OFTP Version 2

Carl Marquardt

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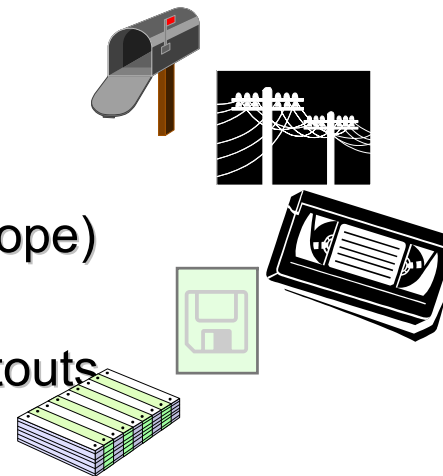
Overview

▶ **Current status**

▶ **Mission**

▶ **Odette special working group**

▶ **New features and specifications**

▶ **Project status**

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Current Status of data transfer methods worldwide

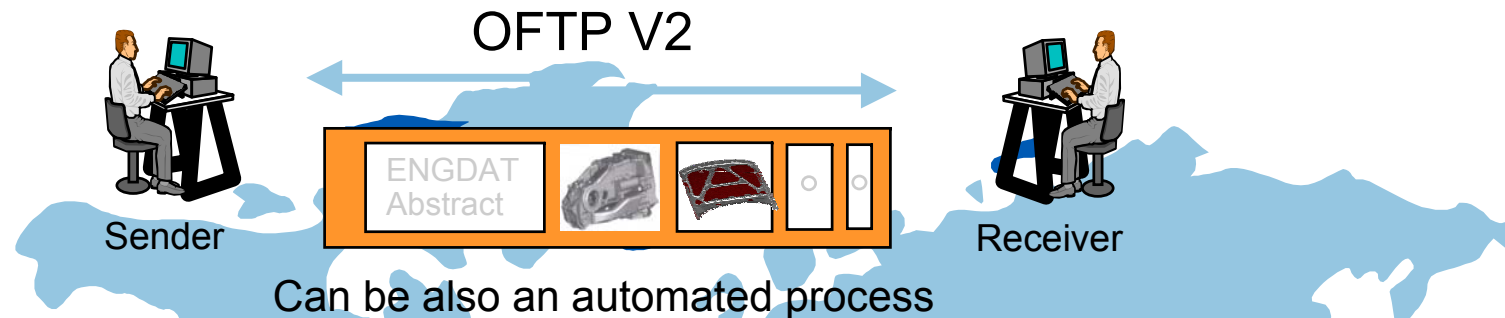**Many different communication methods**

- Mail-Boxes
- OFTP Systems (mostly in Europe)
- E-Mail
- Offline / Physical Media / Printouts
- OEM–proprietary solutions

Unified method not available

Increasing cost, time to market pressures

Mission

OFTP V2

Sender — ENGDAT Abstract — Receiver

Can be also an automated process

Extend the OFTP standard including

- Include USA & Japan into communication environment

- Security measurements (encryptions)

- Public Internet as a transport carrier

- Extend Virtual File Name

- Supporting large files > 10 GByte (current limit of OFTP)

to become an international (SASIG & ODETTE) standard

ODETTE special working group "OFTP V2"

- Founded in May 2005 after 2 meetings of SASIG Communications ad-hoc group

- Members are System vendors (open for international system vendors) and ODETTE/SASIG members

- Goals:

  - Define a project within ODETTE TC
  - Publish the standard as a new ODETTE Standard
  - Extend existing OFTP to meet SASIG requirements
  - Define specifications for software vendors (White Paper)
  - Carrying out basic tests with software prototypes
  - Prove deployment in different application environments, e.g. CAD data exchange, logistic applications, etc.

New features and specifications of OFTP V2

- Should contain the present OFTP features

- Will be capable to use following transport media

  - TCP/IP over Internet
  - TCP/IP over VPN, ENX, ANX, JNX, GNX, ….
  - X25 / ISDN

- Security measurements

  - Authentication
  - Session Encryption of protocol elements
  - Encryption / Decryption of files from sender to receiver
  - Using standard encryption methods

- Meeting special SASIG requirements

  - Extending virtual file name
  - Supporting transport of large files (> 10 GByte)

Project status

- Two meetings of the Odette special working group so far

- Some basic methods have been developed

- First tests have been carried out

- Security issues have not been solved yet (in discussions)

- Installation of PKI infrastructure not yet discussed

- Harmonizing with requirements of the Odette TC working group needs to be done

- Impact of ANX, ENX, JNX, GNX needs to be discussed

  Working group makes good progress, however for a high quality solution of OFTP V2 more time is needed

Next step: Definition of a White Paper / RFC till end of 2005 for publishing in 2006

Next meeting: 18.-19.10.2005 at Peterborough, UK

Highlights / Benefits

- One worldwide communication standard for CAD data exchange

- Internet as a carrier worldwide available

- Reliable and secure method for transmission

- Specially designed for secure large volume data transfer

- Batch data transfer over Internet for automated processes possible

- Low cost solution (existing Internet gateway can be used)

- Low cost investment if OFTP V2 software is worldwide used

gedas
your IT partner

Please contact: Carl Marquardt
gedas deutschland GmbH
Pascalstraße 11
10587 Berlin
Deutschland
Phone.: +49-30-3997-1233
Fax.: +49-30-3997-1994
gedas Info-Line: +49-1805-33-3646
e-mail: info@gedas.de

For more info go to http://www.gedas.de

Carl Marquardt
gedas deutschland GmbH
Alessandro-Volta-Str. 11
38440 Wolfsburg
Deutschland
Phone.:   +49-5361-186-231
Fax.:   +49-5361-186-996
Mobile: +49-175-184 7110