Interface CareFlex Chemie

SOAP (v2.4.1)



General information about the project

This description presents an interface for the export of HR data for the private nursing care insurance as part of the CareFlex project.

Prerequisite for using the interfaces is a successful registration in the Careflex Chemie company portal. To register, you need a CareFlex ID for each system and for each company to be administered, which you received with the transmission of this interface description.

Note:

- Interface componente highlighted in blue are new since the last version of this document.
- Interface components highlighted in yellow are in development and are not or not completely available.
- Zwecks Übersichtlichkeit werden die Versionsnummern der verschiedenen Schnittstellentypen angeglichen.

Urls of the company portal					
System Url					
Test	(not available)				
Staging	https://staging.unternehmen.careflexchemie.de				
Production	https://unternehmen.careflexchemie.de				

Version history

Version	Date	Changes	Author
2.3.1	10.12.2020	Initial translation from 2.3.1 de_DE	Eugen Staab
2.3.2	04.06.2021	 Feedback Interface removed deprecated endpoints removed Testsystem removed FAQ removed EmployeeID = PersonellNumber TaxID removed 	Alexander Kirch
2.3.3	11.06.2021	NoIncident removedemploymentStatus AZUBI removed	Julia Fürtjes
2.4.1	05.04.2022	 new HR Incident EVV new HR Incident EVK with new field "targetCompanyCareflexId" and new method new validations of "valid_from" dates new WSDL files 	Alexander Kirch

General information about the interfaces

There exist three interfaces to the CareFlex HR-portal each with another technology being used (CSV, REST and SOAP). This document describes the option with SOAP.

For each legal entity, a CareFlex ID is generated. Each HR-incident has to be reported with the corresponding CareFlex ID. In one message, only one CareFlex ID can be used.

For one CareFlex ID however, several packets can be reported, for performance reasons limited to 100 HR-incidents at once.

Interface: SOAP Zeichenkodierung: UTF-8

Interface definitions					
System	Url				
Staging	https://ingress-careflex-staging.n4group.eu/ws/careflex_2_4.wsdl				
Produktion	https://api.unternehmen.careflexchemie.de/ws/careflex_2_4.wsdl				

System-Endpoints

EP1: oAuth - Authentication (the same for REST and SOAP)					
System	System Endpoint				
Staging	https://staging.unternehmen.careflexchemie.de/oauth/token				
Production https://unternehmen.careflexchemie.de/oauth/token					

(Examples further below)

EP2: SOAP					
System	Endpoint				
Staging	https://ingress-careflex-staging.n4group.eu/ws/hr/v2.4				
Produktion	https://api.unternehmen.careflexchemie.de/ws/hr/v2.4				

(Examples further below)

SOAP-Bindings

The SOAP Interface offers the following functionalities

Reporting of HR-incidents with and without employee data

• SOAP-Binding: NewIncident

Note: Up to 100 HR-incidents in one message are possible.

Empty notification

• No longer required.



Definition of HR Incidents

New Incident - NEU Incident (New Incident with employee data)

In case of the NEU incident, a new employee is reported to the portal with all master data. Please note that an asynchronous error occurs if an employee (identified by the employeeId) is reported several times for a Careflex ID as new. The error can be retrieved over the feedback interface or in the portal.

New Incident - SDA Incident (Masterdata change without name and date of birth)

For the HR incident "SDA", an "Sda Incident" has to be sent. To this end, changed master data but the name and the date of birth are sent.

New Incident - SDB Incident (Masterdata change name)

For the HR incident "SDB", an "Sdb Incident" has to be sent. To this end, master data to change the name and the first name are sent.

New Incident - SDC Incident (Masterdata change date of birth)

For the HR incident "SDC", an "Sdc Incident" has to be sent. To this end, master data to change the date of birth are sent.

In case of incident "SDA", "SDB", "SDC" the master data of the employee is adjusted.

New Incident - Plain Incident (New Incident without employee data)

For all other HR incidents a "Plain Incident" is required. The master data of the employee to be reported is already known and does not need to be changed. Only the status of the person to be reported changes.

New Incident - EVK Incident (Company Change)

The "evkIncident" is handled like the plainIncident. However, in the case of the "EVK" incident (change of company), the CareFlexID in the "targetCompanyCareflexId" field of the new company must also be transferred.

No Incident (No Incident within a period)

No longer required.



Definition of the fields

Field	Field	Field mandatory for HR incident?				Field type	Example	Description	
name	(Full Incident) neuIncident sdaIncident sdbIncident sdcIncident		neulncident n Inci sdalncident Inci den sdblncident den t			Inci den	(allowed characters / length)		
	NEU	SDA	SDB	SDC	(rest)	EVK			
careflexId	yes	yes	yes	yes	yes	yes	alphanumeric (hexadecimal / 0-9 and a -f, 16 digits)	a1234567890b1234	Careflex_ID is the identification of the company and is assigned to the companies with a registration in the company portal
targetCom pany CareflexId	n.a.	n.a.	n.a.	n.a.	n.a.	yes	alphanumeric (hexadecimal / 0-9 and a -f, 16 digits)	a1234567890b1235	CareFlex_ID of the new eligible company to which the already existing employee will be transferred within the group.
									Only required in case of EVK incident, otherwise ignored.
apiToken	yes	yes	yes	yes	yes	yes	uuid / alphanumeric + "-" (hexadecimal / 0-9, a -f, "-", 36 digits)	fac88c7b-7fb6-4a9 2-b01f-d487761093 56	Permanently valid token that is associated with the Careflex_ID. Can be generated in the portal.
externalId	no	no	no	no	no	no	alphanumeric (hexadecimal / 0-9 and a -f, 256 digits)	Kunden-Id-1234-xx	Unique id of the company for a specifc HR-incident. (Has to be permanently unique, i.e. must not be used again in the future)
type	yes	yes	yes	yes	yes	yes	3	NEU	Type of HR incident, possible abbreviations under point 3 (the HR TYPE HELP is not used in the corporate area, but only by the employee via the portal)
createdAt	yes	yes	yes	yes	yes	yes	Date YYYY-MM-DD, not in the future, at most one month in the past	2020-07-15	Day on which the HR incident was posted / creation date
validFrom	yes	yes	yes	yes	yes	yes	Date YYYY-MM-DD, at most six months in the future	2020-07-01	Effective date / date of entry into force of the HR incident / effective date



title	no	no	n.a.	n.a.	n.a.	n.a.	Text	Prof. Dr.	Title of the employee
							TEXT		
firstName	yes	n.a.	yes	n.a.	n.a.	n.a.	Text	Thomas	First name of the employee
lastName	yes	n.a.	yes	n.a.	n.a.	n.a.	Text	Mustermann	Last name of the employee
birthday	yes	n.a.	n.a.	yes	n.a.	n.a.	Date YYYY-MM-DD, Date must not lie in the future. Minimum age is 18, maximum age is 100.	1979-01-15	Employee's date of birth
sex	yes	yes	n.a.	n.a.	n.a.	n.a.	Text (1 digit) (m/f/d)	m	Gender of the employee m - male f - female d - various
employeeI d	yes	yes	yes	yes	yes	yes	Text	1569	Personal identification number of the employee within the company (staff number)
street	yes	yes	n.a.	n.a.	n.a.	n.a.	Text	Musterstraße	Street (private address of the employee)
houseNum ber	yes	yes	n.a.	n.a.	n.a.	n.a.	Text	9	House number (private address of the employee)
addressSuf fix	Nein	Nei n	n.a.	n.a.	n.a.	n.a.	Text	c/o Max Hauptmieter	Additional address information (private address of the employee)
zipCode	yes	yes	n.a.	n.a.	n.a.	n.a.	alphanumeric (10 Stellen)	01234	ZIP code (private address of the employee)
city	yes	yes	n.a.	n.a.	n.a.	n.a.	Text	London	City (private address of the employee)
country	yes	yes	n.a.	n.a.	n.a.	n.a.	Text (2 digits), Codierung as in ISO-3166 (ALPHA-2)	DE	Country (private address of the employee)
employme ntSite	yes	yes	n.a.	n.a.	n.a.	n.a.	Text	Geschäftsstelle 1	Location affiliation / location name (The location of the employee is primarily important for the question "Where does the employee's consultation take place? Accordingly, in the case of an employee who cannot be permanently assigned to a location, the location where this employee is to be advised should be set).
employme ntStatus	yes	yes	n.a.	n.a.	n.a.	n.a.	Text (T/AT)	Т	Employment status T - tariff AT - non-tariff

startOfEmp loyment	yes	yes	n.a.	n.a.	n.a.	n.a.	Date YYYY-MM-DD, max. 100 years in the past; max. 36 months in the future, has to be before the effectivity date of the NEU message	2020-07-01	Start date of the employment
personnel Number	yes	yes	n.a.	n.a.	n.a.	n.a.	Text	1569	Internal personal number
manageme nt	yes	yes	n.a.	n.a.	n.a.	n.a.	True / False	True	True if employee is part of the management, false otherwise. Allows for a separate HR management level in the portal.
emailBusin ess	Nein	Nei n	n.a.	n.a.	n.a.	n.a.	Text	thomas.musterma nn@musterfirma.d e	Business contact data of the employee: Email-address
mobileBusi ness	Nein	Nei n	n.a.	n.a.	n.a.	n.a.	Text	0123 12345678	Business contact data of the employee: Mobile phone number
landlineBu siness	Nein	Nei n	n.a.	n.a.	n.a.	n.a.	Text	030 12345678	Business contact data of the employee: Landline number

(Remark: The field definitions can also be found in the WSDL and a validation against the therein contained XSD is done. In case of lacking mandatory fields the whole message is rejected.)

Meaning of "yes" and "no"

The word "yes" indicates that the field is mandatory. The message is rejected if not all mandatory fields are filled. The word "no" indicates that it is an optional field. It can be transferred with a value, empty or not at all.

Meaning of "n.a."

The field must not be transferred. If the field is transferred it will be ignored.

Validation of the valid_from date field

Depending on the HR incident type, the dates on which an incident can become valid are fixed:

NEU, WIK, ASP, EVK first day of a month RST, EVR, EVW, EVS, EVV first or last day of a month SDA, SDB, SDC, EVT no restrictions



HR-Incidents

Vorfall	
NEU	Neuer Mitarbeiter*
RST	Ruhendstellung des Vertrages
WIK	Wiederaufnahme Entgeltzahlung
EVW	Mitarbeiter verlässt das Unternehmen
EVK	Mitarbeiter wechselt den Arbeitgeber innerhalb des Konzerns
EVT	Mitarbeiter ist verstorben
EVR	Mitarbeiter geht in Altersrente
EVS	Wechsel des Beschäftigungsstatus
EVV	Mitarbeiter verzichtet auf CareFlex Chemie
SDA	Anpassung der Stammdaten notwendig (mit Ausnahme von Namen und Geburtsdatum)
SDB	Anpassung des Namens notwendig
SDC	Anpassung des Geburtsdatums notwendig
ASP	Änderung des Datums der Anspruchsberechtigung

Changes to the table of available HR incidents

- KOR: not applicable anymore
- EVV: new incident "End of contract due to waive".
- EVK: new incident "End of contract due to change within the group".



Examples

1. Combination of a change of address and a suspension of the contract:

Two messages must be transmitted for this.

RST: for the rest position

SDA: for the change of address (the change of address is only considered with the HR incident SDA)

2. Change of employer within the associated companies (this also applies to a change within a company if the company divisions have different CareflexIDs)

For this purpose, 2 reports must be submitted (by the respective company).

EVW: for deregistration from the original company with its CareflexID.

NEU: for the registration of the employee in the new company with its CareflexID

Authentication

All companies must authenticate themselves using a time-limited **access token** (oAuth Bearer Token). For this purpose, they receive the data for the service user (ID and Secret) via the portal (in the tab "Settings for data import"). The company can use this data to request a time-limited access token via the interface. The access token must then be transferred to the incident interface as a bearer token within the authentication headers during HTTP communication with the REST interface (same for SOAP).

If a company manages other companies, the access token is only to be generated for the CareFlex-ID of the managing company. All other companies have to use this same access token. So, there is only one combination of Service-User with Service-User-Secret that is used to manage a group of combined companies.

Authorization

All companies are required to submit both API tokens and CareFlex ID when reporting.

They must submit the CareFlex ID (of the Eligible Company) and the API Token (of the Reporting Company) with the notification.

The API token can be generated in the company portal under "CRM" / "Settings for data import". There is only one API token for all entities managed by a company.

The correctness of the Careflex ID in combination with the API token is not checked when the message is sent, but can be checked via the feedback function after the sent message has been successfully imported into the portal.



Examples

Communication example

Access-Token request:

```
POST EP1 (siehe oben)
with json body:
{
    "grant_type":"password",
    "username":"<user_id (service user)>",
    "password":"<user_secret (service user)>"
}
and headers:
"Content-Type: application/json"
```

The answer contains an access token that is valid for 12 hours:

```
{
    "access_token":"P7kmfo8HXItLLOReHq65o4%§ggg45dYhSm50Dc",
    "token_type":"Bearer",
    "expires_in":43200,
    "created_at":1589887223
}
```

The access token is used as a bearer token when communicating with the interface:

SOAP

POST EP3 (siehe oben)

with SOAP headers:

"Authorization: Bearer P7kmfo8HXItLLOReHq65o4%§ggg45dYhSm50Dc"

"Content-Type: text/xml;charset=UTF-8"

Germany

Payload-Examples

REST-Interface:

Reporting with and without master data:

```
REQUEST
<soapenv:Envelope</pre>
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://n4.de/careflex/2.0">
   <soapenv:Header/>
   <soapenv:Body>
      <ns:NewIncidentRequest>
         <careflexId>09ce3580d84bf087</careflexId>
         <apitoken>88ea9396-386f-4130-bd00-1dd34e5636bd</apitoken>
         <incidentList>
            <pl><plainIncident>
               <employeeId>4711
               <validFrom>2020-04-24</validFrom>
               <createdAt>2020-04-24/createdAt>
               <type>RST</type>
            </plainIncident>
            <neuIncident>
               <employeeId>4811
               <validFrom>2020-04-24</validFrom>
               <createdAt>2020-04-24/createdAt>
               <type>NEU</type>
               <employee>
                  <title>Prof. Dr.</title>
                  <firstName>Thomas</firstName>
                  <lastName>Mustermann/lastName>
                  <birthday>1979-01-15/birthday>
                  <sex>m</sex>
                  <address>
                     <street>Musterstraße</street>
                     <houseNumber>9</houseNumber>
                     <addressSuffix>c/o Max Hauptmieter</addressSuffix>
                     <zipCode>01234</zipCode>
                     <city>Musterstadt</city>
                     <country>DE</country>
                  </address>
                  <job>
                     <employmentSite>Geschäftsstelle 1</employmentSite>
                     <employmentStatus>T</employmentStatus>
                     <startOfEmployment>2020-04-24</startOfEmployment>
                     <personnelNumber>123654789</personnelNumber>
                     <management>true</management>
                  </job>
                  <contact>
                     <emailBusiness>
                        thomas.mustermann@musterfirma.de
                     </emailBusiness>
                     <mobileBusiness>0123 12345678</mobileBusiness>
                     <landlineBusiness>030 12345678</landlineBusiness>
                  </contact>
```



```
</employee>
            </neuIncident>
            <plainIncident>
               <externalId>KundenId-4711-2345</externalId>
               <employeeId>35801170498/employeeId>
               <validFrom>2020-04-24</validFrom>
               <createdAt>2020-04-24/createdAt>
               <type>RST</type>
            </plainIncident>
         </incidentList>
      </ns:NewIncidentRequest>
   </soapenv:Body>
</soapenv:Envelope>
RESPONSE
<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
    <SOAP-ENV:Header/>
    <SOAP-ENV:Body>
        <ns3:NewIncidentResponse xmlns:ns3="http://n4.de/careflex/2.0">
            <importId>550a80b5-de70-4078-860e-c03d75b1dc49</importId>
            <incidentResponseList>
                <incident>
                    <rowNumber>0</rowNumber>
                    <incidentId>
                        3b2d4888-a25c-4c8b-9818-aa6b428bd2de
                    </incidentId>
                    <employeeId>4711/employeeId>
                    <type>RSTxxx</type>
                </incident>
                <incident>
                    <rowNumber>1</rowNumber>
                    <incidentId>
                        3615b6af-e2f2-4dcf-a945-d9ad8546228b
                    </incidentId>
                    <employeeId>4811/employeeId>
                    <type>NEU</type>
                    <incidentError>
                        <code>422</code>
                        <message>The validation failed: The content of
the field 'type' is invalid with the reason: ungültiger Wert</message>
                    </incidentError>
                </incident>
                <incident>
                    <rowNumber>2</rowNumber>
                    <incidentId>
                        3b2d4888-a25c-4c8b-9818-aa6b428bd2df
                    </incidentId>
                    <externalId>KundenId-4711-2345</externalId>
                    <employeeId>35801170498/employeeId>
                    <type>RST</type>
                </incident>
            </incidentResponseList>
        </ns3:NewIncidentResponse>
    </SOAP-ENV:Body>
```



</SOAP-ENV:Envelope>