

SIF – Generic Web Service Layer

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1 About

This document describes the Web service layer of SI Integration Framework (SIF), which can be used by external systems to create, update and read data in 360.

Four types of methods are provided:

- Synchronize methods - Updates or creates depending on whether they exist or not.
- Create methods
- Update methods
- Get methods - Gets entities based on search criteria's.

1.1 Usage

There are multiple web service URL's. The exact URL depends on the server configuration, but in most cases they will be something like

[http://\[servername\]:8088/SI.WS.Core/SIF/ContactService.svc](http://[servername]:8088/SI.WS.Core/SIF/ContactService.svc)

.. or CaseService.svc, DocumentService.svc, UserService.svc, FileService.svc

WSDL's for these services are provided along with this document. WSDL specifies the functionality of a web service, and can be used to build the client code.

The default service endpoints use Soap 1.1, conform to WS-I Basic Profile 1.2, and use Basic authentication. Each service (apart from FileService) also has alternative endpoints with different configurations. These are accessed by adding a postfix to the URL.

| Endpoint | Soap | Authentication | Other |
|-----------------------|------|----------------|-------|
| .svc | 1.1 | Basic | |
| .svc/Basic | 1.1 | Basic | |
| .svc/Ntlm | 1.1 | Ntlm | |
| .svc/BasicMtom | 1.1 | Basic | Mtom |
| .svc/NtlmMtom | 1.1 | Ntlm | Mtom |

Other authentication methods and Soap 1.2 can be configured if required.

1.2 Authentication and ADContextUser

The ADContextUser property is supported by all the web service methods, and contains the login name of a valid 360 user. If provided, the operation will execute as (impersonate) this user. If not provided, the operation will execute as the user that has authenticated against the web service.

Only some users are allowed to impersonate other users. For instance, if the client authenticates against the service with the user "domain\administrator", and specifies "domain\user1" as ADContextUser, "domain\administrator" must have impersonation rights in 360. This is specified in the configuration file of the web service.

Typical scenario 1: The client of the web service is Application X. A service user is created for this application, "domain\appx_svc", which is configured with impersonation rights. The client

authenticates with “domain\appx_svc”, but provides the login of the end user, “domain\user1”, as ADContextUser. The operation is then executed as user1. For instance, if a case is created, user1 will be logged as the user who created it.

Typical scenario 2: Same as 1, except no ADContextUser is provided. In this case, the operation will be executed as appx_svc. If a contact is created, appx_svc will be logged as the user who created it.

It is recommended that a dedicated service user is created either for all clients to use in common (“domain\360sif_svc”), or for each of them to use separately (“appx_svc”, “appy_svc”, ..). If ADContextUser is provided, it’s enough with one common service user. If ADContextUser is not provided, it is recommended to have a service user for each client, so that the 360 log shows where the data came from. For instance, if both Application X and Application Y create contacts in 360, it is useful to know which of them created a specific contact.

1.3 Contact identifiers

There are three types of registered contacts in 360: Enterprises (/companies/departments), private persons and contact persons. A contact person is associated with an enterprise, a private person is not. A user always has a contact person, which contains the contact metadata of that user.

In the SIF web service, contacts are identified by their PersonalIdNumber (“fødselsnummer”) if they’re private persons, EnterpriseNumber (“organisasjonsnummer”) if they’re enterprises, or ExternalId if they’re contact persons. For instance, if you’re synchronizing a private person with PersonalIdNumber 1234567890, the service will look for a contact with that id, and update it if it exists.

When multiple external systems work with 360 contacts, or when there are existing contacts that should be referred to / updated by the web service, care must be taken to prevent duplicates and other problems. This should be analyzed before the system is put into production.

1.4 Validation of personal id number and enterprise number

When synchronizing private persons and enterprises, the service can optionally validate that the values comply with Norwegian fødselsnummer and organisasjonsnummer formats (11 and 9 digits, and satisfying a modulus 11 validation).

This functionality is toggled by the “SI.Data.WS.ValidateContactId” appSetting in the SIF web.config file. By default, it is set to false.

1.5 Code values

Some methods accept input in the form of code table values. For instance, when creating a case, you can set its Status property to a value from the Case status code table, such as “B”.

All properties that accept code values can alternatively accept the recno of the code, on the format “recno:123”. It is less risky to specify the code by recno, since it’s possible (but rare) for code values to change.

Read more about this in the [Common Code Table: values chapter](#).

1.6 Common property tags

(*)

This tag behind a property name means that the property is mandatory.

(\)

This tag behind property name means that at least one of properties with this symbol needs to be supplied.

2 Contact service

Typical URL: [http://\[servername\]:8088/SI.WS.Core/SIF/ContactService.svc](http://[servername]:8088/SI.WS.Core/SIF/ContactService.svc)

2.1 SynchronizeContactPerson

Creates or updates a contact person contact in 360 based on ExternalId. If the supplied ExternalId does not exist in 360 the contact is created. If the supplied ExternalId exists in 360 the contact is updated to mirror the supplied information.

In the scenario where there exists several contacts with the same ExternalId the oldest (lowest recno) will be updated, while an error message is logged to TraceView and the Windows Event Viewer. It is not possible that this web service method itself creates a duplicate of a contact, given that the ExternalId is correct.

OBS: If a property is not set, meaning it is blank or null; the corresponding value in 360 will be set to an empty value. This behavior is unique to the contact related synchronization methods.

2.1.1 Input

Data Contract: SynchronizeContactPersonParameter

| Input Property | 360° field | Comment |
|----------------------|------------------------|---|
| ADContextUser | - | Read the general information section. |
| FirstName(*) | Contact – Name2 | Mandatory when creating the contact |
| MiddleName | Contact – Name2 | Middle name of the contact, concatenated to FirstName. |
| LastName(*) | Contact – Name3 | Mandatory when creating the contact |
| ExternalId(*) | Contact – ExternalID | The external id number of the contact used as a unique identifier for the contact in 360. If unique, a new contact is created, otherwise the contact is updated. If more than one external system use the web service, external id's must be unique also between external systems. |
| Enterprise(*) | Contact – ToEmployer | The OrgNo of the enterprise the contact is connected to, most likely as an employee. |
| Categories | Contact – Categories | List of categories, identified by their code name in the configured language, or by recno on the format "recno:123". If this property is not specified (null), no changes will be made to the user's existing categories. |
| Email | Contact – TeleObject 6 | |

| | | |
|--|---|--|
| PhoneNumber | Contact – TeleObject 1 | |
| MobilePhone | Contact – TeleObject 27 | |
| PrivateAddress | Contact - Addresses | PrivateAddress is an address object, see fields needed for input under “ Data Contract: Address ”. |
| PostAddress | Contact - Addresses | PostAddress is an address object, see fields needed for input under “ Data Contract: Address ”. |
| DataSource | | DataSource is presented as a log entry under the Log-tab on the contact. The point is to track which systems have made updates to the contact. No logging is done if this property is empty or not set. |
| Gender | Contact - Gender | Enum Gender.Female or Gender.Male |
| Initials | Contact - Initials | After DLL version 1.0.0.58408 : Added. Null values will clear stored data. Before DLL version 1.0.0.58408 : Not available and would not clear stored data. |
| CustomNo1 CustomNo2 CustomNo3 | Contact – No1 Contact – No2 Contact – No3 | Standard fields that can be used to store custom data in. Usage vary from customer to customer. Contrary to other properties on this contract, null values will NOT clear stored data. To clear stored data you have to input an empty “ ” string. Because of backwards compatibility considerations. |

2.1.2 Output

Data Contract: SynchronizeContactPersonResult

| Output Property | 360° field | Comment |
|---------------------|-----------------|--|
| Recno | Contact – Recno | Unique ID in 360 for the contact |
| Successful | - | If true, everything is ok. If false, the operation failed. |
| ErrorMessage | - | If unsuccessful, this contains a short error message |
| ErrorDetails | - | If unsuccessful, this contains a full stack trace |

2.2 SynchronizePrivatePerson

This creates or updates a private person contact in 360 based on PersonalIdNumber. If the supplied PersonalIdNumber does not exist in 360 the contact is created. If the supplied PersonalIdNumber exists in 360 the contact is updated to mirror the supplied information.

In the scenario where there exists several contacts with the same PersonalIdNumber the oldest (lowest recno) will be updated, while an error message is logged to TraceView and the Windows Event Viewer. It is not possible that this web service method itself creates a duplicate of a contact, given that the PersonalIdNumber is correct.

OBS: If a property is not set, meaning it is blank or null; the corresponding value in 360 will be set to an empty value. This behavior is unique to the contact related synchronization methods.

2.2.1 Input

Data Contract: SynchronizePrivatePersonParameter

| Input Property | 360° field | Comment |
|----------------------------|---------------------------|--|
| ADContextUser | - | Read the general information section. |
| FirstName(*) | Contact – Name2 | Mandatory when creating the contact |
| MiddleName | Contact – Name2 | Middle name of the contact, concatenated to FirstName. |
| LastName(*) | Contact – Name3 | Mandatory when creating the contact |
| PersonalIdNumber(*) | Contact – Referencenumber | The personal identity number of the contact used as a unique identifier for the contact in 360. If unique, a new contact is created, otherwise the contact is updated. Can optionally validate that the values comply with Norwegian fødselsnummer and organisasjonsnummer formats (11 and 9 digits, and satisfying a modulus 11 validation). |
| Email | Contact – TeleObject 6 | |
| PhoneNumber | Contact – TeleObject 1 | |
| MobilePhone | Contact – TeleObject 27 | |
| PrivateAddress | Contact - Addresses | PrivateAddress is an address object, see fields needed for input under " Data Contract: Address ". |
| PostAddress | Contact - Addresses | PostAddress is an address object, see fields needed for input under " Data Contract: Address ". |

| | | |
|--|---|--|
| DataSource | | DataSource is presented as a log entry under the Log-tab on the contact. The point is to track which systems have made updates to the contact. No logging is done if this property is empty or not set. |
| Categories | Contact – Categories | List of categories, identified by their code name in the configured language, or by recno on the format “recno:123”. If this property is not specified (null), no changes will be made to the contact’s existing categories. |
| Gender | Contact - Gender | Enum Gender.Female or Gender.Male |
| Initials | Contact - Initials | After DLL version 1.0.0.58408 : Added. Null values will clear this field. Before DLL version 1.0.0.58408 : Not available and was never cleared. |
| CustomNo1 CustomNo2 CustomNo3 | Contact – No1 Contact – No2 Contact – No3 | Standard fields that can be used to store custom data in. Usage vary from customer to customer. Contrary to other properties on this contract, null values will NOT clear stored data. To clear stored data you have to input an empty “ ” string. Because of backwards compatibility considerations. |

2.2.2 Output

Data Contract: SynchronizePrivatePersonResult

| Output Property | 360° field | Comment |
|---------------------|-----------------|--|
| Recno | Contact – Recno | Unique ID in 360 for the contact |
| Successful | - | If true, everything is ok. If false, the operation failed. |
| ErrorMessage | - | If unsuccessful, this contains a short error message |
| ErrorDetails | - | If unsuccessful, this contains a full stack trace |

2.3 SynchronizeEnterprise

This creates or updates an enterprise contact in 360 based on PersonalIdNumber. If the supplied PersonalIdNumber does not exist in 360 the contact is created. If the supplied PersonalIdNumber exists in 360 the contact is updated to mirror the supplied data.

In the scenario where there exists several contacts with the same PersonalIdNumber the oldest (lowest recno) will be updated, while an error message is logged to TraceView and the Windows Event Viewer. It is not possible that this web service method itself creates a duplicate of a contact, given that the PersonalIdNumber is correct.

OBS: If a property is not set, meaning it is blank or null; the corresponding value in 360 will be set to an empty value. This behavior is unique to the contact related synchronization methods.

2.3.1 Input

Data Contract: SynchronizeEnterpriseParameter

| Input Property | 360° field | Comment |
|-------------------------------|--|--|
| ADContextUser | - | Read the general information section. |
| Name(*) | Contact – Name | Mandatory when creating the contact |
| EnterpriseNumber(*) | Contact – Referencenumber | Enterprise number of the company. Represents a unique identifier for the enterprise in 360. Can optionally validate that the values comply with Norwegian fødselsnummer and organisasjonsnummer formats (11 and 9 digits, and satisfying a modulus 11 validation). |
| ParentEnterpriseNumber | Contact – ToEmployer | Enterprise number of the parent company. |
| PhoneNumber | Contact – Teleobject 1 | |
| Email | Contact – Teleobject 6 | |
| PostAddress | Contact – Addresses | Postal address of the company. PostAddress is an address object, see fields needed for input under chapter: “Data Contract: Address” . |
| OfficeAddress | Contact – Addresses | Office address of the company. OfficeAddress is an address object, see fields needed for input under chapter: “Data Contract: Address” . |
| DataSource | | DataSource is presented as a log entry under the Log-tab on the contact. The point is to track which systems have made updates to the contact. No logging is done if this property is empty or not set. |
| Categories | Contact – Categories | List of categories, identified by their code name in the configured language, or by recno on the format “recno:123”. If this property is not specified (null), no changes will be made to the contact’s existing categories. |
| ContactRelations | Contact - FromMeToOthers | List of contact – contact relations. All relations are hardcoded to relation role “Cooperate with”. Note: Only a private persons or an enterprise may be added as a relation to a Contact. |
| ReferenceNumber | Contact – FromMeToOthers - Referencenumber | EnterpriseNumber or PersonalIdNumber of the connected contact. |

| | | |
|--|---|--|
| Initials | Contact - Initials | After DLL version 1.0.0.58408 : Added. Null values will clear this field. Before DLL version 1.0.0.58408 : Not available and was never cleared. |
| CustomNo1 CustomNo2 CustomNo3 | Contact – No1 Contact – No2 Contact – No3 | Standard fields that can be used to store custom data in. Usage vary from customer to customer. Contrary to other properties on this contract, null values will NOT clear stored data. To clear stored data you have to input an empty “ ” string. Because of backwards compatibility considerations. |

2.3.2 Output

Data Contract: SynchronizeEnterpriseResult

| Output Property | 360° field | Comment |
|---------------------|-----------------|--|
| Recno | Contact - Recno | Unique ID in 360 for the contact |
| Successful | - | If true, everything is ok. If false, the operation failed. |
| ErrorMessage | - | If unsuccessful, this contains a short error message |
| ErrorDetails | - | If unsuccessful, this contains a full stack trace |

2.4 GetContactPersons

Retrieves contact persons from 360 based on criteria defined in the input parameter. At least one criteria (Name, Recno, Categories or ExternalId) must be given. Returns a list of matching contact persons.

2.4.1 Input

Data Contract: GetContactPersonParameter

| Input Property | 360° field | Comment |
|----------------------|----------------------|---|
| ADContextUser | | Read the general information section. |
| Name(\) | Contact – SearchName | Name of the contact. Returns all contacts with a name that contains the search name. Example: “Inge” will return “Knut Inge N.” and “Inge Larsen” |
| ExternalId(\) | Contact – ExternalID | External identity number (unique |

| | | |
|----------------------|----------------------|--|
| | | identifier) of the contact. Must be an exact match to return a contact. |
| Recno(\) | Contact – Recno | Recno (unique identifier in 360) of the contact. Must be an exact match to return a contact. |
| Categories(\) | Contact – Categories | List of categories, identified by their code name in the configured language, or by recno on the format “recno:123”. |

2.4.2 Output

Data Contract: GetContactPersonResult

| Output Property | 360° field | Comment |
|-----------------------|------------|---|
| ContactPersons | Contact | List of ContactPersonBase objects. See chapter “ Data Contract: ContactPersonBase ” for details. |
| Successful | - | Will be true as long as no exception occurred during the execution. This means that successful will be true even if no contact persons matching the criteria was found. |
| ErrorMessage | - | If successful is false, this contains a short error message |
| ErrorDetails | - | If successful is false, this contains a full stack trace |

2.5 GetPrivatePersons

Retrieves private persons from 360 based on criteria defined in the input parameter. At least one criteria (Name, Recno or PersonalIdNumber) must be given. Returns a list of matching private persons.

2.5.1 Input

Data Contract: GetPrivatePersonParameter

| Input Property | 360° field | Comment |
|----------------------------|----------------------|---|
| ADContextUser | | Read the general information section. |
| Name(\) | Contact – SearchName | Name of the contact. Returns all contacts with a name that contains the search name. Example: “Inge” will return “Knut Inge N.” and “Inge Larsen” |
| PersonalIdNumber(\) | Contact – | Personal identity number (unique |

| | | |
|-----------------|-----------------|--|
| | ReferenceNumber | identifier) of the contact. Must be an exact match to return a contact. |
| Recno(l) | Contact – Recno | Recno (unique identifier in 360) of the contact. Must be an exact match to return a contact. |

2.5.2 Output

Data Contract: GetPrivatePersonResult

| Output Property | 360° field | Comment |
|-----------------------|------------|---|
| PrivatePersons | Contact | List of PrivatePersonBase objects. See chapter “ Data Contract: PrivatePersonBase ” for details. |
| Successful | - | Will be true as long as no exception occurred during the execution. This means that successful will be true even if no private persons matching the criteria was found. |
| ErrorMessage | - | If successful is false, this contains a short error message |
| ErrorDetails | - | If successful is false, this contains a full stack trace |

2.6 GetEnterprises

Retrieves enterprises from 360 based on criteria defined in the input parameter. At least one criteria (Name, Recno, Categories or EnterpriseNumber) must be given. Returns a list of matching enterprises.

2.6.1 Input

Data Contract: GetEnterpriseParameter

| Input Property | 360° field | Comment |
|----------------------------|---------------------------|--|
| ADContextUser | - | Read the general information section. |
| Name(\) | Contact – SearchName | Name of the company. Returns all contacts with a name that contains the search name. Example: "Innovation" will give a hit on "Software Innovation". |
| EnterpriseNumber(\) | Contact – ReferenceNumber | Enterprise identity number (unique identifier) of the company. Must be an exact match to return a contact |
| Recno(\) | Contact – Recno | Recno (unique identifier in 360) of the company. Must be an exact match to return an enterprise |
| Categories(\) | Contact – Categories | List of categories, identified by their code name in the configured language, or by recno on the format "recno:123". |

2.6.2 Output

Data Contract: GetEnterpriseResult

| Output Property | 360° field | Comment |
|---------------------|------------|---|
| Enterprises | Contact | List of PrivatePersonBase objects. See the chapter " Data Contract: EnterpriseResult " for details. |
| Successful | - | Will be true as long as no exception occurred during the execution. This means that successful will be true even if no enterprises matching the criteria was found. |
| ErrorMessage | - | If successful is false, this contains a short error message |
| ErrorDetails | - | If successful is false, this contains a full stack trace |

2.7 Sub Contracts

This chapter defines data contracts in use by the main data contracts of the Contact methods.

2.7.1 Data Contract: Address

| Property | 360° field | Comment |
|----------------------|--------------------|---|
| StreetAddress | Address - Address | Example: "Drammensveien 1" |
| ZipCode | Address - ZipCode | Zip code of address. |
| ZipPlace | Address - ZipPlace | Zip place (City) of address. |
| Country(*) | Address - Country | Country of address. To create an address the user has to include "Country" together with another field. E.g. just sending in "Country" will not create an address, but sending in Country and StreetAddress will create an address. Example of input formats: "Norway" or "NOR". |
| County | Address - County | Municipality of address. Norwegian: "Kommune". Examples of input formats: "BODØ" or "1804", it is recommended that the number format is used, i.e. "1804". |
| Area | Address - Area | County of address. Norwegian: "Fylke". Examples of input formats: "NORDLAND" or "18", it is recommended that the number format is used, i.e. "18". |
| State | Address – State | Very optional, only used for some foreign countries. |

2.7.2 Data Contract: ContactPersonBase

| Property | 360° field | Comment |
|-----------------------|-------------------------|--|
| FirstName | Contact – Name2 | |
| LastName | Contact – Name3 | Mandatory when creating the contact |
| ExternalId | Contact – ExternalId | The external identity number of the contact, used as the unique identifier for the contact in 360. |
| Enterprise | Contact – ToEmployer | The OrgNo of the Enterprise the contact is connected to. |
| Email | Contact – TeleObject 6 | |
| PhoneNumber | Contact – TeleObject 1 | |
| MobilePhone | Contact – TeleObject 27 | |
| PrivateAddress | Contact - Addresses | PrivateAddress is an address object, see details under the chapter: “Data Contract: Address” . |
| PostAddress | Contact - Addresses | PostAddress is an address object, see details under the chapter: “Data Contract: Address” . |

2.7.3 Data Contract: PrivatePersonBase

| Property | 360° field | Comment |
|-------------------------|---------------------------|--|
| FirstName | Contact – Name2 | |
| LastName | Contact – Name3 | Mandatory when creating the contact |
| PersonalIdNumber | Contact – Referencenumber | The personal identity number of the contact, used as the unique identifier for the contact in 360. |
| Email | Contact – TeleObject 6 | |
| PhoneNumber | Contact – TeleObject 1 | |
| MobilePhone | Contact – TeleObject 27 | |
| PrivateAddress | Contact - Addresses | PrivateAddress is an address object, see details under the chapter: “Data Contract: Address” . |
| PostAddress | Contact - Addresses | PostAddress is an address object, see details under the chapter: “Data Contract: Address” . |

2.7.4 Data Contract: EnterpriseResult

| Output Property | 360° field | Comment |
|-----------------|------------|---------|
|-----------------|------------|---------|

| | | |
|-------------------------|-----------------------------|--|
| EnterpriseNumber | Contact – Referencenumber | Unique ID in 360 for the contact, also the contact's personal ID number |
| Name | Contact – Name | |
| PhoneNumber | Contact – Teleobject 1 | |
| Email | Contact – Teleobject 6 | |
| OfficeAddress | Contact – Addresses | OfficeAddress is an address object, see details under the chapter: “Data Contract: Address” |
| PostAddress | Contact - Addresses | PostAddress is an address object, see details under the chapter: “Data Contract: Address” |
| ContactRelations | Contact – ToContacts | A list of contacts associated with the enterprise. The list contains EnterpriseContactResult objects. |
| Name | Contact – ToContacts - Name | Name of a contact person |

3 User service

Typical URL: [http://\[servername\]:8088/SI.WS.Core/SIF/UserService.svc](http://[servername]:8088/SI.WS.Core/SIF/UserService.svc)

3.1 SynchronizeUser

Creates or updates a user in 360, identified by its login name. If the user does not exist, it is created. If it exists, it is updated to match the input.

A user must be connected to an existing 360 contact person, so always call SynchronizeContactPerson in the contact service first.

3.1.1 Input

Data Contract: SynchronizeUserParameter

| Input Property | 360° field | Comment |
|------------------------------|--------------------------|---|
| ADContextUser | - | Read the general information section. |
| Login (*) | User – UserID | Login name |
| ContactExternalId (*) | User – ToContact | Reference to the user's contact person |
| IsActive | User – Active | True/false. Default: True |
| Profiles | User profile | If the parameter is not specified (null), profiles are not synchronized, and no existing profiles will be overwritten. If it is specified, even with an empty list, existing profiles will be overwritten. |
| Role (*) | User profile – ToSysrole | Code from the Sysroles code table, (using the configured language), or recno on the format "recno:123" |
| Enterpriseld (*) | User profile – ToOrgUnit | The role's organization unit. Set to either it's external id or enterprise number, or recno on the format "recno:123" |
| FromDate | User profile – FromDate | A date the profile is valid from |
| ToDate | User profile – ToDate | A date the profile is valid to |
| AccessGroups | Access Group Members | If the parameter is not specified (null), access groups are not synchronized, and no existing group memberships will be overwritten. If it is specified, even with an empty list, existing group memberships will be overwritten. |
| AccessGroup (*) | AGM – ToAccessGroup | Name of the access group, or recno on the format "recno:123" |
| FromDate | AGM – FromDate | A date the membership is valid from |

| | | |
|---------------|--------------|-----------------------------------|
| ToDate | AGM – ToDate | A date the membership is valid to |
|---------------|--------------|-----------------------------------|

The Profiles and AccessGroups properties are optional. If not specified at all (null), no changes will be made to existing profiles and group memberships, allowing these to be maintained manually.

3.1.2 Output

Data Contract: SynchronizeUserResult

| Output Property | 360° field | Comment |
|---------------------|--------------|--|
| Recno | User – Recno | Internal 360 id for the user |
| Successful | | If true, everything is ok. If false, the operation failed. |
| ErrorMessage | | If unsuccessful, this contains a short error message |
| ErrorDetails | | If unsuccessful, this contains a full stack trace |

3.2 GetUsers

Retrieves users from 360 based on criteria defined in the input parameter, input parameter can be empty. Possible criterias (UserId,ContactExternalId or none). Returns a list of matching users.

3.2.1 Input

Data Contract: GetUsersParameters

| Input Property | 360° field | Comment |
|--------------------------|---------------|--|
| ADContextUser | | Read the general information section. |
| UserId | User - UserId | The ID that identifies the User (typically "domain\user"). |
| ContactExternalId | | Search users associated with the given contact external id |

3.2.2 Output

Data Contract: GetUsersResult

| Output Property | 360° field | Comment |
|-----------------|------------|--|
| Users | User | List of User Base objects. See chapter "Data Contract - UserBase" for details. |

3.3 Sub Contracts

This chapter defines data contracts in use by the main data contracts of the User methods.

3.3.1 Data Contract: UserBase

| Property | 360° field | Comment |
|--------------------------|----------------------|---|
| Login | | |
| ContactExternalId | Contact - ExternalID | Contact ID in the external system. If this user don't have an external id, the format will be "recno:xxxx" |
| IsActive | | Boolean : Indicates if the user is active or not |
| Profiles | UserProfile | Array of connected user profiles. See chapter "Data Contract - UserProfile" for details. |
| AccessGroups | AccessGroup | Array of connected access groups. See chapter "Data Contract – AccessGroupMembership" for details. |
| | | |

3.3.2 Data Contract: UserProfile

| Property | 360° field | Comment |
|---------------------|-------------------------|--|
| Role | UserProfile - ToSysrole | A relation to the System Role this profile is using. |
| Enterpriseld | | External ID for user profile's organization unit. |
| FromDate | UserProfile - FromDate | The Start date that this profile is valid from. |
| Todate | UserProfile - ToDate | The profile is valid to this date. |
| | | |

3.3.3 Data Contract: AccessGroupMembership

| Property | 360° field | Comment |
|--------------------|------------------------|--|
| AccessGroup | AccessGroup - Code | Ident of this AccessGroup |
| FromDate | AccessGroup - FromDate | The Start date this accessgroup is valid from. |
| Todate | AccessGroup - ToDate | The accessgroup is valid to this date. |

4 Case service

Typical URL: [http://\[servername\]:8088/SI.WS.Core/SIF/CaseService.svc](http://[servername]:8088/SI.WS.Core/SIF/CaseService.svc)

4.1 CreateCase

Creates a case in 360 with the case type Case ("Sak/Noark Sak" in Norwegian). The parameters in the data contracts accept either code value of the respective code or recno if nothing else is specified.

4.1.1 Input

Data Contract: CreateCaseParameter

| Input Property | 360° field | Comment |
|------------------------|---------------------------------|--|
| ADContextUser | | Read the general information section. |
| Title(*) | Case – Description | |
| UnofficialTitle | Case – UnofficialTitle | If not set, Title will be used |
| ExternalId | | External ID for the case. |
| Id | ExternalObject – Id | External id. String value. |
| Type | ExternalObject - ToExternalType | <p>External id type. Not mandatory. If not provided, default type "SI WS Case" will be used.</p> <p>External id is unique within each type, so type can be used if cases are importet from more than one external system which use ExternalId.</p> <p>Should have a name to reflect system and entity, e.g. "Visma Case".</p> <p>Types will be added to the code table <i>External type</i> when a new</p> |

| | | |
|---------------------|----------------------|---|
| | | type is provided. |
| StartDate | Case – StartDate | Start date of the case progress. Defaults to the creation date of the case. |
| Status | Case – ToCaseStatus | <p>Code value or recno. View common values.</p> <p>Example of use: Status="B"; sets the status to "Under handling"</p> <p>ArchiveCode and ArchiveType needs to be supplied to set the status that closes the case. E.g. "A" – "Avsluttet"</p> <p>Defaults according to the ADUserContext user's role:</p> <ul style="list-style-type: none"> - Archivist = Closed - Case Manager = Reserved |
| ClosedDate | Case – ClosedDate | <p>The date the case is closed. Should be used together with a closing status and is ignored otherwise.</p> <p>The following happens if the Status property is set to a closing status:</p> <ul style="list-style-type: none"> - If this property is set, the case will gain this date as ClosedDate. - If this property is not set 360 automatically sets the ClosedDate to the current date. |
| JournalUnit | Case – ToJournalUnit | Can be code value or recno. E.g. JournalUnit="Sentralarkiv" |
| SubArchive | Case – ToSubArchive | Can be code value or recno. E.g. SubArchive="Sakarkiv", "60001" or "recno:60001" |
| ArchiveCodes | Case – ToClassCodes | At least one ArchiveCode needs to be set to close the case. This is a list of ClassCodeParameter objects. See the chapter " Data Contract ClassCodeParameter " for details. |
| FiledOnPaper | Case – Paper | Indicating (true/false) if the case is stored on paper. |

| | | |
|----------------------------------|----------------------|---|
| Keywords | Case – Keywords | List of keywords connected to the case. If a keyword that does not exist in 360 is used, this is added to the keywords code table (the user needs Admin rights to create keywords). |
| AccessCode | Case – ToAccessCode | Code value or recno. E.g. AccessCode = “U” or “recno:0” Some access codes require Paragraph to be specified as well. |
| Paragraph | Case - Paragraph | Can be code value or recno. E.g. Paragraph = “OFL § 11” Mandatory for some access codes. |
| AccessGroup | Case – ToAccessGroup | Can be code value or recno. E.g. AccessGroup = “Public” |
| Notes | Case – Notes | Notes on the case |
| CaseType | Case - CaseType | Code or recno value, for instance “Sak” or “recno:2”. Default: 2 (Noark case) Refers to the <i>Case type</i> code table. |
| ResponsiblePersonIdNumber | Case – OurRef | The external ID of the responsible person. Looks for a contact with ExternalId equal to the property input. It is only possible to set a contactperson in the same enterprise hierarchy as the ADUserContext user as responsible. Provide only ONE of the four possible fields to ID responsible person. |
| ResponsiblePersonRecno | Case – OurRef | Looks for a contact with Recno equal to the property input. |
| ResponsiblePersonEmail | Case – OurRef | Looks for a contact with Email equal to the property input. |
| ResponsiblePersonUserId | Case – OurRef | Looks for a contact with UserId (username, E.g. “no\name.name”) |

| | | |
|------------------------------------|-----------------------|--|
| ResponsibleEnterpriseNumber | Case – ToOrgUnit | <p>The enterprise number of the responsible enterprise.</p> <p>Looks for a contact with ExternalID first, then for one with reference number equal to the property input.</p> <p>If neither this nor the ResponsibleEnterpriseRecno property is set, the responsible enterprise will be set to the responsible person's enterprise. If the responsible person is not set, the responsible enterprise will be set to the main enterprise of all the users.</p> <p>It is only possible to set the responsible enterprise to an enterprise in the same enterprise hierarchy as the ADUserContext user.</p> <p>Provide only ONE of the two possible fields to ID responsible enterprise.</p> |
| ResponsibleEnterpriseRecno | Case – ToOrgUnit | Looks up enterprise based on recno. Must be recno of a valid enterprise. See also ResponsibleEnterpriseNumber. |
| Contacts | Case - ToCaseContact | List of contacts with associated roles. See sub contract CaseContactParameter |
| ReferringCases | Case – ReferringCases | List of case numbers of referring cases. E.g. ("14/0001", "14/0002") Ignored if empty |
| Project | Case – Project | Project number of the project this case should be connected to. |
| Remarks | Case – ToNotes | List of remarks to be added to case |
| Title (*) | Note – Title | Remark title Mandatory |
| Content | Note - Notes | Remark content |
| RemarkType (*) | Note - ToNoteType | Uses code table: Note type Can be code value or recno. Mandatory |

| | | |
|-------------------------|-----------------------|---|
| ScrapCode | Case – ToScrapCode | Can be code value or recno. E.g. ScrapCode = "B" |
| Category | Case – ToCaseCategory | Can be code value or recno. E.g. Category = "Leveranse" or "recno:1" |
| AdditionalFields | - | Additional fields – see chapter for AdditionalFieldParameter for details, what kind of fields and how to use this parameter. |
| | | |

4.1.2 Output

Data Contract: CaseOperationResult

| Output Property | 360° field | Comment |
|---------------------|--------------|--|
| Recno | Case - Recno | Unique ID in 360 for the case. |
| CaseNumber | Case - Name | The case number given by 360. |
| Successful | - | If true, everything is ok. If false, the operation failed. |
| ErrorMessage | - | If unsuccessful, this contains a short error message |
| ErrorDetails | - | If unsuccessful, this contains a full stack trace |

4.2 UpdateCase

Updates a case in 360. If the case has a closed status this operation can only be done by an archivist.

If a property is set to null, meaning not provided in the parameter passed to the method, the property is not updated. To clear the field in 360 the property has to be explicitly set to "". Only works for string properties. Archive codes supplied to this method is ignored and no changes to an archive code is possible once the case is created.

4.2.1 Input

Data Contract: UpdateCaseParameter

| Input Property | 360° field | Comment |
|------------------------|---------------------------------|---|
| ADContextUser | - | Read the general information section. |
| CaseNumber() | Case – Name | The case number. This property will be used to determine which case will be updated. A case cannot have its case number updated. |
| ExternalId() | | External id. This property will be used to determine which case will be updated. A case cannot have its external ID updated. Lookup is based on the combination of Id and Type. Provide only ONE of the two possible fields to ID the case. |
| Id | ExternalObject – Id | External id. |
| Type | ExternalObject - ToExternalType | If not provided, default value "SIF WS Case" will be used. This is the type set via CreateCase if type was not provided when importing a case. |
| Title | Case – Description | |
| UnofficialTitle | Case – UnofficialTitle | |
| StartDate | Case – StartDate | The start date of the case progress. |
| Status | Case – ToCaseStatus | May only be set to a closing status if ArchiveCode and ArchiveType are also set or have been set. If the status is set to a closing status (e.g. "Closed") the closed date of the case is set to the current date. |

| | | |
|----------------------------------|-------------------------|---|
| JournalUnit | Case – ToJournalUnit | Can be code value or recno. E.g. JournalUnit="Sentralarkiv" |
| SubArchive | Case – ToSubArchive | Can be code value or recno. E.g. SubArchive="Sakarkiv" |
| FiledOnPaper | Case – Paper | Indicating (true/false) if the case is stored on paper. |
| ArchiveCodes | Case – ToClassCodes | At least one ArchiveCode needs to be set to close the case. This is a list of ClassCodeParameter objects. Codes are appended. Existing codes can not be modified. See the chapter " Data Contract ClassCodeParameter " for details. |
| Keywords | Case – Keywords | When updating keywords this is the update rules: 1) New keywords are added 2) Existing keywords are ignored 3) Missing keywords are ignored |
| AccessCode | Case – ToAccessCode | Can be code value or recno. E.g. AccessCode = "U" If the access code requires a paragraph the field paragraph has to offer a valid paragraph. N.B: If a recno value is used, this recno value <u>can not</u> also exist as a code value. |
| Paragraph | Case – Paragraph | Can be code value or recno. E.g. Paragraph = "OFL § 11" |
| AccessGroup | Case – ToAccessGroup | Can be code value or recno. E.g. AccessGroup = "Public" |
| Notes | Case – Notes | Notes of the case. |
| ResponsiblePersonIdNumber | Case – OurRef | The external ID of the responsible person. Looks for a contact with ExternalId equal to the property input. It is only possible to set a contactperson in the same enterprise hierarchy as the ADUserContext user as responsible. Provide only ONE of the four possible fields to ID responsible person. |
| ResponsiblePersonRecno | Case – OurRef | Looks for a contact with Recno equal to the property input. |

| | | |
|------------------------------------|-----------------------|--|
| ResponsiblePersonEmail | Case – OurRef | Looks for a contact with Email equal to the property input. |
| ResponsiblePersonUserId | Case – OurRef | Looks for a contact with UserId equal to the property input (username, E.g. “no\name.name”) |
| ResponsibleEnterpriseNumber | Case – ToOrgUnit | <p>The enterprise number of the responsible enterprise.</p> <p>Looks for a contact with ExternalID first, then for one with reference number equal to the property input.</p> <p>If neither this nor the ResponsibleEnterpriseRecno property is set, the responsible enterprise will be set to the responsible person’s enterprise. If the responsible person is not set, the responsible enterprise will be set to the main enterprise of all the users.</p> <p>It is only possible to set the responsible enterprise to an enterprise in the same enterprise hierarchy as the ADUserContext user.</p> <p>Provide only ONE of the two possible fields to ID responsible enterprise.</p> |
| ResponsibleEnterpriseRecno | Case – ToOrgUnit | This field is a fallback field and is only used if ResponsibleEnterpriseNumber is null or empty. Must be recno of a valid enterprise. |
| Contacts | Case - ToCaseContact | <p>This adds contacts to the case. Existing case contacts will not be deleted or updated. You can also add an existing contact with a new role.</p> <p>See sub contract CaseContactParameter</p> |
| ReferringCases | Case – ReferringCases | List of case numbers of referring cases. E.g. (“14/0001”, “14/0002”) Ignored if empty. |
| Project | Case – Project | Project number of the project this case should be connected to. |
| ScrapCode | Case – ToScrapCode | Can be code value or recno. E.g. ScrapCode = “B” |
| Remarks | Case – ToNotes | List of remarks to be added to case |

| | | |
|-------------------------|--------------------------|---|
| Title (*) | Note – Title | Remark title Mandatory |
| Content | Note - Notes | Remark content |
| RemarkType (*) | Note - ToNoteType | Uses code table: Note type Can be code value or recno. Mandatory |
| Category | Case – ToCaseCategory | Can be code value or recno. E.g. Category = "Leveranse" or "recno:1" |
| AdditionalFields | | Additional fields – see chapter for AdditionalFieldParameter for details, what kind of fields and how to use this parameter. |

4.2.2 Output

Data Contract: CaseOperationResult

| Output Property | 360° field | Comment |
|---------------------|--------------|---|
| Recno | Case – Recno | Unique ID in 360 for the contact |
| CaseNumber | Case – Name | The case number given in 360. |
| Successful | - | If true, everything is ok. If false, the operation failed. |
| ErrorMessage | - | If unsuccessful, this contains a short error message |
| ErrorDetails | - | If unsuccessful, this contains a full stack trace |

4.3 GetCases

Retrieves a list of all cases fulfilling the criteria of all the nonblank properties of the supplied parameter. At least one of the properties (\) must be given. No partial values are allowed.

4.3.1 Input

Data Contract: GetCasesQuery

| Input Property | 360° field | Comment |
|----------------------------------|---------------------------------|--|
| ADContextUser | - | Read the general information section. |
| MaxReturnedCases | - | The maximum number of cases returned by the search. Default is 100. |
| CaseNumber(\) | Case – Name | The case number of the case you wish to retrieve. |
| ExternalId(\) | | The external id of the case you wish to retrieve. Search uses a combination of Id and Type. |
| Id | ExternalObject – Id | External id of a case. |
| Type | ExternalObject - ToExternalType | If not provided, default value “SIF WS Case” will be used. This is the type set via CreateCase if type was not provided when importing a case. |
| Title(\) | Case – Description | <p>After DLL version 1.0.0.58254: The title search is based on the SQL “LIKE” operator. It is still possible to search for exact matches, but the possibility to search with wildcards is now introduced. For instance, “%” can be used as a substitute for zero or more characters in the title search.</p> <p>Before DLL version: 1.0.0.58254: Only cases matching the exact title will be returned due to the search being based on the SQL “=” operator.</p> |
| ContactReferenceNumber(\) | Case – ContactConnection | Searches case-contact relations for a private person contact or an enterprise contact with the given property value. Value should be either a PersonalIdNumber or an EnterpriseNumber. |
| ArchiveCode(\) | Case - ToClassificationCodes | The archive code of the cases you want returned. |
| ProjectNumber(\) | Case - Project | The project number of the cases you wish to retrieve. E.g. “13-37” |

| | | |
|----------------------------------|--------------------------|---|
| CategoryCode(\) | Case – ToCaseCategory | The case category (code value) to the cases you want to retrieve. |
| IncludeReferringCases | | Boolean value, set true if you want to include case-case-relations in the result. Default value is false. |
| IncludeReferringDocuments | | Boolean value, set true if you want to include case-document-relations in the result. Default value is false. |

4.3.2 Output

Data Contract: GetCasesResult

| Output Property | 360° field | Comment |
|---------------------|------------|---|
| Cases | Case | A list of CaseResult objects. See the chapter " Data Contract: CaseResult " for details. |
| Successful | - | Will be true as long as no exception occurred during the execution. This means that successful will be true even if no private persons matching the criteria was found. |
| ErrorMessage | - | If unsuccessful, this contains a short error message |
| ErrorDetails | - | If unsuccessful, this contains a full stack trace |

4.4 Sub Contracts

This chapter defines data contracts in use by the main data contracts of the Case methods.

4.4.1 Data Contract: CaseContactParameter

| Input Property | 360° field | Comment |
|---------------------------|--|---|
| ReferenceNumber(\) | CaseContact – ToContact – Referencenumber | The identification number of the contact. This is PersonalldNumber for private persons and EnterpriseNumber for enterprises. Use either this field OR the Externalld-field. |
| Externalld(\) | CaseContact – ToContactperson – ExternalID | The identification number of the contact. This is Externalld for ContactPersons. Use either this field OR the ReferenceNumber-field. |
| Contactld(\) | CaseContact – ToContact – Referencenumber | This field is obsolete, use ReferenceNumber instead if it is available. |
| Role(*) | CaseContact – ToRole | The contact's role for the specific case. Can be code or recno. E.g. Role = "Sakspart". The possible roles may be restricted based on the case type. |
| IsUnofficial | | This value can be true, false or null/not included. It is used to define if a contact should be unofficial, which means screened from Public Journal. Should not be set if the access code on the case is U – Unclassified. |

4.4.2 Data Contract: ClassCodeParameter

Classification codes have a type and a value. The type refers to the code table *Noark classification type*. Most classification types use codes from the code table *Noark classification code* as values. Some use custom user-supplied values, for instance a personal identification number.

| Property | 360° field | Comment |
|----------------|---------------------|---|
| Sort(*) | ToClassCodes – Sort | When cases have multiple classification codes, Sort is the index of the code, |

| | | |
|-----------------------|-----------------------------|--|
| | | starting at 1. Primary code => 1, secondary => 2, and so on. |
| ArchiveType(*) | ToClassCodes – ToClassType | The classification type of this particular classification code. Can be code or recno, for instance "FAGKODE PRINSIPP" or «recno:60001» |
| IsManualText | - | True/false. Set to true if ArchiveCode is a user-supplied value and false if it's a code from <i>Noark classification code</i> . |
| ArchiveCode | Contact – ToClassCode/Value | The value or classification code itself. If code, it can be either the actual code or its recno, for instance "B32" or "recno:60002". |

4.4.3 Data Contract: CaseResult

| Property | 360° field | Comment |
|----------------------------------|-------------------------------|---|
| Recno | Document – Recno | Unique id in 360 for the document connected to the case |
| Title | Case – Description | |
| CaseNumber | Case – Name | |
| ExternalId | | External ID for the case. |
| Date | Case – StartDate | The start date of the case. |
| Status | Case – ToCaseStatus | |
| ResponsibleEnterprise | Case – ToOrgUnit | Info about the responsible enterprise. See ResponsibleEnterprise |
| ResponsibleEnterpriseName | Case - ToOrgUnit – SearchName | The name of the responsible enterprise |
| ResponsiblePerson | Case – OurRef | Info about the responsible person. See ResponsiblePerson |
| ResponsiblePersonName | Case – OurRef – SearchName | The name of the responsible person |
| ArchiveCodes | Case – ToClassCodes | A list of all ArchiveType/ArchiveCode pairs on the case. |
| ReferringCases | Connection: Case - Case | List of case relations. |
| CaseNumber | | Case number of related case |
| Relation | | Code value of relation role |
| Notes | | Notes added to relation |
| Title | | Title of the related case |
| ReferringDocuments | ActivityCase | List of document relations. Does not include the documents connected to the case as main documents – only documents added as relations. |
| DocumentNumber | ActivityCase – ToCase | Document number of related |

| | | |
|-----------------------|------------------------------|---|
| | | document |
| Relation | ActivityCase – ToRole – Code | Code value of relation role |
| Notes | ActivityCase – Notes | Notes added to relation |
| Title | ActivityCase – ToCase | Title of the related document |
| Documents | Document | A list with the meta data for the documents connected to the case. Returns max 100 documents. |
| DocumentNumber | Document – DocumentNumber | The number of the document connected to the case |
| Files | File | A list with the meta data for the files connected to the current (active) version of the document. Returns max 100 files. |
| Recno | File – Recno | Unique id in 360 for the file connected to the document |
| Title | File – Comment | The title of the file connected to the document |
| Format | File – Format | The format of the file connected to the document |

4.4.4 Data Contract: AdditionalFieldParameter

This can be used for additional 360 fields which are not currently included in the base objects. It can be used for creating and updating fields.

Both standard and custom (customer specific) fields can be set via this parameter, but there are limitations. Only single value string fields can be set. Multi value fields, integer fields etc. can't be set using this parameter. Fields that are connected as a relation to the entity in the meta model, can only be set in some cases, and if so using 360 recno values.

This parameter should only be used after consulting with a Software Innovation employee or someone with knowledge of the 360 meta model.

If the supplied Name does not exist in the customer database, the input is just ignored and no error is thrown.

| Property | 360° field | Comment |
|-----------------|------------|---|
| Name(*) | - | The name of the field. This name is the name in the 360 meta model (Not always the same as seen in 360 GUI.) Example: "CF_key" |
| Value(*) | - | The string value to be set in the field. |

5 Document service

Typical URL: [http://\[servername\]:8088/SI.WS.Core/SIF/DocumentService.svc](http://[servername]:8088/SI.WS.Core/SIF/DocumentService.svc)

The fields "document date", "dispatched date" and "journal date" are made available through this service. These are document specific dates that have defined behavior in line with NOARK. That implies the following:

1. Journal date is required to be after both dispatched date and document date.
2. Dispatched date is required to be before journal date but after document date.
3. Document date is required to be before journal date and dispatched date.

5.1 CreateDocument

5.1.1 Input

Data Contract: CreateDocumentParameter

| Input Property | 360° field | Comment |
|--------------------------|-------------------------------|--|
| ADUserContext | - | Read the general information section. |
| Title(*) | Document - Title | |
| UnofficialTitle | Document - UnofficialTitle | If not set, Title will be used |
| DocumentDate | Document - DocumentDate | Defaults to the time the document was received. |
| Archive | Document – Archive | The Document archive for this document. Can be code or recno. E.g. Archive = "Generelt dokument" Defaults to "Saksdokument" (recno: 2) if not supplied. |
| Category(*) | Document – ToDocumentCategory | Can be code or recno. E.g. Category = "Referat". View common values. |
| Status(*) | Document – ToJournalStatus | Can be code or recno. E.g. Status = "J". View common values. |
| CaseNumber(\) | Document – ToCase | CaseNumber of the case this document belongs to. <i>Not mandatory in all archives.</i> Provide only ONE of the two possible fields to ID case. |
| CaseExternalId(\) | Document – ToCase | External ID of the case this document belongs to. |

| | | |
|------------------------------------|-------------------------------------|---|
| | | <p>Lookup is based on the combination of Id and Type.</p> <p>Provide only ONE of the two possible fields to ID the case.</p> <p><i>Not mandatory in all archives</i></p> |
| Id | ExternalObject – Id | External id of the case. |
| Type | ExternalObject - ToExternalType | If not provided, default value “SIF WS Case” will be used. This is the type set via CreateCase if type was not provided when importing a case. |
| ResponsiblePersonIdNumber | Document – OurRef - Referencenumber | <p>The external ID of the responsible person.</p> <p>Looks for a contact with ExternalId equal to the property input.</p> <p>It is only possible to set a contactperson in the same enterprise hierarchy as the ADUserContext user as responsible.</p> <p>Provide only ONE of the four possible fields to ID responsible person.</p> |
| ResponsiblePersonRecno | Document – OurRef - Referencenumber | Looks for a contact with Recno equal to the property input. |
| ResponsiblePersonEmail | Document – OurRef | Looks for a contact with Email equal to the property input. |
| ResponsiblePersonUserId | Document – OurRef | Looks for a contact with UserId equal to the property input (username, E.g. “no\name.name”) |
| ResponsibleEnterpriseNumber | Document – ToOrgUnit | <p>The enterprise number of the responsible enterprise.</p> <p>Looks for a contact with ExternalID first, then for one with reference number equal to the property input.</p> <p>If neither this nor the ResponsibleEnterpriseRecno property is set, the responsible enterprise will be set to the responsible person’s enterprise. If the responsible person is not set, the responsible enterprise will be set to the main enterprise of all the users.</p> |

| | | |
|-----------------------------------|------------------------------|--|
| | | <p>It is only possible to set the responsible enterprise to an enterprise in the same enterprise hierarchy as the ADUserContext user.</p> <p>Provide only ONE of the two possible fields to ID responsible enterprise.</p> |
| ResponsibleEnterpriseRecno | Document – ToOrgUnit | This field is a fallback field and is only used if ResponsibleEnterpriseNumber is null or empty. Must be recno of a valid enterprise. |
| Contacts | Document – ToActivityContact | <p>List of document contacts with associated roles. Must be existing contacts.</p> <p>See the chapter “Data Contract: DocumentContactParameter” for details.</p> |
| UnregisteredContacts | Document - ToActivityContact | <p>List of unregistered document contacts with associated roles.</p> <p>See the chapter “Data Contract: UnregisteredContactParameter” for details.</p> |
| SendersReference | Document - ReferenceNo | External reference number. |
| Access code | Document – Access code | <p>Can be code value or recno. E.g. AccessCode = “U” or “recno:0”</p> <p>Some access code require Paragraph to be specified as well.</p> |
| Paragraph | Document - ToAuthorization | <p>Can be code or recno. E.g. Paragraph = “OFL § 11”</p> <p>Defaults to the same paragraph as the case.</p> |
| AccessGroup | Case – ToAccessGroup | Can be code value or recno. E.g. AccessGroup = “Public” |
| JournalDate | Document - JournalDate | <p>The date the document is closed. Should be used together with a closing status and is ignored otherwise.</p> <p>The following happens if the Status property is set to a closing status:</p> |

| | | |
|---------------------------|---------------------------|---|
| | | <ul style="list-style-type: none"> - If this property is set, the document will gain this date as JournalDate <p>If this property is not set 360 automatically sets the JournalDate to the current date.</p> |
| DispatchedDate | Document - DispatchedDate | |
| FiledOnPaper | Document – Paper | |
| Keywords | Document – Keywords | Adds the given keywords to the case. If they are not found in 360 they are added to the Keyword code table (the user needs Admin rights to create keywords). |
| Notes | Document – Notes | |
| ReferringCases | - | List of referring cases, referred by case number. The document-case relation is hardcoded to “reference”. Ignored if empty |
| ReferringDocuments | - | List of referring documents, referred by document number. Ignored if empty |
| FilesFromTemplate | - | List of template id’s to create files from. See the chapter “ Data Contract: CreateFileFromTemplateParameter ” for details |
| Files | - | List of files. See the chapter “ Data Contract: File ” for details |
| Remarks | Document – ToNotes | List of remarks to be added to case |
| Title | Note – Title | Remark title Mandatory |
| Content | Note - Notes | Remark content |
| RemarkType | Note - ToNoteType | Uses code table: Note type Can be code value or recno. Mandatory |
| Project | Document – ToProject | The project number of the project you want to connect your document to. E.g. “15-51” |
| AdditionalFields | | Additional fields – see chapter for AdditionalFieldParameter for details, what kind of fields and how to use this parameter. |

5.1.2 Output

Data Contract: DocumentOperationResult

| Output Property | 360° field | Comment |
|-----------------------|---------------------------|--|
| Recno | Document – Recno | Unique ID in 360 for the document. |
| DocumentNumber | Document - DocumentNumber | The document number given by 360. |
| Successful | - | If true, everything is ok. If false, the operation failed. |
| ErrorMessage | - | If unsuccessful, this contains a short error message |
| ErrorDetails | - | If unsuccessful, this contains a full stack trace |

5.2 UpdateDocument

Updates a document in 360. If a property is set to null, meaning not provided in the parameter passed to the method, the property is not updated. To be able to clear the field in 360 the property has to be set to "". Only works for string properties.

What is possible and not possible with this method:

- It is **not** possible to change or delete files.
- It is **not** possible to add a new version of files.
- It is possible to add files to a document by supplying the Files and DocumentNumber property.

5.2.1 Input

Data Contract: UpdateDocumentParameter

| Property | 360° field | Comment |
|--------------------------|-------------------------------|---|
| ADUserContext | - | Read the general information section. |
| DocumentNumber(*) | Document – DocumentNumber | Search field. This document will be updated. |
| DocumentDate | Document - DocumentDate | |
| Title | Document – Title | |
| UnofficialTitle | Document – UnofficialTitle | |
| Category | Document – ToDocumentCategory | Can be code or recno. E.g. Category = "Referat". View |

| | | |
|------------------------------------|-------------------------------------|---|
| common values. | | |
| Status | Document – ToJournalStatus | Can be code or recno. E.g. Status = “J”. View common values. |
| ResponsiblePersonIdNumber | Document – OurRef – Referencenumber | <p>The external ID of the responsible person.</p> <p>Looks for a contact with ExternalId equal to the property input.</p> <p>It is only possible to set a contactperson in the same enterprise hierarchy as the ADUserContext user as responsible.</p> <p>Provide only ONE of the four possible fields to ID responsible person.</p> |
| ResponsiblePersonRecno | Document – OurRef – Referencenumber | Looks for a contact with Recno equal to the property input. |
| ResponsiblePersonEmail | | Looks for a contact with Email equal to the property input. |
| ResponsiblePersonUserId | | Looks for a contact with UserId equal to the property input (username, E.g. “no\name.name”) |
| ResponsibleEnterpriseNumber | Document – ToOrgUnit | <p>The enterprise number of the responsible enterprise.</p> <p>Looks for a contact with ExternalID first, then for one with reference number equal to the property input.</p> <p>If neither this nor the ResponsibleEnterpriseRecno property is set, the responsible enterprise will be set to the responsible person’s enterprise. If the responsible person is not set, the responsible enterprise will be set to the main enterprise of all the users.</p> <p>It is only possible to set the responsible enterprise to an enterprise in the same enterprise hierarchy as the ADUserContext user.</p> |

| | | |
|-----------------------------------|------------------------------|--|
| | | Provide only ONE of the two possible fields to ID responsible enterprise. |
| ResponsibleEnterpriseRecno | Document – ToOrgUnit | This field is a fallback field and is only used if ResponsibleEnterpriseNumber is null or empty. Must be recno of a valid enterprise. |
| Contacts | Document - ToActivityContact | <p>List of document contacts with associated roles. Must be existing contacts.</p> <p>This adds contacts to the document. Existing document contacts will not be deleted or updated. You can also add an existing contact with a new role.</p> <p>See the chapter “Data Contract: DocumentContactParameter” for details.</p> |
| UnregisteredContacts | Document - ToActivityContact | <p>List of unregistered document contacts with associated roles.</p> <p>Contacts will be added to the document. Contacts already registered on the document will not be edited or deleted.</p> <p>See the chapter “Data Contract: UnregisteredContactParameter” for details.</p> |
| SendersReference | Document - ReferenceNo | External reference number. |
| Access code | Document – Access code | <p>Can be code value or recno. E.g. AccessCode = “U”</p> <p>If the access code requires a paragraph the field paragraph has to offer a valid paragraph.</p> <p>N.B: If a recno value is used, this recno value <u>can not</u> also exist as a code value.</p> |
| Paragraph | Document - ToAuthorization | <p>Can be code or recno E.g. Paragraph = “OFL § 11”</p> <p>Ignored if used with an access</p> |

| | | |
|---------------------------|---------------------------|--|
| | | code that doesn't require a paragraph. |
| AccessGroup | Case – ToAccessGroup | Can be code value or recno. E.g. AccessGroup = "Public" |
| JournalDate | Document- JournalDate | <p>The date the document is closed. Should be used together with a closing status and is ignored otherwise.</p> <p>The following happens if the Status property is set to a closing status:</p> <ul style="list-style-type: none"> - If this property is set, the document will gain this date as JournalDate <p>If this property is not set 360 automatically sets the JournalDate to the current date</p> |
| DispatchedDate | Document - DispatchedDate | |
| FiledOnPaper | Document – Paper | |
| Keywords | Document – Keywords | <p>Updating the keywords on the case by these rules:</p> <ol style="list-style-type: none"> 1) New keywords are added 2) Existing keywords are ignored 3) Missing keywords are ignored |
| Notes | Document – Notes | |
| ReferringCases | Document – ToCase | List of referring cases, referred by case number. Ignored if empty. |
| ReferringDocuments | ? | List of referring documents, referred by document number. Ignored if empty. |
| FilesFromTemplate | | List of template id's to create files from. See the chapter " Data Contract: CreateFileFromTemplateParameter " for details |
| Files | ? | List of files that will be added to the document. It is not possible to update previously added files. See the chapter "Data Contract: File" for details. |
| Remarks | Document – ToNotes | List of remarks to be added to case |
| Title | Note – Title | Remark title Mandatory |
| Content | Note - Notes | Remark content |

| | | |
|-------------------------|----------------------|--|
| RemarkType | Note - ToNoteType | Uses code table: Note type Can be code value or recno. Mandatory |
| Project | Document – ToProject | The project number of the project you want to connect your document to. E.g. “15-51” |
| AdditionalFields | | Additional fields – see chapter for AdditionalFieldParameter for details, what kind of fields and how to use this parameter. |

5.2.2 Output

Data Contract: DocumentOperationResult

| Property | 360° field | Comment |
|-----------------------|---------------------------|--|
| Recno | Document – Recno | Unique ID in 360 for the document. |
| DocumentNumber | Document - DocumentNumber | The document number in 360. |
| Successful | - | If true, everything is ok. If false, the operation failed. |
| ErrorMessage | - | If unsuccessful, this contains a short error message |
| ErrorDetails | - | If unsuccessful, this contains a full stack trace |

5.3 SignOffDocument

Method to sign off a document with a response code and an optional note.

5.3.1 Input

Data Contract: SignOffDocumentParameter

| Input Property | 360° field | Comment |
|------------------------|--------------------------------|--|
| ADContextUser | | Read the general information section. |
| Document(*) | Document – DocumentNumber | The document number of the document to update |
| ResponseCode(*) | ActivityContact – ResponseCode | The response code. This must be a value from the code table “Response code”. E.g. ResponseCode = “TLF” |
| NoteTitle | Document – ToNotes – Title | This is the description of the note. |

| | | |
|-------------|----------------------------|--|
| | | If not supplied, default value is "Merknad ved avskrivning" |
| Note | Document – ToNotes – Notes | Adds a note to the document, about the sign off. Can be viewed under the tab "Merknader" in Document detail view |

5.3.2 Output

Data Contract: [DocumentOperationResult](#)

Same return object as UpdateDocument

5.4 GetDocuments

Take note that this method in addition to getting meta data on documents; may also be used to get file meta data and the physical file(s) inside the document.

5.4.1 Input

Data Contract: GetDocumentsQuery

| Input Property | 360° field | Comment |
|----------------------------------|--|---|
| ADContextUser | | Read the general information section. |
| MaxReturnedDocuments | - | Maximum number of documents to return. Default 100. |
| IncludeFileData | - | If the file list should include an output property that contain the files base 64 encoded data. Defaults to false. |
| CaseNumber(\) | Case – Name | Searches using case number. |
| CaseExternalId(\) | | Searches using external case id, using the combination of Id and Type. |
| Id | ExternalObject – Id | External id of a case. |
| Type | ExternalObject - ToExternalType | If not provided, default value “SIF WS Case” will be used. This is the type set via CreateCase if type was not provided when importing a case. |
| DocumentNumber(\) | Document – DocumentNumber | Searches using document number. |
| Title(\) | Document – Title | <p>After DLL version 1.0.0.58254: The title search is based on the SQL “LIKE” operator. It is still possible to search for exact matches, but the possibility to search with wildcards is now introduced. For instance, “%” can be used as a substitute for zero or more characters in the title search.</p> <p>Before DLL version 1.0.0.58254: Only documents matching the exact title will be returned due to the search being based on the SQL “=” operator.</p> |
| ContactReferenceNumber(\) | Document – ToActivityContact – ToContact - Referencenumber | Find documents with a relation to this contact. Value should be either the PersonalIdNumber of a private person or the EnterpriseNumber of an enterprise contact. |
| ContactExternalId | Document – ToActivityContact – ToContact - ExternalID | Find documents with a relation to this contact, identifies by its ExternalId. |

| | | |
|----------------------------------|--|---|
| IncludeRemarks | | If related remarks should be returned. |
| IncludeReferringCases | | Boolean value, set true if you want to include document-case-relations in the result. Default value is false. |
| IncludeReferringDocuments | | Boolean value, set true if you want to include document-document-relations in the result. Default value is false. |

5.4.2 Output

Data Contract: GetDocumentsResult

| Output Property | 360° field | Comment |
|---------------------|------------|---|
| Documents | - | List of DocumentResult objects. See the chapter " Data Contract: DocumentResult " for details. |
| Successful | - | Will be true as long as no exception occurred during the execution. This means that successful will be true even if no private persons matching the criteria was found. |
| ErrorMessage | - | If unsuccessful, this contains a short error message |
| ErrorDetails | - | If unsuccessful, this contains a full stack trace |

5.5 Sub Contracts

This chapter defines data contracts in use by the main data contracts of the Document methods.

5.5.1 Data Contract: DocumentContactParameter

| Input Property | 360° field | Comment |
|---------------------------|-----------------------------------|--|
| ReferenceNumber(\) | ActivityContact – ToContact | The identification number of the contact. This is PersonalIdNumber for private persons and EnterpriseNumber for enterprises. Use either this field OR the ExternalId-field. |
| ExternalId(\) | ActivityContact – ToContactperson | The identification number of the contact. This is ExternalId for ContactPersons. |

| | | |
|---------------------|------------------------------|---|
| | | Use either this field OR the ReferenceNumber-field. |
| Role(*) | ActivityContact – ToRole | The contact's role for the specific document. Can be code or recno. E.g. Role = "Contact". The possible roles may be restricted based on the document type. |
| IsUnofficial | ActivityContact – Unofficial | This value can be true, false or null/not included. It is used to define if a contact should be unofficial, which means screened from Public Journal. Should not be set if the access code on the document is U – Unclassified. |

5.5.2 Data Contract: UnregisteredContactParameter

Used to create an unregistered contact on a document. The fields available in the 360° interface might differ based on settings, or between Service Packs.

| Input Property | 360° field | Comment |
|---------------------------|--|--|
| Role(*) | ActivityContact – ToRole | The contact's role for the specific document. Can be code or recno. E.g. Role = "Contact". The possible roles may be restricted based on the document type. View common values. |
| IsUnofficial | ActivityContact – Unofficial | This value can be true, false or null/not included. It is used to define if a contact should be unofficial, which means screened from Public Journal. Used when the access code on the document is not Unclassified. |
| ContactName(*) | ActivityContact – Name2 / Activitycontact – Name | Use this to set the name of the unregistered contact. This can be the name of a contact person, a private person or an enterprise. Mandatory field. |
| ContactCompanyName | ActivityContact – Name | This can be used together with ContactName to set the name of the contact's company. |
| ReferenceNumber | | Reference number |
| Address | | Street address |

| | | |
|--------------------|--|---------------------|
| Country | | Country |
| State | | State |
| ZipCode | | ZipCode |
| ZipPlace | | ZipPlace |
| Email | | Email address |
| MobilePhone | | Mobile phone number |
| Phone | | Phone number |
| Fax | | Fax number |

5.5.3 Data Contract: ResponsibleEnterprise

| Output Property | 360° field | Comment |
|------------------------|---------------------------|-----------------------------------|
| Recno | Contact – Recno | Unique 360 database id field |
| ReferenceNumber | Contact – Referencenumber | EnterpriseNumber for enterprises. |
| ExternalId | Contact – ExternalId | ExternalId. |
| Name | Contact – SearchName | Name. |
| Email | Contact – E-mail | Email address. |

5.5.4 Data Contract: ResponsiblePerson

| Output Property | 360° field | Comment |
|-------------------|----------------------|-----------------------------------|
| Recno | Contact – Recno | Unique 360 database id field |
| UserId | User – UserID | Username, e.g. "domain\360.admin" |
| ExternalId | Contact – ExternalId | ExternalId |
| Name | Contact – SearchName | Name. |
| Email | Contact – E-mail | Email address. |

5.5.5 Data Contract: DocumentResult

| Output Property | 360° field | Comment |
|-----------------------|-------------------------------|-------------------|
| Recno | Document – Recno | |
| DocumentNumber | Document – DocumentNumber | |
| CaseNumber | Document – ToCase | |
| CaseExternalId | Document – ToCase | |
| Title | Document – Title | |
| DocumentDate | Document – DocumentDate | |
| JournalDate | Document – JournalDate | |
| Category | Document - ToDocumentCategory | Document category |

| | | |
|----------------------------------|--|---|
| Recno | | |
| Code | | |
| Description | | |
| Type | Document - ToDocumentType | Document type ("I", "U"..). Code table "Journal document type" |
| Recno | | |
| Code | | |
| Description | | |
| StatusCode | Document – ToJournalStatus – Code | Examples: "J", "R" |
| StatusDescription | Document – ToJournalStatus – Description | Examples: «Journalført og/eller kontrollert av arkivet», «Reservert av/for saksbehandler» |
| ResponsibleEnterprise | Document – ToOrgUnit | Info about the responsible enterprise. See ResponsibleEnterprise |
| ResponsibleEnterpriseName | Document – ToOrgUnit – SearchName | Name on the responsible enterprise. |
| ResponsiblePerson | Document – OurRef | Info about the responsible person. See ResponsiblePerson |
| ResponsiblePersonName | Document – OurRef – SearchName | Name on the responsible person. |
| Contacts | Document | List of DocumentContactResult objects. See the chapter " Data Contract: DocumentContactResult " for details. |
| ReferringCases | ActivityCase | List of case relations. Does not include the documents main case. |
| CaseNumber | ActivityCase – ToCase | Case number of related case |
| Relation | ActivityCase – ToRole – Code | Code value of relation role |
| Notes | ActivityCase – Notes | Notes added to relation |
| Title | ActivityCase – ToCase | Title of the related case |
| ReferringDocuments | Connection: Activity - Activity | List of document relations. Includes documents referring to this document, and documents this document refers to. List is similar to "Document relations" tab in 360 GUI. |
| DocumentNumber | | Document number of related document |
| Relation | | Code value of relation role |
| Notes | | Notes added to relation |
| Title | | Title of the related document |
| Remarks | | List of remarks. |
| Title | | |
| Content | | |
| TypeCode | | |

| | | |
|---------------------------------|--------------------------------------|---|
| TypeDescription | | |
| CreatedDate | | |
| ModifiedDate | | |
| CreatedBy | | |
| ModifiedBy | | |
| ExpirationDate | | |
| Files | | List of files from the current (active) version of the document. |
| Recno | File - Recno | |
| Title | File – Comment | |
| Format | File – Format | |
| Base64Data | | The file data in a base 64 encoded string. Will only be returned if the input property IncludeFileData is set to true. |
| URL | - | A 360 URL that can be used by authenticated users to view the file. The base of the URL is configured in the SI.WS.Core/web.config key SI.Biz.Serviced.Email.360WebApplicationUrl |
| Note | File - Note | |
| Paragraph | File – ToAuthorization | |
| RelationTypeDescription | File – ToRelationType - Description | |
| RelationTypeCode | File – ToRelationType - Code | |
| VersionFormatDescription | File – ToVersionFormat - Description | |
| VersionFormatCode | File – ToVersionFormat - Code | |
| Type | File – Type | |
| ModifiedBy | File – ToFileModifiedBy – ToContact | |
| CheckedOutBy | File – ToCheckedOutBy – ToContact | |
| CategoryCode | File – ToFileCategory - Code | |
| CategoryDescription | File – ToFileCategory - Description | |
| StatusDescription | File – ToFileStatus - Description | |
| StatusCode | File – ToFileStatus - Code | |

| | | |
|------------------------------|-----------------------------------|---|
| AccessCodeDescription | File – ToAccessCode - Code | |
| AccessCodeCode | File – ToAccessCode - Description | |
| DegradeCode | File – ToDegradeCode | Downgrade/declassification code, Norwegian “Avgradering” |
| DegradeDate | File – DegradeDate | |
| DisposalCode | File – ToScrapCode | Code value of disposal code, Norwegian “Kassasjonskode”, e.g. “B” or “G”. |
| DisposalDate | File – ScrapDate | Calculated disposal date, Norwegian “Kassasjonsdato”. This date is in the future and gives info about when the document can be disposed via 360 GUI function for disposal of files. |
| FiledOnPaper | File – Paper | |
| PaperLocation | File – PaperLocation | |
| SignDate | File – ToFileVersion – ToContact | |

5.5.6 Data Contract: DocumentContactResult

| Output Property | 360° field | Comment |
|------------------------|---------------------------|--|
| ReferenceNumber | Contact - ReferenceNumber | Reference number of the contact – if private person or enterprise. |
| ExternalId | Contact – ExternalID | External id of the contact – if contact person. |
| Role | ActivityContact – ToRole | Role of the contact on this document in code value. |
| SearchName | Contact - SearchName | The name of this contact. |

5.5.7 Data contract: CreateFileFromTemplateParameter

This can be used to create new files, either for a new document or to an existing documents. The files will be created based on the template defined. It is not possible to set any other metadata when creating the file from template. Recno to the template can be found in the database or in the web administrator. All available templates can be set.

If more than one file from template is defined, the first one will be added as Main Document and the other ones as Attachements.

If file from template and uploaded files (Se Data Contract: File) are included, the file from template will always be added as Main Document.

| Property | 360° field | Comment |
|----------------------|-------------------|------------------------|
| Title(*) | File - FileName | |
| TemplateId(*) | File - TemplateID | Recno to the template. |

5.5.8 Data Contract: File

There are two ways to upload a file to 360, either as byte array, or by first calling the [FileService.Upload\(\)](#) method, and then providing the file reference it returns in UploadedFileReference.

| Property | 360° field | Comment |
|---------------------------------|------------------------|--|
| Title(*) | File - FileName | |
| Format(*) | File - FileFormat | Can be code or recno. E.g. Format = "pdf" |
| Data(\) | | File data |
| Base64Data(\) | | File data as base64 string. Supported, but please use Data instead. |
| UploadedFileReference(\) | - | This value is returned by FileService.Upload |
| RelationType | File - ToRelationType | Can be code or recno. E.g. RelationType = "H" |
| VersionFormat | File - ToVersionFormat | Can be code or recno. E.g. VersionFormat = "A" |
| Note | File – Note | |
| Category | File – ToFileCategory | Can be code or recno. E.g. Category = "Brev" |
| Status | File – ToFileStatus | Can be code or recno. E.g. Status = "B" |
| AccessCode | File – ToAccessCode | |
| DegradeCode | File – ToDegradeCode | The "Downgrade" values will only show up in the GUI if both properties DegradeCode and DegradeDate is set. |

| | | |
|----------------------|----------------------|---|
| | | Norwegian: "Avgradering". |
| DegradeDate | File – DegradeDate | The "Downgrade" field will only show up in the GUI if both properties DegradeCode and DegradeDate is set. |
| FiledOnPaper | File – Paper | |
| PaperLocation | File – PaperLocation | |

6 File service

Typical URL: [http://\[servername\]:8088/SI.WS.Core/SIF/FileService.svc](http://[servername]:8088/SI.WS.Core/SIF/FileService.svc)

6.1 Upload

Streams a file to the 360° server, where it is stored temporarily, and should be referred to in CreateDocument() or UpdateDocument().

6.1.1 Input

| Input Property | Comment |
|-------------------|--|
| FileStream | The file data |
| User | The uploaded file is stored in this users 360 cache. This user <i>must</i> be the same as the user you authenticate (ADUserContext) with when referring to the file, otherwise it will not be able to locate the it. |

6.1.2 Output

Data Contract: UploadFileResult

| Output Property | Comment |
|----------------------|--|
| Successful | If true, the file was uploaded. |
| FileReference | Use this value to refer to the uploaded file. |
| ErrorMessage | If unsuccessful, this contains a short error message |
| ErrorDetails | If unsuccessful, this contains a full stack trace |

6.2 CheckOutAndGetFileForExternalControl

Checks out a file for external control, and retrieves the same file as a Stream. The file must later be checked in with the same user and external system, so use this method in combination with UploadAndCheckInFileFromExternalControl

6.2.1 Input

MessageContract: CheckOutAndGetFileForExternalControlMessage

| Input Property | Comment |
|-----------------------|---|
| User | Username of the user checking out the file. This locks the file to this user and the same user must check the file back in. The user must also have permission to check out the file. |
| ExternalSystem | The name of the external system. This can be any string value, but the exact same value must be supplied when checking in the file. |
| FileRecno | Recno value of the file. This is the file's unique id in the 360° database. |

6.2.2 Output

MessageContract: CheckOutAndGetFileForExternalControlResult

| Input Property | Comment |
|-------------------------|---|
| FileStream | The file data |
| CheckOutFileInfo | Information about whether the checkout and retrieval was successful, and meta data about the file if it was successful. |
| Successful | If true, the file was checked out ok. |
| ErrorMessage | If unsuccessful, this contains a short error message |
| ErrorDetails | If unsuccessful, this contains a full stack trace |
| Title | Title of the file |
| TemplateId | Recno of the file template |
| FileRecno | Recno value of the file. This is the file's unique id in the 360° database. |

6.3 UploadAndCheckInFileFromExternalControl

Streams a file to the 360° server, where it is checked in by the external system. This can be used on files that have been checked out with the method CheckOutAndGetFileForExternalControl.

6.3.1 Input

MessageContract: UploadAndCheckInFileFromExternalControlMessage

| Input Property | Comment |
|-------------------|---------------|
| FileStream | The file data |

| | |
|------------------------|--|
| CheckInFileInfo | Information about the file to check in. |
| FileRecno | Recno value of the file. This is the file's unique id in the 360° database. |
| Title | Title of the file. |
| FileFormat | Format of the file, e.g. "docx" |
| User | Username of the user checking in the file. This user must be the same user that checked out the file. |
| ExternalSystem | The name of the external system. This can be any string value, but it must be the exact same value that was supplied when checking out the file. |

6.3.2 Output

MessageContract: UploadAndCheckInFileFromExternalControlResult

| Output Property | Comment |
|---------------------|---|
| Successful | If true, the file was uploaded and checked in ok. |
| ErrorMessage | If unsuccessful, this contains a short error message |
| ErrorDetails | If unsuccessful, this contains a full stack trace |
| FileRecno | Recno value of the file. This is the file's unique id in the 360° database. |

7 Support methods

7.1 Ping

Each web service endpoint has a Ping() method that can be used to test that you have access to the service, that it is correctly installed, and that your user has at least read permissions to 360°. If it returns without throwing an exception, everything is ok.

8 Dependencies to 360

8.1 PDF Converting

Converting of files to PDF (PDF/A) is not done by the web service. This should be done using the 360 Format Converter module which uses a third party application for the conversion. How the conversion is done is best explained with an example:

1. A web service client calls the CreateDocument() or UpdateDocument() with files.
2. The web service creates/updates a document and adds files to it in 360.
3. Part of the 360 Format Converter module is a timer job that copies files to a third party programs TODO folder. Only files that fit preconfigured properties are copied to this folder, a typical property is that the file's document status is "Closed".
4. The third party application converts the files in the TODO folder. The files are then uploaded to 360 to the correct document.
5. The result is a 360 document with the original file(s) and PDF file(s).

The web service has in other words no responsibility of converting files to PDF. The third party application is PixEdit and supports a wide range of file formats for conversion.

9 Web Service client responsibility

A web service client, for example external systems is responsible for the following:

- Creating cases, documents and contacts in the correct order. This means that the web service methods that are available has to be called in the correct logical order. For example you cannot create a document without first creating the case that it belong to.
- Files has to be in the correct format. PDF files is not verified to be PDF/A. No file format validation is done by the web service
- As a general rule, it is client responsibility to validate and clean input to its own needs. Some validation is still done by the 360 business logic, but errors will be in the stack trace format thrown by the business logic.
 - o Take note customer specific validation can be implemented as a customer specific validation component.

10 Common Code Table values

360 has loads of what is referred to as Code Tables and Code Table values. These values are configuration of rows of database values that defines what values can be used as metadata for entities 360. An example is Code Table: Document status, which is a list of all possible document statuses allowed.

Consider the case of document status. Customers with a standard 360 installation usually have the same possible document statuses. However, some do not, and that is why we do not supplement an enum of available values. So any third party that integrates with 360 should verify what values can be used.

When calling a web service method with an input that reference one of these code table values, you can do two things:

- Input "recno:[recno_from_code_table]". Example "recno:6".
- Sometimes only using the recno may work. Example "6". But prefixing it with recno is recommended.
- Input "[code_from_code_table]": Example: "J".

Be warned, valid codes vary by configured web.config value for key SI.Data.BL.LanCode. Since code tables are localized, with different code values for each language, it's important to use codes from the right language. The default language for the SIF web service is Norwegian.

10.1 Case Status

Valid codes vary by configured web.config value for key SI.Data.BL.LanCode.

| Recno | Code | Description Norwegian | Description English |
|-------|------|-------------------------------|----------------------|
| 4 | R | Reservert | Reserved |
| 5 | B | Under behandling | In process |
| 6 | A | Avsluttet | Closed |
| 7 | X | Ikke gjenstand for oppfølging | No follow-up |
| 8 | U | Utgår | Cancelled |
| 9 | KU | Kopiert utdrag | Copied extract |
| 17 | AS | Avsluttet av saksbehandler | Closed by Caseworker |

10.2 Document Status

Valid codes vary by configured web.config value for key SI.Data.BL.LanCode.

| Recno | Code | Description Norwegian | Description English |
|-------|------|--------------------------------------|----------------------------------|
| 1 | R | Reservert | Reserved |
| 2 | M | Midlertidig journalført | Preliminary recorded |
| 3 | S | Registrert av ansvarlig person/leder | Registered by responsible person |
| 4 | F | Ferdig fra ansvarlig person/leder | Finished by responsible person |

| | | | |
|----|---|------------------------|------------------------|
| 5 | E | Ekspedert | Dispatched |
| 6 | J | Journalført | Officially recorded |
| 7 | A | Registrering avsluttet | Registration completed |
| 8 | U | Utgår | Cancelled |
| 9 | T | Til godkjenning | In approval process |
| 10 | G | Godkjent | Approved |
| 11 | I | Ikke godkjent | Not approved |
| 12 | K | Til kommentering | For review |

10.3 Document Category

| Recno | Norwegian | English |
|-------|-------------------------------|-----------------------------------|
| 110 | Dokument inn | Incoming document |
| 111 | Dokument ut | Outbound document |
| 112 | Referat | Minutes |
| 113 | Internt notat med oppfølging | Internal memo with follow-up |
| 114 | E-post inn | Incoming e-mail |
| 115 | E-post ut | Outbound e-mail |
| 116 | Innkommende fax | Incoming faxes |
| 117 | Utgående fax | Outbound fax |
| 118 | Møteinnkalling | Meeting summons |
| 120 | Håndbok | User guide |
| 121 | Instruks | Instructions |
| 122 | Prosedyre | Procedure |
| 123 | Skjema | Form |
| 124 | Plan | Plan |
| 125 | Kontrakt | Contract |
| 127 | Innsynsbegjæringsdokument | Request for access document |
| 216 | Kampanjemal | Campaign Template |
| 217 | Kampanje eksport | Campaign Export |
| 218 | Saksfremlegg/innstilling | Proposition |
| 60005 | Internt notat uten oppfølging | Internal memo without follow-up |
| 60006 | Vedtak | Decision |
| 95507 | Presentasjon | Presentation |
| 95509 | Personalhåndbok | Personnell handbook |
| 95514 | Rammeavtale | Frame agreement |
| 95515 | Support og vedlikeholdsavtale | Support and maintenance agreement |
| 95516 | Leieavtale | Rental agreement |
| 95517 | Driftsavtale | Operating agreement |
| 95518 | Inkøpsavtale | Purchase agreement |
| 95519 | Assistanseavtale | Assistance agreement |
| 95520 | Oppdragsavtale | Assignment agreement |
| 95524 | Intensjonsavtale | Letter of intent |

| | | |
|--------------|---------------------|------------------------|
| 95525 | Oppdragsbeskrivelse | Assignment description |
|--------------|---------------------|------------------------|

10.4 Document Contact Role (Activity Contact role)

| Recno | Norwegian | English |
|--------------|----------------------------|------------------------------------|
| 1 | Kontakt | Contact |
| 2 | Kunde | Customer |
| 3 | Deltaker | Participant |
| 4 | Ressurs | Resource |
| 5 | Avsender | Sender |
| 6 | Mottaker | Recipient |
| 7 | Medavsender | Co-sender |
| 8 | Kopi til | Carbon copy |
| 9 | Godkjenningsinstans | Approval authority |
| 10 | Ekstern deltaker | External participant |
| 11 | Behandles i | Handled in |
| 20 | Blindkopi | Blind Carbon Copy |
| 30 | Rådgiver | Advisor |
| 31 | Leverandør | Vendor |
| 33 | Medforfatter | Co-writer |
| 34 | Bestiller | Orderer |
| 35 | Datafølgessedel saksparter | Data consignment note case parties |
| 95501 | Godkjenner | Approver |
| 95502 | Revisjonsansvarlig | Revision responsible |