TECHNICAL REPORT

RAPPORT TECHNIQUE

TECHNISCHER BERICHT

CEN/TR 17419-2

August 2021

ICS 03.060; 35.240.20

English Version

Digital information interchange in the insurance industry - Transfer of electronic documents - Part 2: Implementation of EN 17419-1 in Open API 3.0 specification

Digitaler Informationsaustausch in der Versicherungswirtschaft - Übertragung elektronischer Dokumente - Teil 2: Implementierung der EN 17419-1 in Open API 3.0 Spezifikation

This Technical Report was approved by CEN on 11 July 2021. It has been drawn up by the Technical Committee CEN/TC 445.

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Contents

European foreword

This document (CEN/TR 17419-2:2021) has been prepared by Technical Committee CEN/TC 445 "Digital Information Interchange in the Insurance Industry", the secretariat of which is held by DIN.

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Introduction

The EN 17419-1:2020, *Digital Information Interchange in the Insurance Industry — Transfer of electronic documents — Part 1: Process and Data Model*, defines the transfer of electronic documents between stakeholders in the insurance industry (for example between insurers and intermediaries):

- the semantic process for the transfer of documents that may be transferred as an attached file; and

- a limited number of meta data describing the document.

The definitions are described in the standard on a semantic level with process and data models in a syntax-neutral format independent from its representation in a concrete implementation syntax.

This document exemplifies a concrete implementation of the EN 17419-1:2020 as an OpenAPI specification. The OpenAPI syntax is published by the OpenAPI Initiative, an open-source collaboration project of the Linux Foundation, and is a specification for machine-readable interface files for describing, producing, consuming, and visualizing RESTful web services.

This document is a guide for organizations that want to implement the EN 17419-1:2020. Even more, the specification contained in this document can be directly implemented with OpenAPI tools that can automatically generate code, documentation and test cases.

All stakeholders that want to implement EN 17419-1:2020 will benefit from the implementation guide described in this document due to:

- Uniform implementation of EN 17419-1:2020 across the industry, based on a common technology.

- Avoidance of divergent implementations, thus avoiding incompatible digital interfaces between the stakeholders.

- Implementation for RESTful web services, a common micro-service technology.

- Specification in OpenAPI syntax, a common basis for the definition of RESTful web services.

- Automatic generation of code, documentation and test cases, based on OpenAPI tools.

- Facilitated implementation will accelerated the application of EN 17419-1:2020.

- Facilitated implementation will accelerated the usage of EN 17419 by SMEs.

1 Scope

This document specifies a concrete REST webservice API description of the processes and data (see EN 17419-1:2020 for more information) as an OpenAPI definition specified by the OpenAPI specification.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 17419-1:2020, *Digital Information Interchange in the Insurance Industry — Transfer of electronic documents — Part 1: Process and Data Model*

3 Terms, definitions and abbreviations

3.1 Terms and Definitions

For the purposes of this document, the terms and definitions given in EN 17419-1:2020 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at https://www.electropedia.org/

- ISO Online browsing platform: available at https://www.iso.org/obp

3.2 Abbreviations

API	Application Programming Interfaces
JSON	JavaScript Object Notation
OAS	OpenAPI Specification
OAI	OpenAPI Initiative
REST	Representational State Transfer
SOAP	Simple Object Access Protocol
XML	Extensible Markup Language
YAML	Yet Another Markup Language YAML Ain't Markup Language

4 Technical basis for OpenAPI definition

4.1 Cloud services and REST

In a more and more communication based and service orientated IT infrastructure, the ease of use, implementation, operation and maintenance of IT-services as main economic success factors determine the type of underlying architectures and tools to be used. Cloud enabling of services as one strategic aspect allows to reduce the time to market of products while focussing on core competence - the business aspects - of IT activities.