



Central Information Point for Telecom Investigation

CIOT

René Bladder

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Content of this presentation

- Why CIOT?
- Goal CIOT
- CIOT Information System



Why CIOT? (1996 – 1999)

- Increase of interest for Telecom data/users (LEA)
- Liberalisation of Telecom market;
- Existing communications:
 - Not quick (days/weeks)
 - Not cost efficient (manual fax procedure)
 - Not complete (not all providers)
- No track records
- No standards



LEA's

- 25 Police regions
- 6 Units National Recherche
- 4 Special cid's from four ministries:
 - FIOD, AID, IOD, SIOD
- 2 Intelligence (secret) Services:
 - AIVD en MIVD
- Internal Affaires Police, KMAR, KLPD
- 112, Central Authority (LP-OM)

- 42 organisations with regulated, legal access.



Providers

- All Telecom Providers for fixed lines, mobile telephony (MVNE & MVNO), carrier (pre-) select services,
- All Internet Service Providers for internet access and email services
- Telco's started in 2004
- ISP's started in 2006
- Total number of connected providers: ± 110



Central organisations

- OPTA for pricing, number distribution, etc...
- Telecom Agency of the Ministry of Economic affairs for the Telecom Law and 'Besluit-CIOT'
- COIN (Telecom companies) for central storage of data for portering of telephone numbers
- Central Bureau for Privacy concerning Personal Data (privacy in general)



Goal CIOT

- Collect current customer data from providers on a daily basis;
- Deliver specific information to:
 - (Special) Investigation Services
 - Intelligence & Security Services
- Manage the CIOT Information system guarding careful storage and rightful use of the system;
- Be an intermediary between LEA and providers.
- CIOT is part of the Ministry of Justice.

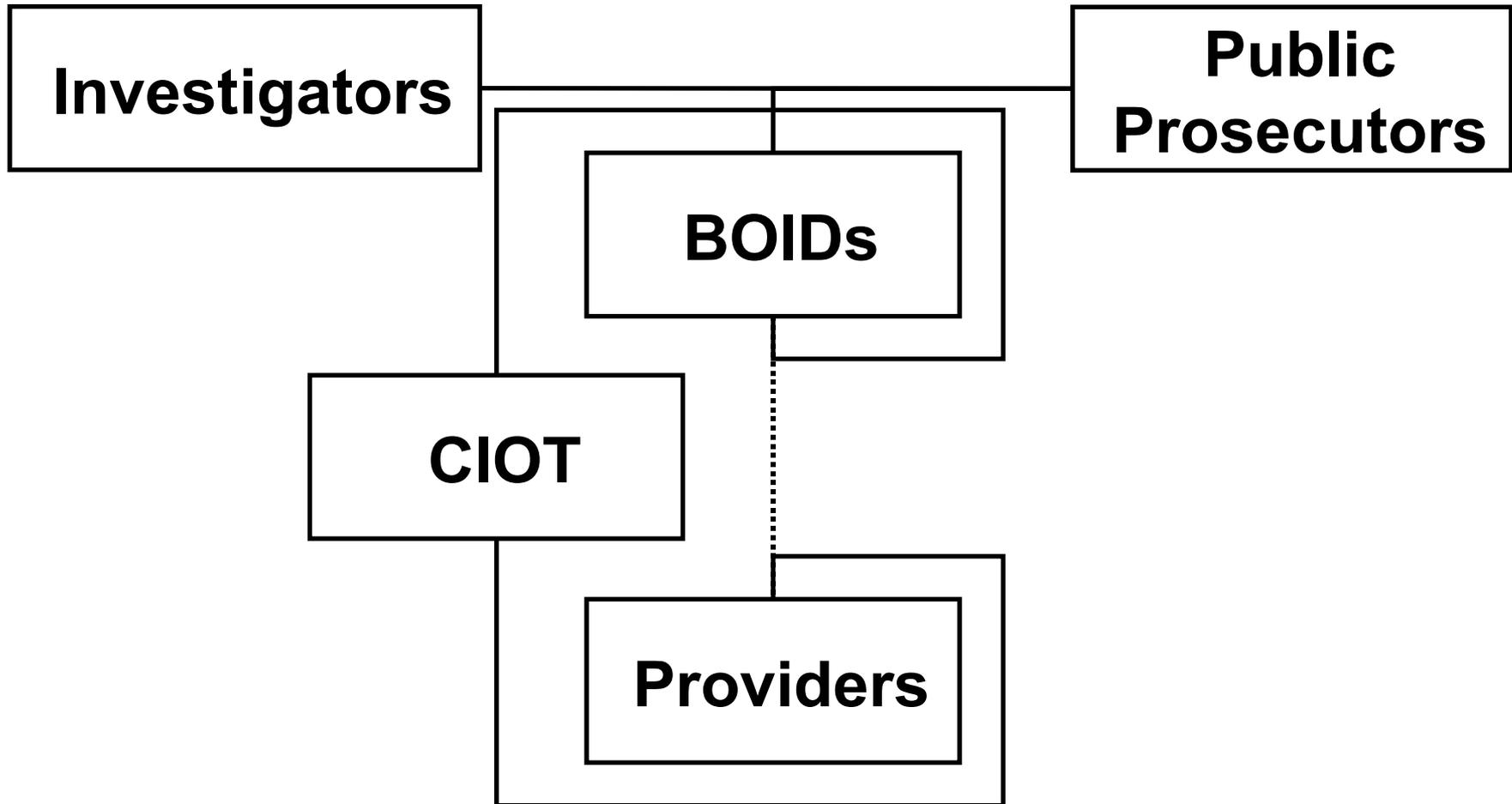


Type of Data

- **Customer data** ==> CIOT
- Traffic data ==> Data retention act (soon...)
- Content data ==> Legal Interception

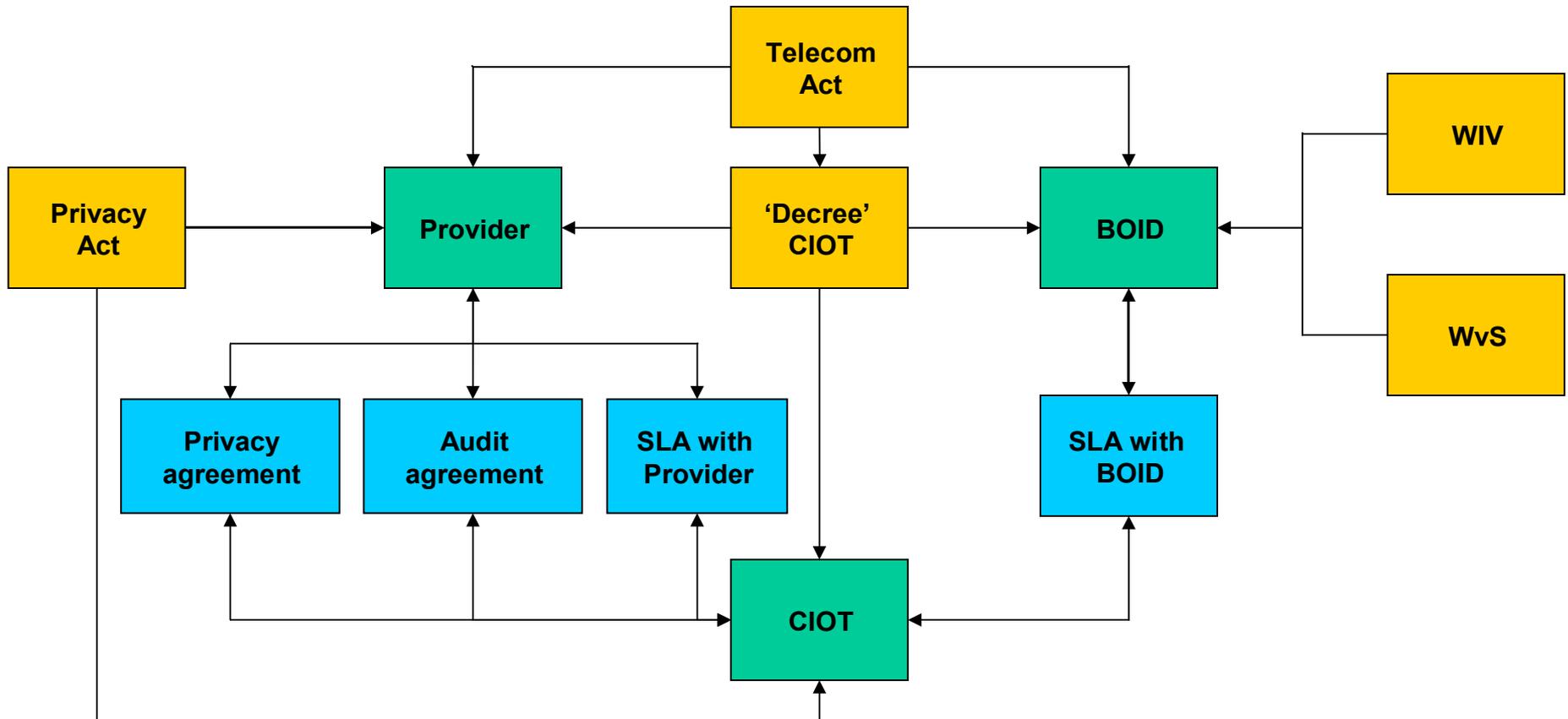


Service developed (1998 – 2009)





Legal embedding/agreements



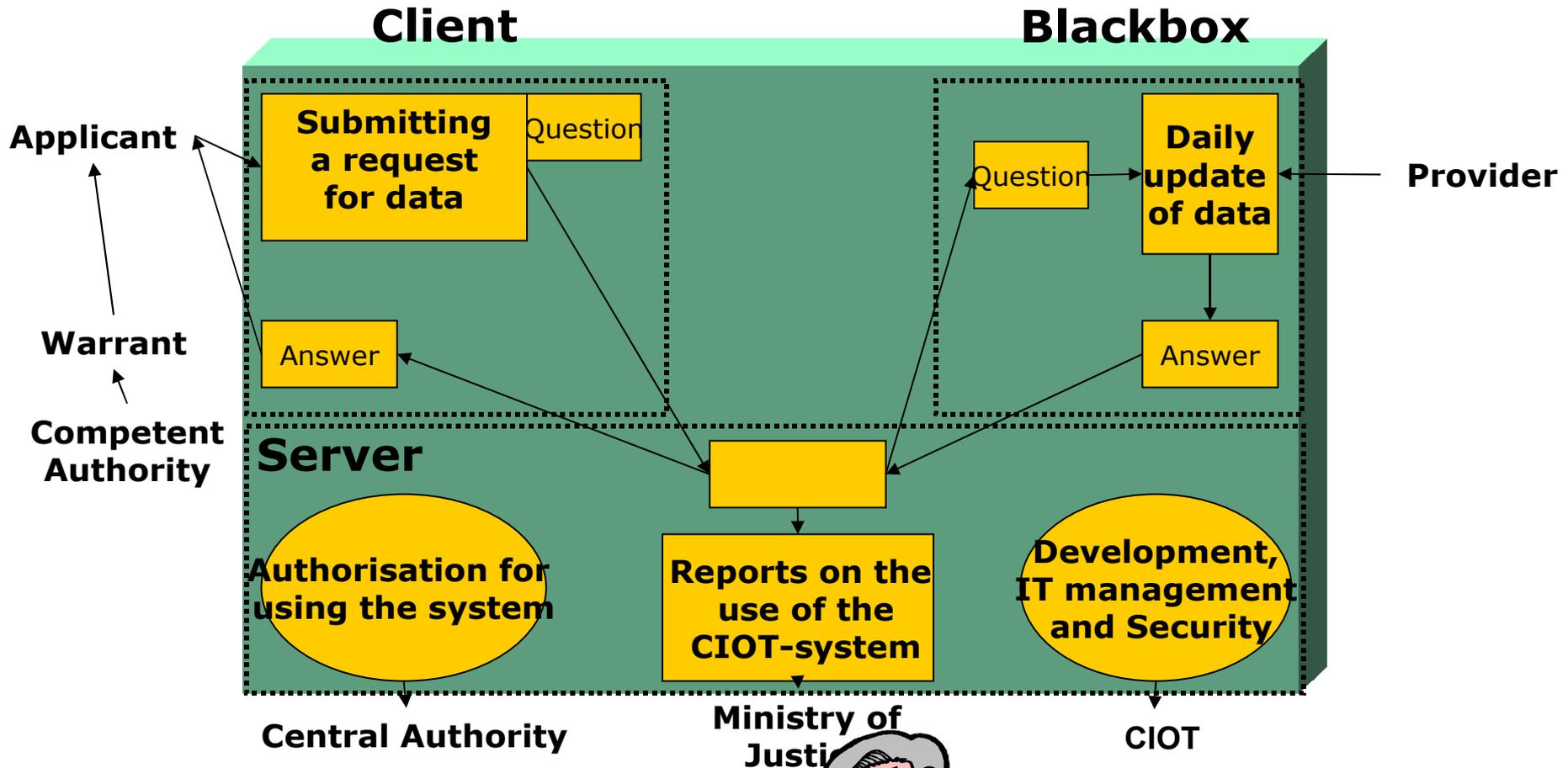


CIOT model

- Automated request for information to providers
- Automated comparison of questions with data of providers
- Automated delivering of answers
- Request + question + answer is only visible by authorities
- Management of system is performed by CIOT
- Monitoring is clear and precise
- Use of the system is based on the law



Generic 'Question / Answer' process





Request

- **Identification warrant**
- **Legal base for request**
- **Function competent authority**
- **Name investigation**



Type of Question

- **Telephone number**
- **Email address**
- **IP-address v4**
- **IP-address v6**
- **Account ID**
- **Hardware ID**
- **Postal code + house number**



Answer

- **Name + Address + City**
- **foreign address**
- **Type of address**
- **Type of Service**
- **Type of Network service**
- **Name Service provider**
- **Name Network provider**
- **Date creation database**



> CIOT Systeem

▾ Beheer

▾ Monitoring

▾ Bevraging

Overzicht verzoeken

Nieuw verzoek

Verzoeken in voorbereiding

ID	Kenmerk	Onderzoek	Datum	Vragen
128	PAR-26090605	Testen	26-09-2006 14:18	0

1

Verzoeken in uitvoering

ID	Kenmerk	Onderzoek	Datum	Vragen	Vragen beantwoord
127	PAR-26090604	Testen	26-09-2006 14:19	1	0

1

Afgeronde verzoeken

ID	Kenmerk	Onderzoek	Datum	Vragen	Vragen met hits	Vragen met no-hits	Compleet
126	PAR-26090603	Testen	26-09-2006 10:57	1	1	0	✓
125	PAR-26090602	Testen	26-09-2006 10:46	9	9	0	✓
124	PAR-26090601	Testen	26-09-2006 10:39	1	1	0	✓

1

Overzicht vragen

Verzoek

ID : 110 Kenmerk : PAR-030107001
Bevoegde autoriteit : Officier van Justitie Rechtsgrondslag : WvS 126n
Onderzoek : onderzoek1 Datum/tijd : 03-01-2007 09:11
Opmerkingen : Aantal vragen : 0

[Overzicht](#)[Verwijderen](#)[Bewerken](#)

Toevoegen vragen

[Tel.Nr.](#)[Tel.Cel](#)[E-mail](#)[IP v4](#)[IP v6](#)[Account ID](#)[Hardware ID](#)[Vragen importeren](#)[Postcode](#)

Nummer	Postcode	HuisNr.	Toev.	Gegevenstype
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<u>1</u>



Key results

- **Increased efficiency**
- **Volume and location independent**
- **Generic application with standard equipment**
- **System is 24 hours / 7 days available**
- **Standard format for telecom and internet data**
- **Security of system approved by intelligence services and audited by KPMG and FOX-IT**



Production highlights

- **Hit-rate is 88% - 94%**
- **250.000 questions per month**
- **42 BOIDs send in requests for information**
- **110 Providers give answers**
- **Roughly 50 million telephone numbers and 31 million internet identifying items are accessible using the CIOT-system**



Questions

- Do not hesitate and ask questions **now!**
-or contact CIOT via <http://www.ciot.nl>
-or ask me later at the bar ;-)