



Dokumentation

Personaldaten

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Mittelstand-
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Einleitung

Dieses Dokument fasst den aktuellen Stand der Arbeit an der Arbeitsgruppe „Standardschnittstelle Personaldaten“ zusammen. Es umfasst die jeweils für die Personaldatenschnittstelle relevanten Auszüge aus den einzelnen Gesamtdokumentationen des KIW-Schnittstellenstandards. Dazu zählen

- ▶ Die Grundzüge der KIW-Schnittstellen
- ▶ Einzelne funktionale Anforderungen
- ▶ Eine Übersicht und Beschreibung für Personaldaten relevanter Objekte
- ▶ Und Beispielmappings bestehender Personaldatenobjekte auf KIW-Objekte

1 Grundsätze der KIW-Schnittstellen

Die KIW-Schnittstellen unterliegen den folgenden Grundsätzen:

- ▶ Datenaustausch-Definitionen auf Basis bestehender, offener Standards
- ▶ Fokus auf dem Interdomain-Datenaustausch und dem „Need-To-Know“ Prinzip¹
- ▶ Offenheit für agile Weiterentwicklung und Schärfung
- ▶ Möglichst Datenhoheit je Fachobjekt (Basisdaten) in einem System des Konsortiums

Datenaustausch Definition und offene Standards:

Die technische Darstellung der Daten, die für den Datenaustausch zwischen den beteiligten Systemen verwendet werden, erfolgt in **XML** oder **JSON**. Jede Austauschdatei implementiert das **KIWDataPackage** Objekt, das wiederum aus drei Objekten besteht. Dem **Envelope** Objekt, das Informationen zum Sender und Empfänger enthält, dem **Process** Objekt, das Informationen zur verwendeten Operation beinhaltet und dem **Content** Objekt, welches den eigentlichen Payload transportiert.

Die Datenobjekte unseres Schnittstellenkatalogs basieren auf der Core Components Library (**CCL**) der United Nations Economic Commission for Europe (UNECE), die für unseren Einsatzzweck angepasst werden.

Interdomain Datenaustausch:

Der technische Datenaustausch in KIW-Konsortien basiert auf der Idee, dass die ganzheitliche IT-Lösung des Konsortiums aus diversen, in der fachlichen Domäne eigenständigen IT-Lösungen, besteht (analog zur Idee des domain-driven design). Somit sind für den Austausch zwischen diesen Domänen lediglich Kerndaten bzw. Basisobjekte notwendig, die in den Domänen-Systemen wiederum um eigene Informationen angereichert werden. Gemäß dem „Need-to-know-Prinzip“ sollen nur die Informationen ausgetauscht werden, welche unmittelbar für die Erfüllung einer Aufgabe notwendig sind.

Die Vereinheitlichung der ausgetauschten Daten wird dadurch erreicht, dass diese Basisobjekte generisch definiert und durch den Inhalt und die beteiligten Systeme inhaltlich bzw. fachlich ausgeprägt werden.

Weiterentwicklung:

Die Priorisierung der Entwicklung des KIW-Schnittstellen Set folgt dem Pareto Ansatz ² und deckt zum Zeitpunkt der Freigabe eine angemessene Breite an Grundanforderungen ab. Sie erfolgt zudem praxisorientiert entlang der entstehenden Bedarfe der Konsortien und fokussiert sich auf die Abbildung der generischen Basisanforderungen.

¹ <https://de.wikipedia.org/wiki/Need-to-know-Prinzip>

² <https://de.wikipedia.org/wiki/Paretoprinzip>

Die wachsende Gesamtabdeckung oder Berücksichtigung neuer Anforderungen durch neue Konsortien erfolgt dabei durch neue Versionen, wobei **Abwärtskompatibilität** den höchsten Leitsatz darstellt. Der Prozess der Weiterentwicklung ist dabei **transparent** gestaltet und durch alle Teilnehmer verfolgbar. Alle Änderungen am KIW Schnittstellenset lassen sich dabei in der enthaltenen Änderungshistorie nachverfolgen.

Datenhoheit:

Der Datenaustausch zwischen verschiedenen, autarken Systemen führt dazu, dass jedes Fachobjekt in jedem System einem eigenen Lebenszyklus unterliegt und unterliegen muss. Datenkonflikte können daher sinnvoll nur über die Definition eines hoheitlichen Systems je Fachobjekt aufgelöst werden. Die Hoheit bezieht sich selbstverständlich lediglich auf die ausgetauschten Basisdaten des Fachobjektes. Alternativ kann auch ohne Datenhoheit über den Austausch von Änderungshistorien bzw. dem Änderungsdatum eine verteilte Datenpflege abgebildet werden.

2 Authentifizierung

Für die Authentifizierung der Benutzer der Schnittstelle werden „Application programming interface keys“ oder kurz API-Keys verwendet. API-Keys sind einzigartige Zeichenketten, die zur Authentifizierung von Nutzern, Entwicklern oder Programmen gegenüber einer API verwendet werden. Im Folgenden werden einige Vorgaben und Richtlinien gegeben, die für eine KIW konforme Implementierung nötig sind, um Sicherheit und Kompatibilität zwischen den Systemen zu ermöglichen.

- ▶ Für die Erstellung der Schlüssel ist eine Mindestlänge von 128 bit vorgesehen.
- ▶ Jeder Schlüssel ist mit einem Limitierten Scope an Berechtigungen zu erstellen.
- ▶ Schlüssel dürfen nur mit der HTTP-Methode Post funktionieren.
- ▶ Schlüssel dürfen nur über HTTPS kommuniziert werden.
- ▶ Schlüssel müssen in ihrer Gültigkeit auf einzelne IP-Adressen oder Adressbereiche einschränken lassen.
- ▶ Schlüssel dürfen nur mit einer als sicher geltenden kryptographischen Hashfunktion gehasht und gesalzt gespeichert werden
- ▶ Um Missbrauch vorzubeugen müssen alle API-Keys mit eingemessenen Rate-Limits ausgestattet sein.
- ▶ Fehlgeschlagene Authentifizierungsversuche müssen geloggt und nach einer bestimmten Anzahl an Fehlschlägen temporär gesperrt werden.
- ▶ Die API-Keys sind zur Authentifizierung im Header unter dem Namen „api-key“ zu übertragen.

3 Datenaustausch

In diesem Kapitel werden die verwendeten Endpunkte der API mit ihren Eigenschaften und zugehörigen Methoden aufgeführt. Die einzelnen Methoden werden kurz beschrieben und verwendete Objekte referenziert. Der Datenaustausch sollte über eine REST-API mit den referenzierten Endpunkten erfolgen. Alternativ ist aber auch eine Datei Schnittstelle mit gleicher Funktionalität möglich.

3.1 Endpunkte

Die initiale Implementierung der KIW-Schnittstellen soll möglichst einfach realisierbar sein. Aufgrund des datengetriebenen Ansatzes sind die benötigten Endpunkte sehr gering, daher sind zunächst lediglich die folgenden zwei Endpunkte vorgesehen, die als REST API angeboten werden sollten:

- ▶ /QueryKIWData (input:KIWQuery): Output KIWResponse
- ▶ /ProcessKIWData (input: KIWDataPackage): Output KIWResponse

Beide Endpunkte werden über die HTTP Methode **POST** angesprochen. Die üblichen CRUD Operationen für das Erstellen, Abrufen, Aktualisieren oder Löschen von Daten werden anhand des bei jeder Übertragung enthaltenen **Process** Objekt gesteuert. Im **Header** ist die Angabe des **Content-type** möglich, als Standard wird **XML** angenommen, es ist aber auch **JSON** möglich.

POST /QueryKIWData

Über diesen Endpunkt werden Daten bei einem beteiligten System abgerufen. Das übergebene Paket liefert dabei die notwendigen Angaben für die interne Ermittlung der Daten. Die Operation im dazugehörigen **Process** Objekt muss dabei zwangsweise **QUERY** sein.

Request Payload

Als Payload wird immer ein **Query** Objekt übergeben, dabei kann es sich um ein **XML** oder **JSON** Objekt handeln.

Response Payload

Als Antwort wird immer ein **Response** Objekt zurückgegeben.

POST /ProcessKIWData

Über diesen Endpunkt werden übergebene Daten, in Abhängigkeit der verwendeten Operation im **Process** Objekt, verarbeitet. Mögliche Operationen sind: **ADD**, **UPDATE** oder **DELETE**.

Request Payload

Als Payload wird immer ein **DataPackage** Objekt übergeben, dabei kann es sich um ein **XML** oder **JSON** Objekt handeln.

Response Payload

Als Antwort wird immer ein **Response** Objekt zurückgegeben.

4 KIW Objekte

Im Folgenden werden die Objekte des KIW Schnittstellensets beschrieben. Die in der KIW-Schnittstelle benutzten Datenobjekte basieren auf der Core Components Library ³der UNECE Version 18B. Hierbei handelt sich um einen Auszug der für den Personaldatenstandard relevanten Objekte.

Die Definition von Datensätzen anhand bestimmter Szenarien ist ein hoch komplizierter und zeitintensiver Prozess für Firmen. Um diesen Prozess zu vereinfachen werden in diesem Dokument sogenannte „KIW Objekte“ erstellt. Hierbei handelt es sich um zusammengestellte Datensätze, welche in den verschiedenen Szenarien immer wieder zum Einsatz kommen. Die Datensätze sind wie eine Art Bausteinsystem aufgebaut und können unter Beachtung der Pflichtfelder variabel zusammengesetzt werden.

Die „KIW Objekte“ werden als agil betrachtet. Das heißt, bei allen neu hinzukommenden Szenarien in diesem Dokument werden die bereits existierenden Objekte auf Ihre Erweiterung hin geprüft und bei Bedarf erweitert.

³ https://www.unece.org/cefact/codesfortrade/uncl/ccl_index.html
Personaldaten Dokumentation

Die folgenden Objekte sind ein für Personaldaten relevanter Auszug aus dem momentanen Stand (2.0) des KIW-Schnittstellenkatalog, der die Mindestversion darstellt. Die stets aktuelle Version des gesamten Schnittstellenkatalogs kann auf der Webseite ⁴der Kompetenzzentrums IT-Wirtschaft gefunden werden.

⁴ <https://itwirtschaft.de/angebote/schnittstellen/schnittstellenkatalog/>
Personaldaten Dokumentation

4.1 KIW-Objekte

4.1.1 Address

Name	Type	Description
IdentificationIdentifier	String	A unique identifier for this address.
FormatCode	String	The code specifying the format of this address.
PostcodeCode	String	A code specifying the postcode of the address.
PostOfficeBoxText	String	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.
BuildingNumberText	String	The number or alphanumeric designation, expressed as text, of a building or house at this address.
BuildingNameText	String	The name, expressed as text, of a building, a house or other structure on a street at this address.
RoomIdentificationText	String	The identification, expressed as text, of a room, suite, office or apartment as part of an address.

Name	Type	Description
FloorIdentificationText	String	The identification by name or number, expressed as text, of the floor in a building as part of an address.
StreetNameText	String	A name, expressed as text, of a street or thoroughfare.
CityNameText	String	The name, expressed as text, of the city, town or village of this address.
AttentionOfText	String	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.
CareOfText	String	The name, expressed as text, of a person or organization at this address to whom incoming mail is marked with words such as 'care of' or 'C/O'.
CountryIdentifier	String	The unique identifier of a country for this address (Reference ISO 3166 and UN/ECE Rec 3).
TypeCode	String	A code specifying the type of this address such as business address or home address.
CitySubMinusDivisionNameText	String	A name, expressed as text, of a sub-division of a city for this address, for example a district or borough.
CountryNameText	String	A name, expressed as text, of the country for this address.

Name	Type	Description
CountrySubDivisionIdentifier	String	A unique identifier of the country sub-division for this address.
CountrySubDivisionNameText	String	A name, expressed as text, of the sub-division of a country for this address.
DescriptionText	String	A textual description of this address.
CityIdentifier	String	The unique identifier of the city for this address, such as United Nations Location Code (UNLOCODE).
TownshipNameText	String	A name, expressed as text, of a township within which this address falls. A township is a geographic area that contains one or more cities, towns and villages.
ReturnedMailIndicator	Boolean	An indication of whether or not mail has been returned from this address.
LegalAddressIndicator	Boolean	The indication of whether or not this address is a legal address.
PreventOverrideIndicator	Boolean	The indication of whether or not automatic override should be prevented for this address. For example some systems based on post office addresses will override local names with official names.
StaircaseNumberText	String	The number, expressed as text, of a staircase for this address.

Name	Type	Description
StreetPrefixCode	String	The code specifying the street prefix of this address.
StreetSuffixCode	String	The code specifying the street suffix of this address.
PostalAreaText	String	A postal area, expressed as text, for this address.
CountryIdentificationCountry	Country	The unique identifier of the country for this address.
CountryIdentificationCountrySubDivision	CountrySubDivision	An identification of a country sub-division of this address such as a state or county in the US or county in the UK or a department in France.
GeoCoordinateIdentificationGeographicalCoordinate	GeographicalCoordinate	An identification of a set of geographical coordinates for this address.
UsagePreference	Preference	The preference for the usage of this address.
SpecifiedTimeStatus	TimeStatus	The time status for this address, such as current, previous, future, specified for this address.
ApplicablePeriod	Period	A period applicable for this address.
SpecifiedLocation	Location	The location specified for this address.

4.1.2 Certificate

Name	Type	Description
IdentificationIdentifier	String	The unique identifier for a certificate.
IssueDateTime	Date	The date, time, date time, or other date time value when this certificate was issued.
ExpiryDateTime	Date	The date, time, date time, or other date time value when this certificate expires.
IssueReasonCode	String	The code specifying the reason why the certificate was issued.
TypeCode	String	The code specifying the type of certificate.
RequestedEffectiveDateTime	Date	The requested effective date, time, date time or other date time value for this certificate.
ActualEffectiveDateTime	Date	The actual effective date, time, date time or other date time value for this certificate.
DescriptionText	String	A textual description of this certificate.
PartyIdentifier	String	An identifier for this certificate party.
ApplicableDocument	Document	The document applicable to this certificate.

4.1.3 Communication

Name	Type	Description
URIIdentifier	String	The unique identifier of the Uniform Resource Identifier (URI) for this communication, such as a web or an email address.
ChannelCode	String	The code specifying the channel or manner in which a communication can be made, such as telephone or email.
LocalNumberText	String	The communication number, expressed as text and not including country access code or the area number code, for this communication.
CompleteNumberText	String	A text string of characters that make up the complete number for this communication.
CountryNumberCode	String	The country access code for this communication number such as 44, 1, 353 etc.
ExtensionNumberText	String	The extension number, expressed as text, assigned to this communication number to enable a caller to reach a specific party.
AreaNumberCode	String	The code specifying the area number for this communication.
AccessText	String	Access information, expressed as text, for the mode of communication such as 9 or *70 for a telephone network.
UseCode	String	A code specifying the use of this communication, such as for business purposes or private.

Name	Type	Description
InvalidIndicator	Boolean	The indication of whether or not the address or number for this communication is invalid, such as a phone number has been disconnected or an email address is an undeliverable address.
IdentificationIdentifier	String	An identifier for this communication.
VersionIdentifier	String	An identifier of a version of this communication.
ContactAddress	Address	Contact address information for this communication.
UsagePreference	Preference	A preference for the usage of this communication method.

4.1.4 Contact

Name	Type	Description
IdentificationIdentifier	String	A unique identifier for this contact.
JobTitleText	String	The job title, position or designation, expressed as text, of this contact person within an organization such as Director, Software Engineer, Purchasing Manager.
ResponsibilityText	String	A responsibility, expressed as text, of this contact.
DepartmentNameText	String	A name, expressed as text, of the department to which this contact belongs within an organization, such as a support department.

Name	Type	Description
TypeCode	String	A code specifying a type of contact.
PersonNameText	String	The name, expressed as text, of this contact person.
DescriptionText	String	A textual description of this contact.
PrimaryIndicator	Boolean	The indication of whether or not this is a primary contact.
AccessibilityCode	String	The code specifying the type of accessibility for this contact.
VersionIdentifier	String	An identifier of a version of this contact.

4.1.5 Country

Name	Type	Description
IdentificationIdentifier	String	A unique identifier for a country (Reference ISO 3166 and UN/ECE Rec 3.).
NameText	String	A name, expressed as text, of the country.
SubordinateCountrySubDivision	CountrySubDivision	A country sub-division subordinate to this country, such as a state, a county, a canton, a province.

4.1.6 CountrySubDivision

Name	Type	Description
IdentificationIdentifier	String	A unique identifier for this sub-division of a country.
NameText	String	A name, expressed as text, of the sub-division of a country.
TypeCode	String	A code specifying a type of country sub-division.
DescriptionText	String	A textual description of this country sub-division.
HierarchicalLevelCode	String	The code specifying the hierarchical level of this country sub-division.
ApplicableCharacteristic	Characteristic	A characteristic applicable to this country sub-division.
IncludedArea	Area	An area included in this country sub-division.
OwnerParty	Party	The party that owns this country sub-division.
SuperordinateCountrySubDivision	CountrySubDivision	A superordinate country sub-division for this country sub-division.
SubordinateCountrySubDivision	CountrySubDivision	A subordinate country sub-division within this country sub-division.
AuthorizedParty	Party	A party authorized within this country sub-division.

4.1.7 DynamicDataStructure

Name	Type	Description
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4.1.8 FinancialAccount

Name	Type	Description
IdentificationIdentifier	String	A unique identifier for this financial account.
TypeCode	String	A code specifying the type of financial account such as savings, checking.
AccountNameText	String	An account name, expressed as text, of this financial account.
CurrencyCode	String	A code specifying the currency of this financial account (Reference ISO 4217 codes).
TypeText	String	A type, expressed as text, of a financial account.
OwnerParty	Party	A party that owns this financial account.
ServicerParty	Party	A party that services this financial account on behalf of the account owner or owners.
InformationRecipientParty	Party	A party that is entitled to receive information about this financial account.
AgentParty	Party	A party that acts on behalf of another party related to this financial account.
ServicingFinancialInstitution	FinancialInstitution	The financial institution that services this financial account.

4.1.9 FinancialCard

Name	Type	Description
MicrochipIndicator	Boolean	The indication of whether or not this financial card has a microchip.
IdentificationIdentifier	String	A unique identifier of the financial card which is commonly known as the card number.
TypeCode	String	A code specifying a type of financial card, such as debit or credit.
CardholderNameText	String	A name of the holder(s) of the card as it appears as text on this financial card. This may include both an individual authorized to use the card as well as the organization that owns the card.
ExpiryDate	date	A date of expiry up to which the financial card is valid.
VerificationNumeric	BigDecimal	The unique card verification number for security purposes to help verify the card user is in actual possession of the financial card.
ValidFromDateTime	Date	A date from which the financial card is valid.
CreditLimitAmount	BigDecimal	A monetary value of the credit limit for this financial card.
CreditAvailableAmount	BigDecimal	A monetary value of the credit available for this financial card.
InterestRatePercent	BigDecimal	An interest rate expressed as a percentage for this financial card.
IssuingCompanyNameText	String	An issuing company name, expressed as text, for this financial card.

Name	Type	Description
DescriptionText	String	A textual description of this financial card.

4.1.10 FinancialInstitution

Name	Type	Description
BEIIdentifier	String	The unique Business Entity Identifier (BEI) as defined in ISO 9362 for this financial institution.
BICIdentifier	String	The unique Bank Identification Code (BIC) as defined in ISO 9362 for this financial institution.
GLNIdentifier	String	The unique Global Location Number (GLN) as defined by GS1 for this financial institution.
IdentificationIdentifier	String	A unique identifier for this financial institution.
NameText	String	A name, expressed as text, for this financial institution.
RoleCode	String	The code specifying a role for this financial institution, such as intermediary or settlement agent.
ClearingSystemNameText	String	A clearing system name, expressed as text, for this financial institution.
LocationAddress	Address	The postal address for this financial institution.

Name	Type	Description
ResidenceCountry	Country	The country where this financial institution is located.
SubDivisionFinancialInstitution	FinancialInstitution	A financial institution that is a sub-division (branch) of this financial institution.
OrganizationalUnitFinancialInstitution	FinancialInstitution	A financial institution that is an organizational unit of this financial institution.

4.1.11 KIWDataChangeHistory

Name	Type	Description
ChangeDate	Date	Datum der Änderung.
Fields	Party	Liste der geänderten Feldwerte.

4.1.12 KIWDataClass

Name	Type	Description
lastUpdateDate	Date	Das Datum der letzten Aktualisierung.
MasterSystem	String	Code Bezeichnung des Ursprungssystem eines Objektes.
MasterSystemIdentifizier	String	Identifizierung des Ursprungssystem eines Objektes.
ChangeHistory	KIWDataChangeHistory	

Name	Type	Description
Container	DynamicDataStructure	

4.1.13 KIWDataPackage

Name	Type	Description
Envelope	KIWEnvelope	Objekt für die Beschreibung der Kommunikation.
Process	KIWProcess	Objekt für die Beschreibung der angewendeten Methode.
Content	List	Liste von zu übergebenden Objekten.

4.1.14 KIWEnvelope

Name	Type	Description
MessageIdentifier	Integer	ID der Nachricht
SendingSystem	Integer	ID des Sendesystems
SendingSystemName	String	Name des Sendesystems
ReceivingSystem	Integer	ID des Empfangssystems
ReceivingSystemName	String	Name des Empfangssystems

Name	Type	Description
DateSend	date	Sendedatum der Nachricht
TimeSend	Date	Sendezeit der Nachricht
ContentOverview	KIWOverview	Beschreibt die enthaltenen Datenobjekte
ClientID	String	Mandanten ID
ClientName	String	Mandantennamenname

4.1.15 KIWFieldChange

Name	Type	Description
Field	String	Bezeichnung des Feldes.
OldValue	Map	Der vorhergehende Wert des entsprechenden Felds.
NewValue	Map	Der geänderte Wert des entsprechenden Felds.

4.1.16 KIWOverview

Name	Type	Description
DataClass	String	Name des enthaltenen Datenobjekts

Name	Type	Description
Count	Integer	Anzahl der Datenobjekte

4.1.17 KIWProcess

Name	Type	Description
Name	String	Name, ausgedrückt als Text, des Prozesses.
Operation	String	Ein Code, der die Funktionsweise des auszuführenden Prozesses beschreibt.
Description	String	Eine textuelle Beschreibung des Prozesses.
Version	String	Eine Kennung einer Version dieses Prozesses.

4.1.18 KIWQuery

Name	Type	Description
Envelope	KIWEnvelope	Objekt für die Beschreibung der Kommunikation.
Process	KIWProcess	Objekt für die Beschreibung der angewendeten Methode.
Query	KIWDataClass	Objekt mit konkreten Werten für die Suchanfrage.

4.1.19 KIWResponse

Name	Type	Description
Success	Boolean	Boolscherwert über den Erfolg/Misserfolg einer Datenübertragung.
StatusCode	String	Informationscodierung über den Erfolg/Misserfolg einer Datenübertragung.
StatusText	String	Textuelle Beschreibung über den Status einer Datenübertragung.
Content	KIWDataPackage	Datenpaket mit den zurückgelieferten Objekten.

4.1.20 Location

Name	Type	Description
IdentificationIdentifier	String	A unique identifier for this location such as a United Nations Location Code (UNLOCODE) or GS1 Global Location Number (GLN).
NameText	String	A name, expressed as text, of this location.
TypeCode	String	A code specifying the type of location.
DirectionsText	String	A textual description of how to reach the location.
DescriptionText	String	A textual description of the location.

Name	Type	Description
DistrictIdentifier	String	A unique identifier of the district area regarded as a geographic or administrative unit within which this location is situated.
CountryNameText	String	A name, expressed as text, of the country for this location.
CountrySubMinusDivisionNameText	String	A name, expressed as text, of the sub-division of a country for this location.
CountryIdentifier	String	A unique identifier of a country for this location (Reference ISO 3166 and UN/ECE Rec 3).
CountrySubMinusDivisionIdentifier	String	The unique identifier of the country sub-division for this location.
GeopoliticalRegionNameText	String	The name, expressed as text, of the geopolitical region for this location.
GeopoliticalRegionCode	String	The code specifying the geopolitical region for this location.
CountrySuperordinateIdentifier	String	The unique identifier of the country superordinate (grouping of countries to a bigger entity) in which the location is situated.
UTCOffsetNumeric	BigDecimal	The time offset value from the Universal Time Coordinate (UTC) for this location.
TypeText	String	A type, expressed as text, of this location.
RelatedDateTime	Date	A date, time, date time, or other date time value related to this location.
VersionIdentifier	String	An identifier of a version of this location.

Name	Type	Description
ConditionCode	String	A code specifying a condition of this location, such as flooded.
PossessionDateTime	Date	A date, time, date time, or other date time value for possession of this location.
ManagementOrganizationCode	String	A code specifying an organization, such as a body of administrative officials, managing this location.
ReferenceCode	String	A code specifying a reference for this location.
PhysicalGeographicalCoordinate	GeographicalCoordinate	Geographical coordinate information for this location.
PostalAddress	Address	Postal address information for this location.
SubordinateLocation	Location	Subordinate location information within this location.
SpecifiedParty	Party	A party specified for this location.
PhysicalAddress	Address	The physical address of this location.
AvailabilityPeriod	Period	An availability period for a location.
SpecifiedFacility	Facility	A facility specified for this location.
SpecifiedCountrySubDivision	CountrySubDivision	A country sub-division specified for this location.
SpecifiedArea	Area	An area specified for this location.

Name	Type	Description
ApplicableTax	Tax	A tax applicable at a location.
RelatedLocation	Location	A location related to this location.
ApplicableCharacteristic	Characteristic	A characteristic applicable to this location.
SpecifiedEvent	Event	An event specified for this location.
ResponsibleParty	Party	A party responsible for this location.
SpecifiedAddress	Address	An address specified for this location.

4.1.21 Occupation

Name	Type	Description
TypeCode	String	The code specifying the type of occupation.
DescriptionText	String	The textual description of the occupation.
ClassCode	String	The code specifying the class of the occupation, such as accountancy, banking, car delivery.
RankingCode	String	The code specifying the relative importance (ranking) of this occupation with respect to the person's other occupations such as main occupation, secondary occupation.

Name	Type	Description
FullMinusTimeIndicator	Boolean	The indication of whether or not the occupation is full-time.
HeldPeriod	Period	A period of time during which this occupation has been held.

4.1.22 Organization

Name	Type	Description
BusinessTypeCode	String	A code specifying a type of business of this organization.
LegalClassificationCode	String	The code specifying the legal classification of this organization such as those representing Incorporated (Inc), limited liability corporation (LLC) or non-profit.
TaxRegistrationIdentifier	String	A unique tax registration identifier assigned to an organization for the purpose of collecting taxes. In the US, this could be the Federal Employer Identification Number (FEIN), in the EU this could be the Value Added Tax (VAT) Registration Number.
NameText	String	A name, expressed as text, of this organization.
IdentificationIdentifier	String	A unique identifier for this organization.
DescriptionText	String	A textual description of this organization.
DistrictIdentifier	String	A unique identifier of the district area regarded as a geographic or administrative unit within which this organization operates.

Name	Type	Description
TradeMarkText	String	A trade mark, expressed as text, for an organization.
AbbreviatedNameText	String	An abbreviated name, expressed as text, for an organization.
TypeCode	String	A code specifying a type of organization.
FunctionCode	String	A code specifying a function of an organization.
EstablishedDateTime	Date	The date, time, date time, or other date time value when the organization was established.
TrustTypeCode	String	The code specifying the type of trust for the organization.
OwnerQuantity	BigDecimal	The number of owners of the organization.
DBANameText	String	The DBA (Doing Business As) name of the organization, expressed as text.
TradingBusinessNameText	String	The trading business name of the organization, expressed as text.
DivisionNameText	String	The name of a division of the organization, expressed as text.
OrganizationalUnitIdentifier	String	The unique identifier of an organizational unit within an organization.
OrganizationalUnitFunctionCode	String	The code specifying the function of the organizational unit.
ProfitObjectiveCode	String	The code specifying the profit objective for the organization.

Name	Type	Description
DissolvedDateTime	Date	The date, time, date time or other date time value when the organization was legally dissolved or went out of business.
PubliclyTradedIndicator	Boolean	The indication of whether or not the organization is publicly traded.
TaxExemptIndicator	Boolean	The indication of whether or not this organization is exempt from tax, such as from US federal tax or VAT.
BusinessDurationMeasure	BigDecimal	The measure of the period of time that this organization has been in business.
ActiveIndicator	Boolean	The indication of whether or not the organization is currently active.
OperationsScopeCode	String	The code specifying the scope of operations for this organization.
OperationsDescriptionText	String	The textual description of the operations performed by this organization.
DomesticLocationQuantity	BigDecimal	The number of domestic locations for the organization.
ForeignLocationQuantity	BigDecimal	The number of foreign locations for the organization.
MembersAndManagersQuantity	BigDecimal	The number of members and managers in the organization.
CompanyMergerDateTime	Date	The date, time, date time or other date time value when the organization merged with another company to form the current organization.
MergedCompanyNameText	String	The merged company name, expressed as text, for this organization.

Name	Type	Description
CompanyNameChangeDateTime	Date	The date, time, date time or other date time value when the organization changed from its previous name to its current name.
PreviousNameText	String	The previous name of the organization, expressed as text.
BrokerRelationshipDateTime	Date	The date, time, date time or other date time value when the organization first established a relationship with its broker.
ParentText	String	The parent organization, expressed as text, of this organization.
LanguageCode	String	The code specifying the language of this organization.
ParentIdentifier	String	A unique identifier for the parent of this organization.
NameChangeDateTime	Date	A date, time, date time or other date time value when this organization changed from its previous name to its current name.
CapitalValueAmount	BigDecimal	A monetary value of the capital of this organization.
DomesticRegisteredIndicator	Boolean	The indication of whether or not the organization is registered within the country of the address specified.
PrimaryContact	Contact	A primary contact information for this organization.
SubordinateOrganization	Organization	An organization subordinate to this organization.

Name	Type	Description
PostalAddress	Address	A postal address for this organization.
PhysicalLocation	Location	A physical location for this organization.
DesignatedContact	Contact	Information for a designated contact within this organization.
InternalUnitOrganization	Organization	An internal unit within this organization.
CompanyBranchOrganization	Organization	A company branch of this organization.
FieldOfficeOrganization	Organization	A field office of this organization.
SpecifiedEmployeeCount	EmployeeCount	An employee count specified for this organization.
OperatingUnderPresentNamePeriod	Period	The period during which the organization has been operating under its present name.
OperatingPeriod	Period	The period during which the organization has actually been operating.
PrimaryPerson	Person	The primary person for this organization.
ParentOrganization	Organization	A parent organization of this organization.
DesignatedParty	Party	A designated party for this organization.
AuthorizedPerson	Person	A person who is authorized to act for this organization.

Name	Type	Description
SpecifiedOwnership	Ownership	A specified ownership for this organization.
PhysicalAddress	Address	A physical address for this organization.
ResponsibleParty	Party	A party responsible for this organization.

4.1.23 Party

Name	Type	Description
IdentificationIdentifier	String	A unique identifier of the party.
TypeCode	String	A code specifying the type of party that is independent of its role.
NameText	String	A name, expressed as text, for this party.
DescriptionText	String	A textual description of this party.
AccessRightsCode	String	A code specifying this party's access rights such as unlimited, restricted, prohibited.
ClassificationCode	String	A code specifying a classification for this party.
RoleCode	String	A code specifying the role of this party.
LanguageCode	String	A code specifying a language for this specific party.

Name	Type	Description
ResidenceCountryIdentifier	String	The unique identifier of the residence country of this party.
CountryIdentifier	String	A unique country identifier for this party.
BranchIndicator	Boolean	An indication of whether or not this party is a branch of an organization.
AssignedToRoleDateTime	Date	The date, time, date time or other date time value when this role was assigned to the party.
VersionIdentifier	String	An identifier of a version of this party.
RatingCode	String	The code specifying the rating of this party.
SpecifiedOrganization	Organization	The organization specified for this party.
ActionEvent	Event	An action taken for an event by or in behalf of the party.
DefinedContact	Contact	A defined contact for this party.
ResidenceAddress	Address	The residence address for this party.
PostalAddress	Address	A postal address for this party.
ApplicableMembership	Membership	A membership applicable to this party.
TelephoneCommunication	Communication	A telephone communication for this party.

Name	Type	Description
FaxCommunication	Communication	A fax communication for this party.
URICommunication	Communication	A Uniform Resource Identifier (URI) communication for this party, such as a web or email address.
ProvidedService	Service	A service provided by this party.
AssociatedParty	Party	A party associated with this party, such as a local agent of a shipping line.
SpecifiedLocation	Location	A location or place specified for this party.
ReferencedDocument	Document	A document referenced by this party.
OfficeAddress	Address	An office address for this party.
SpecifiedPartyGroup	PartyGroup	The party group specified for this party.
AppointedPerson	Person	An appointed person for this party.
AssociatedBinaryFile	BinaryFile	A binary file associated with this party, such as the binary representation of a picture or company logo.
HeldLicence	Licence	A licence held by this party.
OwnedFinancialAccount	FinancialAccount	A financial account owned by this party.
SpecifiedCountry	Country	A country specified for this party.

Name	Type	Description
ParentParty	Party	A party that is a parent of this party.
DesignatedParty	Party	A designated party for this party.

4.1.24 PartyGroup

Name	Type	Description
DescriptionText	String	The textual description of the party group.
EffectiveDateTime	Date	The date, time, date time or other date time value that the party group became effective.
FullNameText	String	The full name of the party group, expressed as text.
OperatingStatusCode	String	The code specifying the operating status of the party group, such as active or inactive.
TypeCode	String	The code specifying the type of party group.
MemberQuantity	BigDecimal	The number of individuals in the party group.
PurposeCode	String	The code specifying the common interest or purpose of the party group.
EndDateTime	Date	The date, time, date time or other date time value of the end of the party group.
AdultQuantity	BigDecimal	The number of adults in the party group.

Name	Type	Description
ChildrenQuantity	BigDecimal	The number of children in the party group.
SeniorsQuantity	BigDecimal	The number of senior citizens in the party group.
CouplesQuantity	BigDecimal	The number of couples in the party group.
FamilyQuantity	BigDecimal	The number of families in the party group.
InfantQuantity	BigDecimal	The number of infants (ages one year or less) in the party group.
SingleParentFamilyQuantity	BigDecimal	The number of single parent families in the party group.
SpecifiedPerson	Person	A specified person in the party group.

4.1.25 Person

Name	Type	Description
IdentificationIdentifier	BigDecimal	A unique identifier for this person.
NameText	String	A name or set of names, expressed as text, by which this person is known.
GivenNameText	String	Name or names, expressed as text, usually given to a person by his/her parents at birth.

Name	Type	Description
MiddleNameText	String	Name or names, expressed as text, usually given to a person by his/her parents at birth, other than the first name.
FamilyNameText	String	A name, expressed as text, that a person shares with members of his/her family.
TitleText	String	A textual expression of the title associated with a specific person, such as Doctor, Mr., Mrs., Ms.
SalutationText	String	A formal sign or expression of greeting, expressed as text, that is appropriate for this person such as Right Honourable, Monsignor or Madam.
MaritalStatusCode	BigDecimal	A code specifying the married status of this person such as married, single, or divorced.
GenderCode	BigDecimal	A code specifying the gender of this person such as male, female.
BirthDateTime	Date	A date, time, date time or other date time value which specifies the birth date for this person.
DeathDateTime	Date	A date, time, date time or other date time value which specifies the death date for this person.
DescriptionText	String	A textual description of this person.
MaidenNameText	String	A family name, expressed as text, of a person before first marriage.

Name	Type	Description
SocialInsuranceContractIdentifier	BigDecimal	The unique identifier for the person's contract with the social insurance provider.
AlternateLanguageIdentifier	BigDecimal	The unique identifier of the language alternate to the native language of this person.
AlternateLanguageProficiencyCode	BigDecimal	The code specifying the proficiency of the individual in the alternate language specified.
BirthplaceNameText	String	The name of the place where this person was born, expressed as text.
ChildrenQuantity	BigDecimal	The number of children this person has.
HandicappedIndicator	Boolean	The indication of whether or not the person is handicapped.
ResidenceAddress	Address	A residence address for this person.
NationalityCountry	Country	A country that constitutes a nationality by origin, birth, or naturalization for this person.
TelephoneCommunication	Communication	Telephone communication information for this person.
FaxCommunication	Communication	Fax communication information for this person.
URICommunication	Communication	Uniform Resource Identifier (URI) communication information for this person such as a web or email address.

Name	Type	Description
FiliationPerson	Person	A person that is a filiation of this person, such as a child.
ApplicablePersonFinancialSituation	PersonFinancialSituation	The financial situation applicable to this person.
AttainedQualification	Qualification	A qualification attained by this person.
SpecifiedOccupation	Occupation	An occupation specified for this person.
SpecificAccreditation	Accreditation	A specific accreditation for this person.
SustainedInjury	Injury	An injury sustained by this person.
HeldMembership	Membership	A membership held by this person.
AdditionalNote	Note	An additional note for this person.
SpecifiedCertificate	Certificate	A certificate specified for this person.

4.1.26 Qualification

Name	Type	Description
TypeCode	String	A code specifying the type of qualification.
NameText	String	A name, expressed as text, of this qualification.

Name	Type	Description
AbbreviatedNameText	String	An abbreviated name, expressed as text, of this qualification.
EndorsementCode	String	A code specifying an endorsement to this qualification, such as the type of special service that a person is allowed to perform.
ExaminationResult	ExaminationResult	Examination results required for this qualification.
IssuingCountry	Country	The country issuing this qualification.
CertificationDocument	Document	A certification document for this qualification.

5 Objektmapping

Das Objektmapping stellt das Zusammenführen der Informationen aus zwei Softwarelösungen dar. Es legt fest, wie die bestehende Datenstruktur einer Softwarelösung mit dem KIW Schnittstellenset bis auf Attributebene abgebildet wird. Auf der rechten und linken Seite sind jeweils die Objektdefinitionen der Softwarelösungen dargestellt, in der Mitte wiederum ist die gemeinsame Definition auf Grundlage der KIW Objekte zu sehen. Die Objekt Referenz gibt das Parent und die Child Objekte an. Das Attribut definiert das Feld, welches in dem jeweiligen Objekt die Daten enthält. Im besten Fall haben beide Softwarelösungen die gleichen Attribute. Ist dies nicht der Fall, kann entweder wie unserem Beispiel das Mapping auf den kleinsten gemeinsamen Nenner gebracht werden oder die Softwarelösung mit dem kleineren Attributset entschließt sich auch Daten entgegen zu nehmen, die sie so bisher noch nicht verarbeiten.

Softwarelösung A		KIW		Softwarelösung B	
Attribut	Beispiel	KIW Objekt Referenz	Attribut	Attribut	Beispiel
ID	246	Party	IdentificationIdentifier	PIN	1
BIRTHDAY	15.03.73	Party.Person	BirthDatetime	Geburtsdatum	24.08.1966
CELLPHONE	0170-913 31 32	Party.Person.Communication	ExtensionNumberText	Handy	+49 (160) 1234567
EMAIL	nicole.osswald@mail.com	Party.Person.Communication	URICommunication	Email	muster.frau@muster.de
FIRSTNAME	Nicole	Party.Person	GivenNameText	Vorname	Muster
LASTNAME	Osswald	Party.Person	FamilyNameText	Nachname	Frau
LOCATION	Heidelberg	Party.Person.Address	CityNameText	Ort	Musterstadt
PERSONNELNUMBER	14	Party.Person	IdentificationIdentifier	Personalnummer	1001
PHONE	06221-443 833 71	Party.Person.Communication	LocalNumberText	Telefon Privat	+49 (123) 4567
POSTALCODE	69120	Party.Person.Address	PostcodeCode	PLZ	12345
REMARK		Party	Description	Information	5 Tage Sonderurlaub
STREET	Bergstraße 4	Party.Person.Address	StreetNameText	Strasse	Musterstraße 1