

SECRETARIA DE ESTADO DE SEGURIDAD

SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COMUNICACIONES PARA LA SEGURIDAD

PNR, API AND BIOMETRICS AT THE BORDER



World Border Security Congress Casablanca 2018

Mr. JUAN JESUS RODRIGUEZ OLMOS

DEPUTY DIRECTORATE GENERAL OF COMMUNICATIONS AND INFORMATION SYSTEMS FOR SECURITY

SPANISH MINISTRY OF INTERIOR











- INTRODUCTION TO DEPUTY DIRECTORATE GENERAL OF COMMUNICATIONS AND INFORMATION SYSTEMS FOR SECURITY (SGSICS)
- API
- PNR
- Use of Biometrics in the Spanish Smart Borders

SECRETARIA DE E

*



INTRODUCTION TO SGSICS



CENTRO TECNOLÓGICO DE SEGURIDAD (CETSE) El Pardo - Madrid

3

MERIDIANA DE P





INTRODUCTION TO SGSICS

DEPUTY DIRECTORATE GENERAL OF COMMUNICATIONS AND INFORMATION SYSTEMS FOR SECURITY



MISSION



Procurement of Communication and Information Systems for the Spanish Security Forces.

The primary objective of these Systems is to enable the Spanish Security Corps to exercise its role in safeguarding the rights, freedoms and security of citizens more efficiently and effectively.



- Emergency Communication Systems
- Schengen and Smart Borders
- 🛃 Security Databases and Data Exchange
- Lawful Interception and Data Retention
- Operation Coordination Systems
- 😼 Other Projects



SECURITY PROJECT EXAMPLES



SGSICS PROJECT PORTFOLIO

State Emergency Digital Radiocommunications System

LAWFUL INTERCEPTION AND DATA RETENTION SYSTEM

DNA PROFILES DATABASE

AUTOMATIC FINGERPRINT IDENTIFICATION SYSTEM

CRITICAL INFRASTRUCTURES INFORMATION SYSTEM

COUNTER-TERRORISM COORDINATION SYSTEM

5

SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COMUNICACIÓNES HARA LA SEGUIDAD

GOBIERINO DE ESPAÑÍA

HINISTERIO



SECURITY PROJECT EXAMPLES



SGSICS PROJECT PORTFOLIO

Part -



SIS-II: SCHENGEN INFORMATION SYSTEM

PASSENGER NAME RECORD (PNR)



SMARTER BORDERS PROJECT



ADVANCED PASSENGER INFORMATION SYSTEM (API)

SPERMAC

SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COPUNICACIÓNES MARA LA SEGURIDAD

HINISTERIO DEL INTERIOR

6





LEGISLATION

- L.O. 4/2000 (Aliens law), about rights and freedoms of foreigners in Spain and their social integration.
 Art. 66.1 (Carriers obligation)
 Art. 55.1 c) Fine from 10.001 to 100.000 euros
- Council Directive 2004/82/EC of April 29 2004 on the obligation of carriers to communicate passenger data.
- Decision of The Undersecretary Office issued on February 14th, 2007 which sets down the routes on which carriers must comply with these regulations.



COMERINO

HINISTERIO DEL INTERIOR

8

SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COMUNICACIÓNES HARA LA SEGUIDAD



LEGISLATION

- <u>Directive</u> Only for air carriers /EU
- National legislation All type of carriers/Schengen

WHEN DO COMPANIES SEND THE INFORMATION

 Once boarding is closed and before departure

WHICH ROUTES DO THEY TRANSMIT

> All routes coming from outside the Schengen Area



COMERINO

HINISTERIO

SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COMUNICACIÓNES HARA LA SEGUIDAD



REQUESTED DATA

- The number and type of travel document used
- Nationality
- Full Name
- Birth date
- The border crossing point into Spanish territory
- The transport code
- The time of departure and arrival
- The total number of passengers carried
- The initial point of boarding



COMENNO DE ESPANA

HINISTERIO

SUBDIRECCIÓN GENERA DE SISTEMAS DE INFORMACIÓN





TECHNICAL SOLUTION – DATA FORMATS

The system accepts xml files or text files with un-edifact files. The extension for xml files shall be "xml" and the extension for un-edifact files shall be "txt".



https://portal.ses.mir.es/APIS/es/content/documentos/Ficheros-ejemplo/Aerolineas/ WT0009TASMAD2010-11-09.txt

Hoja de cálculo de Microsoft Excel

HINISTERIO DEL INTERIOR

GOBIERNO DE ESPAÑA SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COMUNICACIONES PARA LA SEGUIRIDAD

Formato XML

https://portal.ses.mir.es/APIS/es/content/documentos/Ficheros-ejemplo/Aerolineas/ WT0009TASMAD2010-11-09.xml Hoja de cálculo de Microsoft Excel



TECHNICAL SOLUTION – METHODS OF SENDING FILES

Next five methods of sending the information to the Ministry of Interior are detailed. Each company can choose one o more methods.



SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COMUNICACIÓNES MARA LA SEGURIDAD



TECHNICAL SOLUTION – DATA FORMATS

FILE UPLOAD

This gives the chance to upload a xml or un-edifact format file of the company to the Web of the Ministry.

It is accessed by typing the url :

https://portal.ses.mir.es/APIS/listasembarque/

□ The next is needed user name and password provided by the Ministry in order to enter the Web.



14

SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COPUNICACIÓNES INRA LA SEGUIIDAD

COMENNO DE ESPAÑA



TECHNICAL SOLUTION – DATA FORMATS WEB SERVICE

The Ministry of Interior provides the companies with a web service. The companies shall integrate this service in their system the calling to the Ministry web service in order to provide the suitable data information flight.

To use this method it is needed :

- To have a user name and a password. This user name and password shall be provided by the Ministry of Interior in order to get access in the system.
- A client program that does the communication with the web service. The Ministry provides an example program so that the company could integrate it in their service.

The web service needs:

- □ File content with the suitable information. The file can be xml or un-edifact format.
- Name of the file.
- User Name.
- Password.

SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COMUNICACIÓNES MARA LA SEGURIDAD

HINISTERIO DEL INTERIO

GOBIERNO DE ESPAÑA



TECHNICAL SOLUTION – DATA FORMATS WEB FORM

This system allows to save on-line the information needed of each flight. It is is a Web Service that can be reached throught the url:

https://portal.ses.mir.es/APIS/listasembarque/

• The next is needed user name and password provided by the Ministry in order to enter the Web.



16

SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COPIUNICACIÓNES INRA LA SEGURIDAD

COMERNIO DE ESTANA



TECHNICAL SOLUTION – DATA FORMATS

Another access way to send files is throught the SFTP secure protocol.

It is needed:

- □ Having a sftp user (this user is different to the previously described systems) asigned by the Ministry to the company.
- □ A public and prívate key from the machine where the command SFTP is going to be used must be generated using a SSH So that a trust relationship among the two machines is established and the sftp command shall be used. Once the trust relationship is established, the sftp command must be executed in the system command interpreter to the IP of the machine of the Ministry. Once the connection is done, the files are placed through the instruction put.

IWXI-XI-X	11	root	root	4096	mar	29	2012	hermes
ITWXI-XI-X	11	root	root	4096	mar	29	2012	iberia
ITWXT-XT-X	11	root	root	4096	mar	29	2012	transdat
ITWXI-XI-X	11	root	root	4096	max	29	2012	aircomp
Irwxr-xr-x	11	root	TOOL	4096	mar	29	2012	airtransport
Irwxr-xr-x	11	root	root	4096	mar	29	2012	comarit
irwxr-xr-x	11	root	root	4096	mar	29	2012	ferrimaroc
irwxr-xr-x	11	root	root	4096	mar	29	2012	fütinalt
ITWRE-RE-R	11	TOOL	root	4096	mar	29	2012	inkav
ITWNE-NE-X	11	root	root	1096	max	29	2012	utair
Irwar-ar-x	11	root	root	4096	mar	29	2012	vim-avia
ITWRE-RE-R	11	root	root	4096	mar	6	2013	sftpsci2
ITWXI-XI-X	11	root	root	4096	abr	23	2013	navarman
ITWRE-RI-K	11	root	root	4096	may	16	2013	pegaaua
ITWXI-XI-X	11	root	root	4096	jun	4	2015	navline
				_				

SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COMUNICACIÓNES MARA LA SEGURIDAD

HINISTERIO DEL INTERIOR

GOBIERNO DE ESTANIA





APIS QUERY APPLICATION

This web site the quality of the data sent can be checked so that the companies shall consult this data and take measures in order to fulfil their obligations.





UNFULLFILMENT

The screen shows the following information:

- □ Total number of files of passengers send by the carrier.
- **D** Total number of files that should have been send by the carrier to the APIS system.
- Files of the carrier that have not been send according to the data.

The results can be obtained in a pdf, Excel, rtf and cvs file.

Line Direction The second secon			APIS QUERY APPLICA	TION
	MAIN MENU NON-FULFILMENT RECEIVED FILES QUALITY OF FILES VALIDATE FILES	NON FULFILMENT AND REPORT	4-65-57	
Desce prime (41)	_	REMUT OF THE QUERY	Sil ammerica exceptions must use Thatta T (Proversited and 12.2.4.2.5.7.8.2.8.000)	
	_	2010-02/01 (1988-87847) 2010-04/0-1 1010-04/0-27 2010-04/0-10 2010-04/0-10 2010-04/01 2010-04/01	444444, 2423 24144454 111500.6 24144454 111500.6 241445454 111500.6 241445454 111500.6 241445454 111500.6 241445454 111500.6 241445454 111500.6 241445454 111500.6 241445454 111500.6 241455454 111500.6	PUERA TREMPO PUERA TREMPO CON ERRORE I FUERA TREMPO PUERA TREMPO PUERA TREMPO
		0	upchanes de experiados 🖉 COV (🕱 Cocaes) 🗐 POV (🔂 e	ane -

SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COPIUNICACIÓNES INRA LA SEGURIDAD

DE ESPANA



RECEIVED

Allow carriers to know how many files have been sent to the APIS system and to know the invalid files and the errors.

BOMMAN COMMAND

	NON-FULFILMENT RECEIVED FILES QUALITY OF FILES VALIDATE FILES	APIS REPORT	of RECEIVED FILES Inter Over D Find Over D Companies	na. 47 as. 10 (5) 47 (5)		
	APIS QUERY APPLICATION	N Manana Sumstants Langard	- WEET RES	Helber 2014-01 Freet	one 1010-07-07 mentatio	×.43
NAMONE (214-01-0) Find Deter (214-01-0)				54 meneritie ervoritales med (Preservicente) 123454/05	ando 1 Kanta 6 Iguando Olincoj	
anat 2%	11-15 Faurtum 25-6-81-87		1914-47-400 2016-47-400 2016-47-405 2016-47-455 2016-47-455 2016-47-455		Table 12-18 Table 12-28 Table 22-28 Table 22-28 Table 22-28 Table 22-28	04 04 05 04 04
WL07LFI	Continue		2016 AT 45C #1647.45 #816.07.00	80.0	CORTS 20:30	OK OK
Providelation	(1234347.1) (Signame Citra)					
1944/17492-1946, 1949 - 1942, 2046, 1949 - 47-462, 2046,	00.0173040.04.07 00.0173040.04.07 00.0732444.09.07 00.073244.09.07 00.073244.09.07 00.073244.09.07 00.073245.09.07 00.073245.09.07 00.073245.09.07	41 41 41 41 41 41 41 41	lf you	u want to see the the name o	errors, just of the file	lick on:
	Image: Section of the section of th					

SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COPIUNICACIÓNES INRA LA SEGURIDAD



QUALITY

This screen offers information about the quality of the received files. This screen allows to carriers to know the most common errors in order to improve the quality of the data to be send. The information is grouped by routes with the possibility of deploy each of them.

MATH MENS	OUNTRY	E DECEMED ARE	FRRARE						
NON-FULFILMENT			(and the second			1.27			
RECEIVED FILES			Initial Date:	2016-07-05		100			
QUALITY OF FILES			Companies	2016-07-07	_	125	5	•	
VALIDATE FILES				Arrant	-				
	RESULT OF	THE QUERY		di ster	antes anos	advates analyzede 1 houts 10			
				Primer	o/Anterior)	1.2.3.4.5.6 7/Sigulerte Útimol			
	PLICEN	PLICHT	DATE .	DUPLICATED ERROR	ANNE .	NUMBER OF PASSENGERS	LIRROR	DOCUMENT -	PASSENDERS
	CON	LEA	16%	8%	16%	0%	0%	8%	1
	SXF	LES	16%	0%	16%	0%	0%	0%	
	MUC	ALC	50%	0.54	0%	0%	0%	0%	
	GOT	KOP	16%	- 2%	0%	0%	0%	2%	
	MAN	-80E	116	0%	0%	0%	0%	0%	13
	MOL	ALC	20%	2%	0%	0%	0%	8%	
	MOL HEL	ALC	20%	2% 0%	0% 0%	0% 0%	0% 0%	8% 8%	
	MOL HEL OSL	ALC AGE AGE	20% 20% 30%	25 05 25	0% 0%	0% 0% 0%	8% 8% 8%	8% 8% 8%	1
	MOL HEL OSL EDI	ALC AGE AGE IES	20% 20% 30% 1%	25 25 25 25	0% 0% 0%	0% 0% 0%	55 55 55	15 15 15	11 12 17

SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COPIUNICACIÓNES INRA LA SEGURIDAD

HINISTERIO DEL INTERIOR

COMERSION DE ESTAVIA



COMERANO DE ESPANA

SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COMUNICACIÓNES PARA LA SEGURIDAD

VALIDATE FILES

This screen has been developed for carriers to validate the file before sending it to the APIS System.

- □ Select the type of file to be validated xml, un-edifact etc
- □ Select the file to be validated in the local system of the transportation company.
- Once it is validated the errors are shown in a table.
- □ The screenshots of the screens that can be seen using this functionality are shown below.

MATH MENU	VALIDATE FILE	
NON-FULFILMENT RECEIVED FILES QUALITY OF FILES VALIDATE FILES	THE OFFICE TO REVALIDATED	
	Seleccionar archivo No se eligió archivo	





TECHNICAL SOLUTION – SYSTEM'S ARCHITECTURE



25

COBERNAD DELENTERION

SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COPUNICACIÓNES MARA LA SEGURIDAD











GENERAL STATISTICS

		STATISTIC	S 2013-2018	
		Nº de actuaciones policiales	Nº de pasajeros tratados	Nº Total Posibles Positivos
	2018	7.860	46.897.994	352.905
	2017	7.576	38.212.578	253.972
	2016	6.501	37.362.820	165.557
~	2015	5.733	30.866.922	108.121
	2014	3.990	24.985.554	796.20
	2013	3.370	21.682.808	96.850

SYSTEM IMPROVED

MORE EFFECTIVENESS

SOBRANCE SCREWNIC

SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COPUNICACIÓNES MARA LA SEGURIDAD



IIR BENEFITS

Improvements of identity identification

- □ Reduction of reading errors
- Reduce the number of possible hits, increasing the real hit rate
- Increased reliability
- Intelligent search
- Arquitectural changes



COBIERNO DE ESPANA HINISTERIO DEL INTERIOR SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COPUNICACIÓNES INRA LA SEGUIIDAD





Marine .	-		Contra des															-
						Terrer) Documenting											
Cite.	W'Trans	Children	n Dertre	Pecha 0	liger Facto	Desert I Though	Bunders	Apathica	Nacionalid.	phat.	Plac.	Fecha Not.	Seat	Tipe	Store	- 14		ALC.
164	RORDER	EIFU	E Las Patrias	1010000	12030 0	908201H 13.41	1045071027	565411475	Spee		224727038	0.020618	м	MAX.	87.96		1	×
64	1294500	61FU	E Lai Politan	62162201	120.95 H	9902215 13:49	462147338	1014212426	2per		(541541)47	10/02/1008	. 10	inter-	100.5	<	1	×
14	\$2587575	\$iru	E Lus Patrias	801900H	122.58	1002010-0140	1946373907	385431475	Spani		2247571798	10/12/10/14	м	240	87%			×
ria.	spielet	83FM	E. Las Parsos	8248000	12838 1	1042014 13-40	86214/358	1014112-08	Spee.		2941047347	10/02/1008	м	PAL.	100.5		1. 3	×
54	106810	ESPU	E. Las Patrias	6218285	120.96 1	1060216-02-40	104/311021	0040475	Spen		1547574790	11/2101	Ŵ.	PAX	01%		1	×
tjal.	12689508	einu.	E Las Palmas	8019001	12830 1	NORCOLA TANK	860147338	1011212428	lipati -		2941841347	107031988	м	PAX.	100 %		e 7	×
64	8248988	8971	E Las Falmas	82-88281	12020 1	10002016-02-40	3145371907	000411475	dane.		INTERNE	19121978	. 8	944	87.%		1	×
114	sparson	EIFU	E Las Patrias	10/19/01/	126.91	1002016-13-40	803147388	101012425	52481		2941347347	1012100	4	(PAU)	102.5	1.1	ê (7	×
tzγ	6421	1904	Barratolia (E Prat De Listorgat)	29/06/201	10.40	interest of all	4107023777	2108341000	Under Kingdom		1017771-108	10/06/1077		PAX	16.74		1	×
15	278	1.54	Allowed a (Allowed at	80/87/39H	147.29 9	0000016 19-40	+00+012791	TABRIDAT	United Kingdom		odemin	1140211076	.88	PAX.	81%		1	×
n ta	a de Par	alieros	Tratation															
n ta	ant Paper ande Pas	rent Infratar Injeroa	l Tratados															2
n ta	an in Paper Ann in An Ann in Pan Mare	ren1 Infrestar Injeron	l Trataclos					~										2
n te	den 8 n die Pas Wee	tent Infractar Injeroa	Tratados	_		Perspect	y Questioneter	0	2									2
a ta a ta	den Brann der Part West	tart Ishecar Isjeros	Tratados	factus Organ	Factus Dassess. 19	Personal Placeto	y Documentos Mildere	Author		neld.	ba.	N° Doc. Far	The Name	Seas	Tpe	Som	Can.	12
a ta	a di Papa de la di Pas Nos	najeros organ anj	Tratacion Genton Benetine Di Fai Di Labenjat	Factua Organi Subrigata (718	Fecha Desen. / f	Personal PErsonal M 171 AACOPTO	y Documentos Laberey Jacob	Apathics	Linker States	nutid. of Aeronic		#*000. Fair 200	Dia Nac. Electrola	Sean	Tipe	Scam 101 %	Def.	
a ta inte	n ti Papa dagi di Papa di Pas Nos	tart lahocar lajeros an, an, an,	Destern Received II for Dr. Lakespol Received II for Dr. Lakespol	Fecta Organ Sector 13 Sector 13	Techi Desmi (1 endroses a scienzes a	Personal PCIacida S 271 ABCORTO 1 25) Deceloration Million ADF	Assistant	tana Uniter Datas Uniter Datas	nyild. d Joners d Joners		14° 000, Fast 200 140	na Nac. 54(3014	Seat U +	Tipe Pilo Pilo	Scam 100 % 100 %	Cafe H H	The second secon
e ta inte	n ti Papa dan () A da Pas Non N Tana	tert aljeros an, an, an,	Tratados Dertes Recebergi Per De Labergei Recebergi Per De Labergei Recebergi Per De Labergei	Factor Organ Sectores 17.55 Sectores 17.35 Belliotette 17.35	Fecha Dasen, 1 etatoare la etatoare la etatoare la	Personal PEscala S 27 ABCORTO 28 29) Decelorities Unders	Assistant	totel Uniter Dates Uniter Dates United Dates Spark	malid. of America of America		11° Dios. Paul 200 140 200	Dia Nac. Dia 2004 Gartinoi Dia 2009	See U F	Tipe Pilo Pilo Pilo Pilo	5000 100 % 100 %	Cafe. H H H	T AXXXX
a ta	n ti Papa dan i da a da Pan Wen	organ anjeros anj, anj, anj, anj, anj, anj, anj,	Disting Distin	Fecta Organ Sectores in 18 Georges in 18 Beinges 1135 Beinges 1135	Freche Datem, () OURCORE D SURCES S SURCES S SURCES S	Personal Placale & AdColfigi 121	r Decementer unders ADF	Author	Bases Under States Space Under Space	natid. d Joners d Joners		W Doc. Fee 200 160 200 200 200 200 200 200	na Nac. Gr2004 Gr2004 Gr2004 Gr2004	Sense 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tipe PAS PAS CRV	Scare 100 % 100 % 100 % 100 %	206. 21 21 21 21 21 21 21 21 21 21 21 21 21 2	I X X X X
	n de Pas a de Pas Nos	07947 aljeros 471, 471, 471, 471, 471, 471, 471, 471,	Destina Destina Received Part Dr. (Jacopil) Received Part Dr. (Jacopil)	Fector Organ Sectors 17:35 Operations 17:35 Operations 17:35 Operations 17:35 Operations 17:35	Fredrik Datema († 1906-1916) Ba Storr Carles Ba Storr Carles Ba Storr Carles Ba Storr Carles Ba Storr Carles Ba	Places Accords 21 Accords 23 C	r Coustentes addre	Apathias	Seen Londer Unive Linder Unive Linder Unive Span Linder Tapas Linder Tapas	natio d'Anners d'Anners d'Anners		9° 000. Fait 200 140 201 201 201 201	na Nac 19/2004 (ar100) 19/2000 (11/1047 11/1000)	Seat 10 17 17 10	780 PMA PMA PMA CRWY PMA	500 % 100 % 100 % 100 %	246. 년 년 년 년 년 王	T AXXXXXX
a ta inte	n de Pase Rea de Pas Nos	05999 45 45 45 45 45 45 45 45 45 45 45 45 45	Destern Tratacion Destern Terreteat (Frief De Labergel Terreteat (Frief De Labergel Terreteat (Frief De Labergel Terreteat (Frief De Labergel Macadanica)	Fecta Organ Decrops in 15 Occups 17.35 Occups 17.35 Occup	Fechs Desce. 19 000/02/08 8 000/02/08 9 010/02/08 9 010/02/08 9 010/02/08 9	Personal PEscala 27 ACONO 28 ACONO 29 ACONO 20 A	1 Decementes antony Apr	Apathility	Normal United States Speet United States Speet United States Speet United States Speet United States Speet S	matik at Jameres at Jameres at Jameres	1000. 100. 1000. 1	N° Doc. Fee 300 160 200 200 200 200 200 200 100	The Name De 2004 De 2004 De 2008 De 20	5000 9 9 9 9 9 9 9 9 9 9	Tipe Pill Pill Pill	Scane 100 % 100 % 100 % 100 % 100 %	206. 12 1	
	n de Pare a de Pare Nove	01941 aljeros 40, 40, 41, 41, 41, 42, 42, 43, 44, 44, 44, 44, 44, 44, 44, 44, 44	Centron Trantactions Transmission (Fried De Latenspel) Recenteral (Fried De Latenspel)	Fector Organi Sectoraria (17.55 Sectoraria (17.55 Sectoraria (17.55 Sectoraria (17.55 Sectoraria (17.55 Sectoraria (17.55 Sectoraria (17.55 Sectoraria (17.55 Sectoraria (17.55) Sectoraria (17.55) Sectora	Учета Пания. (1 400-сана ва 200-сана ва 200-сана ва 200-сана ва 200-сана ва 200-сана ва 200-сана ва 200-сана ва 200-сана ва	Presental 175-204 S 175-204 AdCORFOI 125-204) Daudrenka Aldre Aldr	Anthire	Keen Unter Tann Unter Tann Unter Tann Unter Tann Unter Tann Unter Tann Unter Tann Unter Tann Unter Tann	mathd. of America of America of America	800. 2 2 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	N° Doc. Fee 300 1444 300 300 300 300 300 300 300 300 300	na Noc. 0x100 0x100 0x1000 0x1000 0x1000	See 9 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Type PAR	State 100 % 100 % 100 % 100 % 100 % 100 %	A H A H A	The second secon
n ta	n de Pare a de Pare Nove	Organ aljeron dra dra dra dra dra dra dra useron useron useron useron	Destron Destron Destron Destron() for the (design) Destron() for the (design) Destron() for the (design) Destron() Destron() Destron() Destron() Destron()	fectos Organi paletropisa et rais destropisa et rais destropisa et rais destropisa et rais destropisa et al- destropisa et al	Fecha Dawam, I districtive pa districtive and anterceve an enterceve an enterceve an enterceve an enterceve an enterceve an	Personal 1924 270 Alcohigi 251 251 253 254 255	r Construction addre	Anther	Veren Unter Tanno Unter Tanno Unter Tanno Danna Unter Tanno Unter Tanno Unter Tanno Unter Tanno Unter Tanno	malid. d James of Jones of Jenes of Jen		97 Doc. Fee 200 200 200 200 200 200 200 200 200 2	na Nac. 5x2004 5x2004 1x1000 1x1000 1x1000 1x1000	See 0 7 0 0 7 0 0 0 0 0 0 0 0 0 0	Tape Plat Plat Plat Plat Plat Plat Plat Plat Plat	Same 100 % 100 % 100 % 100 % 100 % 100 %	14. 日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日	
at the just	n de Pase a de Pas Nor	01949 101949	Disting Destin	fectal Organ sectors	Fecto Bareno, 11 Antercons as concessos as antercons as antercons as antercons as antercons as antercons as antercons as antercons as antercons as	Personal PErsonal 20 Alcobrig 20 Control 20 Contro) Documentor Johney John	C.	berrer United Tame United Tame United Tame United Tame United Tame United Tame United Tame United Tame	mallet. d'America d'America d'America d'America d'America	Pine. 4 P 4 P 4 P 4 P 4 P 5 P 6 P 7 P 6 P 1 P 1 P 1 P	87 Doc. Far 39 140 39 100 100 100 100 100 100 100 100 100 10	na Nac. Di COLA Se 1000 Di COLA Si 1000 Si 1000 Si 1000 Si 1000 Di COLA Si 1000	See 0 7 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Tape PAR PAR	Scare 100 % 100 % 100 % 100 % 100 % 100 % 100 %		The second secon

- HT & DE OF TITLE PROPERTY OF

Verticar today

31





PROPOSAL ON THE USE OF PASSENGER NAME RECORD DATA

European Threats

- As a response to the threat posed by serious crime and terrorism, and the abolition of internal border controls under the Schengen Convention
- Measures for the collection and exchange of personal data between law enforcement and other authorities.
- the need for increased cooperation between law enforcement authorities with respect to passengers on international flights
- More systematic use of Passenger Name Record (PNR) data of such passengers for law enforcement purposes.

About PNR

- PNR data is unverified information provided by passengers, and collected by and held in the carriers' reservation and departure control systems for their own commercial purposes.
- It contains several different types of information, such as:
 - ✓ travel dates and travel itinerary
 - \checkmark ticket information
 - ✓ contact details
 - \checkmark the travel agent at which the flight was booked
 - ✓ means of payment used,
 - ✓ seat number
 - ✓ and baggage information.



EU PNR

- EU PNR Directive: to better protect European citizens against security threats, such as terrorism or serious crime.
- **Obliges air carriers to transfer the PNR data** of passengers on international flights to the Member States of arrival or departure. There the PNR data will be analyzed and used for the purpose of fighting serious crime and terrorism.
- The experience of the Member States that use PNR data, shows that PNR data are necessary to fight serious crime and terrorism.
- Create a coherent EU wide system which ensures close cooperation between law enforcement authorities within the EU. It also harmonizes the national systems

ARTIGRAMIA DIS PO



DATA TRANSFER TO STATES (PIU) PASSENGER INFORMATION UNIT

PNR data are critically important for the threat assessment that can be derived from the analysis of such data, particularly in relation to the fight against terrorism and serious crime.

Identification of potentially high-risk passengers through PNR data analysis provides States and aircraft operators with a capacity to:

- a) Improve aviation security;
- b) Enhance national and border security;
- c) Prevent and combat terrorist acts and related crimes and other serious crimes that is transnational in nature, including organized crime, and to enforce warrants and prevent flight from custody for such crimes;
- d) Protect the vital interests of passengers and the general public, including health;
- e) Improve border control processing at airports; and
- f) Facilitate and safeguard legitimate passenger traffic.

EU Directive, PNR data should be transferred to a single designated unit (Passenger Information Unit) in the relevant Member State, so as to ensure clarity and reduce costs to air carriers.





CITCO



Passenger Name Record (PNR) data accessed & "ingested"



36


AIRLINES AND THIRD-PARTY SYSTEMS ADDS COMPLEXITY



Computerized Reservation System" (CRS) or "Global Distribution System (GDS)



SECRETARIA DE P

÷





The technological modernization of border control systems is essential to improve security and safety and guarantee the free movement of people across borders.

The number of travelers at ports and airports, which continues to increase each year, demands innovative solutions that allow us to better manage the flow of travelers through regulated borders.



01 Cooperation in the fight against illegal immigration, D2 Advances in technology F made it easi

organized crime

and terrorism

Advances in technology have made it easier for people to travel around the world

03

The removal of border controls within the Schengen Zone

Taking into account:

National and international law

- Coordination between all involved parties
- The changing state of technology





PNR NATIONAL DATABASE

The development and implementation of the PNR database at the national level

PNRGOV STANDARD

To implant the standard of communication PNRGOV – Push for the exchange of information between the member states

ACCORDANCE WITH THE LAW

The manteinance of the PNR database with international traveler information in accordance with the future UE Directive and the Spanish laws

AUTHORIZED PERSONNEL ONLY

To manage and limit the access to database information to authorized personnel only

SOFTWARE APPLICATION

To develop and implement a software application capable of managing, analyzing and processing of unstructured data

INFORMATION EXPLOITATION

The exploitation of the information contained in the PNR database and others

ART INCOMES AND A

*







CET SE

PNR, API AND BIOMETRICS AT THE BORDER

HINSTERO

SECRETARIA DE SUT

MOST RELEVANT REQUIREMENTS FOR PNR IMPLEMENTATION

REAL-TIME:

In such cases PNR data are necessary for running against predetermined assessment criteria in order to identify previously 'unknown' suspects and for running against various databases of persons and objects sought.

RE-ACTIVE:

In order to allow law enforcement authorities to go back sufficiently in time, a commensurate period of retention of the data by law enforcement authorities is necessary.

PRO-ACTIVE:

In order to carry out such an analysis of relevance for the prevention, detection, investigation and prosecution of terrorist offences and serious crime, a commensurate period of retention of the data by law enforcement authorities is necessary.

÷



RELEVANT USE CASES - PASSENGER PROFILE

Description:

The use of PNR data prior to arrival allows law enforcement authorities to conduct an assessment and perform a closer screening only of those persons who are most likely, based on objective assessment criteria and previous experience, to pose a threat to security. Benefits / Example:

This facilitates the travel of all other passengers and reduces the risk of passengers being subjected to examination upon entry into the EU on the basis of unlawful criteria such as nationality or skin colour which may wrongly be associated with security risks by law enforcement authorities, including customs and border guards. MERIDIANA DE 20 TRE DESLIBIONES

HINISTERIO DEL INTERIOR



RELEVANT USE CASES - TRAVEL ROUTES

Description:

Analysis of PNR data may give indications on the most usual travel routes for trafficking people or drugs which can be made part of assessment criteria. By checking PNR data in real-time against such criteria, crimes may be prevented or detected.

Example / Benefits:

A case where PNR analysis uncovered a group of human traffickers always travelling on the same route. Using fake documents to check in for an internal flight, they would use authentic papers to simultaneously check in for another flight bound for a third country. Once in the airport lounge, they would board the internal flight.

Without PNR it would have been impossible to unravel this human trafficking network.

NET REFLACE THE PER-

HINISTERIO



RELEVANT USE CASES - AIRPORT INTELLIGENCE

Description:

The credit card information which is part of the PNR data may enable law enforcement authorities to identify and prove links between a person and a known criminal or criminal organisation.

Potential use are Large scale human and drug trafficking involving a Member State and third countries.

Example:

Cartels were importing drugs to several destinations in Europe. They were using drugs swallowers who were themselves trafficked persons. They were identified on the basis of having bought the ticket with stolen credit cards on the basis of PNR. This lead to arrests in the Member State. On this basis, an assessment criterion was created which itself led to several additional arrests in other Member States and third countries. ARTING TANKS (14 \$5) THE DESUBSCRIPT

HINISTERIO DEL INTERIOR



ACCURATELY ENRICHES PASSENGERS DATA



Information related to passenger's biographical data

Passengers Identity can be used:

• For Immigration, Customs and Security

Passenger Name Record (PNR)

Acceleration wave
 Tar Ya a low state may use (at open
 tar Ya a low state may
 tar Ya
 tar
 tar

Information about passengers and their travel plans

Terreturned in Arith

Person's travel reservation can be used:

- For customs, law enforcement, security
- To help identify contraband, smuggling, etc.
- To assist in risk
 assessment



÷

Information about Airports and related relevant events

Open data Airport information can be used:

- Airport Intelligence
- Aircraft rerouting or cancelations
- Richer Passengers
 Profiles

NUMBER OF STREET, STRE

HINISTERIO



PASSENGER NAME RECORD (PNR)

Information about a person's travel reservation.	 Data Elements (19) The PNR data for passengers are as follows: (a) PNR record locator. (b) Date of booking and ticketing (c) Planned dates of travel. (d) Names and surnames. 							
It can be useful:	e) Address and contact details (telephone number, e-mail address).) All payment details, including billing address. a) Complete itinerary of the trip							
 For customs, law enforcement, security 	 h) Information on frequent travelers. (i) Travel agency or tour operator. j) Passenger flight status: confirmations, check-in, no-show or last minute passengers without reservation. k) Split or divided PNR information. 							
 To help identify contraband, 	• (I) General remarks, including all available information on unaccompanied minors under the age of 18, such as name, surname and sex of the minor, age, languages spoken, name, surname and contact address of the accompanying person at the airport of departure and link to the minor, name, surname and contact address of the accompanying person at the airport of arrival and link to the minor, agent at the place of departure and place of arrival.							
smuggling, etc	 m) Information on the ticket, including the ticket number, date of issue, one-way tickets and indication of the fare for electronic tickets (Automatic Ticket Fare Quote). n) Seat data including number 							
 To assist in risk assessment 	 o) Code-share information. p) All baggage information. q) Number of passengers and other names of passengers listed in the PNR. (r) Any information contained in the Passenger Advance Information System (API), including type, number, country of issue and expiry date of any identity document, nationality, surname, first name, sex, date of birth, air carrier, flight number, date of departure, date of arrival, airport of departure, airport of arrival, time of departure and time of arrival. (s) All history of changes to the PNR data referred to in paragraphs (a) to (r). 							





EUROPEAN UNION OPEN DATA

Information about Airports and Airline Traffic data.

It can be useful:

- Airport Intelligence (City News)
- Last minute cancelations
- Aircraft rerouting due bad weather conditions
- Enrich Passengers Profile with Social Network

Data Elements

- Flight updates
- Airlines Routes
- Airport Information (Connections and Infrastructures)

÷

- Airport Traffic data
- Weather conditions
- Security Information
- City / Country News
- Popular Itinerary Data
- Mentions in Social Network

NUMBER OF STREET, STRE

HENSTERIO





Call and the second sec

OPEN DATA - EXTRACT VALUE AND UNDERSTANDING

Human communication - Documents



enertenetadata:Value>Regulation (EC) N°1358/2003, implementing Regulation N°43/2003 of the European Parliament and of the Council on statistical returns in respect of the carriage of passengers, freight and mail by air, mentions three datasets: the Flight Stage dataset, called A, the On Flight Origin/Destination dataset, called B and the Airport dataset, called C. <spars tyle="text-decoration: underline;">Dataset A: This dataset contains periodic flight stage data registered for airport-to-airport routes, and broken down by arrivals/departures, scheduled/non-scheduled, passenger service/all-freight and mail service, airline information and aircraft type. The values provided concern passengers on board, freight and mail on board, commercial air flights as well as passenger seats available.

48



PROPOSED ONLINE ANALYTICS SERVICES



Uniquely Identify passenger across multiple names



Alerts on suspicious profiles based on passengers data



Identification of patterns Itineraries/routes



Antimetrania (14 pr

HINISTERIO DEL INTERIOR

Collect and Analyze real-time data related to Airport

To provide an online Analytics Services to Units in response to the COUNCIL DIRECTIVE on the use of Passenger Name Record data for the prevention, detection, investigation and prosecution of terrorist offences and serious crime. Analytics Services will be performed by expert Investigators and extends the simple query and extraction of Passengers data by providing advance analytics in combination with Traveling Routes and Airport Intelligence from European Open Data Frameworks – including structured and unstructured data sources.





PASSENGERS IDENTIFICATION - ONLINE ANALYTICS SERVICES



Uniquely Identify passenger across multiple names



Alerts on suspicious profiles based on passengers data



Identification of patterns Itineraries/routes



Collect and Analyze real-time data related to Airport

Problem it solves

Passenger information stored in disparate data sources may contain inaccurate or misspelling names causing issues in finding and retrieving all relevant passenger data across timelines and multiple destinations.

Benefits

- ✓ Ability to search by non full descriptive name
- ✓ Find and retrieve all related data to a desire passenger in a human readable format
- ✓ Validation of passenger identification and flight information
- ✓ Automatic highlighting of people that match "Watch-lists"





ARTIGRAMIA DIS PO

HINISTERIO DEL INTERIOR



PASSENGERS IDENTIFICATION - ONLINE ANALYTICS SERVICES

Foster Investigation by automatically matching and connecting Passengers Information



MAXIMUM TANKS THE PER-

U.B. BETTPHE CO. H DE DETTPHE DE H Y COMUNICACIÓN

PNR: Advanced Passenger Analytics with Big Data

PASSENGERS PROFILE - ONLINE ANALYTICS SERVICES



Uniquely Identify passenger across multiple names



Alerts on suspicious profiles based on passengers data



Identification of patterns Itineraries/routes



ARTING TANALS INC. 8

HINISTERIO DEL INTERIOR

Collect and Analyze real-time data related to Airport

Problem it solves

The vast amount of data available related to passengers is difficult to analyze manually to detect anomalies. The use of advanced analytics helps identify and alert on suspicious behaviors of passengers based on "pre-defined criteria".

Benefits

 ✓ Automatically identify passenger demographical and sociological profile.

Unión Europea

Fondo para las Fronteras Exteriores

- Tracking of travel itinerary changes (i.e. last minute cancelation)
- ✓ Identification of passengers traveling together.
- ✓ Tracking unusual usage of open social networks.





PASSENGERS PROFILE - ONLINE ANALYTICS SERVICES





ARTING TANKS (18 pt) THE DESIGNATION

HENISTERIO DEL INTERIOR

*



TRAVELING ROUTES - ONLINE ANALYTICS SERVICES



Uniquely Identify passenger across multiple names



Alerts on suspicious profiles based on passengers data



Identification of patterns Itineraries/routes



ARTIGRAMIA DIS PO

HINISTERIO DEL INTERIOR

Collect and Analyze real-time data related to Airport

Problem it solves

Investigators typically know routes used by traffickers, however knowing origin and destination of an itinerary may not reveal the use of that routes due connection points or a "hidden route" using cross document and multiple agencies.

Benefits

- ✓ Guided support to identify frequent routes based on travelers and airlines data.
- ✓ Alerts of passenger or group (watch-listed) traveling on pre-defined routes/itinerary.
- ✓ Validation of passenger reaching destination due cancelations, delays or routes changes.





AIRPORT INTELLIGENCE - ONLINE ANALYTICS SERVICES



Uniquely Identify passenger across multiple names



Alerts on suspicious profiles based on passengers data



Identification of patterns Itineraries/routes



ARTIGRAMIA DIS PO

HINISTERIO DEL INTERIOR

Collect and Analyze real-time data related to Airport

Problem it solves

Passengers traveling left a digital print as they move across cities and airports, cross referencing with local real-time airport information can predict behaviors or alert on unexpected movements and decisions.

Benefits

- Alerts on country/city relevant events and physical security threats
- ✓ Alerting flights delays and/or cancellations due airlines or weather conditions
- ✓ Collect and Analyze Airport information



AIRPORT INTELLIGENCE SCENARIO



 Bad weather conditions affect the destination airport and after impact assessment by airport authorities and air traffic control authorities, decision is taken to close temporarily the destination airport.

÷

The flight needs then to be rerouted to one of its potential alternate destinations.

•

 Those alternate destinations are predefined by the airline operating the flight but the final decision is taken by coordination of air traffic control authorities together with the pilot; a number of parameters may influence the decision such as fuel, weather, and airport congestion.



SARP is a web application:

□ The platform users use a centralized access using a web application

□ Friendly for the users, allows a fast analysis and validation of the possible alerts

□ All the user tools are integrated with the web application and inherit a common visual and security model

SA	RP	SIS	TEMA I RIESGO	DE ALERTAS D DE PASAJER	OS									Super adr	ninistrador Si 05/02 e un mensaje	stema O /2016 O nuevo M		ndra
Inicia	Mae	stros	PNR	Alertas Carg	a MicroStrategy	IDOL Infor	mes Mapas	- Diagra	amas Mer	nsajería	Seguridad						😈 Des	sconectar
Vuel	os con	alerta	s (32)											¢ F	efrescar	,○ Filtrar	🖉 Export	tar 💌
			O/D	Fecha	Vuelo ≎	SCI	SIS	CNP	BDSN	VISA	SIDENPOL	PASAP.	Sanción	INT°.	SARP	IDOL	SCORING	TOTAL \$
0	1	5		06/04/2000 00:00:00	HDZ-567 Risto	26	0	34	26	0	6	0	4	0	3	2	3	104
0		1		21/12/2010 00:00:00	DGJ-374 Kai	22	0	34	21	0	6	0	4	6	3	0	0	96
0	1	5	•	03/08/2004 00:00:00	CLD-326 Milko	20	0	0	7	0	2	0	0	4	3	2	5	<mark>4</mark> 3
0		1	-	21/09/2007 00:00:00	QSH-902 Mac	23	0	28	22	0	6	0	6	4	3	1	0	93
0	1	5		08/07/2006 00:00:00	POF-305 Congui	21	0	10	23	0	8	0	6	0	3	2	1	74
0	1	5		05/03/2008 00:00:00	MEM-955 Morgan	25	0	0	25	0	8	0	8	4	3	4	2	79
0	1	1		19/08/2014 00:00:00	DBQ-228 Lazan	11	0	14	14	0	10	0	6	0	2	1	2	60
0		1		06/07/2001 00:00:00	VVM-680 Mimo	26	0	34	23	0	8	0	6	2	3	1	0	103
0	1	5		22/06/2000 00:00:00	HKA-84 Hada	28	0	10	22	0	4	0	2	4	2	0	0	72
0		-	-	01/01/2009 00:00:00	ZWL-819 Naria	28	0	32	32	0	6	0	0	2	1	0	5	106

SECONDARY OF ST

*



59

NET REPARTA



Open Source integration:

□ From identified alerts, the system will automatically extract information related to it, using rules designed by the platform users

□ The unstructured information is structured in search for relevant data

□ The information is shown in the alert summary in order to allow a fast validation from a analyst



NET RETAILS IN PO

HINISTERIO

÷.



Fin

RSS

O Twitt

0 Twitt RSS

0 Twit

n Twit

Twitte

Search Engine for the data:

□ Similar method of operation than the common search engines

□ Allows the integration of data from all the sources (PNR, statistical and

extracted from Open Sources)

SARP SISTEMA	DE ALERTAS	S JEROS									Su	oer administrador Sistema 06/02/2016 Tiene un mensaje nuevo	$\begin{smallmatrix}&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&$	ındra
Inicio Maestros PNR	Alertas (Carga Mic	croStrategy	IDOL	Informes	Mapas	Diagramas	Mensajería	Seguridad	*			۲	Desconectar
Documentos IDOL (178 re	cuperados de 1	78 coincider	ntes sobre u	n total o	de 418304	documento	s indexados)							
Busqueda *				296 ca	aracteres re	estantes.	Fecha desd	e/hasta	-	Fuente *	ldioma *	Peso Min. 50 %	F	Buscar
test									•	🖌 Twitter	🖌 Español			
										🖌 RSS	Inglés			·
						1			•	🖌 Ficheros	Italiano		Autor	omv
											Portugué:		n luttori	THP company
			14	12	3 4 5 6	789	►> ►I 2	0 🔻				Sugeridos		

		Sugeridos						
nte	Peso	Titulo	Fecha					
er	85,56	RT @FernandezZicavo: 'Francisco' no recibe a Victimas dl Terrorismo. Solo a familiares de los terroristas, que llama 'detenidos políticos'	30/04/2015 01:20	Ŧ	Nautica Cronica Madrid Andalucia Baleares Cataluña, España Opinión Internacional			
	85,34	HRW pide el final de los 'test de virginidad' en las FFAA de Indonesia	14/05/2015 16:13	Ŧ	Opinión Internacional Economía Deportes			
er 84,92	@Tedoy_mipalabra .a su colaborador le da repelus oir a Indra, y calificar el test de v.del terrorismo como "apología del arrepentimiento	17/05/2015 07:07	Ŧ	Nube				
	84,92	El trivial madrileño deRaquel López	16/05/2015 11:13	Ŧ				
er	84,92	Pilonas Anti Terrorismo Crash Test Segurdoma ACS: http://t.co/zqFcdw0MH5 via @YouTube	05/05/2015 15:24	Ŧ	Náutica Crónica Madrid Andalucía			
er	84,92	Pilonas Anti Terrorismo Crash Test Segurdoma ACS http://t.co/iwRhGl33nu	05/05/2015	Ŧ	España Opinión Internacional Economía			
er	84.72	Con el Mazo Dando: Comandante Chávez: Los medios de comunicación del fascismo transmiten terrorismo	01/06/2015	+	Inicio España Opinión Internacional			



SECRETARIA DE ES

HINISTERIO

*



External Database integration:

□ SARP is integrated with other spanish law enforcenment databases

□ This integration allows to create a risk analysis model using complex comparison criteria

□ The PNR data is compared with external databases for the search for individuals or property (credit cards, identities, etc) of interest

□ SARP allows to create and maintain a custom query policy for each database: every external system imposes its own limits for throughtput, query types

□ The requests of external databases are asynchronous: SARP collects the responses as they are delivered individually by each source and the risk evaluation is updated and notified after each response





Statistical analysis:

□ HP Vertica and R are used for the design, evaluation and development of statistical models.

□ Statistical experts will analyse the data using Big Data tools. Vertica allows to create dynamic and fast data models and statistical processes implemented in R.



SECONDARY DATA

÷



Ease data introduction:

□ PNR schema based in the PNRGOV standard using EDIFACT (13.1)

□ The final schema only contains the data required in the EU Directive

Companies without the required IT platorm will be able to use a web interface

□ All the data is finally handled by the same interface



SECRETARIA DE PE

÷



The Platform is able to collect the PNR files and run preparation and normalization using different dictionaries:

- Passenger names and other data
- Location, street addresses and other geographical data
- Common patterns (telephone numbers, card numbers)

The high volume of PNR files require a technical platform capable to handle and generate the required throughtput:

□ In 2018, more than 200 M of passengers on flights used a spanish airport .

The number of PNR files will require a powerful platform for its load, validation and normalization

□ Big Data platform, based in HP Vertica and Elasticsearch will allow to manage dictionaries using high performance document databases, as well as implement the comparison and validation algorithms with the required performance to handle all the data





SARP implement data retention policy enforcenment:

Anonymize the data following the required period of time (6m)

□ The global data retention, after the anonimization, is 5 years

The anonymization process will be irreversible

□ Further data retention processes will be implemented to comply with

÷

HINISTERIO DEL INTERIOR

the Spanish data privacy laws

□ Those data retention processes will affect also the data requested and collected from other UNIPs



THE BIG DATA PLATFORM FOR HUMAN INFORMATION







MATCHINE TANKS THE PER-

HINSTERIO DEL INTERIOR



FROM DATA TO KNOWLEDGE - INFORMATION TO ACTION



MERIDIANA DE PORT

HINISTERIO

•





SPANISH SMART BORDERS PROJECT DESCRIPTION



An Antonia de Prosent Le Mouleon

*






SPANISH SMART BORDERS PROJECT. USE OF BIOMETRICS ABC SYSTEM

TRAVELLER REQUIREMENTS



TRAVELLER DOCUMENTS



Spanish electronic ID Card (eDNI)
Electronic Passport (ePassport)

- 9 Sites
- 127 Identification Modules
- > 6 Million Users

MAIN ELEMENTS



IDENTIFICATION MODULES



ACCESS MODULES



*

System Control Posts

METHODALA DE PE



SPANISH SMART BORDERS PROJECT. USE OF BIOMETRICS ABC SYSTEM CONFIGURATIONS



74

MAXIMUM COLUMN

V. MONTON DE OFFICIER Y COPULIER



÷

SPANISH SMART BORDERS PROJECT. USE OF BIOMETRICS ABC - AUTOMATED VERIFICATION PROCCESS



IDENTIFICATION MODULE TYPE 1









*

N. MORENT

SPANISH SMART BORDERS PROJECT. USE OF BIOMETRICS ABC - AUTOMATED VERIFICATION PROCCESS



(*) 2nd generation electronic passports VIZ: Visual Inspection Zone MRZ: Machine Readable Zone



IDENTIFICATION MODULE TYPE 2







SPANISH AUTOMATED BORDER CONTROL SYSTEM (ABC SYSTEM) AUTOMATED VERIFICATION PROCCESS. ELECTRONIC PASSPORT



77

MERIDIANA DE PE

U.B. BOTT

*



SPANISH AUTOMATED BORDER CONTROL SYSTEM (ABC SYSTEM) AUTOMATED VERIFICATION PROCCESS. ELECTRONIC PASSPORT



MERITANA DE PORTE

N. MORE CORE DE DETENSE OF Y COMUNICAC



SPANISH AUTOMATED BORDER CONTROL SYSTEM (ABC SYSTEM) AUTOMATED VERIFICATION PROCCESS. ELECTRONIC PASSPORT



SECRETARIA DE POP

N. MORE CORE DE DETENSE OF Y COMUNICAC



SPANISH AUTOMATED BORDER CONTROL SYSTEM (ABC SYSTEM) AUTOMATED VERIFICATION PROCCESS. ELECTRONIC PASSPORT



MERIDIANA DE PE

N. MORE CORE DE DETENSE OF Y COMUNICAC



SPANISH AUTOMATED BORDER CONTROL SYSTEM (ABC SYSTEM) AUTOMATED VERIFICATION PROCCESS. ELECTRONIC PASSPORT



SECRETARIA DE RET

A SUPPLY T

*



SPANISH AUTOMATED BORDER CONTROL SYSTEM (ABC SYSTEM) AUTOMATED VERIFICATION PROCCESS. ELECTRONIC PASSPORT



SECRETARIA DE PER

Laboration of Services T COPUPAR

*



SPANISH AUTOMATED BORDER CONTROL SYSTEM (ABC SYSTEM) AUTOMATED VERIFICATION PROCCESS. SPANISH ELECTRONIC IDENTITY CARD - EDNI



MERIDIANA DE PE

COPUPAR

*

HINSTERIO DEL INTERIOR



SPANISH SMART BORDERS PROJECT. USE OF BIOMETRICS ABC - EXAMPLES OF CURRENT SITES











SPANISH SMART BORDERS PROJECT. USE OF BIOMETRICS ABC - EXAMPLES OF CURRENT SITES











Management of the second of th

SPANISH SMART BORDERS PROJECT. USE OF BIOMETRICS MANUAL CONTROLS







International de la company la securité

SPANISH SMART BORDERS PROJECT. USE OF BIOMETRICS OTHER RELATED SYSTEMS DEPLOYED AT BCPS



AUTOMATIC LICENSE PLATES RECOGNITION







An initiality of the second initiality of the second of the second second of the second second of the second second of the second second

SPANISH SMART BORDERS PROJECT. USE OF BIOMETRICS OTHER RELATED SYSTEMS DEPLOYED AT BCPS



DOCUMENT EXAMINATION EQUIPMENT





E-VISA EXPEDITION SYSTEMS





PENSTERIO DE PITERIO

SPANISH SMART BORDERS PROJECT. USE OF BIOMETRICS CURRENT LINES OF ACTIVITY

EXTENSION OF THE USE OF 4 FINGERPRINTS AT BCPS CONTROLS



MOBILE BIOMETRICS

TRANSPORTABLE SYSTEMS



MOBILE DEVICES







÷

SPANISH SMART BORDERS PROJECT. USE OF BIOMETRICS CURRENT LINES OF ACTIVITY

Use of Biometrics in Other Systems





EXPLORATION OF OTHER BIOMETRIC IDENTIFICATION TECHNOLOGIES

- Voice recognition
- Physical contour
- Iris
- Palm recognition
- Recognition of behavioral traits





SPANISH SMART BORDERS PROJECT. USE OF BIOMETRICS FINAL REMARKS

ADVANTAGES OF BIOMETRY

- Allows faster border crossing
- Reduces waiting times
- Allows police officers to focus on the most interesting cases
- · Verifies the authenticity of the travel document
- · Verifies the identity of the bearer of the documents
- Allows automated query in police databases
- IDENTIFY MULTIPLE IDENTITIES



INISTERIO









Thank you very much

Subdirección General de Sistemas de Información y Comunicaciones para la Seguridad - Ministerio del Interior Centro Tecnológico de Seguridad (CETSE) C/Cabo López Martínez, s/n 28048 El Pardo - Madrid Tlf: (+34) 91 839 80 00 Fax: (+34) 91 839 80 19