR [%] by Region – 2011-2020	170
Table 107 - Global Airport Perimeter Fencing Market Share [%] by Region – 2011-2020	171
Table 108 - North America Airport Perimeter Fencing Market [\$M], AGR [%] and Market Share [%] - 2011-2020	172
Table 109 - Latin America Airport Perimeter Fencing Market [\$M], AGR [%] and Market Share [%] - 2011-2020	174
Table 110 - Europe Airport Perimeter Fencing Market [\$M], AGR [%] and Market Share [%] - 2011-2020	175
Table 111 - Middle East and Africa Airport Perimeter Fencing Market [\$M], AGR [%] and Market Share [%] - 2011-2020	177
Table 112 - Asia-Pacific Airport Perimeter Fencing Market [\$M], AGR [%] and Market Share [%] - 2011-2020	178
Table 113 - Global Multi-modal Security Systems and Other Modalities Airport Security Market [\$M] by Region – 2011-2020	180
Table 114 - Global Multi-modal Security Systems and Other Modalities Airport Security Market AGR [%] by Region – 2011-2020	181
Table 115 - Global Multi-modal Security Systems and Other Modalities Airport Security Market Share [%] by Region – 2011-2020	182
Table 116 - North America Multi-modal Security Systems and Other Modalities Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	183
Table 117 - Latin America Multi-modal Security Systems and Other Modalities Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	185
Table 118 - Europe Multi-modal Security Systems and Other Modalities Airport Security Market [\$M], AGR [%] and Market Share [%] - 2011-2020	186

Table 119 - Middle East and Africa Multi-modal Security Systems and
Other Modalities Airport Security Market [\$M], AGR [%] and
Market Share [%] - 2011-2020 188

Table 120 - Asia-Pacific Multi-modal Security Systems and Other
Modalities Airport Security Market [\$M], AGR [%] and Market
Share [%] - 2011-2020..... 189

List of Figures

Figure 1 - Global Baggage & Cargo X-ray Scanners Airport Security Market [\$M] by Region – 2011-2020.....	27
Figure 2 - Global Baggage & Cargo X-ray Scanners Airport Security Market AGR [%] by Region – 2011-2020.....	28
Figure 3 - Global Baggage & Cargo X-ray Scanners Airport Security Market Share [%] by Region – 2011-2020.....	29
Figure 4 - North America Baggage & Cargo X-ray Scanners Airport Security Market [\$M] – 2011-2020.....	30
Figure 5 - North America Baggage & Cargo X-ray Scanners Airport Security Market AGR [%] - 2011-2020.....	30
Figure 6 - Latin America Baggage & Cargo X-ray Scanners Airport Security Market [\$M] - 2011-2020.....	31
Figure 7 - Latin America Baggage & Cargo X-ray Scanners Airport Security Market AGR [%] - 2011-2020.....	32
Figure 8 - Europe Baggage & Cargo X-ray Scanners Airport Security Market [\$M] - 2011-2020.....	33
Figure 9 - Europe Baggage & Cargo X-ray Scanners Airport Security Market AGR [%] - 2011-2020.....	33
Figure 10 - Middle East and Africa Baggage & Cargo X-ray Scanners Airport Security Market [\$M] - 2011-2020	34
Figure 11 - Middle East and Africa Baggage & Cargo X-ray Scanners Airport Security Market AGR [%] - 2011-2020	35
Figure 12 - Asia-Pacific Baggage & Cargo X-ray Scanners Airport Security Market [\$M] - 2011-2020.....	36
Figure 13 - Asia-Pacific Baggage & Cargo X-ray Scanners Airport Security Market AGR [%] - 2011-2020.....	36
Figure 14 - Global Security Related ICT & Cybersecurity Airport Security Market [\$M] by Region – 2011-2020.....	38
Figure 15 - Global Security Related ICT & Cybersecurity Airport Security Market AGR [%] by Region – 2011-2020.....	39
Figure 16 - Global Security Related ICT & Cybersecurity Airport Security Market Share [%] by Region – 2011-2020.....	40
Figure 17 - North America Security Related ICT & Cybersecurity Airport Security Market [\$M] - 2011-2020.....	41
Figure 18 - North America Security Related ICT & Cybersecurity Airport Security Market AGR [%] - 2011-2020.....	41
Figure 19 - Latin America Security Related ICT & Cybersecurity Airport Security Market [\$M] - 2011-2020.....	42
Figure 20 - Latin America Security Related ICT & Cybersecurity Airport Security Market AGR [%] - 2011-2020.....	43
Figure 21 - Europe Security Related ICT & Cybersecurity Airport Security Market [\$M] - 2011-2020.....	44

Figure 22 - Europe Security Related ICT & Cybersecurity Airport Security Market AGR [%] - 2011-2020.....	44
Figure 23 - Middle East and Africa Security Related ICT & Cybersecurity Airport Security Market [\$M] - 2011-2020	45
Figure 24 - Middle East and Africa Security Related ICT & Cybersecurity Airport Security Market AGR [%] - 2011-2020	46
Figure 25 - Asia-Pacific Security Related ICT & Cybersecurity Airport Security Market [\$M] - 2011-2020.....	47
Figure 26 - Asia-Pacific Security Related ICT & Cybersecurity Airport Security Market AGR [%] - 2011-2020.....	47
Figure 27 - Global Whole Body Scanners (AIT) Airport Security Market [\$M] by Region – 2011-2020	49
Figure 28 - Global Whole Body Scanners (AIT) Airport Security Market AGR [%] by Region – 2011-2020.....	50
Figure 29 - Global Whole Body Scanners (AIT) Airport Security Market Share [%] by Region – 2011-2020.....	51
Figure 30 - North America Whole Body Scanners (AIT) Airport Security Market [\$M] - 2011-2020.....	52
Figure 31 - North America Whole Body Scanners (AIT) Airport Security Market AGR [%] - 2011-2020.....	52
Figure 32 - Latin America Whole Body Scanners (AIT) Airport Security Market [\$M] - 2011-2020.....	53
Figure 33 - Latin America Whole Body Scanners (AIT) Airport Security Market AGR [%] - 2011-2020.....	54
Figure 34 - Europe Whole Body Scanners (AIT) Airport Security Market [\$M] - 2011-2020	55
Figure 35 - Europe Whole Body Scanners (AIT) Airport Security Market AGR [%] - 2011-2020	55
Figure 36 - Middle East and Africa Whole Body Scanners (AIT) Airport Security Market [\$M] - 2011-2020.....	56
Figure 37 - Middle East and Africa Whole Body Scanners (AIT) Airport Security Market AGR [%] - 2011-2020.....	57
Figure 38 - Asia-Pacific Whole Body Scanners (AIT) Airport Security Market [\$M] - 2011-2020.....	58
Figure 39 - Asia-Pacific Whole Body Scanners (AIT) Airport Security Market AGR [%] - 2011-2020.....	58
Figure 40 - Global Explosive Detection Systems (EDS) Airport Security Market [\$M] by Region – 2011-2020.....	60
Figure 41 - Global Explosive Detection Systems (EDS) Airport Security Market AGR [%] by Region – 2011-2020.....	61
Figure 42 - Global Explosive Detection Systems (EDS) Airport Security Market Share [%] by Region – 2011-2020.....	62
Figure 43 - North America Explosive Detection Systems (EDS) Airport Security Market [\$M] - 2011-2020.....	63

Figure 44 - North America Explosive Detection Systems (EDS) Airport Security Market AGR [%] - 2011-2020.....	63
Figure 45 - Latin America Explosive Detection Systems (EDS) Airport Security Market [\$M] - 2011-2020.....	64
Figure 46 - Latin America Explosive Detection Systems (EDS) Airport Security Market AGR [%] - 2011-2020.....	65
Figure 47 - Europe Explosive Detection Systems (EDS) Airport Security Market [\$M] - 2011-2020.....	66
Figure 48 - Europe Explosive Detection Systems (EDS) Airport Security Market AGR [%] - 2011-2020.....	66
Figure 49 - Middle East and Africa Explosive Detection Systems (EDS) Airport Security Market [\$M] - 2011-2020	67
Figure 50 - Middle East and Africa Explosive Detection Systems (EDS) Airport Security Market AGR [%] - 2011-2020	68
Figure 51 - Asia-Pacific Explosive Detection Systems (EDS) Airport Security Market [\$M] - 2011-2020.....	69
Figure 52 - Asia-Pacific Explosive Detection Systems (EDS) Airport Security Market AGR [%] - 2011-2020.....	69
Figure 53 - Global Security Related Baggage Handling Systems (BHS) Airport Security Market [\$M] by Region – 2011-2020	71
Figure 54 - Global Security Related Baggage Handling Systems (BHS) Airport Security Market AGR [%] by Region – 2011-2020	72
Figure 55 - Global Security Related Baggage Handling Systems (BHS) Airport Security Market Share [%] by Region – 2011-2020	73
Figure 56 - North America Security Related Baggage Handling Systems (BHS) Airport Security Market [\$M] - 2011-2020	74
Figure 57 - North America Security Related Baggage Handling Systems (BHS) Airport Security Market AGR [%] - 2011-2020	74
Figure 58 - Latin America Security Related Baggage Handling Systems (BHS) Airport Security Market [\$M] - 2011-2020	75
Figure 59 - Latin America Security Related Baggage Handling Systems (BHS) Airport Security Market AGR [%] - 2011-2020	76
Figure 60 - Europe Security Related Baggage Handling Systems (BHS) Airport Security Market [\$M] - 2011-2020	77
Figure 61 - Europe Security Related Baggage Handling Systems (BHS) Airport Security Market AGR [%] - 2011-2020	77
Figure 62 - Middle East and Africa Security Related Baggage Handling Systems (BHS) Airport Security Market [\$M] - 2011-2020.....	78
Figure 63 - Middle East and Africa Security Related Baggage Handling Systems (BHS) Airport Security Market AGR [%] - 2011-2020.....	79
Figure 64 - Asia-Pacific Security Related Baggage Handling Systems (BHS) Airport Security Market [\$M] - 2011-2020	80
Figure 65 - Asia-Pacific Security Related Baggage Handling Systems (BHS) Airport Security Market AGR [%] - 2011-2020	80

Figure 66 - Global Explosives Trace Detectors (ETD) Airport Security Market [\$M] by Region – 2011-2020.....	82
Figure 67 - Global Explosives Trace Detectors (ETD) Airport Security Market AGR [%] by Region – 2011-2020.....	83
Figure 68 - Global Explosives Trace Detectors (ETD) Airport Security Market Share [%] by Region – 2011-2020.....	84
Figure 69 - North America Explosives Trace Detectors (ETD) Airport Security Market [\$M] - 2011-2020.....	85
Figure 70 - North America Explosives Trace Detectors (ETD) Airport Security Market AGR [%] - 2011-2020.....	85
Figure 71 - Latin America Explosives Trace Detectors (ETD) Airport Security Market [\$M] - 2011-2020.....	86
Figure 72 - Latin America Explosives Trace Detectors (ETD) Airport Security Market AGR [%] - 2011-2020.....	87
Figure 73 - Europe Explosives Trace Detectors (ETD) Airport Security Market [\$M] - 2011-2020.....	88
Figure 74 - Europe Explosives Trace Detectors (ETD) Airport Security Market AGR [%] - 2011-2020.....	88
Figure 75 - Middle East and Africa Explosives Trace Detectors (ETD) Airport Security Market [\$M] - 2011-2020	89
Figure 76 - Middle East and Africa Explosives Trace Detectors (ETD) Airport Security Market AGR [%] - 2011-2020	90
Figure 77 - Asia-Pacific Explosives Trace Detectors (ETD) Airport Security Market [\$M] - 2011-2020.....	91
Figure 78 - Asia-Pacific Explosives Trace Detectors (ETD) Airport Security Market AGR [%] - 2011-2020.....	91
Figure 79 - Global Metal Detectors Airport Security Market [\$M] by Region – 2011-2020.....	93
Figure 80 - Global Metal Detectors Airport Security Market AGR [%] by Region – 2011-2020	94
Figure 81 - Global Metal Detectors Airport Security Market Share [%] by Region – 2011-2020	95
Figure 82 - North America Metal Detectors Airport Security Market [\$M] - 2011-2020.....	96
Figure 83 - North America Metal Detectors Airport Security Market AGR [%] - 2011-2020	96
Figure 84 - Latin America Metal Detectors Airport Security Market [\$M] - 2011-2020.....	97
Figure 85 - Latin America Metal Detectors Airport Security Market AGR [%] - 2011-2020	98
Figure 86 - Europe Metal Detectors Airport Security Market [\$M] - 2011-2020.....	99
Figure 87 - Europe Metal Detectors Airport Security Market AGR [%] - 2011-2020.....	99

Figure 88 - Middle East and Africa Metal Detectors Airport Security Market [\$M] - 2011-2020	100
Figure 89 - Middle East and Africa Metal Detectors Airport Security Market AGR [%] - 2011-2020	101
Figure 90 - Asia-Pacific Metal Detectors Airport Security Market [\$M] - 2011-2020.....	102
Figure 91 - Asia-Pacific Metal Detectors Airport Security Market AGR [%] - 2011-2020.....	102
Figure 92 - Global Liquid Explosives Detectors Airport Security Market [\$M] by Region – 2011-2020	104
Figure 93 - Global Liquid Explosives Detectors Airport Security Market AGR [%] by Region – 2011-2020.....	105
Figure 94 - Global Liquid Explosives Detectors Airport Security Market Share [%] by Region – 2011-2020.....	106
Figure 95 - North America Liquid Explosives Detectors Airport Security Market [\$M] - 2011-2020.....	107
Figure 96 - North America Liquid Explosives Detectors Airport Security Market AGR [%] - 2011-2020.....	107
Figure 97 - Latin America Liquid Explosives Detectors Airport Security Market [\$M] - 2011-2020.....	108
Figure 98 - Latin America Liquid Explosives Detectors Airport Security Market AGR [%] - 2011-2020.....	109
Figure 99 - Europe Liquid Explosives Detectors Airport Security Market [\$M] - 2011-2020	110
Figure 100 - Europe Liquid Explosives Detectors Airport Security Market AGR [%] - 2011-2020	110
Figure 101 - Middle East and Africa Liquid Explosives Detectors Airport Security Market [\$M] - 2011-2020.....	111
Figure 102 - Middle East and Africa Liquid Explosives Detectors Airport Security Market AGR [%] - 2011-2020.....	112
Figure 103 - Asia-Pacific Liquid Explosives Detectors Airport Security Market [\$M] - 2011-2020.....	113
Figure 104 - Asia-Pacific Liquid Explosives Detectors Airport Security Market AGR [%] - 2011-2020.....	113
Figure 105 - Global Shoe Scanners Airport Security Market [\$M] by Region – 2011-2020.....	115
Figure 106 - Global Shoe Scanners Airport Security Market AGR [%] by Region – 2011-2020	116
Figure 107 - Global Shoe Scanners Airport Security Market Share [%] by Region – 2011-2020	117
Figure 108 - North America Shoe Scanners Airport Security Market [\$M] - 2011-2020.....	118
Figure 109 - North America Shoe Scanners Airport Security Market AGR [%] - 2011-2020	118

Figure 110 - Latin America Shoe Scanners Airport Security Market [\$M] - 2011-2020.....	119
Figure 111 - Latin America Shoe Scanners Airport Security Market AGR [%] - 2011-2020	120
Figure 112 - Europe Shoe Scanners Airport Security Market [\$M] - 2011-2020.....	121
Figure 113 - Europe Shoe Scanners Airport Security Market AGR [%] - 2011-2020.....	121
Figure 114 - Middle East and Africa Shoe Scanners Airport Security Market [\$M] - 2011-2020	122
Figure 115 - Middle East and Africa Shoe Scanners Airport Security Market AGR [%] - 2011-2020	123
Figure 116 - Asia-Pacific Shoe Scanners Airport Security Market [\$M] - 2011-2020.....	124
Figure 117 - Asia-Pacific Shoe Scanners Airport Security Market AGR [%] - 2011-2020.....	124
Figure 118 - Global Workforce ID Documents Screening Systems Airport Security Market [\$M] by Region – 2011-2020.....	126
Figure 119 - Global Workforce ID Documents Screening Systems Airport Security Market AGR [%] by Region – 2011-2020.....	127
Figure 120 - Global Workforce ID Documents Screening Systems Airport Security Market Share [%] by Region – 2011-2020	128
Figure 121 - North America Workforce ID Documents Screening Systems Airport Security Market [\$M] - 2011-2020	129
Figure 122 - North America Workforce ID Documents Screening Systems Airport Security Market AGR [%] - 2011-2020	129
Figure 123 - Latin America Workforce ID Documents Screening Systems Airport Security Market [\$M] - 2011-2020	130
Figure 124 - Latin America Workforce ID Documents Screening Systems Airport Security Market AGR [%] - 2011-2020	131
Figure 125 - Europe Workforce ID Documents Screening Systems Airport Security Market [\$M] - 2011-2020.....	132
Figure 126 - Europe Workforce ID Documents Screening Systems Airport Security Market AGR [%] - 2011-2020.....	132
Figure 127 - Middle East and Africa Workforce ID Documents Screening Systems Airport Security Market [\$M] - 2011-2020	133
Figure 128 - Middle East and Africa Workforce ID Documents Screening Systems Airport Security Market AGR [%] - 2011-2020	134
Figure 129 - Asia-Pacific Workforce ID Documents Screening Systems Airport Security Market [\$M] - 2011-2020	135
Figure 130 - Asia-Pacific Workforce ID Documents Screening Systems Airport Security Market AGR [%] - 2011-2020	135
Figure 131 - Global Automated Border Control Airport Security Market [\$M] by Region – 2011-2020	137

Figure 132 - Global Automated Border Control Airport Security Market AGR [%] by Region – 2011-2020	138
Figure 133 - Global Automated Border Control Airport Security Market Share [%] by Region – 2011-2020.....	139
Figure 134 - North America Automated Border Control Airport Security Market [\$M] - 2011-2020.....	140
Figure 135 - North America Automated Border Control Airport Security Market AGR [%] - 2011-2020.....	140
Figure 136 - Latin America Automated Border Control Airport Security Market [\$M] - 2011-2020.....	141
Figure 137 - Latin America Automated Border Control Airport Security Market AGR [%] - 2011-2020.....	142
Figure 138 - Europe Automated Border Control Airport Security Market [\$M] - 2011-2020	143
Figure 139 - Europe Automated Border Control Airport Security Market AGR [%] - 2011-2020	143
Figure 140 - Middle East and Africa Automated Border Control Airport Security Market [\$M] - 2011-2020.....	144
Figure 141 - Middle East and Africa Automated Border Control Airport Security Market AGR [%] - 2011-2020.....	145
Figure 142 - Asia-Pacific Automated Border Control Airport Security Market [\$M] - 2011-2020	146
Figure 143 - Asia-Pacific Automated Border Control Airport Security Market AGR [%] - 2011-2020	146
Figure 144 - Global CCTV & Radar Surveillance Airport Security Market [\$M] by Region – 2011-2020.....	148
Figure 145 - Global CCTV & Radar Surveillance Airport Security Market AGR [%] by Region – 2011-2020.....	149
Figure 146 - Global CCTV & Radar Surveillance Airport Security Market Share [%] by Region – 2011-2020.....	150
Figure 147 - North America CCTV & Radar Surveillance Airport Security Market [\$M] - 2011-2020.....	151
Figure 148 - North America CCTV & Radar Surveillance Airport Security Market AGR [%] - 2011-2020.....	151
Figure 149 - Latin America CCTV & Radar Surveillance Airport Security Market [\$M] - 2011-2020.....	152
Figure 150 - Latin America CCTV & Radar Surveillance Airport Security Market AGR [%] - 2011-2020.....	153
Figure 151 - Europe CCTV & Radar Surveillance Airport Security Market [\$M] - 2011-2020	154
Figure 152 - Europe CCTV & Radar Surveillance Airport Security Market AGR [%] - 2011-2020	154
Figure 153 - Middle East and Africa CCTV & Radar Surveillance Airport Security Market [\$M] - 2011-2020.....	155

Figure 154 - Middle East and Africa CCTV & Radar Surveillance Airport Security Market AGR [%] - 2011-2020.....	156
Figure 155 - Asia-Pacific CCTV & Radar Surveillance Airport Security Market [\$M] - 2011-2020.....	157
Figure 156 - Asia-Pacific CCTV & Radar Surveillance Airport Security Market AGR [%] - 2011-2020.....	157
Figure 157 - Global C2/C4ISR Systems Airport Security Market [\$M] by Region – 2011-2020	159
Figure 158 - Global C2/C4ISR Systems Airport Security Market AGR [%] by Region – 2011-2020	160
Figure 159 - Global C2/C4ISR Systems Airport Security Market Share [%] by Region – 2011-2020	161
Figure 160 - North America C2/C4ISR Systems Airport Security Market [\$M] - 2011-2020	162
Figure 161 - North America C2/C4ISR Systems Airport Security Market AGR [%] - 2011-2020	162
Figure 162 - Latin America C2/C4ISR Systems Airport Security Market [\$M] - 2011-2020	163
Figure 163 - Latin America C2/C4ISR Systems Airport Security Market AGR [%] - 2011-2020	164
Figure 164 - Europe C2/C4ISR Systems Airport Security Market [\$M] - 2011-2020.....	165
Figure 165 - Europe C2/C4ISR Systems Airport Security Market AGR [%] - 2011-2020.....	165
Figure 166 - Middle East and Africa C2/C4ISR Systems Airport Security Market [\$M] - 2011-2020.....	166
Figure 167 - Middle East and Africa C2/C4ISR Systems Airport Security Market AGR [%] - 2011-2020.....	167
Figure 168 - Asia-Pacific C2/C4ISR Systems Airport Security Market [\$M] - 2011-2020.....	168
Figure 169 - Asia-Pacific C2/C4ISR Systems Airport Security Market AGR [%] - 2011-2020	168
Figure 170 - Global Airport Perimeter Fencing Market [\$M] by Region – 2011-2020.....	170
Figure 171 - Global Airport Perimeter Fencing Market AGR [%] by Region – 2011-2020.....	171
Figure 172 - Global Airport Perimeter Fencing Market Share [%] by Region – 2011-2020.....	172
Figure 173 - North America Airport Perimeter Fencing Market [\$M] - 2011-2020.....	173
Figure 174 - North America Airport Perimeter Fencing Market AGR [%] - 2011-2020.....	173
Figure 175 - Latin America Airport Perimeter Fencing Market [\$M] - 2011-2020.....	174

Figure 176 - Latin America Airport Perimeter Fencing Market AGR [%] - 2011-2020.....	175
Figure 177 - Europe Airport Perimeter Fencing Market [\$M] - 2011-2020	176
Figure 178 - Europe Airport Perimeter Fencing Market AGR [%] - 2011-2020.....	176
Figure 179 - Middle East and Africa Airport Perimeter Fencing Market [\$M] - 2011-2020	177
Figure 180 - Middle East and Africa Airport Perimeter Fencing Market AGR [%] - 2011-2020	178
Figure 181 - Asia-Pacific Airport Perimeter Fencing Market [\$M] - 2011-2020.....	179
Figure 182 - Asia-Pacific Airport Perimeter Fencing Market AGR [%] - 2011-2020.....	179
Figure 183 - Global Multi-modal Security Systems and Other Modalities Airport Security Market [\$M] by Region – 2011-2020	181
Figure 184 - Global Multi-modal Security Systems and Other Modalities Airport Security Market AGR [%] by Region – 2011-2020	182
Figure 185 - Global Multi-modal Security Systems and Other Modalities Airport Security Market Share [%] by Region – 2011-2020	183
Figure 186 - North America Multi-modal Security Systems and Other Modalities Airport Security Market [\$M] - 2011-2020	184
Figure 187 - North America Multi-modal Security Systems and Other Modalities Airport Security Market AGR [%] - 2011-2020	184
Figure 188 - Latin America Multi-modal Security Systems and Other Modalities Airport Security Market [\$M] - 2011-2020	185
Figure 189 - Latin America Multi-modal Security Systems and Other Modalities Airport Security Market AGR [%] - 2011-2020	186
Figure 190 - Europe Multi-modal Security Systems and Other Modalities Airport Security Market [\$M] - 2011-2020	187
Figure 191 - Europe Multi-modal Security Systems and Other Modalities Airport Security Market AGR [%] - 2011-2020	187
Figure 192 - Middle East and Africa Multi-modal Security Systems and Other Modalities Airport Security Market [\$M] - 2011-2020	188
Figure 193 - Middle East and Africa Multi-modal Security Systems and Other Modalities Airport Security Market AGR [%] - 2011-2020.....	189
Figure 194 - Asia-Pacific Multi-modal Security Systems and Other Modalities Airport Security Market [\$M] - 2011-2020	190
Figure 195 - Asia-Pacific Multi-modal Security Systems and Other Modalities Airport Security Market AGR [%] - 2011-2020	190

2015-2020

Global Airport Security: Technologies, Industry & Markets

Volume 3

Airport Perimeter Security

Airport Terminal Surveillance

Intrusion Detection

No-Fly Passenger Pre-Screening

Travel Document Checker

Checked Baggage Screening

Air-Cargo Screening

Command & Control

Air Marshals

Bomb Appraisal Officers

Random Employee Screening

Hardened Cockpit Door

Flight Deck Officers

Cabin CCTV Surveillance

Homeland Security Research Corp.

***Global Airport Security:
Technologies, Industry &
Markets
2015-2020***

Volume 3

March 2015

Table of Contents

INDUSTRY	16
1 Aviation Security Industry: Overview	16
1.1 Economic Turmoil Effects on the Aviation Security Market	16
1.2 Globalization of the Aviation Security Industry	17
1.3 Classification of the Aviation Security Industry Business & Industrial Activities	17
1.4 Forces that Shape the Aviation Security Industry & Markets	18
1.5 Aviation Security Vendor – Government Relationship	20
1.6 Barriers to the Aviation Security Market Entry	22
1.7 Aviation Security Industry: Supply-Side & Demand-Side Analysis	23
2 Airport Security Industry: Business Models & Strategies	26
2.1 Variable Economic Conditions	26
2.2 Airport Security Market Tiers	26
2.3 Defense Primes & Mega Corporations' Inroads into the Airport Security Market	27
2.4 Entry Strategies toward the Airport Security Arena.....	27
2.5 Price Elasticity.....	29
2.6 Mergers and Acquisitions (M&A).....	30
3 Aviation Security Standards and Regulations	31
3.1 Aviation Security Standards.....	31
3.2 ICAO Airport Security & Safety Regulations	31
4 Leading Vendors: Profile, Products & Contact Info	34
4.1 Vendors and Product Lines Summary	34
4.2 American Science and Engineering, Inc.	36
4.3 Auto Clear	37
4.4 ADANI	39
4.5 Red X Defense.....	39
4.6 Syagen Technology	40
4.7 Thermo Electron Corporation.....	41
4.8 Biosensor Applications.....	42
4.9 Hitachi.....	43
4.10 Scent Detection Technologies	44
4.11 Ketech Defence	45
4.12 Mistral Security Inc.....	45
4.13 Appealing Products, Inc. (API) / ChemSee	46
4.14 DetectaChem LLC	47
4.15 Scintrex Trace.....	47
4.16 Flir Systems	48
4.17 Ion Applications Inc.....	48
4.18 BAHIA Corp (Sibel Ltd.)	49

4.19	CEIA	49
4.20	Fisher Labs	50
4.21	Brijot Imaging Systems	50
4.22	TeraView.....	51
4.23	ThruVision Systems	52
4.24	Gilardoni SpA.....	53
4.25	L-3 Communications Security & Detection Systems	54
4.26	QinetiQ Ltd.....	55
4.27	Westminster International Ltd.	55
4.28	LIXI, Inc.....	56
4.29	MilliVision.....	58
4.30	MINXRAY, Inc.....	59
4.31	Morpho Detection Inc.....	60
4.32	Nuctech Co. Ltd.	61
4.33	Rapiscan Security Products, Inc.	62
4.34	Scanna MSC Ltd.....	63
4.35	Smiths Detection.....	64
4.36	Vidisco Ltd.	65

TECHNOLOGIES 66

5 X-ray Baggage & Cargo Screening: Present & Pipeline Technologies 66

5.1	Aviation Security X-ray Baggage & Cargo Screening Market Background.....	66
5.2	Aviation Security Explosives Screening Technologies.....	68
5.2.1	X-ray Systems - Characteristics	69
5.2.2	X-ray Systems - Principles of Operation.....	70
5.2.3	2D X-ray, EDS and ETD Explosives Detection Technologies - Pros and Cons	71
5.3	X-ray Baggage & Cargo Screening Present & Pipeline Technologies	72
5.3.1	Overview	72
5.3.2	Threat Image Projection (TIP)	72
5.3.3	Conventional 2D X-ray	73
5.3.4	Dual Energy X-ray	74
5.3.5	Variable View X-ray	78
5.3.6	Quasi 3-D Dual View Dual-Energy X-ray Imaging	79
5.3.7	TSA “Advanced Technology” (AT) X-ray Systems	80
5.3.8	Backscatter Screening X-ray	81
5.3.9	Coherent Scatter X-ray.....	83
5.3.10	Cast & Artificial Limbs Screening: X-ray Backscatter Technologies	85
5.3.11	Fused X-ray and ETD Screening.....	86
5.3.12	Fused Baggage X-ray and RFID Screening	86
5.3.13	Multi-Threat Multi-Modal X-ray Screening	87

5.3.14	Advanced 2D Coherent X-ray Baggage Screening	88
5.3.15	Stereoscopic “3D X-ray” Imaging	88
5.4	Operational Considerations	90
5.5	X-ray Screening Technologies: Performance Comparison	92
6	Air Cargo Screening Market & Technologies.....	93
6.1.1	Air Cargo Industry Outlook	93
6.1.2	Air-Cargo Traffic and Capacity	94
6.1.3	Trend in Global Air-Freight Traffic by Region	94
6.1.4	Air Cargo Related Security Risks.....	95
6.1.5	Air-Cargo Supply Chain Security	95
7	Whole Body Scanners (AIT) - Present & Pipeline Technologies	100
7.1	Passenger Screening Process Using Advanced Imaging Technology	100
7.2	Whole Body Scanning Present & Pipeline Technologies	101
7.2.1	X-ray Backscatter AIT Portals	101
7.2.1.1	Backscatter Imaging Technology - Principles of Operation	101
7.2.2	Risks/Benefits of X-ray AIT Systems.....	102
7.2.3	Active MMWave Whole Body AIT Scanners.....	105
7.2.3.1	Principles of Operation	105
7.2.3.2	MMWave AIT: Techno-Tactical & Economic Considerations.....	109
7.2.4	Passive MMWave Whole Body Scanners	109
7.2.4.1	Principle of Operation	109
7.2.4.2	System Example: Millivision 350 Portal	110
7.2.5	Terahertz Whole Body Scanners.....	112
7.2.5.1	Terahertz Weapon Detection Portals Technology	112
7.2.5.2	Terahertz Time Domain Spectroscopy (TTDS) Technology	113
7.2.6	Comparison of MMWave/Terahertz vs. Backscatter X-ray Portals	114
7.3	Next Generation AIT	114
7.3.1	AIT-2 Systems Deployment.....	114
7.3.2	Next Generation AIT R&D Program	115
7.3.3	The DHS S&T Covert “Screen while Walk” Program.....	116
7.4	Whole Body Scanning Vendors and Products	117
8	Explosive Detection Systems (EDS) – Present & Pipeline Technologies	118
8.1	Explosive Detection Systems (EDS): Market Background	118
8.2	Explosive Detection Systems (EDS): Technologies.....	120
8.2.1	EDS Principle of Operation.....	120
8.2.2	Hybrid Tomographic EDS & 2D X-ray Screening	121
8.2.3	Explosive Detection Systems: Throughput	122

8.2.4	EDS Throughput vs. Price	122
8.3	EDT & ETD Checked Luggage Screening	124
8.3.1	EDS-based Screening Systems Deployment Strategy	125
8.3.2	Coherent X-ray Scatter Based Multi-level Screening	128
8.3.3	Checked Luggage Covert Testing Procedures	128
8.4	EDS Technology Outlook – 2015-2020.....	132
8.4.1	Advanced Coherent X-ray Scattering EDS.....	132
8.4.2	Stationary EDS.....	133
8.4.3	EDS Liquid and Homemade Explosives Detection	135
8.4.4	MagViz Distinguishes Potential-Threat Liquids	136
8.4.5	Superconducting Quantum Interference Device (SQUID).....	137
8.4.6	Quasi Tomographic EDS – 3D X-ray.....	138
9	Explosives Trace Detectors (ETD) - Present & Pipeline Technologies	140
9.1	Explosives Trace Detectors (ETD): Market background	140
9.2	ETD Technologies	142
9.2.1	Explosive Materials.....	142
9.2.2	ETD Principles of Operation	144
9.2.3	ETD Core Technologies	145
9.2.4	Ion Mobility Spectroscopy (IMS)	148
9.2.5	ChemiLuminescence (CL)	149
9.2.6	Electron Capture Detectors (ECD)	150
9.2.7	Surface Acoustic Wave (SAW).....	151
9.3	ETD Devices.....	152
9.3.1	Explosives Trace Detectors Configuration.....	152
9.3.2	Hand-held & Desktop ETD Devices.....	153
9.3.2.1	Sample Collection Methods	154
9.3.3	Desktop and Portable ETD Devices – Technology Challenges	154
9.3.4	Hand-held, Desktop ETD – Cost Performance Analysis.....	156
9.3.5	ETD Vendors, Products & Prices	157
9.3.6	TD Alarm Resolution	159
9.4	ETD Technology Outlook - 2015-2020.....	160
9.4.1	ETD of the Future: Techno-Tactical Challenges.....	160
9.4.2	ETD of the Future: Performance & Operational Goals	161
9.4.3	Advanced Sample Collection.....	161
9.4.4	Dual Technology ETD	162
9.4.5	Nano Technology Systems.....	162
9.4.6	ETD MicroChemLab on a Chip.....	162
9.4.7	Coated Micro-Cantilever ETD Detector	163
9.4.8	Nanotechnology Platform Based ETD Detector	164
9.4.9	TSA, Next Generation ETD Technologies R&D	165

9.4.10	Integrated Explosives, Chemical Warfare and Narcotics Trace Detectors	165
10	Metal Detectors - Present & Pipeline Technologies	166
10.1	Metal Detectors Market Background	166
10.2	Metal Detectors Technologies	166
10.3	Hand-held Metal Detectors	167
10.3.1	Hand-held Metal Detectors – Vendors.....	168
10.4	Walk-through Metal Detection Portals.....	168
10.4.1	Introduction.....	168
10.4.2	Walk-through Electromagnetic Portals: Glossary	169
10.4.3	Overview	169
10.4.4	Walk-through Metal-Detection Portals: Principles of Operation.....	170
10.4.5	Walk-through Metal Detection Portals Throughput.....	172
10.4.6	Walk-through Metal Detection Portals – Vendors, Products & Prices.....	172
11	Liquid Explosives Detectors - Present & Pipeline Technologies	175
11.1	Liquid Explosives Screening Market Background	175
11.2	Liquid Explosives Scanners	175
11.3	Liquid Explosives Screening	176
11.4	DHS's SENSIT Program	176
11.5	Liquid Detection: Techno-Tactical Considerations.....	177
11.6	Liquid Explosives Scanners – Vendors, Products and Prices.....	177
12	Shoe Scanners - Present & Pipeline Technologies	178
12.1	Shoe Scanners Market Background	178
12.2	Shoe Scanners Technologies	178
12.3	Shoe Scanners: Vendors, Products and Prices	179
13	Airport Workforce & Visitors ID Documents Screening Systems - Present & Pipeline Technologies	180
13.1	Airport Workforce and Visitors Identification Market	180
13.1.1	Airport Workforce and Visitors Identification Market Drivers	180
13.1.2	Airport Workforce and Visitors Identification Market Inhibitors.....	180
13.2	Fused Biometric, Document Authentication and Interrogation Portals.....	181
14	Airport Automated Border Control - Present & Pipeline Technologies	182
14.1	Airport Automated Border Control Market Background.....	182
14.2	The Concept of Airport Automated Border Control	184
14.3	Function of Airport Automated Border Control	185

15	Airport CCTV & RADAR Surveillance - Present & Pipeline Technologies	187
15.1	Airport CCTV Surveillance	187
15.2	Airport Surface Movement Radar.....	189
15.2.1	Airport Surface Movement Radar Technology.....	189
15.2.2	Digital Airport Surveillance Radar (DASR) Technology	193
16	Aviation Security C2/C4ISR Systems - Present & Pipeline Technologies	194
16.1	Aviation Security C2/C4ISR Market Background	194
16.2	Aviation Security C2/C4ISR Technologies.....	195
17	Aviation Security ICT & Cybersecurity - Present & Pipeline Technologies	201
17.1	Security-related Aviation ICT Market & Technology.....	201
17.2	Civil Aviation Related Cybersecurity	204
17.2.1	Cyber Terror & Crime	204
17.2.2	Denial of Aviation Service.....	205
17.2.3	Deliberate Manipulation of Aviation Sector Information	205
17.2.4	Detection of Unauthorized Aviation Cyber Activity	205
17.2.5	Key Cyber Security Vendors	207
18	Airport Perimeter Fencing - Present & Pipeline Technologies.....	208
18.1	Airport Perimeter Security Market Background.....	208
18.1.1	Airport Perimeter Security Technology Background	211
18.1.2	Airport Perimeter Security Challenges.....	212
18.1.3	Airport Perimeter Security: Risk Management.....	214
18.2	Perimeter Security Technologies	221
18.2.1	Intrusion Detection Sensors	221
18.2.2	Multi-layered Airport Perimeter Security	223
18.2.3	Multi-Sensor Airport Perimeter Security Fusion.....	223
18.2.4	Airport Perimeter: CCTV Surveillance	224
18.2.5	Automatic Perimeter: Intrusion Assessment.....	225
18.2.6	Airport Perimeter Security: Command and Control	225
18.2.7	Airport Perimeter Security: Communications.....	226
18.2.8	Airport Perimeter Security: Command and Control Systems.....	227
18.2.9	Pipeline Technologies	228
19	Workforce & Visitors ID Documents Screening - Present & Pipeline Technologies.....	229
19.1	Biometric ID Systems.....	229
19.2	Biometric ID Challenges	230
20	Airport Security-related Baggage Handling Systems (BHS) - Present & Pipeline Technologies	231
20.1	Security-related Airport Baggage Handling Systems (BHS)	231
20.2	Checked Luggage Configurations.....	232

20.2.1	High-Volume In-Line Checked Luggage BHS Systems.....	232
20.2.2	Checked Luggage Configuration 2: Medium-Volume In-Line BHS	233
20.2.3	Checked Luggage BHS Configuration – 3: Mini In-Line Checked Luggage Screening System	234
20.2.4	Checked Luggage BHS Configuration – 4: Stand-Alone EDS	236
21	Multi-modal Aviation Security Systems and Other Modalities - Present & Pipeline Technologies.....	237
21.1	Multi-Modal & Multi-Threat Screening Portals.....	237
21.1.1	Multi-modal Aviation Security Systems: Overview.....	237
21.1.2	Multi-modal Aviation Security Systems: Technology Status	238
21.1.3	Multi-modal Aviation Security: Core Technologies	238
21.1.4	Example: Detection Systems Fusion Protocol (DSFP)	239
21.1.5	Market Needs	240
21.1.6	HSRC High Throughput Multi-Threat People Screening Portal Vision	242
21.2	Qylatron Multi-Modal Multi Threat Automated Screening Checkpoint.....	245
21.2.1	Future People Screening Portals - Technology Essentials	246
21.3	Future Multi-Threat Detection Technologies	248
21.3.1	Molecularly Imprinted Polymer (MIP) Sensors	248
21.3.2	MOS-Based Electro-Chemical Sensor Networks	250
21.3.3	Future Shoe Scanners.....	250
21.3.4	Hand-held Weapons and CBRNE Detectors	250
21.3.5	Evolving Hand-held MMWave Wand – Sample.....	251
22	Counter – MANPAD Technology	252
22.1	MANPAD Threats	252
22.2	Counter – MANPAD Strategies.....	254
22.3	Counter – MANPAD Technologies.....	255
22.3.1	Flare-based Countermeasures.....	255
22.3.2	Directed Infrared Countermeasures (DIRCM) systems	256
22.4	Civilian Aviation Security Counter MANPAD RDT&E Programs	259
22.5	Market Forecast.....	260
	APPENDICES.....	262
23	Appendix A: IATA & ICAO “Checkpoint of the Future”	262
23.1	Present People Screening Checkpoint Performance	262
23.2	IATA-ICAO Checkpoint of the Future.....	263
24	Appendix B: Airport Passenger Screening Checkpoints.....	267

25	Appendix C: IATA Passenger Growth Forecast.....	272
25.1	Forecast Summary.....	272
25.2	Future Growth Trend Highlights.....	272
25.3	Analysis of the 10 Largest Air Passenger Markets.....	273
25.4	Growth by Regions	274
25.5	Domestic Air Passengers Markets Trends.....	274
25.6	Global Passenger Demand Drivers.....	275
26	Appendix D: Abbreviations.....	276
27	The Report Research Methodology	294
27.1	Report Structure.....	294
27.2	Assumptions	294
27.3	Research Methodology	295
27.4	Who Is This Report For?	296
27.5	Research Methods.....	296
27.6	Terms of Reference	297
28	Disclaimer & Copyright.....	298

List of Tables

Table 1 - People Screening Vendors and Product Lines	34
Table 2 - EDS, ETD and 2D X-ray Technologies - Pros and Cons	71
Table 3 - Pros and Cons of Multi-Modal X-ray Technology.....	87
Table 4 - Comparison of X-ray Detection Technologies.....	92
Table 5 - Backscatter People Screening AIT Portals – Advantages & Disadvantages	103
Table 6 - Backscatter Body X-ray Dose vs.other Common Radiation Exposure Sources	104
Table 7 - MMWave Reflectivity of Basic Explosives and Human Tissue.....	106
Table 8 - Examples of Object Emissivity.....	106
Table 9 - Active MMWave Screening: Advantages & Disadvantages	109
Table 10 - Whole Body Scanners: Products, Vendors and Technologies.....	117
Table 11 - Product Comparison of High-Volume EDS Machines	131
Table 12 - Trace vs. Bulk Explosives Detection Technologies.....	147
Table 13 - Trace Explosive Detection Technologies	147
Table 14 - Trace Detection – Pros and Cons.....	155
Table 15 - Hand-held Trace Explosives Detectors – IMS & GC/IMS Price & Performance Comparison	156
Table 16 - TSA Approved Tabletop ETD Systems Performance: by Products.....	156
Table 17 - Eight Desktop ETD Systems: Vendors, Products, Technology & Prices.....	157
Table 18 - Portable - Swab ETD: Vendors, Products, Technology and Prices.....	158
Table 19 - Hand-held ETD Systems: Vendors, Products, Technology and Prices.....	158
Table 20 - Trace Detection Document Scanners	158
Table 21 - Potential ETD Machines-Equipment Assumptions.....	159
Table 22 - Magnetism and Detection Capabilities.....	170
Table 23 - Conductivity and Detection Capabilities.....	170
Table 24 - 50 Metal Detection Portals: Products, Vendors, and Prices.....	173
Table 25 - Liquid Explosives Scanners – Vendors/Products/Prices.....	177
Table 26 - Shoe Scanners: Vendors, Products & Prices.....	179
Table 27 - Perimeter Security Technologies Performance, Device Cost, Installation & Aftersales Costs Comparison	220

List of Figures

Figure 1 - Government Industry Aviation Security Life Cycle	20
Figure 2 - Government – Private Sector Aviation Security Techno-Tactical Technology Assessment Process	21
Figure 3 - Aviation Security Industry - Government Relationship	22
Figure 4 - A New Product Technology Assessment Process	28
Figure 5 - Scheme of Multi-Level Protection of a Civil Airport against Acts of Unlawful Interference	33
Figure 6 - Major Explosives Detection Technologies: Bulk vs. Trace.....	68
Figure 7 - X-ray Conveyor-Based Screening Systems – Principles of Operation	70
Figure 8 - Conventional X-ray	73
Figure 9 - Dual Energy X-ray	75
Figure 10 - Screened Cabin Bag Dual Energy X-ray Image	76
Figure 11 - Material Differentiation by Dual Energy X-ray	77
Figure 12 - Dual Energy Z Map.....	77
Figure 13 - Variable View X-ray System	78
Figure 14 - Multi-View Dual Energy Baggage X-ray Screening	79
Figure 15 - Convectional 2D Image (Left) vs. Quasi 3D Image (Right)	79
Figure 16 - A Dual View Advanced Technology X-ray System	81
Figure 17 - Backscatter X-ray Technology.....	82
Figure 18 - Coherent X-ray Technology	83
Figure 19 - Cast and Artificial Limbs Screening System	85
Figure 20 - A Prosthetic Limbs Backscatter Image Showing a Gun Hidden Underneath a Cast.....	86
Figure 21 - Fused Dual-Modality Explosives & Nuclear Screening System	87
Figure 22 - 3D Stereoscopic X-ray Camera and Images	89
Figure 23 - 3D Stereoscopic Baggage X-ray Luggage Inspection Scheme	90
Figure 24 - Global Air Cargo Size [Million Tons]: 2001-2020	93
Figure 25 - Air Cargo Supply Chain	96
Figure 26 - Canadian Air-Cargo Security Screening Process	97
Figure 27 - Flow of Cargo from Shipper to Air Carrier.....	98
Figure 28 - Global Freight Traffic Forecast until 2029.....	99
Figure 29 - Air-Cargo Container X-ray Screening System	99
Figure 30 - Advanced Imaging Technology Passenger Screening Process	100
Figure 31 - People Backscatter Imaging Technology.....	101
Figure 32 - Dose Comparison: Environmental Radiation vs. Backscatter Scan	103
Figure 33 - Spectrum of MMWave Technologies	105
Figure 34 - Active MM-Wave Imaging Technology – Block Diagram	107
Figure 35 - MM-Wave AIT Principal of Operation	108
Figure 36 - A Passive MMWave Whole-Body Scanner Layout	110
Figure 37 - Passive MMWave Scanner: Typical Threat Images	111

Figure 38 - Electromagnetic Spectrum of the THz-Region.....	112
Figure 39 - Whole-Object EDS Scheme	120
Figure 40 - Tomographic EDS Principle of Operation	121
Figure 41 - EDS Throughput [BPH] vs. System Price [\$K].....	123
Figure 42 - Checked Baggage Inspection System & Three Levels of Screening.....	125
Figure 43 - 100% Tomographic EDS & ETD Screening Flow Scheme	126
Figure 44 - “Fractional Tomographic EDS & ETS” Screening Flow Scheme	127
Figure 45 - 100% Multi-Level (EDS, X-ray & Coherent X-ray Scatter) Screening	128
Figure 46 - Aviation Security: “100% EDS” Screening Flow Scheme	130
Figure 47 - Conventional Rotary Gantry EDS	134
Figure 48 - Stationary Gantry EDS	134
Figure 49 - The RTT Prototype X-ray Source	134
Figure 50 - The RTT EDS Prototype.....	134
Figure 51 - MagViz Images.....	136
Figure 52 - ULF-MRI RDT&E Program Timeline.....	137
Figure 53 - 3D Stereoscopic X-ray Camera and Images	139
Figure 54 - 3D Stereoscopic X-ray Luggage Inspection Scheme	139
Figure 55 - Explosive Materials Classification.....	142
Figure 56 - The Most Commonly Used Explosives Classification	143
Figure 57 - Trace Detection General Principle of Operation	144
Figure 58 - Tabletop ETD: Operational Workflow	145
Figure 59 - Explosives Trace Detection Technologies	146
Figure 60 - Ion Mobility Spectroscopy (IMS)	148
Figure 61 - Electron Capture Detectors (ECD)	150
Figure 62 - Surface Acoustic Wave (SAW) Detectors.....	151
Figure 63 - Explosives Trace Detection Configuration: Hand-held ETD, Tabletop ETD, & Boarding Card Screening ETD	152
Figure 64 - The Airborne Concentration of Various Explosives	152
Figure 65 - Typical Sensitivity of Various Explosive Trace Detection Technologies	153
Figure 66 - Tabletop ETD Devices.....	154
Figure 67 - SNL - ETD MicroChemLab on a Chip.....	163
Figure 68 - Components of SNL MicroHound Trace Explosives Detection System.....	163
Figure 69 - Ames “Conductive CNT Explosives Detector”	164
Figure 70 - Hand-held Weapon Detector – Proper Scanning Path	167
Figure 71 - Walk-through Metal-Detection Portals Technologies.....	171
Figure 72 - The EU Airport Automated Border Control Concept	183
Figure 73 - Automated Border Control Process	186
Figure 74 - Face Recognition Based Automated Border Control	186
Figure 75 - Airport Surface Movement Radar	191
Figure 76 - Airport Surface Movement Radar Imaging Field	192

Figure 77 - An Airport Security Command, Control & Communication Meta-System.....	198
Figure 78 - Airport Perimeter Security C2/C4ISR System Topology	199
Figure 79 - Airport Security C2/C4ISR System Block diagram	200
Figure 80 - Airport Emergency Communication: Technologies	201
Figure 81 - Airport Security Communication: Obstacles to Interoperability	203
Figure 82 - The European “Computer Emergency Response Teams & Command Centre” (CERTs .CERT/CCs).....	206
Figure 83 - Airport Perimeter Security Systems	208
Figure 84 - Airport Perimeter, Security Layers	209
Figure 85 - Dumb Perimeter Barriers	210
Figure 86 - Airport Perimeter	211
Figure 87 - Airport Perimeter Security Infrastructure.....	213
Figure 88 - Intersection of Risk Assessment.....	217
Figure 89 - Checked Luggage ETD, EDS & X-ray Screening Configuration - 1.....	232
Figure 90 - Checked Luggage ETD, EDS & X-ray Screening Configuration – 2.....	234
Figure 91 - Schematic Visualization of a Mini in-Line System.....	234
Figure 92 - Checked Luggage ETD, EDS & X-ray Screening Configuration 3 - Mini In-Line System with Light Integration	235
Figure 93 - Checked Luggage ETD, EDS & X-ray Screening Configuration 4 - Stand-Alone EDS	236
Figure 94 - Artist View of a Checkpoint of the Future.....	239
Figure 95 - Future Screening Checkpoint (HSRC 2002 Forecast)	243
Figure 96 - Future Multi-Threat People Screening Checkpoint - (HSRC 2002 Concept)	243
Figure 97 - Airport Pre-Screening Program Process.....	244
Figure 98 - Airport CBP Pre-Screening Systems and Data Flow	245
Figure 99 - Qylatron Multi-Modal Multi Threat Passenger Screening Portal	246
Figure 100 - Fused Technologies - Concealed Weapons Detection	248
Figure 101 - Molecular Imprinting Technique.....	249
Figure 102 - Map of MANPADS Attacks on Civil Aircraft – 1975-2012	252
Figure 103 - An IR MANPAD View of a Civilian Aircraft.....	253
Figure 104 - Overview of MANPADS	253
Figure 105 - Flare-based MANPAD Countermeasures.....	256
Figure 106 - DIRCAM CONOPS	257
Figure 107 - The “Skyshield” Counter MANPADS	258
Figure 108 - BAE Systems and Northrop Grumman Counter MANPAD Systems.....	259
Figure 109 - Average X-ray Screening Rate [Passengers per Hour] by Region.	262
Figure 110 - The IATA “Checkpoint of the Future” Lanes	264
Figure 111 - IATA “Checkpoint of the Future” Concept.....	264
Figure 112 - Single Queue Serving Multiple People Screening Checkpoints....	269

Figure 113 - A Single Queue Serving Multiple Screening Positions.....269

Figure 114 - Two Single Lanes Serving Multiple Screening Positions270

Figure 115 - Separated Lines in Single Queue Serving Multiple Screening
Positions270

Figure 116 - Checkpoint Staff Allocation.....271