INTERPOL

AFIS Gateway presentation

developed by

COGENT

a 3M Company

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AFIS Gateway objectives

The AFIS Gateway is an Open Interface that allows access from remote locations to the INTERPOL central AFIS (Automated Fingerprint Identification System).

This Gateway allows INTERPOL member countries to run
- Searches of fingerprints against the central AFIS database
- Searches of latent prints against the same database.
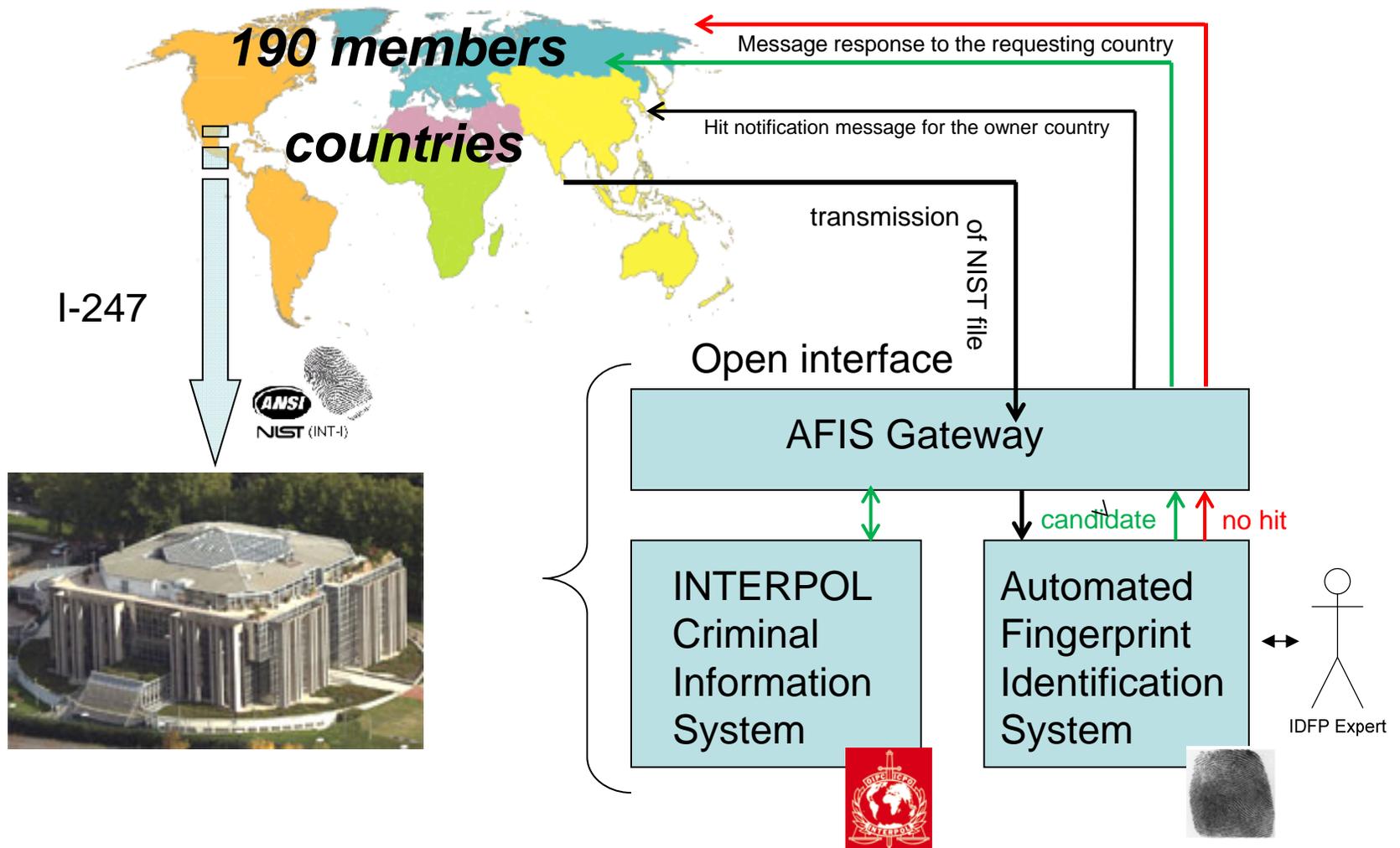
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Transactions

The Gateway can process :

- CPS : Criminal Print to Print Search (semi-automatic)
- MPS : Mark to Print Search (manual)
- ATP : Add to TenPrint => will be converted in CPS

The AFIS Gateway will be able to support 1000 transactions/day at the beginning

Support different I247 User interfaces

1. Mail, as previous AFIS Gateway

2. AFIS Web services as FIND

US Gateway

INTERPOL Gateway
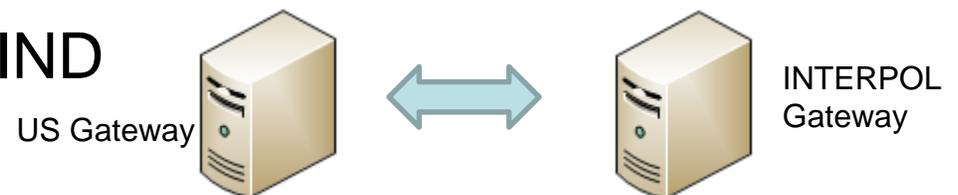
3. User Form ANSI NIST submission in eASF application

Search result responses by email

Plain text result

From : AFISMAIL

To : NCB Washington

Subject : positive / AFIS / ANSINIST [Forename – Name] - Agency reference number [TCR]

THE FINGERPRINTS HAVE BEEN SEARCHED WITH A POSITIVE RESULT :

Name :

Forename :

Sex :

Date of birth :

COB code :

Country of birth :

Easf link :

Nationality :

ANSI/NIST SRE or ERR file containing the search result in attachment

Service availability Operating hours

The AFIS gateway is designed to support a service H24-7/7, 365 days a year.

- The system will be operational Monday through Friday, 8 a.m. to 5 p.m. french legal time, excluding bank holidays.
- Outside of these operating hours the system might be shut down for maintenance, updating or other purposes.

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AFIS gateway support 24/7

- If problems, please contact Network Operation Center

  HELPDESK@interpol.int

  (33) 4-72-44-71-66 or 4-72-44-71-65

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HIT management

The main objectif is to send hit and no hit replies to remote End Users quickly H24-7/7, 365 days a year

➡ Support an automatic no-hit system in 10 minutes

➡ Support an operator no-hit in 60 minutes

➡ Support hit validation by 2 operators in 1 hour Monday through Friday, 8 a.m. to 5 p.m. french legal time

➡ Support hit validation by 2 operators in 12 hours Monday through Friday during **the night**, 5 p.m to 8 a.m french legal time

➡ Support hit validation by 2 operators in 48 hours during the weekend french legal time

Urgent search request

- Please send your request to AFIS Gateway
- If no reply within 30 minutes, send the request to the INTERPOL Command Coordination Center (CCC) informing them that a request has been sent to the AFIS Gateway

ANSI/NIST Compatibility

- *AFIS Gateway will check the compatibility with all INTERPOL Implementations of ANSI/NIST-ITL.*

ANSI/NIST Type supported

- Type 4 : TenPrint & Slaps
  &

- Type 9 : Minutiaes
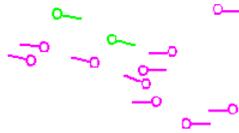
- Type 13 : Latent

- Type 16 : Evidence
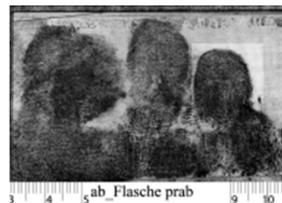
- Type 15 : Palm

ANSI/NIST Type supported details

The content of each type is defined as follow:
- Type 1: Header of the transaction. Define the transaction details.
- Type 2: Demographic information of the person or of the criminal case.
- Type 4: 1 to 14 finger prints or slap prints images contained by message.
- Type 9: Minutiae data.
- Type 13: 1 to 10 latent prints images contained by message.
- Type 15: 1 to 4 palm prints images contained by message.
- Type 16: 1 to 6 evidences images contained by message.

TOT	TOT Title	Type 1	Type 2	Type 4	Type 9	Type 13	Type 14	Type 15	Type 16
CPS	**C**riminal **P**rint-To-Print **S**earch	M	M	O				O	
MPS	Latent-to-**P**rint **S**earch	M	M		O	O			O

M = Mandatory   O = Optional

Image size for incoming images (all types of messages)

Below are the minimum and maximum numbers of pixels per images

	Message type and Record type	Finger position or Palmprint position (Remark 1)	Horizontal (width)		Vertical (height)	
			Min	Max	Min	Max
Finger	Type-4 record within CPS/ATP message	Finger position 1 through 10 (*1)	400	800	400	800
Slap	Type-4 record within CPS/ATP message	Finger position 13 or 14 (*1)	400	2370	400	2370
Slap thumb	Type-4 record within CPS/ATP message	Finger position 11 or 12 (*1)	400	600	400	1000
Palm	Type-15 record within CPS/ATP message	Palmprint position 21 or 23 (*2)	400	5000	400	5000
Writer palm	Type-15 record within CPS/ATP message	Palmprint position 22 or 24 (*2)	400	3000	400	5000
Latent	Type-13 record or Type-9 record within MPS message.	No test on finger position	200	2370	200	2370
Evidence	Type-16 record within MPS message.		400	4000	400	5000

Project planning

- Contract signature : August 2011
- Implementation : 2012
- Pilot tests : 3rd quarter 2012
- Go live : Last quarter 2012

Pilot project with

- USA
- UK
- Austria
- Russia
- Canada

END

- QUESTIONS ?

Thank you for your attention