

CYBER SECURITY IN AVIATION

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Director. Head of Aviation Cyber Security Services

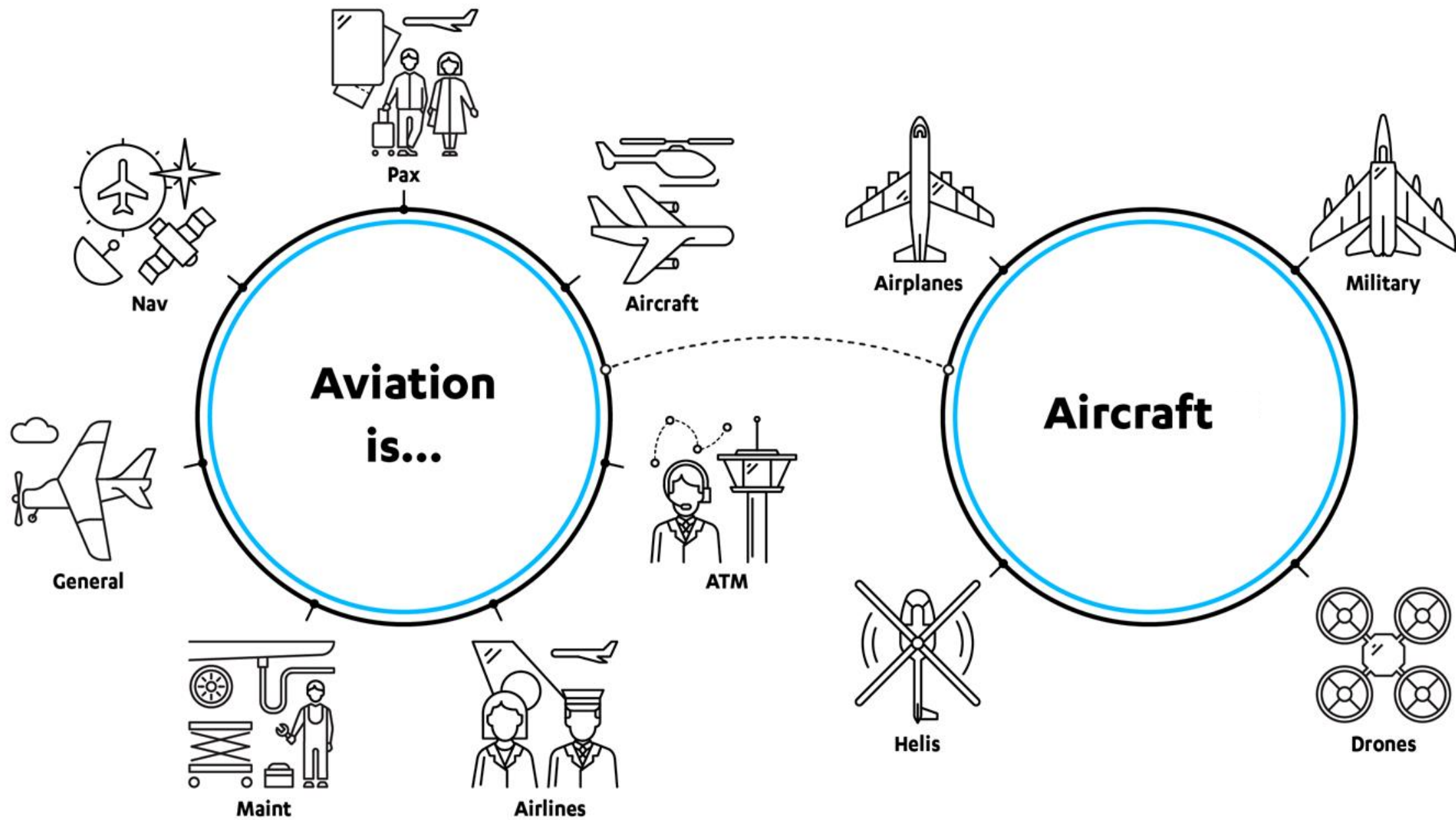


TIME





CONFIDENTIALITY



CASE STUDIES

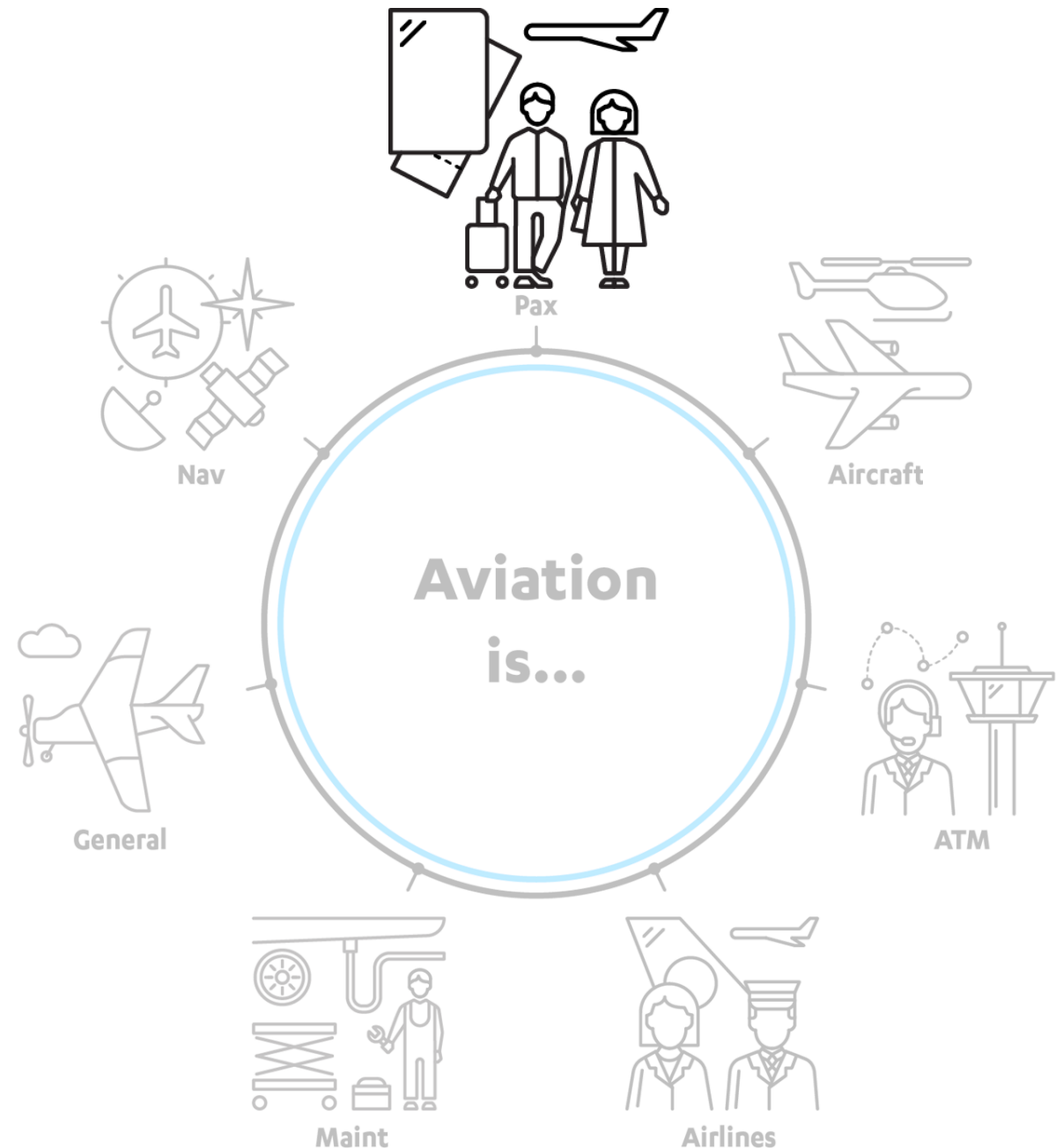


SECURITY SCANNERS

“Improve baggage screening operator effectiveness with managed training technology”

- Threat Image Projection
- Airport scanners
 - Online exposure
 - Airport Network
 - Shodan search engine
 - Insecure software
 - Remote compromise

CHAOS





Explore Tag: webcam

Browse saved searches with the tag: webcam

LIST SEARCHES BY

Popularity

Recently Added

POPULAR TAGS

webcam	141
camera	103
cam	100
scada	76
router	73
ftp	62
test	48
ip	46
server	43
http	39

237

MayGion IP cameras (admin:admin)

Web interface to MayGion IP cameras. Default user/pass is admin/admin.

webcam

2013-03-28

276

webcam no pass

webcam no pass

webcam

2014-03-30

56

Yawcam

Yawcam web cams

webcam

2014-07-09

16

Webcam

webcam

2016-08-03

3

Blue Iris Webcams

webcam

2017-09-28

TOTAL RESULTS

2,603

TOP COUNTRIES

Hong Kong	221
Brazil	221
Russian Federation	154
Taiwan	146
Spain	128

TOP SERVICES

HTTP (81)	1,262
HTTP	305
HTTP (82)	268
HTTP (83)	136
HTTP (8080)	110

TOP ORGANIZATIONS

Hong Kong Broadband Network	133
Vivo	117
HiNet	109
Netvigator	37
Free SAS	29

TOP OPERATING SYSTEMS

Linux 2.6.x	14
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RELATED TAGS:

webcam

Login

87.228.95.32
LLC Multiscan
Added on 2017-11-06 16:14:11 GMT
 Russian Federation, Mytishchi
[Details](#)

HTTP/1.1 200 OK
Server: WebServer(IPCamera_Logo)
Content-Length: 6862
Content-Type: text/html
Connection: close
Last-Modified: Sat, 27 Jul 2013 17:13:47 GMT
Cache-Control: max-age=60

Login

223.17.37.71
Hutchison Global Communications
Added on 2017-11-06 16:09:55 GMT
 Hong Kong, Central District
[Details](#)

HTTP/1.1 200 OK
Server: WebServer(IPCamera_Logo)
Content-Length: 7194
Content-Type: text/html
Connection: close
Last-Modified: Wed, 22 Aug 2012 23:03:08 GMT
Cache-Control: max-age=60

Login

178.23.110.77
EmiTel
Added on 2017-11-06 16:08:54 GMT
 Poland
[Details](#)

HTTP/1.1 200 OK
Server: WebServer(IPCamera_Logo)
Content-Length: 8136
Content-Type: text/html
Connection: close
Last-Modified: Thu, 01 Jan 1970 00:02:37 GMT
Cache-Control: max-age=60

Login

177.98.230.172
177.98.230.dynamic.adsl.gvt.net.br
Vivo
Added on 2017-11-06 16:07:11 GMT
[Details](#)

HTTP/1.1 200 OK
Server: WebServer(IPCamera_Logo)
Content-Length: 8225
Content-Type: text/html
Connection: close
Last-Modified: Thu, 01 Jan 1970 00:02:37 GMT
Cache-Control: max-age=60



TOTAL RESULTS

2,603

TOP COUNTRIES

Hong Kong

Brazil

Russian Federation

Taiwan

Spain

TOP SERVICES

HTTP (81)

HTTP

HTTP (82)

HTTP (83)

HTTP (8080)

TOP ORGANIZATIONS

Hong Kong Broadband Network

Vivo

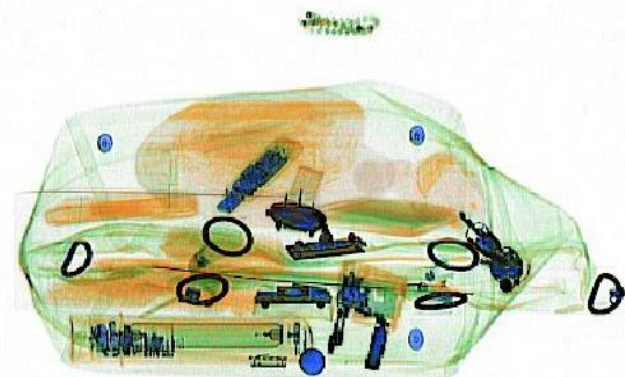
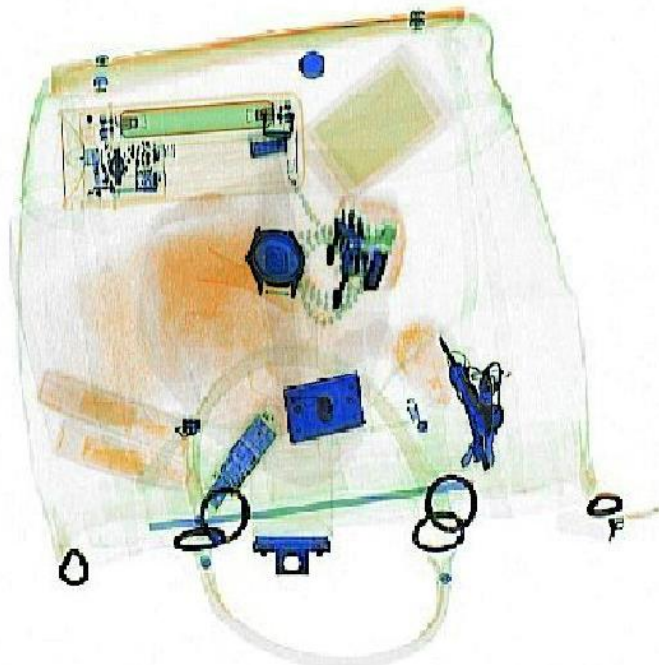
HiNet

Netvigator

Free SAS

TOP OPERATING SYSTEMS

Linux 2.6.x

Elapsed session time 00:03:02
Rapiscan Dual View / Airport CBSElapsed bag time 00:10
Completed 4 bags out of 10

Active

Active



Back to original

14

Login

177.98.230.172

177.98.230.dynamic.adsl.gvt.net.br

Vivo

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Server: WebServer(IPCamera_Logo)



SERVICE2 Scan Mode

You have not correctly identified a fictional GUN threat.
Press STOP button to remove the fictional threat.
However, check the bag to ensure no real threats are present.
Press the FORWARD button to continue screening.

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Taiwan

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TOP SERVICES

HTTP (81)

HTTP

HTTP (82)

HTTP (83)

HTTP (8080)

TOP ORGANIZATIONS

Hong Kong Broadband Network

Vivo

HiNet

Netvigator

Free SAS

TOP OPERATING SYSTEMS

Linux 2.6.x

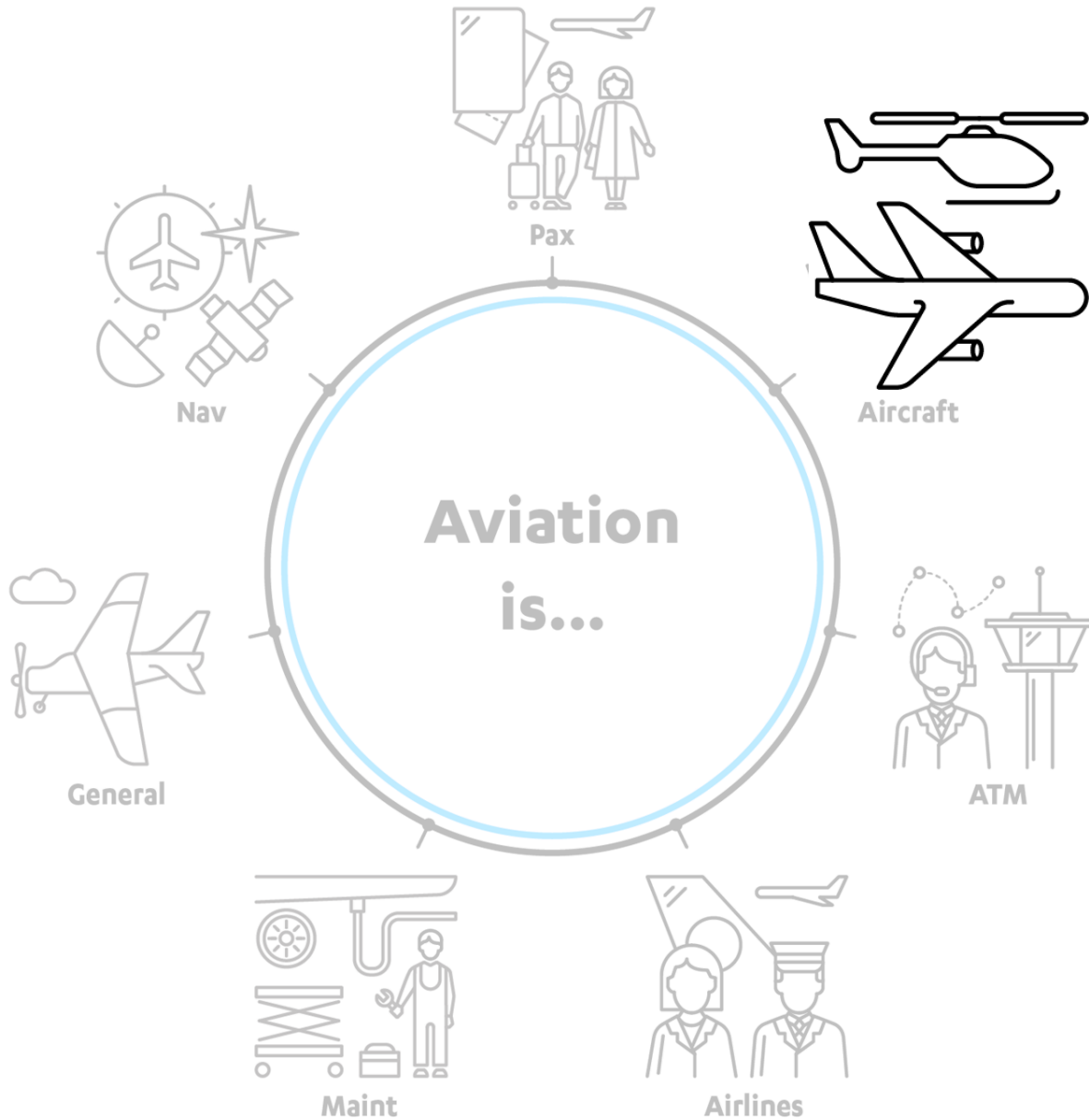
08/12/15
Bag count: 13114:35:37
1x ZoomID: SERVICE2
NORMAL

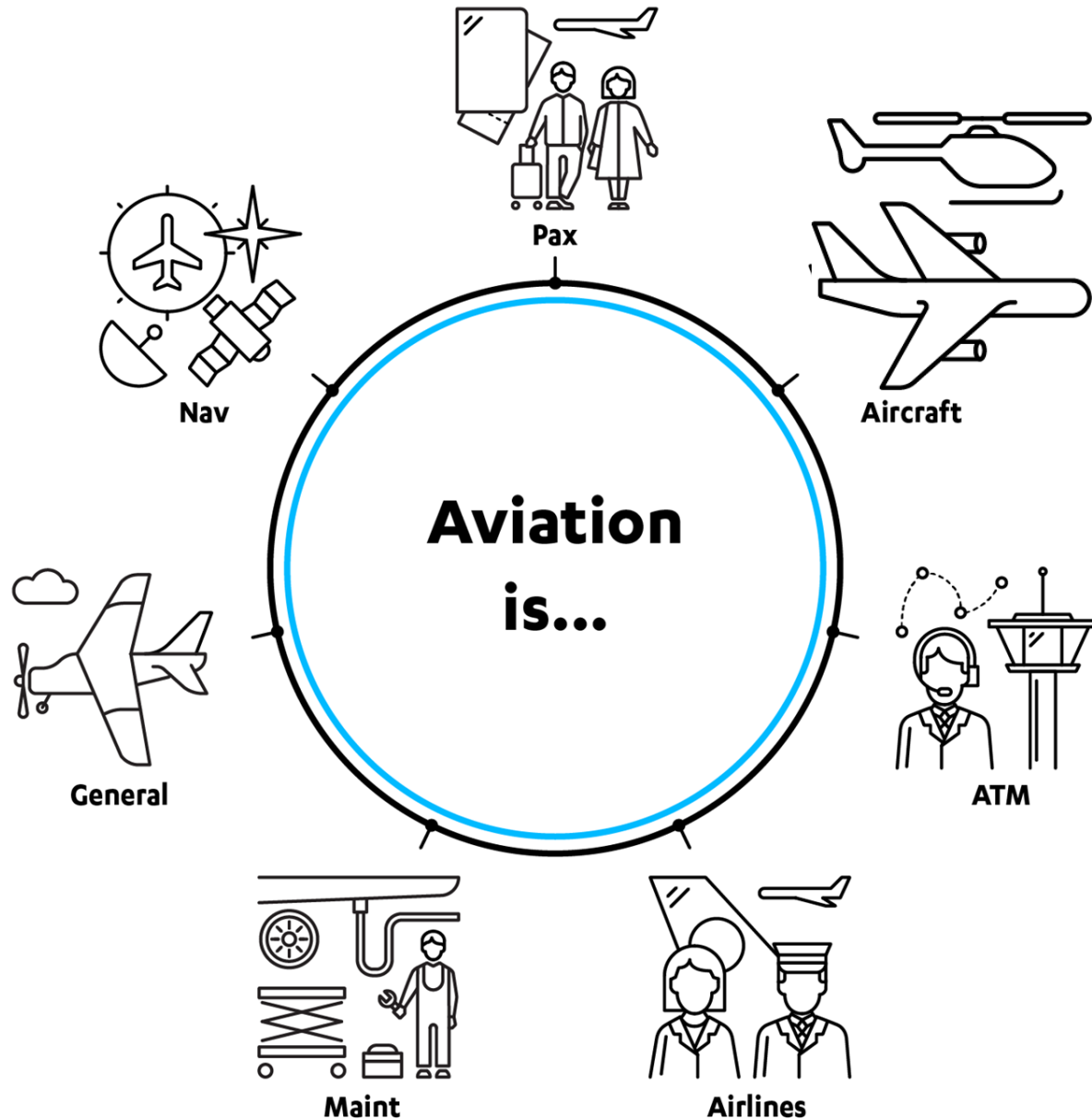
177.98.230.dynamic.adsl.gvt.net.br

Vivo

Server: WebServer(IPCamera_Logo)

AIRCRAFT

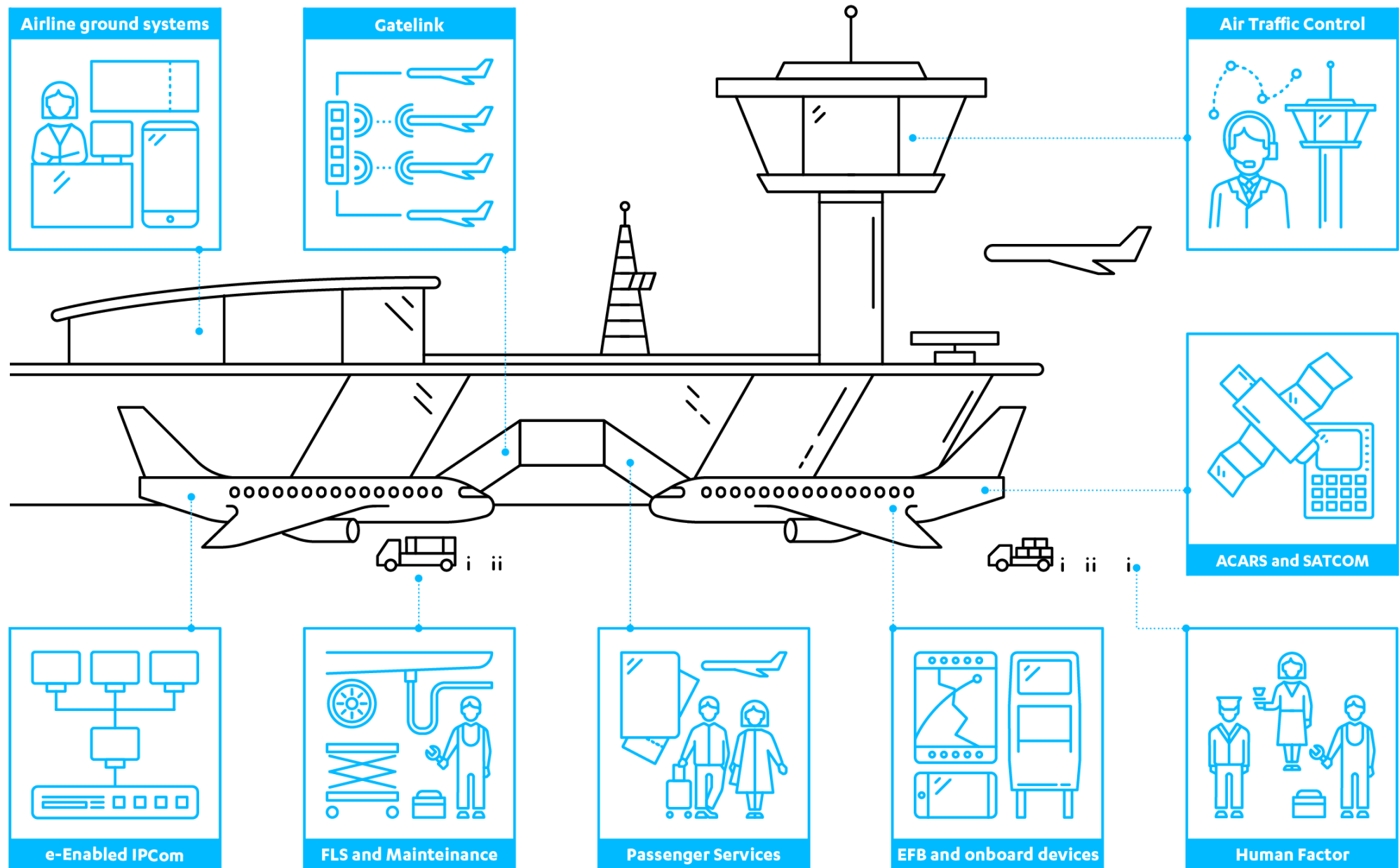


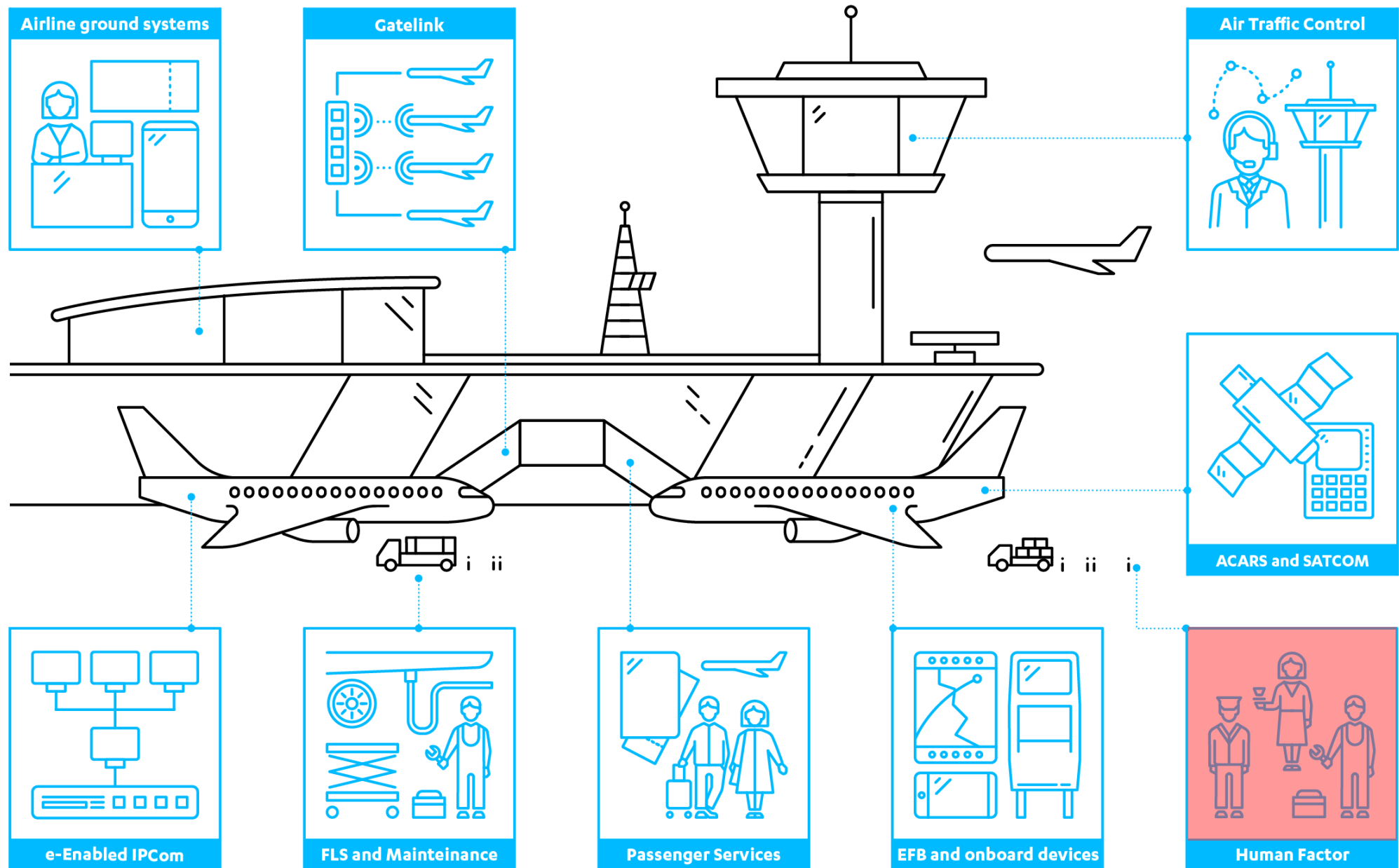


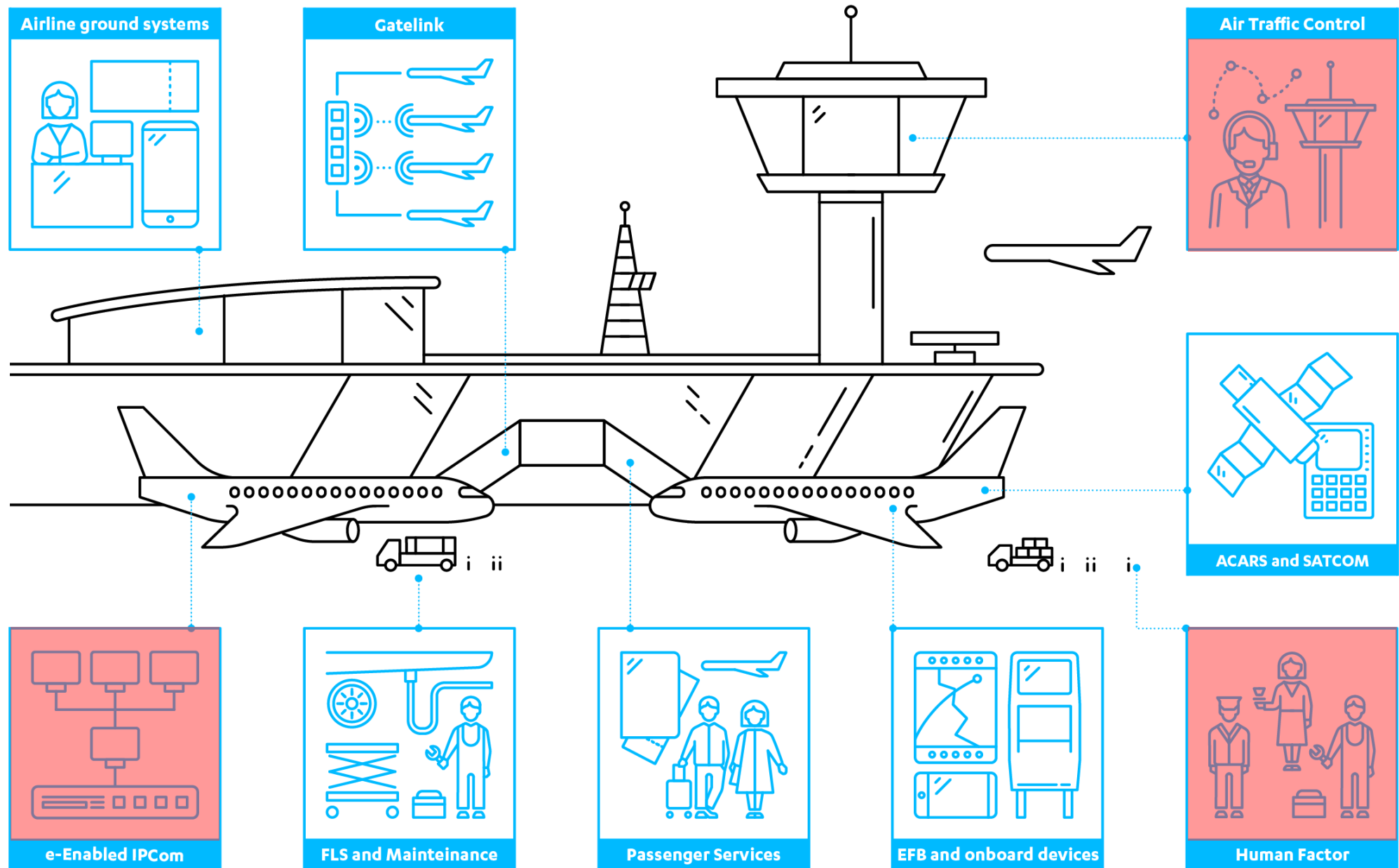
AIRCRAFT

“Everyday less an isolated system”

- Chain of trust
- Weakest link
- Distributed responsibility
- Aviation is already part of Internet







THANK YOU!

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