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Digital Information Interchange in the Insurance Industry - Part 2: Implementation of EN 17419-1 in Open API 3.0 specification

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

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Digital Information Interchange in the Insurance Industry - Part 2: Implementation of EN 17419-1 in Open API 3.0 specification

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

This draft Technical Report is submitted to CEN members for Vote. It has been drawn up by the Technical Committee CEN/TC 445.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (FprCEN/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.

This document is currently submitted to the Vote on TR.

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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 Technical Report 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 Technical Report 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 <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://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.

REST APIs as a software architecture describe interfaces to communicate through the HTTP(S) protocol between distributed client and server systems as an alternative to SOAP. RESTful implemented services are stateless. That means, all data required for creating a service response is transmitted in the corresponding service request. Advantages of RESTful services are a better visibility, reliability and scalability.

4.2 JSON data format

IETF RFC 8259, The JavaScript Object Notation (JSON) Data Interchange Format (<https://tools.ietf.org/html/rfc8259>)

ECMA-262, ECMAScript® Language Specification (<https://www.ecma-international.org>)

With REST-Services usually the JSON data format, as a derivation or concretization of the YAML format is used, which is very slim and better human readable in contrast to the structure description orientated language of XML. JSON is more a syntactical convention for describing data in a given context by allowing an easy machine processing and parsing because of its strict structure definition.

Based on the JavaScript Programming Language Standard ECMA (<http://www.ecma-international.org>), the data interchange format JSON was first specified by Douglas Crockford in 1999.

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4.3 YAML data format

Oren Ben-Kiki – Clark Evans – Ingy döt Net, YAML Ain't Markup Language (YAML™) Version 1.2 (<https://yaml.org/spec/1.2/spec.html>)

YAML is a simplified markup language to describe data in a more human readable way. It was invented in about 2001 and the most current version 1.2 (3rd Edition) was published in 2009.

YAML can be viewed as an easy to implement and use natural and consistent superset of JSON. Every JSON file is also a valid YAML file. The main focus on YAML is to provide a programming language independent data interchange format as a technical markup language with a maximum in human readability and information providing.

It consists mostly of a kind of key-value mechanism where values also may be lists (arrays) itself.

4.4 OpenAPI Specification

The OpenAPI Specification (OAS, <https://www.openapis.org>) defines a vendor neutral and human readable interface description for REST APIs, originally based on the Swagger Specification (Open Source Framework Swagger for HTML-Webservices) and was provided in 2016 by the OpenAPI Initiative (<https://www.openapis.org>). Further development and maintainance is done by the initiative and is supported of the Linux Foundation.

OpenAPI descriptions of REST APIs are implemented in OpenAPI documents. An OpenAPI document that conforms to the OpenAPI Specification is itself a JSON object, which may be represented either in JSON or YAML format.

There is an uncountable number of tools available in the world wide web for creating or dealing with OpenAPI documents. One important Open Source tool is the Swagger-Editor (<https://swagger.io/tools/swagger-editor/>), which allows the creation of OpenAPI conformed REST API definitions and the generation of documentation and code stubs for several client and server programming languages and runtime environments.

5 OpenAPI specification for EN 17419-1:2020

5.1 Introduction

This document describes a sample REST interface of the processes specified in EN 17419-1:2020 for Transfer of electronic documents.

The EN 17419-1:2020 itself defines the processes and the structure (data model) of the transfer of electronic documents and facilitates the transfer of electronic documents between stakeholders in the insurance industry.

This API description concentrates on a synchronous transmission process (through http method POST). Therefore a successful or unsuccessful transmission on a technical level is expressed as a direct (synchronous) response of the webservice request.

5.2 OpenAPI document

Section 7.3 contains the complete API description of a sample REST service as an OpenAPI document in YAML format.

NOTE 1 As the OpenAPI specification defines strict rules for syntax and grammar of OpenAPI documents, so remember to especially keep the indendation of all given YAML and JSON as is to not destroy any consistency and/or semantics.

NOTE 2 Due to compatibility issues to the UN/CEFACT Core Components Library (UN/CCL) on which the data model is based on, in some classes there are several attributes defined but are not allowed to be used in explicit context situations. To take this into account for the classes in question this technical report introduces the construction of base classes containing only mandatory attributes used in all context situations. The classes in situations where all attributes are used are then derived from the base classes. As an example, within the class Communication the attribute URI of type Identifier must only use the attribute Identifier.Content. Therefore IdentifierBase is introduced as base class with only one attribute Content and URI is defined as IdentifierBase instead of Identifier. The derived class Identifier extends IdentifierBase with the other attributes IdentificationScheme, IdentificationSchemeAgency, IdentificationSchemeVersion and may then be used in situations where all attributes of Identifier are used, e. g. for attribute CountryIdentifier in class Location.

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5.3 OpenAPI document in YAML format

```

openapi: 3.0.3
info:
  description: |
    This specification describes a sample REST interface of the processes specified in the European standard EN 17419-1:2020
    for Transfer Of Electronic Documents.

    The European standard (EN 17419-1:2020) itself defines the processes and the structure (data model) of the transfer of
    electronic documents, and facilitates the transfer of electronic documents between stakeholders in the insurance industry.

    This API description implements the EN17419-1 as a synchronous transmission process (post).
    The technical acknowledgement therefore is provided in the transmitInsuranceTransaction response.

    Last edited on 25th, November 2020
  version: '1.1.7'
  contact:
    name: CEN TC445
    url: http://tc445.info
    email: info@tc445.info
  title: TOED - Transfer Of Electronic Documents - Technical Report EN17419-2
servers:
- description: 'localhost:8080'
  url: http://localhost:8080/cen-tc445/TOED/V1
paths:
  /transmitInsuranceTransaction:
    post:
      tags:
      - Insurance Transaction
      summary: |
        Transmits an Insurance Transaction object with all relevant content (meta data and link to binary files). The sender
        prepares the object InsuranceTransaction with its content and transfers this InsuranceTransaction to the receiver.
      operationId: transmitInsuranceTransaction
      responses:
        '200':
          description: |
            successful operation. The details of the transmission are returned in the transmission status message of the
            response within the Event object.
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/Event'
              examples:
                eventSuccessfulExample:
                  $ref: '#/components/examples/eventSuccessfulExample'
        '400':
          description: Invalid Insurance Transaction
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/Event'
              examples:
                eventUnsuccessfulExample:
                  $ref: '#/components/examples/eventUnsuccessfulExample'
      requestBody:
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/InsuranceTransaction'
            examples:
              insuranceTransaction71Example:
                $ref: '#/components/examples/insuranceTransaction71Example'
              insuranceTransaction72Example:
                $ref: '#/components/examples/insuranceTransaction72Example'
              insuranceTransaction73Example:
                $ref: '#/components/examples/insuranceTransaction73Example'
              insuranceTransaction74Example:
                $ref: '#/components/examples/insuranceTransaction74Example'
              insuranceTransaction75Example:
                $ref: '#/components/examples/insuranceTransaction75Example'
              insuranceTransaction76Example:
                $ref: '#/components/examples/insuranceTransaction76Example'
              insuranceTransaction77Example:
                $ref: '#/components/examples/insuranceTransaction77Example'
              insuranceTransaction78Example:
                $ref: '#/components/examples/insuranceTransaction78Example'
            description: Insurance Transaction to transmit to the receiver
            required: true

components:
  schemas:

  CodeBase:
    description: |
      Information used to identify and distinguish uniquely one instance of an object in a code list from all other objects
      within the same code list.
      Base Code object where only attribut Content is needed.
    type: object
    required:
    - Content
    properties:
      Content:

```

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```

    description: 'The unique character string identifying the code.'
    type: string

Code:
  description: 'Information used to identify and distinguish uniquely one instance of an object in a code list from all
other objects within the same code list.'
  allOf:
  - $ref: '#/components/schemas/CodeBase'
  - type: object
  properties:
    CodeList:
      description: 'The identification of a list of codes.'
      type: string
    CodeListAgency:
      description: 'The identification of the agency that maintains the code list. The identification shall be an entry
of UN/CEFACT code list 3055.'
      type: string
    CodeListVersion:
      description: 'The version of the code list.'
      type: string

IdentifierBase:
  description: |
    'Information used to identify and distinguish uniquely one instance of an object in an identification scheme from all
other objects within the same scheme.
Base Identifier object where only attribut Content is needed.'
  type: object
  required:
  - Content
  properties:
    Content:
      description: 'The character string of the identifier.'
      type: string

Identifier:
  description: 'Information used to identify and distinguish uniquely one instance of an object in an identification scheme
from all other objects within the same scheme.'
  allOf:
  - $ref: '#/components/schemas/IdentifierBase'
  - type: object
  properties:
    IdentificationScheme:
      description: 'The identification of the identification scheme.'
      type: string
    IdentificationSchemeAgency:
      description: 'The identification of the agency that maintains the identification scheme. The identification shall
be an entry of UN/CEFACT code list 3055.'
      type: string
    IdentificationSchemeVersion:
      description: 'The version of the identification scheme.'
      type: string

Location:
  description: 'A physical location or place.'
  type: object
  properties:
    Name:
      description: 'A name, expressed as text, of this location.'
      type: array
      items:
        type: string
    CountryIdentifier:
      description: 'A unique identifier of a country for this location. The value in CountryIdentifier.Content shall be an
entry of the code list ISO 3166 Alpha-2. In CountryIdentifier.IdentificationScheme "3166-Alpha-2" shall be specified. In
CountryIdentifier.IdentificationSchemeAgency "5" (code entry for "ISO" in the UN/CEFACT code list 3055) shall be specified.'
      type: array
      items:
        allOf:
        - $ref: '#/components/schemas/Identifier'

BinaryFile:
  description: 'Digital representation of a document.'
  type: object
  properties:
    FileName:
      description: 'The file name, expressed as text, of this binary file.'
      type: string
    URI:
      description: 'A unique Uniform Resource Identifier (URI) for this binary file. This identifier shall be specified in
URI.Content. The other attributes in URI shall not be used.'
      type: array
      items:
        allOf:
        - $ref: '#/components/schemas/IdentifierBase'
    Encoding:
      description: 'A code specifying the encoding of this binary file. The value in Encoding.Content shall be an entry of
the code list ISO IEC 10646 or ISO IEC 8859-15. In Encoding.CodeList "10646" or "8859-15" shall be specified. In
Encoding.CodeListAgency "5" (code entry for "ISO" in the UN/CEFACT code list 3055) shall be specified.'
      type: array
      items:
        allOf:
        - $ref: '#/components/schemas/Code'
  Description:

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description: 'A textual description of this binary file.'
type: string

Contract:
description: 'An agreement between two or more parties, especially one that is written or spoken and enforceable by law.'
type: object
properties:
  MainBusinessClass:
    description: |
      'The code specifying the main class of business for this contract. The value in MainBusinessClass.Content shall be
an entry of the code list specified in AnnexA.3. In MainBusinessClass.CodeList "EN17419:2020A3" shall be specified. In
MainBusinessClass.CodeListAgency "403" (code entry for "CEN" in the UN/CEFACT code list 3055) shall be specified. Additionally
one or more market specific codes may be specified. If used, for each code the code entry shall be given in
MainBusinessClass.Content. In MainBusinessClass.CodeList the identification of the market specific code list shall be specified.
The agency responsible for this code list shall be specified in MainBusinessClass.CodeListAgency with a code entry from the
UN/CEFACT code list 3055.'
    type: array
    items:
      allOf:
        - $ref: '#/components/schemas/Code'
  SecondaryBusinessClass:
    description: |
      A code specifying a secondary class of business for this contract.
      One or more market specific codes may be specified. For each code the code entry shall be given in
SecondaryBusinessClass.Content. In SecondaryBusinessClass.CodeList the identification of the market specific code list shall
be specified. The agency responsible for this code list shall be specified in SecondaryBusinessClass.CodeListAgency with a
code entry from the UN/CEFACT code list 3055.
    type: array
    items:
      allOf:
        - $ref: '#/components/schemas/Code'
  ProvidedIdentity:
    description: |
      'An identification provided for this contract. The policy number as given by the party issuing this number e.g.
the insurance company or the insurance intermediary.'
    type: array
    items:
      allOf:
        - $ref: '#/components/schemas/Identity'

Communication:
description: |
  'The exchange of thoughts, messages, or information, as by speech, signals, writing, or behaviour between persons
and/or organizations.'
type: object
properties:
  URI:
    description: |
      The unique identifier of the Uniform Resource Identifier (URI) for this communication, such as a web or an email
address.
    type: string
    allOf:
      - $ref: '#/components/schemas/IdentifierBase'
  Channel:
    description: |
      'The code specifying the channel or manner in which a communication can be made, such as telephone or email. The
value in Channel.Content shall be an entry of the code list UN/CEFACT 3155. In Channel.CodeList "3155" shall be specified. In
Channel.CodeListAgency "6" (code entry for "UN/ECE" in the UN/CEFACT code list 3055) shall be specified.'
    type: array
    items:
      allOf:
        - $ref: '#/components/schemas/Code'
  CompleteNumber:
    description: |
      'A text string of characters that make up the complete number for this communication.'
    type: string

Person:
description: 'An individual human being.'
type: object
properties:
  GivenName:
    description: |
      'Name or names, expressed as text, usually given to a person by his/her parents at birth.'
    type: array
    items:
      type: string

Address:
description: 'The location at which a particular organization or person may be found or reached.'
type: object
properties:
  Postcode:
    description: |
      'A code specifying the postcode of the address. This code shall be specified in Postcode.Content. The other
attributes in Postcode shall not be used.'
    type: array
    items:
      allOf:
        - $ref: '#/components/schemas/CodeBase'
  PostOfficeBox:
    description: |
      'The unique identifier, expressed as text, of a container commonly referred to as a box, in a post office or other
postal service location, assigned to a person or organization, where postal items may be kept for this address.'
    type: string

```

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BuildingNumber:
  description: 'The number, expressed as text, of a building or house on a street at this address.'
  type: string
RoomIdentification:
  description: 'The identification, expressed as text, of a room, suite, office or apartment as part of an address.'
  type: string
StreetName:
  description: 'A name, expressed as text, of a street or thoroughfare.'
  type: array
  items:
    type: string
CityName:
  description: 'The name, expressed as text, of the city, town or village of this address.'
  type: string
AttentionOf:
  description: |
    'The name, expressed as text, of a person or department in the organization to whom incoming mail is marked with
words such as "for the attention of" or "FAO" or "ATTN" for this address.'
  type: string
Country:
  description: |
    'The unique identifier of a country for this address. The value in Country.Content shall be an entry of the code
list ISO 3166 Alpha-2. In Country.IdentificationScheme "3166-Alpha-2" shall be specified. In Country.IdentificationSchemeAgency
"5" (code entry for "ISO" in the UN/CEFACT code list 3055) shall be specified.'
  allOf:
    - $ref: '#/components/schemas/Identifier'
CountryName:
  description: 'A name, expressed as text, of the country for this address.'
  type: array
  items:
    type: string

Identity:
  description: 'Information which uniquely identifies an insurance transaction, contract, claim or party. '
  type: object
  required:
    - Identification
    - IssuingParty
  properties:
    Identification:
      description: |
        'The unique identifier for an identity. This identifier shall be specified in Identification.Content. The other
attributes in Identification shall not be used.'
        'Note: It is recommended to use for a given insurance transaction at least objects "Identity" for the identity and
referenced identity specified in Annex A.1.'
      allOf:
        - $ref: '#/components/schemas/IdentifierBase'
    IssuingParty:
      description: 'The party issuing this identity.'
      allOf:
        - $ref: '#/components/schemas/PartyBase'

PartyBase:
  description: |
    'An individual, a group, or an organization related to an insurance transaction.
Base Party object, where only attribut Identification is needed for identification purposes within an insurance
transaction.'
  type: object
  required:
    - Identification
  properties:
    Identification:
      description: |
        'A unique identifier of the party within this insurance transaction.
This identifier shall be specified in Identification.Content. The other attributes in Identification shall not be
used. This identification is used to uniquely identify a party internally within this insurance transaction only. This is used
to relate several occurrences of the same party to each other. For external identifiers, like a party number, the attribute
SpecifiedIdentity shall be used.'
      allOf:
        - $ref: '#/components/schemas/IdentifierBase'

Party:
  description: 'An individual, a group, or an organization related to an insurance transaction.'
  allOf:
    - $ref: '#/components/schemas/PartyBase'
  type: object
  properties:
    Name:
      description: |
        'A name, expressed as text, for this party.
For a natural person the familyname only.'
      type: array
      items:
        type: string
    Role:
      description: |
        'A code specifying the role of this party. Used only to specify the required authentication providers by party
roles (not as designated persons). The value in Role.Content shall be an entry of the code list specified in Annex A.4. In
Role.CodeList "EN17419:2020A4" shall be specified. In Role.CodeListAgency "403" (code entry for "CEN" in the UN/CEFACT code
list 3055) shall be specified.'
      type: array
      items:
        allOf:

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[https://standards.it-ch.ai/catalog/standards/sist/2d81ca23-b0c4-40f6-838f-](https://standards.it-ch.ai/catalog/standards/sist/2d81ca23-b0c4-40f6-838f-d1a588de9922/ksist-tp-fprcen-tr-17419-2-2021)[d1a588de9922/ksist-tp-fprcen-tr-17419-2-2021](https://standards.it-ch.ai/catalog/standards/sist/2d81ca23-b0c4-40f6-838f-d1a588de9922/ksist-tp-fprcen-tr-17419-2-2021)

FprCEN/TR 17419-2:2021 (E)

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    - $ref: '#/components/schemas/Code'
  SpecifiedPerson:
    description: 'A specified person for this party.'
    type: array
    items:
      allOf:
        - $ref: '#/components/schemas/Person'
  SpecifiedAddress:
    description: 'An address specified for this party.'
    type: array
    items:
      allOf:
        - $ref: '#/components/schemas/Address'
  SpecifiedIdentity:
    description: |
      'An identity specified for this party, such as a party number. The party number as given by the party issuing this
      number e.g. the insurance company or the insurance intermediary.'
    type: array
    items:
      allOf:
        - $ref: '#/components/schemas/Identity'
  SpecifiedCommunication:
    description: |
      'A specified communication for this party. Only relevant for the insurance transaction issuer and sender, so that
      the receiver or addressee can respond if necessary.'
    type: array
    items:
      allOf:
        - $ref: '#/components/schemas/Communication'

InsuranceClient:
  description: |
    'Party that requests insurance coverage and pays the premium to an insurance company in exchange for the coverage
    provided by an insurance policy.'
  type: object
  properties:
    SpecifiedAsParty:
      description: 'The party specified as an insurance client.'
      allOf:
        - $ref: '#/components/schemas/Party'
  # example:
  #   $ref: '#/components/examples/insuranceClientExample'

InsuranceCompany:
  description: |
    'Organization that covers an insurance client against a financial loss on receipt of a premium.'
  type: object
  properties:
    Identification:
      description: |
        'The unique identifier for the insurance company. The value in Identification.Content shall be an entry of an
        identification scheme to uniquely identify insurance companies. In Identification.IdentificationScheme the identification
        of the scheme shall be specified. The agency responsible for this identification scheme, such as a national regulation authority,
        shall be specified in Identification.IdentificationSchemeAgency with a code entry from the UN/CEFACT code list 3055.'
      allOf:
        - $ref: '#/components/schemas/Identifier'
    SpecifiedAsParty:
      description: 'The party specified as an insurance company.'
      allOf:
        - $ref: '#/components/schemas/Party'
  # example:
  #   $ref: '#/components/examples/insuranceCompanyExample'

InsuranceIntermediary:
  description: 'Party that offers advice and arranges policies for clients.'
  type: object
  properties:
    InsurerAssignedIntermediary:
      description: |
        'The unique intermediary identifier assigned by the insurance company for this insurance intermediary. This
        identifier shall be specified in InsurerAssignedIntermediary.Content. The other attributes in InsurerAssignedIntermediary shall
        not be used.'
      allOf:
        - $ref: '#/components/schemas/IdentifierBase'
    SpecifiedAsParty:
      description: 'The party specified as an insurance intermediary.'
      allOf:
        - $ref: '#/components/schemas/Party'
  # example:
  #   $ref: '#/components/examples/insuranceIntermediaryExample'

Authentication:
  description: 'A proof that something is genuine. In this case a signature - be it a physical one or a digital one.'
  type: object
  properties:
    Type:
      description: |
        'The code specifying the type of authentication. The value in Type.Content shall be an entry of the code list
        specified in Annex A.6. In Type.CodeList "EN17419:2020A6" shall be specified. In Type.CodeListAgency "403" (code entry for
        "CEN" in the UN/CEFACT code list 3055) shall be specified.'
      allOf:
        - $ref: '#/components/schemas/Code'
  ActualDateTime:

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description: 'The actual date, time, date time, or other date time value of this authentication. Format as defined
in ISO 8601.'
example: '2020-04-25T10:15:52Z'
format: date-time
type: string
Identification:
description: |
  'A unique identifier for this authentication. This identifier shall be specified in Identification.Content. The
other attributes in Identification shall not be used.'
allOf:
- $ref: '#/components/schemas/IdentifierBase'
StatementText:
description: 'A statement, expressed as text, for this authentication.'
type: array
items:
  type: string
StatementCode:
description: |
  'A code specifying a statement for this authentication. One or more market specific codes may be specified. For
each code the code entry shall be given in StatementCode.Content. In StatementCode.CodeList the identification of the market
specific code list shall be specified. The agency responsible for this code list shall be specified in
StatementCode.CodeListAgency with a code entry from the UN/CEFACT code list 3055.'
type: array
items:
  allOf:
  - $ref: '#/components/schemas/Code'
StatusCode:
description: |
  'A code specifying the status of this authentication. The value in StatusCode.Content shall be an entry of the
code list specified in Annex A.5. In StatusCode.CodeList "EN17419:2020A5" shall be specified. In StatusCode.CodeListAgency
"403" (code entry for "CEN" in the UN/CEFACT code list 3055) shall be specified.'
allOf:
- $ref: '#/components/schemas/Code'
ProviderParty:
description: 'A party providing the authentication, which is the signing party.'
allOf:
- $ref: '#/components/schemas/Party'
RepresentedParty:
description: 'A party represented by the authentication provider, if the authentication is done in behalf of another
party.'
allOf:
- $ref: '#/components/schemas/Party'
IssueLocation:
description: 'An issue location for this authentication.'
type: array
items:
  allOf:
  - $ref: '#/components/schemas/Location'
SignatureVerifierParty:
description: 'A party verifying the signature as provided for this authentication party.'
type: array
items:
  allOf:
  - $ref: '#/components/schemas/Party'

Document:
description: 'Information resulting from or supporting a business process.'
type: object
required:
- Type
properties:
  Type:
description: |
  'The code specifying the type of the document. The value in Type.Content shall be an entry of the code list
specified in Annex A.2. In Type.CodeList "EN17419:2020A2" shall be specified. In Type.CodeListAgency "403" (code entry for
"CEN" in the UN/CEFACT code list 3055) shall be specified. Additionally one or more market specific type codes may be specified.'
  'If used, for each type code the code entry shall be given in Type.Content. In Type.CodeList the identification of
the market specific code list shall be specified. The agency responsible for this code list shall be specified in
Type.CodeListAgency with a code entry from the UN/CEFACT code list 3055.'
type: array
items:
  allOf:
  - $ref: '#/components/schemas/Code'
  minItems: 1
Name:
description: 'A name, expressed as text, for this specific document. Potentially different actors use different names
for a same document, therefore the multiplicity.'
type: array
items:
  type: string
Issue:
description: 'The date, time, date time or other date time value for the issuance of this document.'
example: '2019-03-28T11:15:52Z'
format: date-time
type: string
StatusCode:
description: |
  'A code specifying the signature status of the document. The value in StatusCode.Content shall be an entry of the
code list specified in Annex A.5. In StatusCode.CodeList "EN17419:2020A5" shall be specified. In StatusCode.CodeListAgency
"403" (code entry for "CEN" in the UN/CEFACT code list 3055) shall be specified.'
allOf:
- $ref: '#/components/schemas/Code'
SignatoryAuthentication:

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