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Introduction

- **Why Trustedbird ?**
- **What is Trustedbird ?**
- **Services provided by Trustedbird**
- **Demonstration**
- **Conclusion**



Why Trustedbird ?

- **Main goals**
 - **Initiate an open source community**
 - **Mail client for the military, industry, administration and civilian environments**
- **PEA Project (PEA COMLL)**
- **Participants**






What is Trustedbird ?

- **Trustedbird is a secure mail client**
- **TrustedBird is based on Thunderbird**
- **Trustedbird is open source**
- **All modules are distributed under free software licenses**
 - **MPL version 1.1+,**
 - **GPL version 2+**
 - **LGPL version 2.1+**
- **Trustedbird is cross platform**
- **Trustedbird is based on**
 - **Open standards**
 - **IETF Standards (RFC)**



TrustedBird - roadmap

- **Start of project (2006)**
 - State of the art
 - Definition of technical and fonctionnal scope
 - Validation of the military requirements
- **Study of messaging clients**
 - ⇒ Mozilla Thunderbird 
- **Study of different types of licenses**
 - ⇒ MPL 1.1+, GPL 2+, LGPL 2.1+
- **On january 2007, first developments**



TrustedBird - roadmap

- **First release on may 2007, version 0.1**
 - Mail client, MDN, DSN, basic functionality
 - ⇒ Milimail 
- **Second release on july 2008, version provided with security extensions**
- **On march 2009**
 - ⇒ TrustedBird 
 - Specifications of the latest features
- **On october 2010, final release**



Services provided by Trustedbird

- **2 modes of development:**

- Patches



- Add-ons



- **Services**

- **Security services**



- Security label

- request receipts

- SASL external

- Secure headers

- **Directory services (Multi LDAP, Directory contact tabs ...)**



- **Notification services (DSN, MDN with deletion receipt)**



- **Advanced format services (XIMF)**

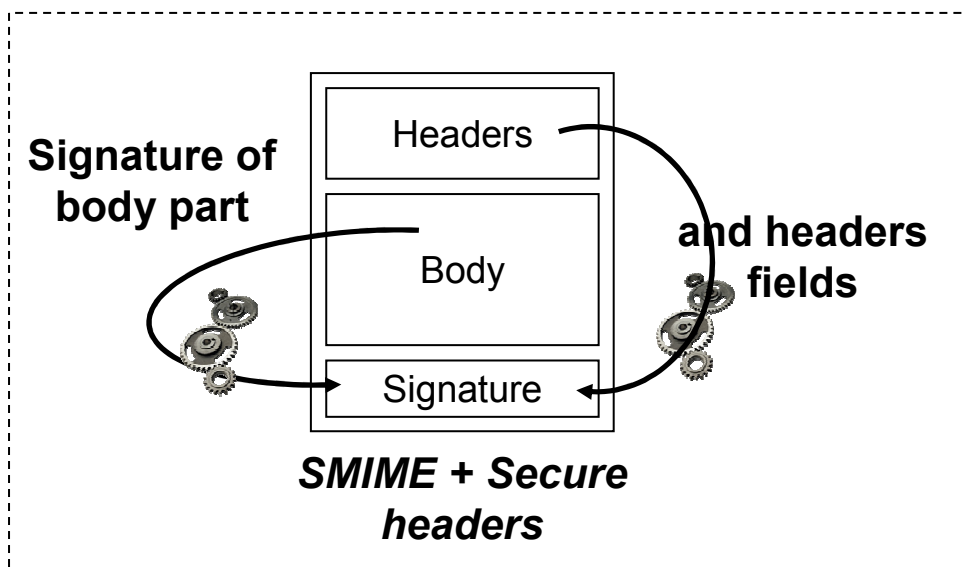


- **Others services**



Services provided by TrustedBird – Secure headers

- **Secure headers**
 - **Extension of S/MIME**
 - **Work of DGA MI**



The screenshot shows two windows from an email client. The top window is titled "Message Security" and contains the following text:

Message Signed
This message includes a valid digital signature. The message has not been altered since it was sent.
Signed by: laurent.calleux
Email address: laurent.calleux@defense.gouv.fr
Certificate issued by: CATEST
[View Signature Certificate](#)

Message Not Encrypted
This message was not encrypted before it was sent. Information sent over the Internet without encryption can be seen by other people while in transit.

Message Not Triple Wrapped
This message was not triple wrapped before it was sent.

Secure Headers
[View Secure Headers](#)

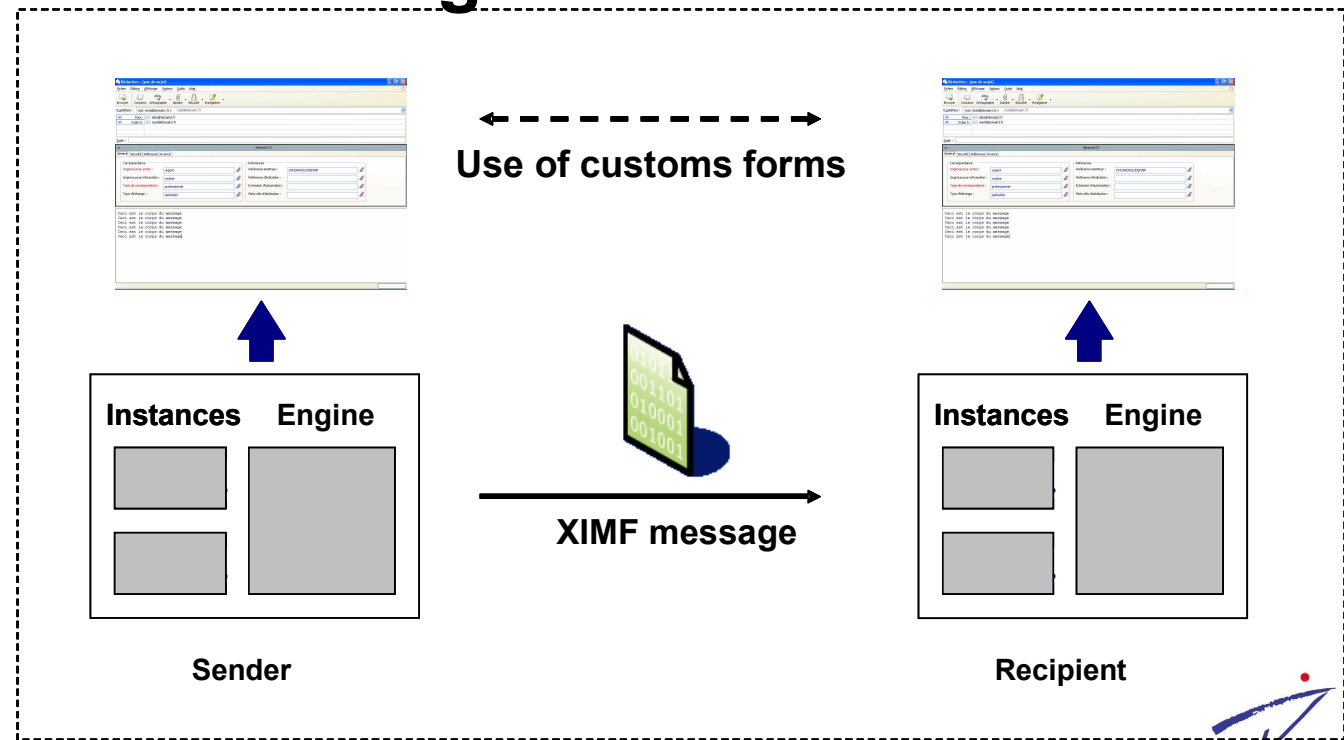
The bottom window is titled "Secure Headers List" and contains a table with the following data:

Name	Value	Status	Validity
X-XIMF-Primary-Precedence	routine	Duplicated	✓
X-XIMF-Correspondance-Type	private	Duplicated	✓
X-XIMF-Security-Policy-Identifier	1.2.840.113549.1.9.15.7.2	Duplicated	✓
X-XIMF-Security-Classification-Identifier	1	Duplicated	✓
To	org1@defense.gouv.fr	Duplicated	✓
From	calleux@defense.gouv.fr	Duplicated	✓
Subject	sqdsfids	Duplicated	✓



Services provided by TrustedBird - XIMF

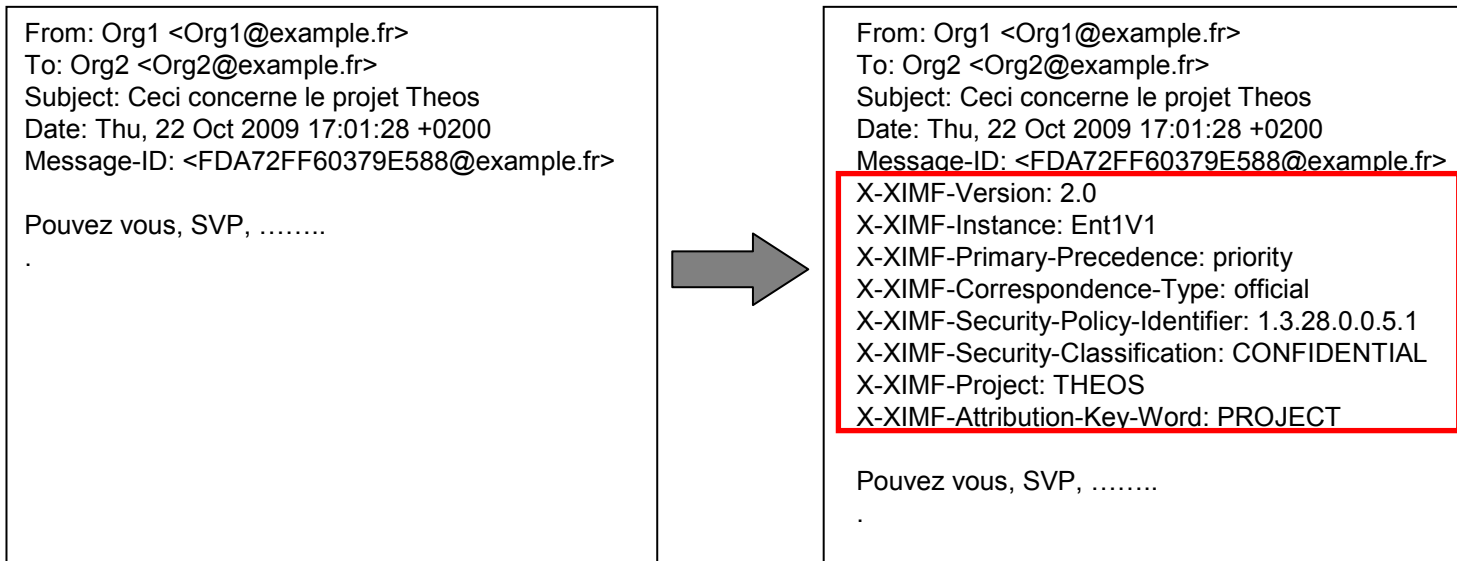
- eXtended Internet Message Format
- XIMF = Engine + instance(s)
- XIMF instance = Exchange format + forms
- XML technology





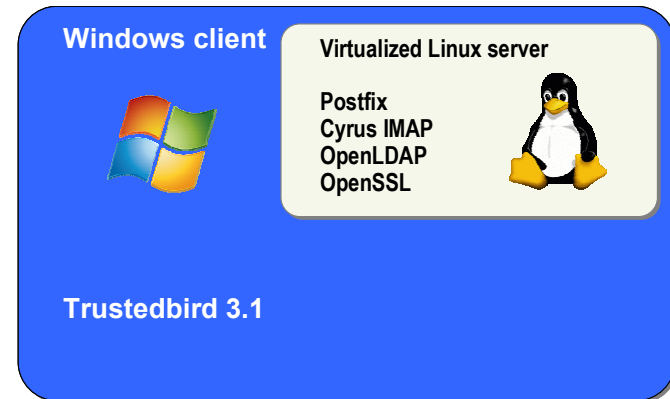
Services provided by TrustedBird - XIMF

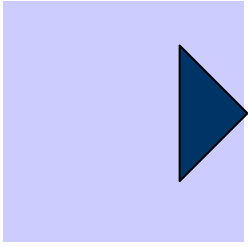
- Custom header fields
- Use of XIMF and secure headers
- Work of DGA MI



Demonstration

- **Demonstration environment**
- **Trustedbird 3.1.5**
 - S/MIME signature
 - Secure headers
 - XIMF,
 - Multi LDAP
- **Thunderbird 3.1.5**
- **Scenarios**
 - signed message and verification
 - signed message with secure headers
 - signed XIMF message with secure headers
 - Access to multiple LDAP servers





Demo





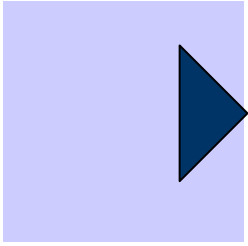
Conclusion and future



- **Concept of toolbox**
- **Feedback of open source community management**
- **Trustedbird will be the messaging client of several french MoD systems**
- **Integration of patches in the future release of Thunderbird (if possible) to avoid a fork**
- **Some components are already used in ministries**
- **Companies integrate TrustedBird in their solutions**

<http://www.trustedbird.org>





Thank you for your attention

Questions

