



Quo Vadis Prüm ?

Ballistics

Support for detailed discussions

European Commission – Directorate-General Migration & Home Affairs
Unit D1 – Police Cooperation and Information Exchange

Automated Ballistics Identification System (ABIS)



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The Automated Ballistics Identification Systems used in EU/Schengen:

- IBIS: 11
- EvoFinder: 11
- BalScan: 3
- Papillon: 1
- POISC: 1
- TAIS: 1

Please give us what is missing/incorrect!

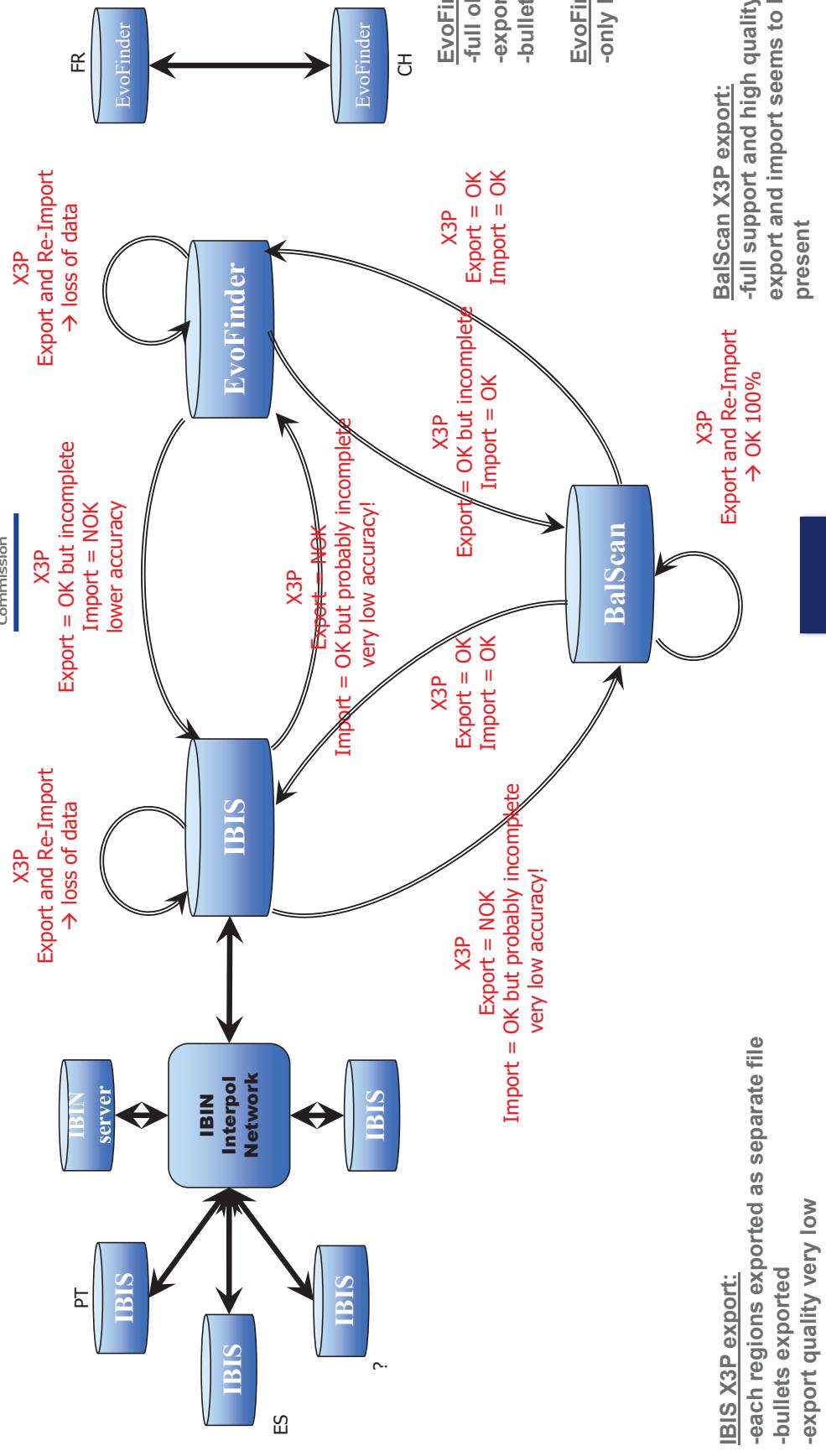
- **Which ballistics system are you using?**
- **Are you part of Interpol's IBIN network?**
 - If you use IBIS and you are not part of IBIN, could you explain the reasons?
 - Are you part of a (different) network/exchange?

1. IBIS systems can technically, easily become part of a network (with or without a centralised database) and the Interpol IBIN network in particular
2. Interpol also hosts an IBIS and operates a centralised IBIN ‘matching server’ with data from all its IBIN members
3. EvoFinder systems need to be connected ‘peer-to-peer’ similar to the Prüm concepts

	ABIS	IBIN Network	# sites	Remarks
AT	EvoFinder	No	1	
BE	EvoFinder	No	1	
BG	IBIS	Yes	1	
HR	IBIS	No	1	
CY	EvoFinder	No	1	
CZ	BalScan	No	?	
DK	IBIS	Yes	1	
EE	TAIS	No	?	
FI	EvoFinder	No		
FR	EvoFinder	No	7	pilot with CH
DE	EvoFinder	No	7	
EL	EvoFinder	No	2	
HU	EvoFinder	No	?	
IT	IBIS	No	9	IBIN process started
IE	IBIS	Yes	1	
LV	BalScan	No	?	
LT	BalScan	No	?	
LU	None	No	0	
MT	EvoFinder	No	1	
NL	IBIS	Yes	6	
PL	Papillon	No	?	
PT	IBIS	Yes	2	
RO	IBIS	No	1	
ES	IBIS	Yes	2	
SK	POISC	No	?	
SI	EvoFinder	No	?	
SE	IBIS	Yes	1	
CH	EvoFinder	No	1	pilot with FR
IS				
LI	None	No	0	
NO	IBIS	Yes	?	
UK	IBIS	Yes	5	

Ballistics: Serious technical problem

Casing regions of interest:
 -breech face
 -firing pin
 -ejector mask
 -full head stamp



Interoperability of Ballistics data



- Currently (04/05/2021) the complete automated exchange of ballistics in the EU/Schengen is technically NOT possible
- The ABIS manufacturers (IBIS, EvoFinder, BalScan, Others) need to fully support an export/import (via for example the X3P format) of ALL data (2D, 3D, meta-data) so that a comparable accuracy between systems of different manufacturers can be obtained
- 'Forcing' ABIS manufacturers to reach this comparable accuracy cannot be done via the legal basis of a Prüm Regulation (Prüm is Title V 'area of freedom, security and justice' while Industry is Title I 'the internal market')
- The Commission will analyse if a (different) legal instrument could be proposed
 - This will take considerable time, official meetings will need to be organized with all ballistics industry players

Ballistics under Prüm: Potential partial option (for discussion)



IBIN
Network

IBIS
MS A

EU IBIS
Network
~~DB~~

IBIS
MS B

- Interoperability between IBIS/EvoFinder/BalScan/Papillon/Other:
- Could potentially be regulated in a different legal instrument
 - Could potentially be preceded by an innovation project
 - Industry is not ready
 - We will keep this issue out of the Prüm scope!



- EU IBIS Network:
- National EU/SAC IBIS systems networked together (without necessity of Interpol's IBIN)
 - No centralised 'matching server'
 - National IBIS systems may (continue to) connect to IBIN

EU EvoFinder Network:

- National EU/SAC EvoFinder systems networked together
- No centralised 'matching server' but Prüm router used to create the network

Ballistics & Prüm



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- The Prüm Regulation proposal could potentially provide a **legal basis for the automated exchange of ballistic-data between those Member States (SAC) where this is technically feasible**
 - For IBIS users an EU IBIS network could be established relying on the built-in capabilities of the IBIS product (no centralised matching-server)
 - For EvoFinder an EU EvoFinder network could be established relying on the new Prüm Router, possibly requiring changes to the EvoFinder products
- The Prüm Regulation proposal could potentially also contain a part on the automated generalised exchange of ballistic-data, making it dependent on the interoperability technology becoming available (sunrise) and an independent report proving that a comparable accuracy can be reached.
- Once technically possible, an implementing act could describe how to 'extend' the Prüm router to allow transactions containing ballistic-data between IBIS users, EvoFinder users, BalScan users, other users.