OASIS

OASIS Standards for eGovernment Integration

Brian Dommisse, Pheidis Consultants
Pim van der Eijk, Sonnenglanz Consulting BV

Agenda

- Speaker introduction
- G2G introduction in the Criminal Justice System in the Netherlands
- Use of ebBP, UBL NDR, ebMS2
- National eGovernment Architecture initiatives in the Netherlands
- Conclusion

Personal Introduction

- OASIS European Representative (part-time)

- Independent consultant / project manager focused on B2B/G2G integration

- Experience in large scale messaging projects (UK NHS)

- Contributer to various projects mentioned in this presentation

Dover, 18 June 2000

⊕ Chinese Gang Is Suspected in Smuggling Into Dover : A Deadly Traffic in Humans

By Tom Buerkle International Herald Tribune

Wednesday, June 21, 2000

The death of 58 Chinese immigrants aboard a tomato truck at the British port of Dover was just the latest and most gruesome tip of the growing traffic in illegal immigrants by organized crime networks, European authorities said Tuesday.

The British and Dutch police on Tuesday interrogated the driver of the truck, who was detained in Dover on suspicion of manslaughter, and said they believed that one of the Chinese criminal gangs known as "snakeheads" had organized the passage of the immigrants from Fujian Province in southern China, charging an estimated £15,000 ($22,680) a person.

Meanwhile, the police in the Dutch city of Rotterdam late Tuesday arrested another person in connection with the deaths. Prosecutors declined to name the suspect but earlier had said they were seeking an engineer, Arjen van

der Spek, 24, who had registered the truck only last week.

Two Dover survivors, in a hospital in nearby Canterbury, began telling the police about their ordeal. Speaking through interpreters, they described how the passengers had screamed and banged on the doors of the truck and how their own desperation mounted as their companions began to pass out and die, apparently of suffocation.

"This was clearly a horrific death," said a detective superintendent, Dennis McGookin.

As shocking as the incident was, there appeared to be no shortage of people prepared to run the risks in an effort to enter Europe illegally.

An estimated 500,000 people enter the 15-nation European Union illegally

each year, representing perhaps 50 percent of a global traffic in immigrants worth some $3 billion annually for organized crime networks, according to estimates by Europol, the EU police agency.

With growing numbers of economic immigrants and political refugees from places like China, Afghanistan, the Ukraine, Moldova and Iraq offsetting a decline in immigration from the former Yugoslavia, the problem shows no sign of easing.

"This will stay on a high level," said Christian Bratz, head of Europol's illegal immigration unit.

The breadth of the problem was underscored when Spanish police announced the discovery of 36 illegal immigrants crammed into a truck on a highway in southern Spain late Monday.

URL http://www.iht.com/articles/2000/06/21/dover.2.t_

OASIS

- Letter from Minister of Justice to Parliament, 30 January 2002
- Dover evaluation highlights need to increase consistency and efficiency of processing criminal case files
- Initiative to transfer criminal dossiers electronically from Police to Prosecution

BRIEF VAN DE MINISTER VAN JUSTITIE

Aan de Voorzitter van de Tweede Kamer der Staten-Generaal

Den Haag, 30 januari 2002

Op 8 december 2000 heb ik u een brief geschreven met daarin een aantal maatregelen naar aanleiding van de zogenaamde Doverzaak. Deze maatregelen waren onderverdeeld in drie thema's, te weten Doorlooptijden uitleveringsprocedure, Informatie-uitwisseling Strafrechtsketen en Communicatie en samenwerking. Graag wil ik u via deze brief op de hoogte stellen van de vorderingen die zijn gemaakt.

§ 1. Inleiding

Eén jaar na deze brief kan ik constateren dat belangrijke stappen zijn gezet. Een behoorlijk aantal van de maatregelen is uitgevoerd en andere zijn in de uitvoeringsfase. Dit betekent voor mij echter niet dat daarmee het punt van zorg weg is. Met name het kunnen en willen uitwisselen van informatie in de strafrechtsketen en het vervolmaken van de informatisering van de strafrechtsketen zijn zaken die constante aandacht en investeringen behoeven. Daarom heb ik tezamen met mijn ambtgenoot van Binnenlandse Zaken en Koninkrijksrelaties een groot aantal nadere maatregelen geformuleerd in de met uw Kamer reeds besproken nota «Criminaliteitsbeheersing, investeren in een zichtbare overheid».

Tijdens de uitwerking van de maatregelen naar aanleiding van de Doverzaak is tevens duidelijk geworden dat er veel winst is te halen uit de doorstroomsnelheid en de eenduidigheid van de strafdossiers. Dat zijn de voornaamste redenen geweest om te starten met een project dat moet leiden tot de invoering van een elektronisch proces-verbaal. In het eerste kwartaal van dit jaar zal in twee politieregio's en de twee daarbij behorende arrondissementsparketten worden gestart met een pilot elektronisch proces-verbaal op basis van artikel 8 van de Wegenverkeerswet. Daarna zal het elektronisch proces-verbaal landelijk worden geïmplementeerd en uitgebreid met meerdere feiten.

Deze brief zal verder ingaan op de genoemde hoofdthema's uit de brief van 8 december 2000.

URL http://www.overheid.nl/c

ePV

Elektronische Berichtenuitwisseling
in de Strafrechtsketen

EPV initiative

- "Electronic message exchange in the criminal justice system"
- Joint programme of
  - Police
  - Prosecution
  - Courts
  - Ministry of Interior and Kingdom Relations
  - Ministry of Justice in the Netherlands.
- Facilitates collaboration between (projects of) partners in the criminal justice system.
- Provides expertise, standardization, awareness, change management
- Participates in (some key) partners integration projects
  - Partners remain autonomous, responsible
- Initiated in 2003; hosted by Politie Nederland.

Typology of Police cases

- **Low complexity ("transactions")**
  - Traffic-related
  - Huge volumes 10.6 M cases
  - Very simple information set
  - Sanctions handled by a central collection agency
- **Intermediate complexity**
  - Large volumes (895 K cases)
  - Medium-size
  - 60% (ultimately handled by Prosecution/ courts)
- **Complex cases**
  - Small number of cases (5 K)
  - Very large dossiers (some multiple DVD-Rs)

2005 statistics

Criminal Justice System
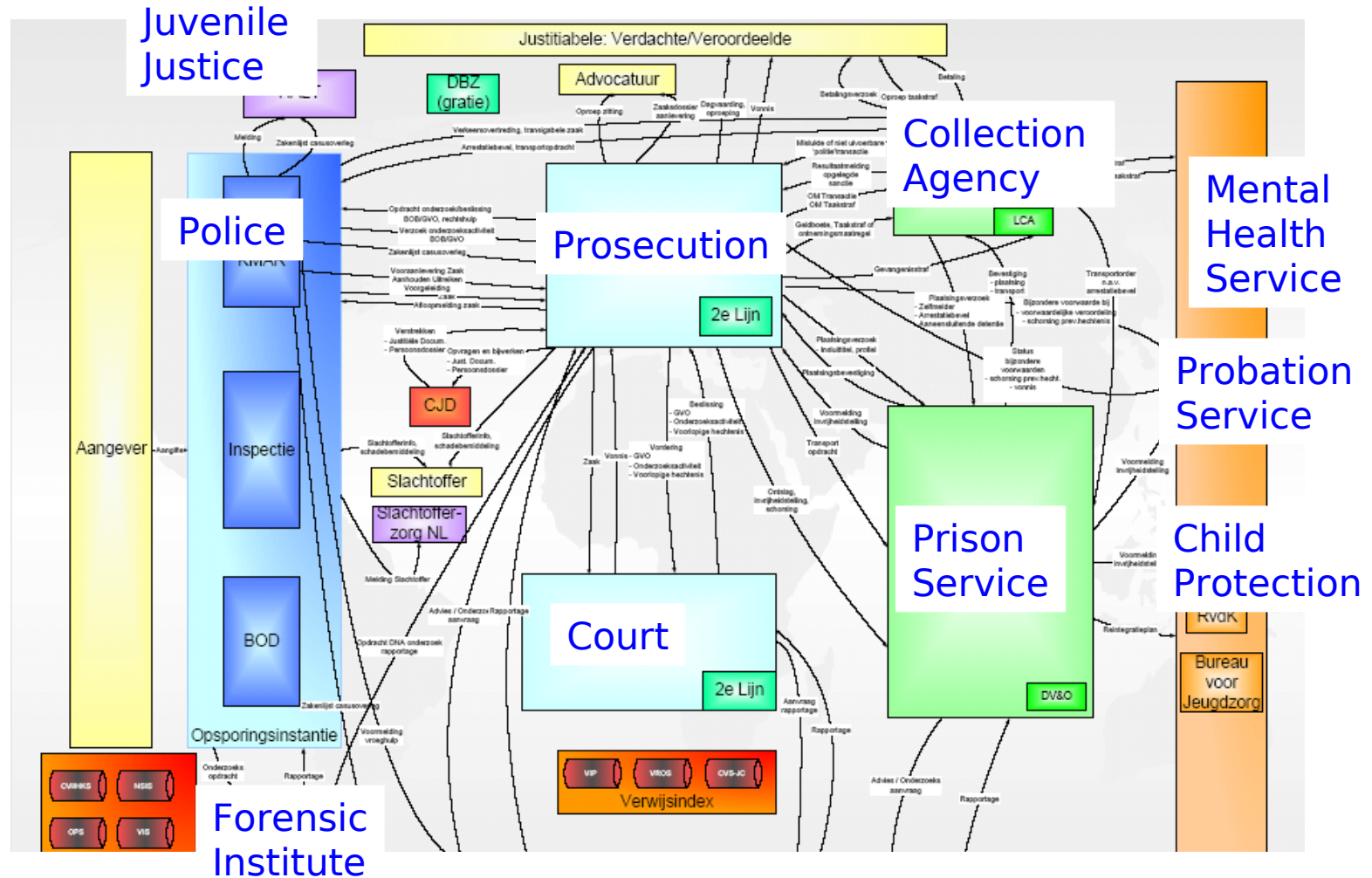
"Partners in crime"

- Just Stam, Director general (**L**)
- Piet-Hein Donner, Justice Minister **(M)**
- Johan Remkes, Interior Affairs Minister (**R**)

OASIS Standards

- Business Collaboration
  - ebXML Business Process (ebBP) to model (monitor) complex choreographed interactions
- Business Information
  - UBL Meta-Model (Core Components, ISO 11179)
  - UBL Naming and Design rules for XML Schema
- Messaging
  - ebXML Messaging 2, ISO 15000-2
- Evaluating DSS, BIAS

ebBP

4.6 Invordering rijbewijs

Interactie processen routinezaken
Versie: 0.3

Politie	OM	ZM	RDW

Start

jbewijs

nelding Inhouding/teruggave

```xml
<!-- Demand surrender of driver license -->
<BusinessCollaboration name="Demand surrender of driver license"
        nameID="BC-ID-DemandSurrenderOfDriverLicense">
        <Role name="Police" nameID="IR-ID-Police"/>
        <Role name="Prosecution" nameID="IR-ID-Prosecution"/>
        <Role name="Court" nameID="IR-ID-Court"/>
        <Role name="RDW" nameID="IR-ID-RDW"/>
        <TimeToPerform/>

        <Start nameID="ID-IR-Start">
                <ToLink toBusinessStateRef="ID-IR-ReportDemandSurrenderOfDriverLicense"/>
        </Start>

        <BusinessTransactionActivity name="ReportDemandSurrenderOfDriverLicense"
                nameID="ID-IR-ReportDemandSurrenderOfDriverLicense"
                businessTransactionRef="ID-BT-ReportDemandSurrenderOfDriverLicense"
                hasLegalIntent="true">
                <TimeToPerform/>
                <Performs currentRoleRef="IR-ID-Police"
                        performsRoleRef="ReportDemandSurrenderOfDriverLicenseInitiator"/>
                <Performs currentRoleRef="IR-ID-Prosecution"
                        performsRoleRef="ReportDemandSurrenderOfDriverLicenseResponder"/>
        </BusinessTransactionActivity>

        <Transition>
                <FromLink fromBusinessStateRef="ID-IR-ReportDemandSurrenderOfDriverLicense"/>
                <ToLink toBusinessStateRef="ID-IR-OfficialReportDemandSurrenderOfDriverLicense"/>
        </Transition>
```
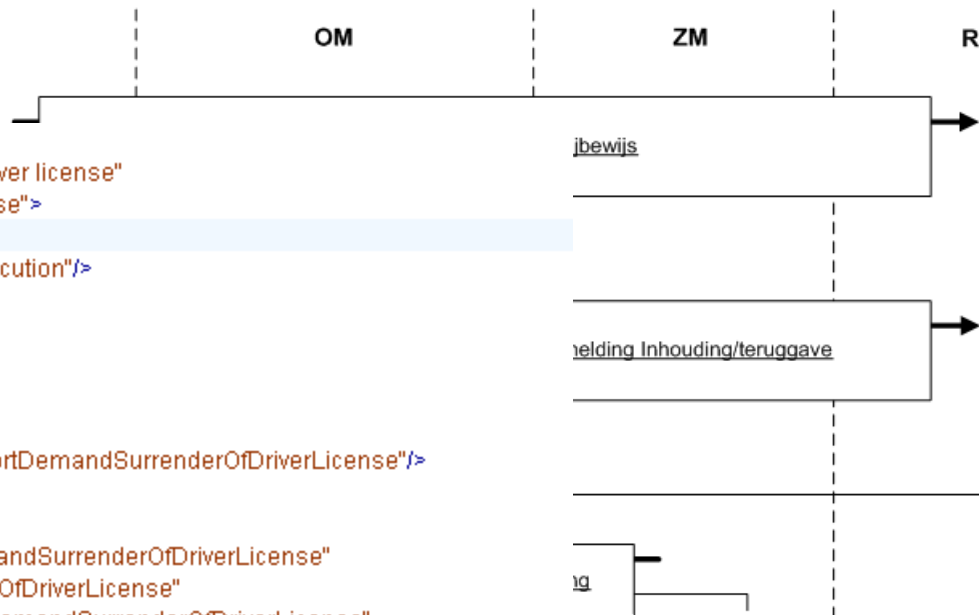
Kenmerken bestuurder voertuig

ISO 11179 / UBL

Aanduiding:	**Aanleiding verdenking**
Property:	**Aanleiding Verdenking**
Property qualifier:	
Object class:	Delictspecifiek (art. 8 WvW)
Object class qualifier:	
Representation:	Code
Repr. tabel:	Kenmerken bestuurder
Definitie:	Aanduiding van het gedrag, de uiterlijke kenmerken of andere indicaties die een opsporingsambtenaar deden vermoeden dat de bestuurder van een voertuig onder invloed van alcohol of een andere stof verkeerde.
Herkomst definitie:	SPI
Formaat:	n2
Layout:	n.v.t.
Toegestane waarden:	Waarden volgens de tabel 'Kenmerken bestuurder'

Definition

Value set

Code	Omschrijving
01	adem riekte naar inwendig gebruik alcoholhoudende drank
02	kennelijk onder invloed van een stof als bedoeld in art. 8, 1ᵉ lid van de Wegenverkeerswet 1994, namelijk………..
03	bestuurder had bloeddoorlopen ogen
04	bestuurder sprak met dubbele tong
05	bestuurder was onvast ter been, namelijk…………..
06	*resultaat ademtest*
07	anders, namelijk………….

Commentaar:	n.v.t.

Derived UBL NDR compliant XML Schema

Generated Element

Value from code list

```xml
<xsd:element ref="AanleidingVerdenkingCode" minOccurs="0" maxOccurs="1">
  - <xsd:annotation>
    - <xsd:documentation>
      - <ccts:Component>
          <ccts:CategoryCode>BBIE</ccts:CategoryCode>
          <ccts:DictionaryEntryName>Delictspecifiek Art 8 Wvw. Aanleiding Verdenking.
             Code</ccts:DictionaryEntryName>
          <ccts:Definition>Aanduiding van het gedrag de uiterlijke kenmerken of andere
             indicaties die een opsporingsambtenaar deden vermoeden dat de bestuurder van
             een voertuig onder invloed van alcohol of een andere stof
             verkeerde.</ccts:Definition>
          <ccts:ObjectClass>Delictspecifiek Art 8 WvW</ccts:ObjectClass>
          <ccts:PropertyTerm>Aanleiding Verdenking</ccts:PropertyTerm>
          <ccts:RepresentationTerm>Code</ccts:RepresentationTerm>
      </ccts:Component>
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```
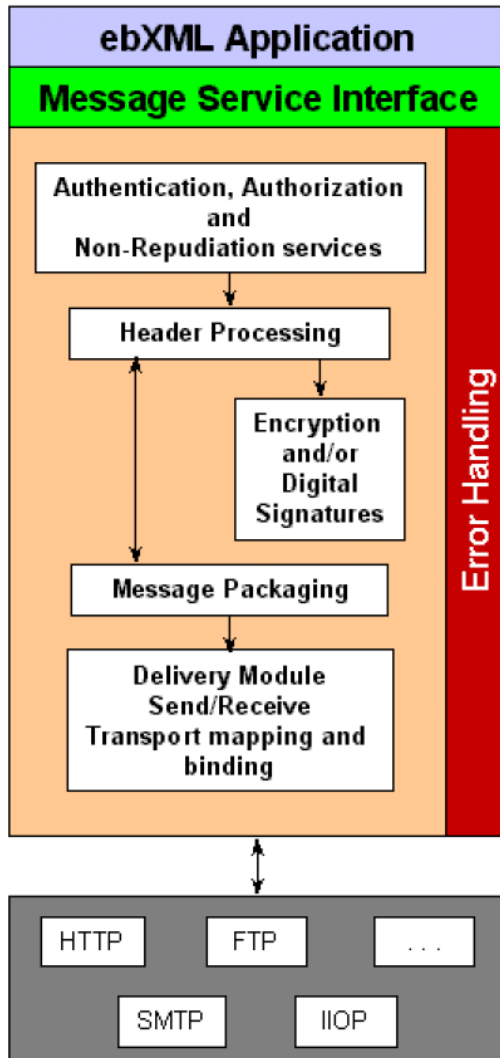
Messaging Requirements

- Modern, Internet- and XML-based protocol
- Any (combination of) payload(s)
- Open Standard with multiple implementations (commercial and open source)
- Verified multi-vendor interoperability
- Stable, self-contained
- Reliable and non-reliable communication
- Multiple security levels
- Asynchronous including low latency
- Multi-hop (transparent intermediaries)
- References in large (public sector) projects
- Consistent with national and European policy

ISO/TS 15000-2:2004
Electronic business eXtensible Markup Language (ebXML)
Part 2: Message service specification (ebMS)

International Organization for Standardization

ebXML Application

Message Service Interface

Authentication, Authorization and Non-Repudiation services

Header Processing

Encryption and/or Digital Signatures

Message Packaging

Delivery Module Send/Receive Transport mapping and binding

Error Handling

HTTP FTP . . .

SMTP IIOP

Internet standards
- Internet Message Format
- MIME
- MIME Multipart/Related
- SOAP 1.1
- SOAP with Attachments
- HTTP(S)

Plus
- Standardized business process and adress information in SOAP header
- Robust reliable messaging protocol
- Security at transport and content-level

OASIS 🔒

XML representation for structured (metadata) information

Electronic forms as PDF documents
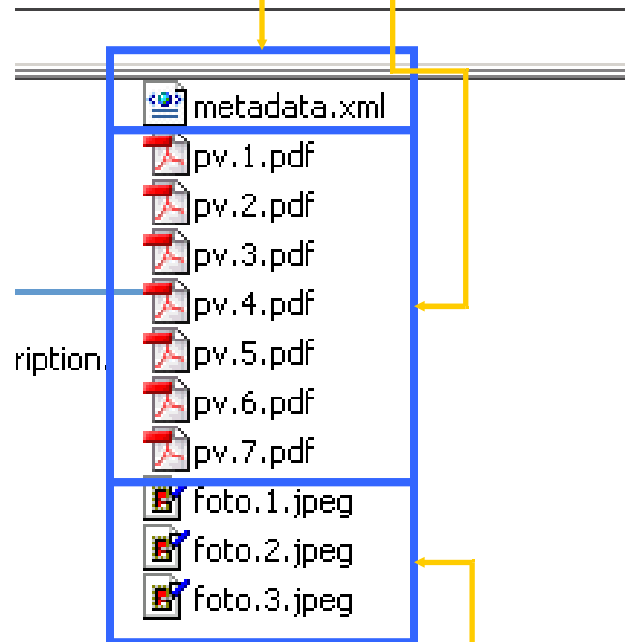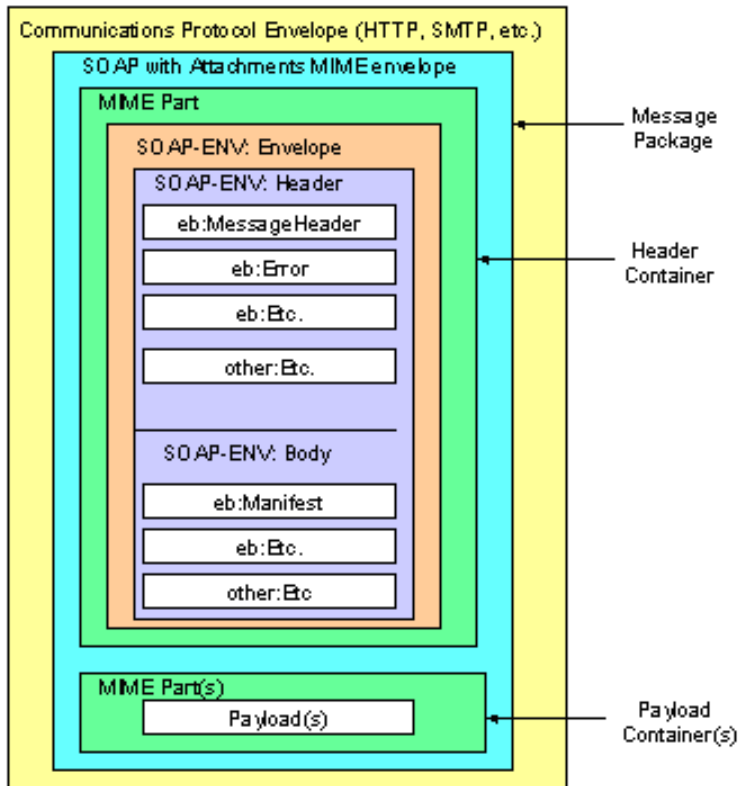
Other digital data

Status

- ebMS2 profile adopted as standards in
  - Criminal Justice system (July 2005)
  - Justice (April 2005)
  - Two related communities
- Two major hubs in production (January 2006)
- A dozen organization deployments
- Two interactions in production use today
- Two dozen interactions in various stages of development/planning
  - Ranging from mere thousands to tens of millions messages per year

National e-Government Initiatives

- National registries initiatives
  - Ten core registries for citizens, businesses, buildings, topography, addresses, land registry, vehicle, income, house

- Messaging technical specification
  - Three profiles of ebMS2: non-reliable-TLS, reliable-TLS, XML security

- Proof-of-concept for Citizen Registry
  - Successfully tested software scalability of 42-90 ebMS2 messages/second (July 2006).

URL
http://www.stroomlijningbasisgegeven

National Messaging Infrastructure (OSB)

- Follow-on from work on National Registries profiles

- Messaging infrastructure to connect national registries to "sector hubs" and to 450 municipalities

- Combined set of SOAP and ebMS2 profiles April 2007

- Deployment in H2 2007

Conclusion

- ▪ Demonstrated successful use of standards developed for B2B e-Commerce in a very different domain
- ▪ Adoption in some sectors moving to production
- ▪ Adoption now extending to national level

Q&A

- Pim van der Eijk
  - http://www.sonnenglanz.net/contact.en.html
  - Mobile +31 6 22502011