

# **Managing e-Standards and Interfaces with GEFEG`s Solutions**

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Introduction  
for the Maritime Sector

# About GEFEG

- Specialized B2B/EDI/EAI design time solution provider
- Actively involved in national and international meta data standardization
- International customer base (750+)
- Global reach (35 countries)
- Company founded in 1990
- Privately owned
- Based in Berlin, Germany

# GEFEG Software and Technologies in Use by Major Players

<b>EU DG TAXUD</b>	UCC-DA, UCC-IA
<b>WCO</b>	WCO Data Model
<b>UN/CEFACT</b>	Production of Core Component Library and XML schemas, and QA for EDIFACT directories
<b>IATA, FIATA</b>	eTir - UN/CEFACT TBG3 transport documents
<b>GS1</b>	Production of GS1 EANCOM®
<b>SWIFT</b>	Standard Developer Kit (SDK)
<b>CEN/BII</b>	Development and publication of European supply chain standards

# GEFEG – Standards Experts

UML: CCTS, CICA, ISO 20022,  
WCO Data Model, others

XML: GS1, ISO 20022.MX, OAGIS,  
SEPA, RosettaNet, UBL, any  
XSD

EDI: GS1 EANCOM®, EDIFACT,  
EDIFOR, Odette, SAP IDoc,  
SWIFT MT, Tradacoms, VDA,  
X12, corporate standards



# The GEFEG.FX User Community (Selection)

## ▪ Customs

- Canada
- Finland
- Germany
- Ireland
- The Netherlands
- New Zealand
- Sweden
- Thailand

## ▪ Governments & Administrations

- EU DG TAXUD
- US Defense Contract Management Agency
- Bundesnetzagentur
- Svenska Kommunförbundet

## ▪ Standard Developing Organizations

- World Customs Organization
- GS1
- S.W.I.F.T
- UNECE

## ▪ Information Technology

- SAP
- Software AG USA
- Telekom Deutschland
- T-Systems International
- XILINX Ireland

## ▪ Maritime

- DAKOSY  
Datenkommunikationssystem AG
- dbh Logistics IT AG

## ▪ Finance & Insurance

- Deutsche Bank
- Deutsche Bundesbank
- Euroclear
- Nordea Bank
- SIX Group

## ▪ Electronics

- Hewlett Packard
- Philips
- Robert Bosch
- Sharp Electronics
- Siemens

## ▪ Automotive

- BMW
- Continental Tires
- Goodyear Dunlop Tires
- Volkswagen AG
- Volvo

## ▪ Logistics & Transport

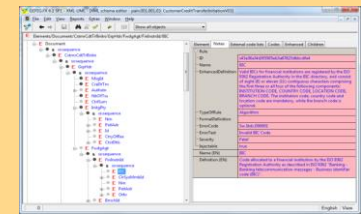
- DHL
- IATA
- Kühne + Nagel
- Rhenus
- Schenker



# GEFEG`s Portfolio

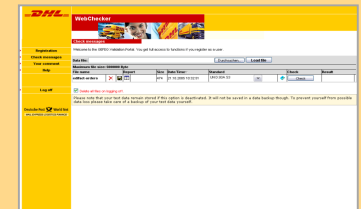
- **GEFEG.FX**

Message Design Editor: management of e-Standards for the complete lifecycle, guidelines, mappings, test data, local validation, publication



- **GEFEG.Portal**

Web solution for publication, validation, rollout support and collaboration with 24/7 availability



- **GEFEG.Content**

Delivery of standards, such as EDIFACT, GS1 eCom Standards, IDoc, ISO20022, OAGIS, UBL, VDA, WCO Data Model, UN/CEFACT XML, X12 etc.

- **GEFEG.Services**

Professional services, such as business consulting, concepts, training courses, workshops



# GEFEG.FX Benefits

## **Efficiency and quality gains**

through the use of single source principle, by reducing manual documentation and maintenance work and fast and easy testing

## **Minimizing data redundancy & maximizing compliance**

by reuse of data and guide technology concept for specifications

## **Collaboration of project teams, business partners and communities**

by using central repository and version control features

## **Minimizing update and migration efforts**

for updates and new releases thanks to document comparison features and guide technology concept





# Easy 4-Step Message Compliance Check

The screenshot shows the GEFEG Validation Portal interface. At the top, there's a navigation bar with links: Register now!, Check messages, Your comment, Download area, and Log off. Below this, a 'Check messages' section contains a 'Data file:' input field with a 'Durchsuchen...' button and a 'Load file' button. A table below lists files with columns for File name, Date/Time, Size, Standard, Check, Result, and Report. A 'Log off' button and a checkbox for 'Delete all files on logging off.' are at the bottom. A 'Getting started...' box lists steps: 1. Select and load message, 2. Select standard, 3. Check message, 4. View/save check results, 5. View schema specification, 6. Represent test messages in PDF form, 7. Save PDF form. Numbered callouts 1-7 are placed over the interface to correspond to these steps.

File name	Date/Time	Size	Standard	Check	Result	Report
sampleMessage-OK.msg	2013-07-05 11:21:29	1,89 kB	GOVCBR,R1	Check		
sampleMessage-error.msg	2013-07-05 11:21:38	1,89 kB	GOVCBR,R1	Check	Text / HTML 3 Errors	
EX1_Declaration_Cancel.xml	2013-07-05 21:58:16	1,21 kB	TSW Export Document,WCO3.2 - NZ1.1	Check	Text / HTML 2 Errors	
EX1_Declaration_Original.xml	2013-07-05 21:58:25	12,51 kB	TSW Export Document,WCO3.2 - NZ1.1	Check	Text / HTML 23 Errors	

## Validate Messages

- 1 Load Message
- 2 Select Standard
- 3 Check Message
- 4 View/Save Check Results

## Add-ons

- 5 View Schema Specification
- 6 Represent Test Messages in PDF Form
- 7 Save PDF Form

# Enhanced Validation with Business Rules

## Syntax Validation: XML Schema / EDIFACT

- Check for Compliance of XML Instance against XML Specification
- Check for Compliance of EDIFACT message against EDIFACT Specification

## Semantics Validation: Business Rules

- Status of an object (Required, Optional, Repetition etc.)
- Formats of dates, identification numbers etc.
- Dependencies between objects (if-then rules)
- Custom code values and code list refinements

# GEFEG Message Design Portal

## Collaboration – Publication – Validation

The screenshot shows the SEPA Design Time Portal interface. At the top left is the European Union flag logo. The main header is "SEPA Design Time Portal". On the right side of the header, there are links for "Update registration data", "Log off", and "Help". Below the header is a navigation bar with tabs: "News", "Publication", "CRs", "Workspace", "Validation", "Tasks", and "Admin". A yellow callout box points to these tabs and provides the following descriptions:

<b>News</b>	Communicate with the Portal's user community by providing a News section.
<b>Publication</b>	Study and download specifications, schema files and other deliverables in this section.
<b>CRs</b>	Enter Change Requests, follow-up and view the most recent status.
<b>Workspace</b>	See the editable artefacts which are the source for the deliverables in Publication and Validation, provided you have editing rights.
<b>Validation</b>	Upload instance files to validate against specifications.
<b>Tasks</b>	Organize the internal work of users, provided you have editing rights (optional).
<b>Admin</b>	Configure the Portal in this section, if you are the administrator.

The left sidebar of the portal shows "Aktuelles" (Current) with a list of news items from 06/2013 and 12/2012. The bottom left corner of the portal displays "© 2013, GEFEG mbH".

# Examples of Publicly Available Portals

The image displays three screenshots of publicly available portals. The top screenshot is the DHL WebChecker, which features a yellow header with the DHL logo and a navigation menu on the left. The middle screenshot is the STUZZA Validation.Portal, which has a blue header with the STUZZA logo and a navigation menu on the left. The bottom screenshot is the SIX Payment Services Validation.Portal, which has a white header with the SIX logo and a navigation menu on the left. Each screenshot shows a 'Check messages' section with a table of file names, sizes, dates, standards, and results.

File name	PDF form	Size	Date/Time	Standard	Check	Result
edfact-ordere		474	21.10.2006 10:32:51	UND-ISA-S3		
beispiel.xml		4884	10.10.2007 09:07:33	pecc.container.003		Text / HTML

Datenname	Datum/Zeit	Größe	Standard	Prüfen	Ergebnis	PDF Formular
pain_001_bespiel_1.xml	18.04.2011 13:48:24	3.99 kB	pain.002.001.03.ch.02.Test	Prüfen	Text / HTML 2 Fehler 2 Hinweise	
pain_002_bespiel_1.xml	18.04.2011 13:47:23	5.4 kB	pain.002.001.03.ch.02.Test	Prüfen	Text / HTML 2 Fehler 2 Hinweise	
pain_001_ct_bespiel_0k.xml	18.04.2011 14:24:43	1.01 kB	camt.002.001.02.1.0.Test	Prüfen	Text / HTML 1 Fehler	
pain_002_ct_bespiel_nok.xml	18.04.2011 14:24:59	1.93 kB	camt.003.001.02.1.0.Test	Prüfen	Text / HTML 1 Fehler	
camt_003_bespiel_1.03L	23.04.2012 08:48:46	3.22 kB	camt.004.001.02.1.0.Test	Prüfen	Text / HTML 1 Fehler	
camt_003_bespiel_nok_1.xml	23.04.2012 08:47:16	2.85 kB	pain.008.001.02.ch.01.Test	Prüfen	Text / HTML / pain.002 2 Fehler 2 Hinweise	

- [DHL Web Checker](#)
- [STUZZA Validation.Portal \(SEPA Austria\)](#)
- [SIX Payment Services](#)

Other portals, used by infrastructure providers, for trading partner on-boarding and versions roll-out, are not public.

# GEFEG.Portal Benefits

## **Quality assurance**

by providing a self-service onboarding service for business partners, suppliers or eCommunity members

## **Increased interoperability and compliance**

by providing a managed service with the original data and supported by reference documentation

## **Higher user satisfaction**

by providing a permanently available compliance service (24/7) without investments in training, soft- or hardware

## **Speeding time to market of implementations**

By accelerating error search, improving error evaluation and thus facilitating errorless messages

# Kontakt

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**Thanks for  
your attention.**