

# Web Service API documentation

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# 1. Introduction

## 1.1. Purpose

This document describes Addo Web Service and explains how to consume it.

## 1.2. Allowed HTTPs requests

**POST** - used to update resource and **GET** - used to get a resource or list of resources

## 1.3. Description of server responses

**200** OK - the request was successful (some API calls may return 201 instead).

**400** Bad Request - the request could not be understood or was missing required parameters.

**401** Unauthorized - authentication failed or user doesn't have permissions for requested operation.

**500** Internal Server Error - server encountered an unexpected condition that prevented it from fulfilling the request.

## 1.4. WSDL document

*Warning.* Addo delivers to production at least every 2nd week. A delivery might change the SOAP contract which, if you do hard contract binding / validation, will break things on your side. Either don't do the validation or, better yet, use our JSON REST API.

The WSDL document is supplied as a separate xml document named "SigningService.svc.wsdl.xml". The service exposes access to the wsdl document through metadata exchange.

**Demo** environment link - <https://demo.vismaaddo.net/webService/v2.0/signingservice.svc>

**Production** environment link - <https://vismaaddo.net/webService/v2.0/signingservice.svc>

## 1.5. List of API methods

Here you can find current used API methods:

Demo environment - <https://demo.vismaaddo.net/webService/v2.0/restsigningservice.svc/help>

Production environment - <https://vismaaddo.net/webService/v2.0/restsigningservice.svc/help>

# 2. Usage of Addo API v2.3

## 2.1. Limitations

In order to allow a healthy operation of our API service, there are some limits of requests per time span:

- 100 requests per 1 minute
- 1000 requests per 1 hour
- 10000 requests per 24 hours

These numbers were calculated by historic usage of API as a sane limit that no typical user reaches and that it doesn't bring heavy work load for the servers. If for any reason you do reach this limit, please review your integration, maybe there is a way to improve and reduce the number of calls made. For example make sure no duplicate calls are made, you are using callbacks instead of periodically checking signing status, or not calling login method every second request, but use refresh token when it's about to expire (10 minutes from last call).

## 2.2. REST via Postman

Download Postman tool via link - <https://www.getpostman.com/apps>

To get your hash for password, use tools like this one: <https://hash.online-convert.com/sha512-generator>. Select **base64** for your password hash:

Request usage:

POST - [Base address]/[Public method name]

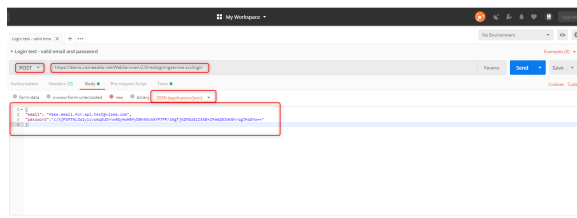
GET - [Base address]/[Public method name]?[Parameters]

### 2.2.1. POST request via Postman

Using Postman:

To login using REST service you need to call web service at address: <https://demo.vismaaddo.net/WebService/v2.0/restsigningservice.svc/login>

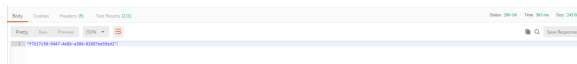
Use method **POST** and set content-type as **application/json**.



Code used here:

```
{ "email": "fake.email.for.api.test@visma.com", "password": "c
/SjPSMTRcZWlyzcvs6qdUOrnx4GyHoH0fyD0h9XnAAYP7PP
/sNgTjKDMSUGlZAXB+ZFmm20JWK6hrsgJHsGYw==" }
```

Below is a screenshot of **POST request** and response as described above:



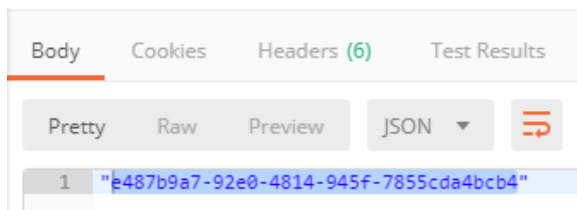
Server response of correct login is visible at the bottom with string in the body of **token** and **200 OK** status

### 2.2.2. GET request via Postman

Here is an example of a method with **GET request**, showing how parameters are passed through URL.

In Postman, we are using **GetRejectionComment** method (list of methods available here [List of API methods](#)). This requires us to pass **signingToken** and **token** parameters.

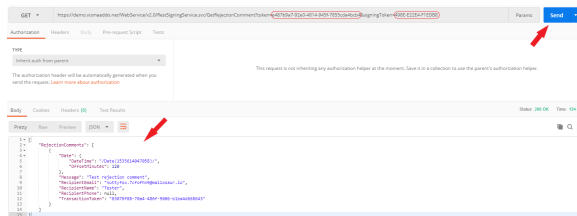
You can get the token after using POST for login example in previous paragraph, it's available in the response field "Body":



GetSigningStatus or GetSigning responses contains signing token.

Now we pass these parameters as a link in Postman and receive a response:

<https://demo.vismaaddo.net/WebService/v2.0/RestSigningService.svc/GetRejectionComment?token=e487b9a7-92e0-4814-945f-7855cda4bcb4&signingToken=498E-E22E4-F1EDB8>



## 2.3. Public methods

There are currently two Demo and Production environments, which might differ in variety of supported methods. Please take a look at the [List of API methods](#) for each environment before consuming our API.

Public methods available for REST API:

DEMO - <https://demo.vismaaddo.net/WebService/v2.0/RestSigningService.svc/help>

PRODUCTION - <https://vismaaddo.net/WebService/v2.0/RestSigningService.svc/help>

Base address for the service:

DEMO - <https://demo.vismaaddo.net/WebService/v2.0/RestSigningService.svc>

PRODUCTION - <https://vismaaddo.net/WebService/v2.0/RestSigningService.svc>

WCF (SOAP) available methods:

- *Guid Login(string email, string password);*
- *InitiateSigningResponse InitiateSigning(Guid token, InitiateSigningRequest request, TemplateOverride templateOverride);*
- *InitiateSigningSynchronouslyResponse InitiateSigningSynchronously(Guid token, InitiateSigningSynchronouslyRequest request, TemplateOverride templateOverride);*
- *GenworderateDocumentResponse GenerateDocument(Guid token, GenerateDocumentRequest request);*
- *GetSigningTemplatesResponse GetSigningTemplates(Guid token);*
- *GetSigningResponse GetSigning(Guid token, string signingToken);*
- *GetSigningStatusResponse GetSigningStatus(Guid token, string signingToken);*
- *StartCampaignSigningResponse StartCampaignSigning(Guid token, StartCampaignSigningRequest request);*
- *MergeDocumentsResponse MergeDocuments(Guid token, MergeDocumentsRequest request);*
- *void InitiateCampaign(Guid token, InitiateCampaignRequest request, TemplateOverride templateOverride)*
- *GetAccountInfo GetAccountInfo(Guid token)*
- *CancelSigningResponse CancelSigning(Guid token, string signingToken)*
- *string GenerateDocumentWithMergeData(Guid token, GenerateDocumentWithMergeDataRequest request, bool encryptDocument = false, string encryptionKey = null)*
- *GetTransactionDetailsResponse GetTransactionDetails(Guid token, Guid transactionToken)*
- *void CancelTransaction(Guid token, Guid transactionToken)Base address for service*
- *void ReactivateTransaction(Guid token, Guid transactionToken)*
- *void UpdateTransaction(Guid token, UpdateTransactionRequest updateTransactionRequest)*
- *void SaveRecipient(Guid token, Contact contact);*

- *void DeleteRecipient(Guid token, Contact contact);*
- *FileData ExportRecipients(Guid token, string separator = null);*
- *void ImportRecipients(Guid token, byte[] data, string separator = null);*
- *GetTemplateMessagesResponse GetTemplateMessages(Guid token, Guid templateId);*
- *GetCampaignsResponse GetCampaigns(Guid token, string externalReference);*
- *GetRejectionCommentResponse GetRejectionComment(Guid token, string signingToken);*
- *GroupResponse CreateGroup(Guid token, CreateGroupRequest request);*
- *GetGroupsResponse GetGroups(Guid token);*
- *void AddUserToGroup(Guid token, AddUserToGroupRequest request);*
- *CreateUserResponse CreateUser(Guid token, CreateUserRequest request);*
- *CreateAccountResponse CreateAccount(Guid token, CreateAccountRequest request);*
- *GetSigningTemplatesResponse GetFormSigningTemplates(Guid token);*

### 2.3.1. Login

#### Technical description

- A service consumer must call the Login method prior to any other operation.
- The credentials provided to the Login method must match a valid Addo user email as string and password hashed as SHA512 hash bytes to base64 string.
- In case of success the Login method will return a valid security token (type of Guid) that must be supplied subsequently in calls to the service methods.
- In case of authentication failure the Login method will return empty invalid security token (type of Guid).
- If email or password strings are null the service will throw a *FaultException*.
- If password is expired or account is disabled appropriate *FaultException* will be thrown.
- The token received on successful login is valid for a given time (00:05:00).
- Each time the token is used in an operation on the service this valid time window is refreshed.

#### Parameters

Name	Type	Description
email	string	Email of Addo user
password	string	SHA512 hash of Password as <b>base64</b> string of an Addo user.

#### Example

Request	Response
<pre>{   "email": "fake.email.for.api.test@visma.com",   "password": "c/SjPSMTRcZW1yzcv6qdUOrnx4GyHoH0fyD0h9XnAAYP7PP/sNgTjKdMSUGIZAXB+ZFmm20JWK6hrsgJHsGYw==" }</pre>	<pre>77d7f36e-3a90-462f-8d61-ee2b8a1f408d</pre>

### 2.3.2. InitiateSigning

#### Technical description

This method initiates a new Addo signing process.

An *InitiateSigningRequest* object must be supplied containing data must be supplied containing information needed for about how to create the signing along with a full signing dataset describing participating customers and their data.

The request also specifies signing template id which will be used while configuring signing.

#### Parameters

Name	Type	Description
------	------	-------------

token	Guid	User token, necessary for identification.
request	InitiateSigningRequest	Contains data about how to create signing.
templateOverride	TemplateOverride	Optional. Used in order to replace default account configuration presets (last reminder, signing method etc.).

## Response

Method gives response (type of InitiateSigningResponse). Information if signing failed being initiated could be found there.

## Types

Type	Description
Guid	A unique set of symbols, necessary for identification.
InitiateSigningResponse	Information if signing failed being initiated could be found there. Contains property: SigningToken (type of string).
InitiateSigningRequest	Contains properties: Name (type of string) to set signing name, StartDate (type of DateTime) to set starting date, SigningData (type of Signing) to set required parameters regarding documents, recipients, enclosures and signing sequence when initiating new signing, SigningTemplateId (type of Guid), DistributionUrl (type of string) to set callback url when signing is completed, RejectionUrl (type of string) to set callback url when signing is rejected, ExpirationUrl (type of string) to set callback url when signing expires, DocumentSignedUrl (type of string) to set callback url when documents are signed, TransactionStateChangedUrl (type of string) to set callback url for all transaction state changes.
TemplateOverride	Contains properties: Duration (type of TimeSpan), MessageTypes (array of MessageTypeEnum), NotificationInterval (type of NotificationIntervalEnum), LastReminder (type of LastReminderEnum), SigningMethod (type of SigningMethodEnum), DocumentEncryption (type of DocumentEncryptionEnum), ShowSignerName (type of bool), ShowDate (type of bool) and CustomMessageTemplates (array of MessageTemplate), AuthenticationMethod (type of AuthenticationMethod), NotificationIntervalDays (type of int)
MessageTemplate	Used for sending customized messages (overrides default messages) for recipients. Contains properties: UsageType (type of TemplateUsageType), Subject (type of string) used for email and Body (type of string) used for email or sms message.
Signing	Contains properties: Recipients (array of RecipientData) to define recipients' data such as name, phone etc., Sender allows you to have sender name, email and company name other than your account name (type of SenderData) Documents (array of Document) to use these pregenerated documents if it is necessary while initiating signing, EnclosureDocuments (array of Document), SigningSequence (type of SigningSequenceOrder), ReferenceNumber (type of string), Sender (type of SenderData), SenderComment (type of string), AllowInboundEnclosures (type of bool), AllowRecipientComment (type of bool), ExternalReferenceId (type of string), AdditionalData (type of string).
RecipientData	Information about the recipient. Contains properties: Id (type of Guid) relates to SigningSequence, Cpr (type of string), Name (type of string), PID (type of string), Address (type of string), Email (type of string), Phone (type of string), CVR (type of string), SSN ([deprecated] type of string), SwedishSsn (type of string), NorwegianSsn (type of string), TupasSsn (type of string), TemplateData (type of TemplateDataContainer), SendWelcomeNotification (type bool?, true by default) which sets whether invitation mail /sms has to be sent to a recipient, SendDistributionNotification (type of bool?, true by default) which sets whether distribution mail/sms has to be sent to a recipient, SendDistributionDocument (type of bool?, true by default) which sets whether a receipt message should include documents, SigningMethod (type of SigningMethodEnum?, if not set inherited from signing template), AuthenticationMethod (type of AuthenticationMethodEnum?, if not set inherited from signing template), Title (type of string), DistributionMethod (type of DistributionMethodEnum?, setting if recipient will get documents and how it will be sent), RecipientSignaturePlacements (type of RecipientSignaturePlacement array).
SenderData	Information about the sender. Name (type of string) CompanyName (type of string) Email (type of string)  This information is used only for display purpose, no data will be sent to this email address.



Document	Contains properties: Id (type of Guid) relates to SigningSequence, Data (type of string) which is encoded as base64 string, Name (type of string), MimeType (type of string), AdditionalData (type of string).
SequenceOrder	Defines order how the documents will be signed by recipients. Contains property: SigningSequenceItems (array of SequenceItem).
SequenceItem	States sequence number for a recipient. Contains properties: RecipientId (type of Guid) and SequenceNumber (type of int).
TemplateDataContainer	Used for pdf generation using XSLT templates. Contains property Items (list of TemplateDataItem).
TemplateDataItem	Represents XML. Contains properties: Name (type of string) which represents XML tag name, Value (type of string) which represents value inside that element and Items (list of TemplateDataItem) which contains nesting XML elements.
MessageTemplateType	<b>OBSOLETE.</b> Can have values: <i>Sms</i> (1), <i>Email</i> (2). <i>Sms</i> is no longer used, so all messages goes for Email type, No need to use it.
TemplateUsageType	Describes for what purpose the template message will be used. Can have values: <i>StartMessage</i> (0), <i>RemindMessage</i> (1), <i>Distribution</i> (4), <i>CampaignStartMessage</i> (5), <i>CampaignRemindMessage</i> (6), <i>ApproveMessage</i> (7), <i>ApproveReminderMessage</i> (8), <i>SigningPortalReceiptText</i> (9)
MessageTypeEnum	Can have values: <i>None</i> (0), <i>Mail</i> (1), <i>SMS</i> (2), Eboks (3) (used for e-Boks private), EboksCompany (5). Describes on which channel the campaign will send out messages to a recipient.
SigningMethodEnum	Can have values: <i>NemId</i> (1), <i>Stylus</i> (2), <i>Norwegian BankID</i> (3), <i>NemIDMoces</i> (4), <i>Swedish BankID</i> (5), <i>Accept</i> (6), <i>Norwegian BankID Mobile</i> (7 Deprecated, same as Norwegian BankID), <i>NemIdPocesNoSsn</i> (deprecatd, does the same as NemId), <i>FTN/Tupas</i> (9), <i>Siths</i> (10), <i>Approve</i> (11), <i>Vidua</i> (12), <i>Freja</i> (13), <i>Efos</i> (14), <i>MitID Private</i> (15), <i>eIDAS</i> (16), <i>IDIN</i> (17), <i>eHerkenning</i> (18), <i>Freja Org ID</i> (19), <i>Freja+</i> (20), <i>MitID Erhverv</i> (21). Describes how the documents of the signing must be signed.
NotificationIntervalEnum	Can have values: <i>DontSend</i> (1), <i>EveryWeek</i> (2), <i>EveryTwoWeeks</i> (3), <i>EveryThreeWeeks</i> (4). Describes the frequency with which the campaign will send out notifications to its recipients.
LastReminderEnum	Can have values: <i>DontSend</i> (1), <i>DayBefore</i> (2), <i>TwoDaysBefore</i> (3). Describes when to send out last reminder to recipients of the signing.
DocumentEncryptionEnum	Can have values: <i>None</i> (1), <i>Encrypted</i> (2), <i>Passcode</i> (3). Specifies whether encryption is enabled for signing documents when distributing.
AuthenticationMethodEnum	Can have value: <i>None</i> (0), <i>NemIdPrivate</i> (1), <i>NemIdPrivateNoSsn</i> (deprecatd, does the same as NemIdPrivate), <i>TwoFactorVerification</i> (3), <i>Siths</i> (4), <i>Efos</i> (5), <i>NemIdEmployee</i> (7), <i>NorwegianBankId</i> (8), <i>SwedishBankId</i> (9), <i>NorwegianBankIdMobile</i> (10), <i>SecretCode</i> (11), <i>Vidua</i> (12), <i>FTN / Tupas</i> (13), <i>Freja</i> (14), <i>Idin</i> (15), <i>eHerkenning</i> (16), <i>eIDAS</i> (17), <i>MitID Private</i> (18), <i>Freja Org ID</i> (19), <i>Freja+</i> (20), <i>MitID Erhverv</i> (21). Specifies which method should use on authentication before signing documents.
DistributionMethodEnum	Can have value: <i>None</i> (1), <i>MessageWithDocuments</i> (2), <i>MessageWithoutDocuments</i> (3) Eboks (4)
Callback	Information about callback: Url (type of string) Type (type of CallbackTypeEnum)
CallbackTypeEnum	Can have values: <i>Distribution</i> (1), <i>Expiration</i> (2), <i>Rejection</i> (3), <i>DocumentOpened</i> (4), <i>DocumentSigned</i> (5), <i>TransactionStateChanged</i> (6), <i>Redirect</i> (7), <i>Invitation</i> (8), <i>Reminder</i> (9)

## Properties of the types

Type	Property	Type	Description
InitiateSigningResponse	SigningToken	string	Token of signing, unique identification.
InitiateSigningRequest	Name	string	Defines name of a signing. Mandatory, Max 100 chars.
	StartDate	DateTime	Defines when a signing will start. StartDate value cannot be 24 hours before request is created. Mandatory. Uses UNIX date format like "/Date (1573638173002)/"
	SigningData	Signing	Contains data about signing.
	SigningTemplateId	Guid	Defines a Guid which is associated with a template settings of a signing (duration, message type, notification interval, signing method etc.).
	DistributionUrl (obsolete)	string	Distribution callback url. On distribution for the provided url it will add query string parameter "signingToken"
	RejectionUrl (obsolete)	string	Rejection callback url. On rejection for the provided url it will add query string parameter "signingToken"
	ExpirationUrl (obsolete)	string	Expiration callback url. On expiration for the provided url it will add query string parameter "signingToken"
	DocumentSignedUrl (obsolete)	string	Document signed callback url. On document signed for the provided url it will add query string parameters "signingToken", "transactionToken", "externalDocumentId"
	DocumentOpenedUrl (obsolete)	string	Document opened callback url. On document opened for the provided url it will add query string parameters "signingToken", "transactionToken", "externalDocumentId"
	TransactionStateChangedUrl (obsolete)	string	Transaction state changed callback url. On transaction state change for the provided url it will add query string parameters "signingToken", "transactionToken", "referenceNumber", "transactionStateId"
	Callbacks	Callback[]	An array of callbacks. Explicit properties of the callbacks are obsolete.
TemplateOverride	Duration	TimeSpan?	Describes life time of the signing, must be longer than a day. Please see below in section 4 (Notes).
	MessageTypes	MessageTypeEnum[]	Describes on which channel the signing will send out messages to a recipient: <i>Mail</i> (1) and/or <i>SMS</i> (2).
	NotificationInterval	NotificationIntervalEnum?	Describes the frequency with which the signing will send out notifications to its recipient: <i>DontSend</i> (1), <i>EveryWeek</i> (2), <i>EveryTwoWeeks</i> (3), <i>EveryThreeWeeks</i> (4).
	LastReminder	LastReminderEnum?	Describes when to send out last reminder to recipients of the signing: <i>DontSend</i> (1), <i>DayBefore</i> (2), <i>TwoDaysBefore</i> (3).
	SigningMethod	SigningMethodEnum?	Describes how the documents of the signing must be signed: <i>NemId</i> (1), <i>Stylus</i> (2), <i>BankId</i> (3), <i>NemIdMoces</i> (4), <i>SwedishBankId</i> (5), <i>Accept</i> (6), <i>NoBankIdMobile</i> (7, deprecated, same as BankId), <i>NemIdPocesNoSsn</i> (deprecated, does the same as NemId), <i>Siths</i> (10).
	DocumentEncryption	DocumentEncryptionEnum?	Specifies whether encryption is enabled for signing documents when distributing: <i>None</i> (1), <i>Encrypted</i> (2), <i>Passcode</i> (3).
	SmsVerification	bool?	[DEPRECATED, use authentication method] Specifies whether signing uses SMS verification when logging in.
	ShowSignerName	bool?	Specifies whether signer name should be displayed below signature (applies only for Touch signings)
	ShowDate	bool?	Specifies whether signing date should be displayed below signature (applies only for Touch signings)
	CustomMessageTemplates	MessageTemplate[]	Defines messages templates which would override default message templates. Message template contains subject, body text, usage type (ex. distribution message) and type how it will be distributed (ex. SMS).
	AuthenticationMethod	AuthenticationMethodEnum?	Authentication method when accessing transaction in SigningPortal. Possible values: <i>None</i> (0), <i>NemIdPrivate</i> (1), <i>NemIdPrivateNoSsn</i> (deprecated, does the same as NemIdPrivate), <i>TwoFactorVerification</i> (3).
	NotificationIntervalDays	int?	Notification interval in specific days count (not from enum).

	CustomMessageOptions	MessageOptions	Overrides email content settings.
MessageOptions	DisplaySenderName	bool	Specifies whether sender name will be displayed in email.
	DisplayAccountName	bool	Specifies whether account name will be displayed in email.
	DisplayDeadline	bool	Specifies whether deadline will be displayed in email.
	DisplayFileNames	bool	Specifies whether file names will be displayed in email.
	DisplayTransactionId	bool	Specifies whether transaction id will be displayed in email.
	DisplaySenderEmail	bool	Specifies whether sender email will be displayed in email.
	DisplaySenderPhone	bool	Specifies whether sender phone will be displayed in email.
MessageTemplate	Subject	string	Subject used for email message. Max 300 chars.
	Body	string	Message body. Max 1000 chars.
	UsageType	TemplateUsageType	What kind of message it is. Can be: <i>StartMessage</i> (0), <i>RemindMessage</i> (1), <i>Distribution</i> (4), <i>CampaignStartMessage</i> (5), <i>CampaignRemindMessage</i> (6), <i>ApproveMessage</i> (7), <i>ApproveReminderMessage</i> (8), <i>SigningPortalReceiptText</i> (9).
	MessageType	MessageTemplateType	Can be: Sms (1), Email (2). The value of this property is no longer in use since a signing can have recipients with different message types so the same text is used for all messages types.
Signing	Recipients	RecipientData[]	Contains recipients which are associated with the signing. Can be empty (but not null) if the signing template already has recipients defined.
	Documents	Document[]	Specifies documents which could be used for signing.
	EnclosureDocuments	Document[]	Contains enclosure documents which are added to signing.
	SigningSequence	SequenceOrder	Defines signing sequence of recipients to sign documents.
	ReferenceNumber	string	Defines an optional reference number for transactions. Max 36 chars.
	Sender	SenderData	Optional. Defines sender information. Contains properties name, email and company name to be displayed in emails and signing portal.
	SenderComment	string	Optional. Defines comment which is shown to recipient. Max 2000 chars.
	AllowInboundEnclosures	bool	Specifies whether inbound (recipient) enclosures are allowed.
	AllowRecipientComment	bool	Specifies whether a recipient can leave a comment.
	ExternalReferenceId	string	An identifier that could be used for integrations.
	BccRecipients	BccRecipientData[]	Specifies recipients which receive distribution email as BCC.
RecipientData	Id	Guid	Obsolete. Use ExternalId instead  Unique Guid to identify recipient (optional and used to match with SequenceId).
	ExternalId	Guid	String value to identify recipient. This value will be provided with GetSigning method
	SequenceNumber	int?	Defines the recipient's sequence number within signing
	Cpr	string	Defines Cpr (personal identification) number. Max 10 chars
	PID	string	Obsolete. The field is not used.  NemID public ID. Max 20
	Name	string	Defines name of the recipient. Max 255 chars

	Address	string	Defines address of the recipient. Max 150 chars
	Email	string	Defines email of the recipient. He will receive letters from the web service in this email. Max 255 chars
	Phone	string	Defines phone of the recipient. He will receive SMS from the web service in this phone, if distribution is set to SMS. Max 50 chars
	SignedDate	DateTimeOffset	Defines when the document was signed by the user (not specified by creator of the signing)
	CVR	string	Company identification ID. Max 12 chars.
	SSN (deprecated)	string	It used to be one field for both Norwegian and Swedish ssn, for both separate fields exists, see SwedishSsn and NorwegianSsn
	SwedishSsn	string	Swedish personal number in a format 'yyyymmddnnnn'. allowed number of characters: 12
	NorwegianSsn	string	Norwegian personal number. Max 12 chars.
	TupasSsn	string	SSN for Tupas signing.
	TemplateDataContainer	TemplateData	Defines template for generating document (using XSLT transformation).
	SendWelcomeNotification	bool	If Null default True.
	SendDistributionNotification	bool	If Null default True. <b>OBSOLETE, use DistributionMethod instead</b>
	SendDistributionDocument	bool	If Null default True. <b>OBSOLETE, use DistributionMethod instead</b>
	SigningMethod	SigningMethodEnum?	Can be Null. Defines Recipient signing method, overrides selected Template signing method. If not defined (Null) Template signing method will be used
	AuthenticationMethod	AuthenticationMethodEnum?	Can be Null. Defines Recipient authentication method, overrides Template authentication method. If not defined (Null) Template authentication method is used
	Title	string	Recipient title. Max 255 chars.
	DistributionMethod	DistributionMethodEnum?	Can be null. Defines Recipient distribution method, overwrites values from template and fields SendDistributionNotification and SendDistributionDocument. See table below for valid values.
	AllowApproveAllAttachments	bool	Defines if recipient will be able to approve all attachments at once
	IsQuestionnaireEnabled	bool	Defines if recipient will be asked to fill answers for questionnaire
	Secret	string	Secret is mandatory only when using authentication method SecretCcode. Max 255 characters
Document	NotificationMethods	MessageTypeEnum[]	Can be Null. Defines Recipient notification methods, overrides Template MessageTypes. If not defined (Null) Template MessageTypes is used.
	AdditionalData	string	Optional. Field to store any data per Recipient. Limited to 4000 characters
	RecipientSignaturePlacements	RecipientSignaturePlacement[]	Optional. Defines signature placements
	Id	Guid	Identifier of the document, should be passed. Related to signing sequence association
	Data	string	Document data encoded as base64 string. Mandatory.
	Name	string	Document name. Mandatory. Max 255 chars.
	MimeType	string	Identifies what kind is the kind of document (ex. "application/pdf"). Max 255 chars.
	AdditionalData	string	Optional. Field to store any data per document. Limited to 4000 characters

SequenceOrder	SigningSequenceItems	SequenceItem[]	Obsolete. Use Recipient.SequenceNumber instead Contains signing sequence items.
SequenceItem	RecipientId	Guid	States for which recipient the sequence number applies.
	SequenceNumber	int	States sequence number for a recipient.
TemplateDataContainer	Items	TemplateDataItem[]	Used for pdf generation using XSLT templates.
TemplateDataItem	Name	string	Name of an XML tag.
	Value	string	Value of an XML element.
	Items	TemplateDataItem[]	Inner XML elements.
BccRecipientData	Name	string	Max chars 255.
	Email	string	Email of bcc recipient.
SenderData	Name	string	Senders name to display. Max chars 255
	Email	string	Senders email to display. Max chars 255
	CompanyName	string	Senders company name to display. Max chars 255
Callback	Type	CallbackTypeEnum	Cannot be null. Defines the type of the callback.
	Url	string	Cannot be empty. Defines the url of the callback.
RecipientSignaturePlacement	DocumentPage	int	Page number
	Top	float	Signature position vertically
	Left	float	Signature position horizontally
	Width	float	Signature width
	Height	float	Signature height
	ItemType	SignatureType	Signature = 0, Date = 1
	DocumentId	Guid	Identifier of the external document
	TemplateDocumentId	int?	Identifier of template document

#### DistributionMethod values

Value	Description
1	None
2	Message with documents
3	Message without documents
4	Distribute to e-Boks

#### Example

Request	Response
<pre>{   "token": "126d6f15-997e-4280-a670-e30fec346392",   "request": {     "DistributionUrl": null,     "DocumentSignedUrl": null,     "DocumentOpenedUrl": null,     "ExpirationUrl": null,     "Name": "test signing", </pre>	<pre>{   "SigningToken": "753-1584AE-102882" }</pre>

```

"RejectionUrl": null,
"SigningData": {
  "AdditionalData": "goes here",
  "AllowInboundEnclosures": true,
  "AllowRecipientComment": true,
  "BccRecipients": [],
  "Documents": [
    {
      "Data": "base64stringOfFile",
      "Id": "1fe93abb-5363-4eb5-a89f-5210d38471d6",
      "MimeType": "PDF",
      "Name": "test.pdf"
    }
  ],
  "EnclosureDocuments": null,
  "ExternalReferenceId": null,
  "Recipients": [
    {
      "Address": null,
      "AuthenticationMethod": null,
      "CVR": null,
      "Cpr": "0101987654",
      "Email": "test_recipient1@visma.com",
      "Id": "4c24818a-eae2-4eb0-aa2e-f77ab355f77d",
      "SequenceNumber": 1,
      "Name": "TestName1",
      "PID": null,
      "Phone": null,
      "SwedishSsn": null,
      "NorwegianSsn": null,
      "SendDistributionDocument": null,
      "SendDistributionNotification": true,
      "SendWelcomeNotification": true,
      "SigningMethod": 2,
      "TemplateData": {
        "Items": []
      },
      "Title": null,
      "TupasSsn": null,
      "RecipientSignaturePlacement": "TemplateDocumentI"
    }
  ],
  "Items": [
    {
      "DocumentPage": "1",
      "Top": "0.1",
      "Left": "0.2",
      "Width": "0.3",
      "Height": "0.4",
      "ItemType": "0",
      "DocumentId": "1fe93abb-5363-4eb5-a89f-5210d38471d6",
      "TemplateDocumentId": 351
    }
  ],
  {
    "Address": null,
    "AuthenticationMethod": null,
    "CVR": null,
    "Cpr": "0101987654",
    "Email": "test_recipient2@visma.com",
    "Id": "15271303-95a6-4865-b03f-90582549697e",
    "SequenceNumber": 2,
    "Name": "TestName2",
    "PID": null,

```

```

        "Phone": "+123456789",
        "SSN": null,
        "SendDistributionDocument": null,
        "SendDistributionNotification":
true,
        "SendWelcomeNotification": true,
        "SigningMethod": 2,
        "TemplatedData": {
            "Items": []
        },
        "Title": null,
        "TupasSsn": null
    }
],
    "ReferenceNumber": "666",
    "Sender": {
        "CompanyName": "SenderCompanyName",
        "Email": "sender.email@visma.com",
        "Name": "SenderTestName",
        "Phone": null
    },
    "SenderComment": "this is simple
comment",
    "SigningSequence": {
        "SigningSequenceItems": [
            {
                "RecipientId": "4c24818a-eae2-
4eb0-aa2e-f77ab355f77d",
                "SequenceNumber": 2
            },
            {
                "RecipientId": "15271303-95a6-
4865-b03f-90582549697e",
                "SequenceNumber": 1
            }
        ]
    },
    "SigningTemplateId": "95b29391-c23b-46d2-
af51-ff9caa8edd9b",
    "StartDate": "/Date(1530791625)/",
    "Callbacks": [
        {
            "Url": "http://www.
distributionurl.com",
            "Type": 1
        },
        {
            "Url": "http://www.redirecturl.
com",
            "Type": 7
        }
    ],
}
}

```

### 2.3.3. GenerateDocument (obsolete)

#### Technical description

- This method generates documents for signing by using XSLT templates.
- In the request a document template name or document template itself must be supplied along with a signing dataset which contains info about the recipients.
- The template determines how the document will be generated.

- The signing data describes which recipients the service must generate documents to, also describes each recipients' data.
- The method returns a response which contains validation data, generated documents.

## Parameters

Name	Type	Description
token	Guid	Unique identifier to identify user.
request	GenerateDocumentRequest	Data which will be used when generating document.

## Properties of the types

Type	Property	Type	Description
GenerateDocumentRequest	DocumentTemplate	string	XSLT format template
	RecipientData	RecipientData[]	Described in InitiateSigning. TemplateData is required at this point for DocumentTemplate XSLT data fields.
GenerateDocumentResponse	GeneratedDocuments	Document[]	Contains generated documents.
Document	RecipientId	Guid	Specifies with which recipient the document is associated.
	Data	byte[]	Contains the document data in byte array.

## 2.3.4. GetSigningTemplates

### Technical description

This method allows to get signing templates of the user. It takes as a parameter user token and returns GetSigningTemplatesResponse with signing templates inside. This method could be accessed through both SOAP.

### Properties of types

Type	Property	Type	Description
GetSigningTemplatesResponse	SigningTemplateItems	SigningTemplate[]	Contains SigningTemplate objects.
SigningTemplate	Id	Guid	Unique Guid to identify signing template.
	FriendlyName	String	Specifies a name for the signing template.
	Duration	TimeSpan	Defines duration of the signing.
	MessageTypes	MessageTypeEnum[]	See above in the <i>InitiateSigning</i> description.
	LastReminder	LastReminderEnum	
	SigningMethod	SigningMethodEnum	
	DocumentEncryption	DocumentEncryptionEnum	
	AuthenticationMethod	AuthenticationMethod	Described above.
	DistributionMethod	DeliveryMethodEnum	Described below.
	ShowSignerName	Bool	Specifies whether signer name should be displayed below signature (applies only for Touch signings)
	ShowDate	Bool	Specifies whether signing date should be displayed below signature (applies only for Touch signings)
	NotificationIntervalDays	Int	Value in days describes after how much days reminder should be sent repeatedly until signing is expired.
	LastReminderDay	Int	Value in days, describes when the last reminder is sent before a signing expires



	GroupId	Int?	GroupId of this signing template
	Recipients	RecipientData[]	Predefined recipients. RecipientData described above.
	BccRecipients	BccRecipientData[]	Predefined bcc recipients. BccRecipientData described above.
	SigningTemplateActions	SigningTemplateAction[]	Contains SigningTemplateAction objects.
	Documents	SigningTemplateDocument[]	Template documents that require signing
	EnclosureDocuments	SigningTemplateDocument[]	Template documents that does not require signing
SigningTemplateDocument	DocumentId	int	Identifier of signing template document
	Name	string	Name of signing template document
SigningTemplateAction	MethodType	ActionTypeEnum	All values are reserved for future except SenderDistribution=5. Note that sender distribution may be different from DistributionMethod value above, which is for recipients.
	Method	DeliveryMethodEnum	Described below.
	MethodParameter	Int?	Reserved for future.

## Enum values

Type	Name	Value
DeliveryMethodEnum	None	0
	Email	1
	EboksPrivate	5
	GoogleDrive	6
	Sftp	7
	CommonEmail	8
	VismaHrm	9
	VismaHr	10
	SafeCloudPrivate	11
	SafeCloudCompany	12
	EboksCompany	13

## 2.3.5. GetSigning

### Technical description

This method returns info about the signing including recipients, documents etc.

### Parameters

Name	Type	Description
token	Guid	Unique identifier to identify user.
signingToken	string	Token for identifying signing.

TemplateDataContainer

### Properties of types

--	--	--	--

Type	Property	Type	Description
GetSigningResponse	Name	string	Name of the signing.
	TemplateName	string	Name of template used
	SigningToken	string	Token of the signing.
	Recipients	Recipient[]	Contains recipient's info.
	Enclosures	Enclosure[]	Contains signing enclosure c
	ReferenceNumber	string	Contains optional reference i
	Documents	SigningDocument[]	Contains signing documents
	CreatedOn	DateTime	Date of signing creation
	ExpiresOn	DateTime	Date of signing expiration
	AdditionalData	string	
Recipient	Name	string	Contains Full Name of recipi
	XmlData	string	Contains XML data of the sig submitted in TemplateData.
	SimpleQuestions	Document	Contains recipient's simple q
	CustomId	Guid	Obsolete. Use ExternalId ins Recipient Id which was optio
	ExternalId	Guid	Recipient Id which was optio
	SignatureSubject	string	Subject (signer name) extrac
	SignatureIdentifier	string	Signer identifier (PID/RID/etc
	Title	string	Recipient's title
	AdditionalData	string	Additional data that was pas
	Cpr	string	Danish personal number
	Cvr	string	Danish company number (V/
	SwedishSsn	string	Swedish personal number
	FinnishSsn	string	Finnish personal number
	NorwegianSsn	string	Norwegian personal number
	SequenceNumber	nullable int	The sequence number of tra
Document	Name	string	Name of the document.
	Data	byte[]	Data of the document in byte
	MimeType	string	Mime type of the document.
	AdditionalData	string	Additional data that was pas
Enclosure(inherits from document)	Name	string	Name of the document.
	Data	byte[]	Data of the document in byte
	MimeType	string	Mime type of the document.
	IsInbound	bool	If true Enclore is was upload
	IsApproved	bool	Is enclosure approved in sigi
SigningDocument(inherits from document)	Name	string	Name of the document.
	Data	byte[]	Data of the document in byte
	MimeType	string	Mime type of the document.
	FlowId	int	Corresponding document flo
	State	DocumentFlowStateEnum	State of document. Possible
BccRecipient	Name	string	Contains Full Name of bcc re
	Email	string	Email of bcc recipient

## Example

Request	Response
---------	----------

<https://demo.vismaaddo.net/WebService/v2.0/restsigningservice.svc/GetSigning?signingToken=48C5-127B8C-F34D82&token=664dfc42-c5fd-4046-bf7d-731bdd04f12c>

```
{
  "BccRecipients":
  [],

  "CampaignExternalReference": null,
  "Documents": [
    {
      "Data": [
        37,
        80,
        68,
        70,
        45,
        49,
        46,
        55,
        10
      ],
      "MimeType":
      "application/pdf",
      "Name":
      "test_doc.pdf",
      "FlowId":
      145818,
      "Id":
      "a9828bf3-fbee-4dac-80a0-6e7f2dc9b022"
    }
  ],
  "Enclosures": [],
  "TemplateName":
  "Transaction with E-mail/Web Signature",
  "Recipients": [
    {

      "AdditionalData":
      null,
      "Cpr": null,
      "CustomId":
      null,
      "Cvr": null,

      "FinnishSsn": null,
      "Name":
      "*****",

      "NorwegianSsn": "",

      "SignatureIdentifier":
      null,

      "SignatureSubject":
      "197303200260",

      "SimpleQuestions":
      null,

      "SwedishSsn": "",
      "Title":
      null,
      "XmlData":
      null
    }
  ],
  "ReferenceNumber":
  null,
```

```
"SigningToken":  
"48C5-127B8C-F34D82"  
}
```

### 2.3.6. GetSigningStatus - Obsolete

This endpoint is obsolete and will be removed in the future. Please use Callbacks while initiating signing. There is no reason to periodically check for signing status, instead a callback can be received on any state change - read more in [Initiate Signing](#) section, see Callback parameter and CallbackTypeEnum value TransactionStateChanged.

#### Technical description

This method returns info about the signing including recipients, documents etc.

#### Parameters

Name	Type	Description
token	Guid	Unique identifier to identify user.
signingToken	string	Token for identifying signing.

#### Properties of types

Type	Property	Type	Description
GetSigningStatus	State	SigningStateEnum	Signing state
	Recipients	Recipient[]	Contains Recipients
	Transactions	Transaction[]	Contains signing transactions
	SigningToken	string	Token of the signing.
	CreatedOn	DateTime	Date of signing creation
	ExpiresOn	DateTime	Date of signing expiration
	ReferenceNumber	string	Reference number
	AdditionalData	string	
Recipient	Name	string	Full Name of Recipient
	Title	string	Title of Recipient
	Email	string	Email of Recipient
	ExternalId	Guid	Recipient Id which was specified while creating signing.
	AdditionalData	string	Additional data of Recipient
	Cpr	string	Danish CPR number
	Cvr	string	Danish CVR number
	SwedishSsn	string	Swedish personal number
	FinnishSsn	string	Finnish personal number
	NorwegianSsn	string	Norwegian personal number
	Transactions	Transactions[]	Contains Transactions
Transactions	TransactionToken	Guid	Token of the transaction.
	State	TransactionStateEnum	Describes transaction state
	SequenceNumber	int	Sequence number of the transaction.

#### Enum values

Type	Value	Description
------	-------	-------------

SigningState Enum	<i>Failed (-1)</i>	Error occurred.
	<i>Created (1)</i>	Signing is created
	<i>Started (2)</i>	Signing reached his signing start date and sent notifications to recipients.
	<i>Completed (3)</i>	Finished distribution. Signing is completed.
	<i>Expired (4)</i>	Reached selected signing template expiration date
	<i>Stopped (5)</i>	Stopped by user
	<i>CampaignStarted (6)</i>	Related to Campaigns
	<i>Rejected (7)</i>	Recipient rejected to sign document
Transaction StateEnum	<i>Failed (-1)</i>	Error occurred.
	<i>Created (1)</i>	When transaction is created, and signing start date is not due.
	<i>Pending (2)</i>	Related to sequential signing. First document in sequence order is stated to Started as rest of them to Pending state.
	<i>Started (3)</i>	Signing start date is due and ready to sign document.
	<i>Signed (4)</i>	Recipient signed document - others may not have done that.
	<i>ReadyForDistribution (5)</i>	Start distributing transactions to recipients, and sender.
	<i>Completed (6)</i>	Finished distribution. Signing is completed.
	<i>Expired (7)</i>	Reached signing expiration date.
	<i>Cancelled (8)</i>	Cancelled by user.
	<i>DataCollecting (9)</i>	Relates to data campaigns. After campaign is initiated but not yet started, waiting for merged documents.
	<i>Rejected (10)</i>	Recipient rejected signing the document.

## Example

Request
<a href="https://demo.vismaaddo.net/WebService/v2.0/restsigningservice.svc/GetSigningStatus?signingToken=48C5-127B8C-F34D82&amp;token=664dfc42-c5fd-4046-bf7d-731bdd04f12c">https://demo.vismaaddo.net/WebService/v2.0/restsigningservice.svc/GetSigningStatus?signingToken=48C5-127B8C-F34D82&amp;token=664dfc42-c5fd-4046-bf7d-731bdd04f12c</a>
Response
<pre>{   "CreatedOn": "/Date(1584957744043)/",   "ExpiresOn": "/Date(1586167342044)/",   "ExternalReferenceId": "external ref id 123",   "Recipients": [     {       "AdditionalData": null,       "Cpr": "0304123456",       "Cvr": null,       "Email": "john.johnson@visma.com",       "FinnishSsn": null,       "Name": "John",       "NorwegianSsn": null,       "SwedishSsn": null,       "Title": "Mr.Manager",       "Transactions": [         {           "State": 7,           "TransactionToken": "17a6c21f-c71b-4a6b-b0eb-</pre>

```

8cf6c653d9bd"
    }
  ]
},
{
  "AdditionalData": null,
  "Cpr": null,
  "Cvr": null,
  "Email": "another.mister@visma.com",
  "FinnishSsn": null,
  "Name": "Another signer",
  "NorwegianSsn": null,
  "SwedishSsn": null,
  "Title": null,
  "Transactions": [
    {
      "State": 7,
      "TransactionToken": "22b9397d-1400-4cd9-9ca1-
8e61c2bf7657"
    }
  ]
},
"ReferenceNumber": "666",
"SigningToken": "4F63-12582E-CAD5A5",
"State": 4,
"Transactions": [
  {
    "State": 7,
    "TransactionToken": "17a6c21f-c71b-4a6b-b0eb-8cf6c653d9bd"
  },
  {
    "State": 7,
    "TransactionToken": "22b9397d-1400-4cd9-9ca1-8e61c2bf7657"
  }
]
}
}

```

### 2.3.7. StartCampaignSigning

#### Technical description

This method starts signing of a campaign which was created earlier by accepting merged documents (using mail merge functionality).

#### Parameters

Name	Type	Description
token	Guid	Unique identifier to identify user.
request	StartCampaignSigningRequest	Contains signing token and merged documents.

#### Response

Method gives response (type of StartCampaignSigningResponse) with information if the call had any errors and signing, transaction tokens.

#### Properties of types

Type	Property	Type	Description
StartCampaignSigningRequest	SigningToken	string	Unique token of the signing.
	MergedDocuments	MergeDocument[]	Array of merged documents.
	EnclosureDocuments	EnclosureDocument[]	Array of enclosure documents.
	TemplateData	TemplateData	Data, which will be converted as an recipients form data as XML.

	ata	aContainer	(Will be able to see that in GetSigning response near Recipient model).
	AdditionalSigners	RecipientData[]	Array of additional signers to add to signing.
	Recipient	CampaignRecipientOverride	Updated signing recipient information.
MergeDocument	ContentType	string	Content type of the document. Mandatory. Max 255 chars.
	Name	string	Name of the document. Mandatory. Max 255 chars.
	Data	byte[]	Contains PDF document data in byte array.
	DocumentFlowId	int	ID of document flow which signing document will be replaced by this merged document.
EnclosureDocument	Name	string	Name of the document. Mandatory. Max 255 chars.
	Data	byte[]	Contains PDF document data in byte array.
StartCampaignSigningResponse	SigningToken	string	Unique token of the signing.
	TransactionToken	Guid	Unique token of the transaction which is used in SigningPortal.
TemplateDataContainer	Items	List<TemplateDataItem>	List of key-value pairs for an XML
TemplateDataItem	Name	string	Name of key-value pair for XML
	Value	string	Value for key-value pair for XML
	Items	List<TemplateDataItem>	Deeper level of key-value pairs for an XML

### 2.3.8. MergeDocuments

#### Technical description

This method takes text information which is merged with word documents (replacing merge fields).

#### Parameters

Name	Type	Description
token	Guid	Unique identifier to identify user.
request	MergeDocumentsRequest	Contains signing token and key-value pairs of information for merging with word documents.

#### Response

Method gives response (type of MergeDocumentsResponse) with information if the call had any errors and merged documents.

#### Properties of types

Type	Property	Type	Description
MergeDocumentsRequest	SigningToken	string	Unique token of the signing.
	MergeData	Dictionary<string,string>	Key-value pairs of information which will be used when merging with word documents having merge fields.
MergeDocumentsResponse	MergedDocuments	MergeDocument[]	Array of merged documents. MergeDocument described earlier.

### 2.3.9. InitiateCampaign

#### Technical description

This method initiates data campaign.

#### Parameters

Name	Type	Description
------	------	-------------

token	Guid	User token, necessary for identification.
request	InitiateCampaignRequest	Contains data about how to create signing.
templateOverride	TemplateOverride	Optional. Used in order to replace default account configuration presets (last reminder, signing method, messages etc.).

## Properties of types

Type	Property	Type	Description
InitiateCampaignRequest	Name	string	set campaign name (used as signing reference number as well) - up to 36 chars
	Site	string	set web address where data will be collected - up to 100 chars
	RecipientsCsvData	byte[]	extract information about recipients - comma separated values that can be used - recipient name, email, cpr, phone, externalid, send welcome notification, send distribution notification, send documents. If you provide recipients as a list, then this should be null
	Recipients	CampaignRecipient	for adding recipients if not using CSV file
	MergeDocuments	MergeDocument[]	attach word documents for mail merge. If not provided a temporary document will be added which can later be replaced with PDF when using StartCampaignSigning
	SigningTemplateId	Guid	specify which template will be used
	DistributionUrl	string	
	RejectionUrl	string	
	ExpirationUrl	string	
	DocumentSignedUrl	string	Callback URL called when document is being opened. Adds additional query string parameters: "signingToken", "transactionToken", "externalDocumentId".
	DocumentOpenedUrl	string	Url that will be called if provided
	TransactionStateChangedUrl	string	callback url for each transaction state change
	ExternalReference	string	
	BccRecipients	BccRecipientData[]	Array of bcc recipients
TemplateOverride	AdditionalSigners	RecipientData[]	Array of additional signers to add to each signing
	AdditionalData	string	
	same as for InitiateSigning	same as for InitiateSigning	same as for InitiateSigning
MergeDocument	Name	string	name of the document and Data
	Data	byte[]	document data in bytes
CampaignRecipient	Name	string	max 255 chars, Required
	Cpr	string	max 10 chars, required when encryption is using CPR
	Email	string	max 255 chars, required when message type is mail
	Phone	string	max 50 chars, required when message type is SMS
	Cvr	string	max 12 chars, Required when using NemID Employee signing method
	BankIdSsn	string	max 11 chars
	SendWelco	bool	if not provided - true



	meNotification		
	SendDocuments	bool	If not provided - true. <b>OBSOLETE, use DistributionMethod instead</b>
	SendDistributionNotification	bool	if not provided - true. <b>OBSOLETE, use DistributionMethod instead</b>
	SigningMethod	SigningMethodEnum	if not provided - used from signing template
	AuthenticationMethod	AuthenticationMethodEnum	if not provided - used from signing template
	Title	string	max 255 chars
	ExternalId	string	max 255 chars
	DistributionMethod	DistributionMethodEnum	Can be null. Defines Recipient distribution method. (see InitiateSigning part for DistributionMethodEnum)
	AllowApproveAllAttachments	bool	Defines if recipient will be able to approve all attachments at once
	IsQuestionnaireEnabled	bool	Defines if recipient will be asked to fill answers for questionnaire
	Secret	string	Secret code, which is mandatory only when using authentication method SecretCode. Max length is 255 characters.
	AdditionalData	string	Optional. Field to store any data per Recipient. Limited to 4000 characters
	TupasSsn	string	Optional. Field is used to provide a Finnish social security number
BccRecipientData	Name	string	Max 255 characters
	Email	string	Max 255 characters

## Example

Request	Response
<pre>{   "token": "06ef8f71-32c2-4cfe-b957-93e22c9e10e3",   "request": {     "Name": "override2",     "Site": "http://demo.vismaaddo.net/datacollection/",     "SigningTemplateId": "19e6fe5b-e96a-4ab0-8899-012a932c1ddc",     "TransactionStateChangedUrl": "http://www.google.com",     "Recipients": [       {         "Name": "TestCampaign",         "Email": "test_campaign_recipient@visma.com",         "SigningMethod": 6       }     ],     "AdditionalSigners": []   },   "templateOverride": {     "LastReminder": 1,     "SigningMethod": 1   } }</pre>	<pre>{   "CampaignSignings": [     {       "SigningToken": "757-F53CF-63B41C",       "TransactionToken": "101a925b-8680-41c6-bd2a-a37cb2826f32"     },     {       "SigningToken": "757-F53D2-32BE9",       "TransactionToken": "7bc10e45-170c-4deb-8424-9492ebd61914"     }   ] }</pre>

### 2.3.10. GetAccountInfo

#### Technical description

This method returns account related information.

#### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.

#### Response

Method gives response (type of GetAccountInfo) which contains account related information.

#### Properties of types

Type	Property	Type	Description
GetAccountInfo	CreditsLeft	decimal	Number of credits left.
	IsEnterprise	bool	If value is True Account is Enterprise
	Name	string	Account Name
	Email	string	Account Email
	Phone	string	Account Phone
	AccountLevel	AccountLevel	Level of account. Possible values: <i>Now(1)</i> , <i>Test(2)</i> , <i>Enterprise(3)</i> , <i>Internal(4)</i>
	AccountId	int	Addo account identifier
	ExternalId	string	External account identifier
	Contacts	List<Contact>	List of saved account contacts (commonly used for autofilling signing recipient info)
Contact	Name	string	Name of a contact
	Title	string	Title of a contact
	Phone	string	Phone of a contact
	Email	string	Email of a contact
	Cvr	string	Tax number of a contact

#### Example

Request
<a href="https://demo.vismaaddo.net/WebService/v2.0/restsigningservice.svc/GetAccountInfo?token=664dfc42-c5fd-4046-bf7d-731bdd04f12c">https://demo.vismaaddo.net/WebService/v2.0/restsigningservice.svc/GetAccountInfo?token=664dfc42-c5fd-4046-bf7d-731bdd04f12c</a>

Response
<pre>{   "AccountDistributionMethod": 1,   "AccountId": 1613,   "AccountLevel": 3,   "CanValidateCpr": false,   "Contacts": [     {       "Cvr": null,       "Email": "addo.contact.user@visma.com",       "Name": "ContactName1",       "Phone": null,       "Title": null     }   ], }</pre>

```

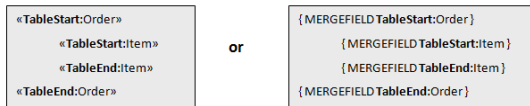
        "Cvr": null,
        "Email": "addo.contact.user2@visma.com",
        "Name": "Contact name 2",
        "Phone": null,
        "Title": "Manager"
    }
],
"CreditsLeft": -19.40,
"Email": "test@visma.com",
"ExternalId": null,
"IsEnterprise": true,
"Name": "Test Name",
"Phone": "+4500000000"
}

```

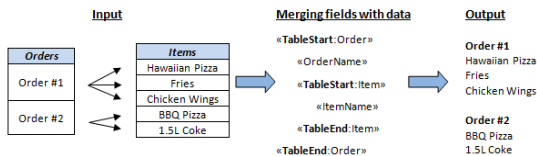
### 2.3.11. GenerateDocumentWithMergeData

#### Technical description

This method returns a base64 string of a PDF created from the provided information. The document must contain Merge Fields. Multiple objects (list of objects, dynamically generated tables and etc are also supported) and are called regions. Regions should look like this in the template document:



Example:



To insert a basic merge field in MS Word, click Insert -> Field -> MergeField and enter the same name as it will be used in your object (DataModel).

#### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
request	GenerateDocumentWithMergeDataRequest	Contains the data about generating the document
encryptDocument	bool	Boolean if the document needs to be encrypted, default false
encryptionkey	string	Document encryption key if encryption is needed

#### Types

Type	Description
Guid	A unique set of symbols, necessary for identification.
GenerateDocumentWithMergeDataRequest	Contains properties: Document (type of string) - base64 string for the document template. Most common usage is MS Word document with merge fields. RegionDatas (type of IEnumerable<GenerateDocumentRegionData>) - list of region datas, the objects used on creating dynamic sections in document with merge fields. There can be sources for mergedata: <b>DataModel</b> (type of string) - main data object converted to JSON string. Object properties are used in adding data to the end document <b>XMLMergeData</b> - XML is used as main data source. If both data source are provided XMLMergeData will be used.
GenerateDocumentRegionData	Contains properties: RegionName (type of string) - name of the region where the objects will be placed. Objects (type of IEnumerable<string>) - list of objects converted to JSON string. Object properties are used in adding data to the end document.

## Response

Method gives response (type of string) which contains the document bytes converted to a base64 string.

### 2.3.12. GetTransactionDetails

#### Technical description

Gets details of a transaction based on transaction token.

#### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
transactionToken	Guid	Transaction token to identify transaction.

## Response

Returns an object GetTransactionDetailsResponse with transaction information by the given transaction token.

### 2.3.13. ReactivateTransaction

#### Technical description

Reactivates transaction based on transaction token. Only transactions with state failed or expired can be reactivated.

#### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
transactionToken	Guid	Transaction token to identify transaction.

### 2.3.14. CancelTransaction (obsolete)

#### Technical description

Cancel transaction based on transaction token.

**Obsolete** - use CancelSigning endpoint.

#### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
transactionToken	Guid	Transaction token to identify transaction.

#### Example

Request	Response
<pre>{   "token": "c05f50aa-35f4-4fb8-8d3c-b70a9169d28a",   "transactionToken": "abcf50aa-35f4-4fb8-8d3c-b70a9169d28f" }</pre>	-

### 2.3.15. UpdateTransaction

#### Technical description

Updates transaction based on transaction token. If Transaction is found by TransactionToken and updated with the new provided data. If any of the fields (RecipientName, RecipientPhoneNo, RecipientEmail) are null or empty - it will not be used to update transaction.

## Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
request	UpdateTransactionRequest	An object with transaction information that needs updating

## Properties of types

Type	Property	Type	Description
Guid			A unique set of symbols, necessary for identification.
UpdateTransactionRequest	TransactionToken		
	RecipientName		Name of the recipient, max 255 chars
	RecipientPhoneNo		Recipient phone number, max 50 chars
	RecipientEmail		Recipient email, max 255 chars

## Example

Request
Guid
<pre>2.3.16. SaveRecipient {   "token": "{{token}}",   "request": {     "RecipientEmail": "firstname.lastname@visma.com",     "RecipientName": "ExampleName",     "RecipientPhoneNo": "+111555888444",     "TransactionToken": "31412965-0be9-4c62-b074-314129654c62"   } }</pre>

## Technical description

Saves a contact into Address Book. A contact must have unique Email and Phone fields, at least one of them must be provided. If a contact with provided values already exists, it will be updated, otherwise a new one will be inserted.

## Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
request	Contact	An object with contact information.

## Properties of types

Type	Property	Type	Description
Guid			A unique set of symbols, necessary for identification.
Contact	Name		Name of the recipient, max 255 chars.
	Title		Title of the recipient, max 255 chars.
	Email		Recipient email, max 255 chars.
	Phone		Recipient phone number, max 50 chars.
	Cvr		Company identification ID, max 12 chars.

## Example

Request	Response
<pre>{   "token": "db8b5d64-6f45-4748-a93a-</pre>	Response is only status code, endpoint does not return any content

```

80022d150286",
  "request": {
    "Email": "mark.example@visma.
com",
    "Phone": "+1234567890",
    "Name": "Mark",
    "CVR": "01010101",
    "Title": "Manager"
  }
}

```

## 2.3.17. DeleteRecipient

### Technical description

Deletes contact from Address Book. Matching is done by Name, Email and Phone fields. If a match is not found - nothing is deleted, in either way returns success response.

### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
request	Contact	An object with contact information.

### Properties of types

Type	Property	Type	Description
Guid			A unique set of symbols, necessary for identification.
Contact	Name		Name of the recipient, max 255 chars.
	Title		Title of the recipient, max 255 chars (not used currently).
	Email		Recipient email, max 255 chars.
	Phone		Recipient phone number, max 50 chars.
	Cvr		Company identification ID, max 12 chars (not used currently).

### Example

Request	Response
<pre> {   "token": "db8b5d64-6f45-4748-a93a-80022d150286",   "request": {     "Email": "mark.example@visma. com",     "Phone": "+1234567890",     "Name": "Mark"   } } </pre>	<p>Response is only status code, endpoint does not return any content</p>

## 2.3.18. ExportRecipients

### Technical description

Exports all contacts from Address Book in CSV format.

### Parameters

--	--	--

Name	Type	Description
token	Guid	User token, necessary for identification.
separator	string	Separator to be used for CSV fields (defaults to ';').

## Response

Response splits into two ways, one for SOAP service, another for REST.

SOAP: will return FileData type file object containing csv data in it

REST: This method returns UTF-8 encoded string containing CSV file data. Can be saved directly to file system.

## 2.3.19. ImportRecipients

### Technical description

Import contacts from CSV file into Address Book. A contact must have unique Email and Phone fields, at least one of them must be provided. If there are contacts in Address Book that can be matched by Email or Phone they will be updated, otherwise a new contact will be inserted. For a correct CSV file format we recommend to first do ExportRecipients() call, and then edit the response file if needed.

### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
data*	byte[]	Byte array of UTF-8 encoded string of CSV file data.
recipientsCsv**	string	Csv format string containing address book elements
separator	string	Separator to be used for CSV fields (defaults to ';').
*- applies for SOAP service only		
**- applies for REST service only		

### Example (for REST)

Request
<pre>{   "token": "{{token}}",   "recipientsCsv": "Name;Title;Email;Phone;Cvr\r\nAddo First;;addo.first@addosign.net;;\r\nSecond;;addo.second@addosign.net;;",   "separator": ";" }</pre>

## 2.3.20. GetCampaigns

### Technical description

Get campaigns with same externa reference identifier

### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
externalReference	string	External campaign identifier

## Response

Type	Description
------	-------------

GetCampaignsResponse	<p>Contains properties:</p> <p><b>Campaigns</b> - list of <b>Campaign</b> object</p> <p><b>Campaign</b> contains: <b>CampaignStateEnum</b> - possible values Started = 1, Completed = 2, Canceled = 3</p> <p><b>Signings</b> - list of <b>Signing</b> objects</p> <p><b>Signing</b> contains:</p> <p><b>Token</b> - Signing token, public signing identifier</p> <p><b>State</b> - State of Signing, <b>SigningStateEnum</b></p> <p><b>TransactionState</b> - State of Transaction, <b>TransactionStateEnum</b></p>
----------------------	---

## Example

Request	Response
<pre>{   "token": "db8b5d64-6f45-4748-a93a-80022d150286",   "externalReference": null }</pre>	<pre>{   "Campaigns": [     {       "Signings": [         {           "State": 4,           "Token": "4726-16AAA-6A9A",           "TransactionState": 7         }       ],       "State": 2     },     {       "Signings": [         {           "State": 4,           "Token": "47F4-14F61-4E20",           "TransactionState": 7         }       ],       "State": 2     }   ] }</pre>

## 2.3.21. GetTemplateMessages

### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
templateId	Guid	Template ID

### Response

Type	Description
GetTemplateMessagesResponse	<p>Contains properties:</p> <p><b>ID</b>- Guid of template</p> <p><b>TemplateMessages</b> - list of <b>SigningTemplateMessage</b></p> <p><b>SigningTemplateMessage</b> contains:</p> <p><b>Subject</b>, subject of email message</p>



**Body**, content of message

**UsageType**, enum, StartMessage = 0, RemindMessage = 1, Distribution = 4, CampaignStartMessage = 5, CampaignRemindMessage = 6

**Type**, enum, Sms = 1, Email = 2, SigningPortalReceipt = 3

## Example

### Request

<https://demo.vismaaddo.net/WebService/v2.0/restsigningservice.svc/GetTemplateMessages?templateId=f2e2e62b-7d67-4695-8961-b2411dbd20a7&token=664dfc42-c5fd-4046-bf7d-731bdd04f12c>

### Response

```
{
  "Id": "f2e2e62b-7d67-4695-8961-b2411dbd20a7",
  "TemplateMessages": [
    {
      "Body": "<p>Dear %recipientname%</p><p>%sender% has sent you a document which awaits your signing.You can sign the document by following the link below: %signingportalurl%.</p><p>Best Regards,<br /> %sender%<br /> %senderaccount%</p>",
      "Subject": "Document awaits your signing",
      "Type": 2,
      "UsageType": 0
    },
    {
      "Body": "<p>Dear %recipientname%,</p><p>%sender% has sent you a document which awaits your signing. You can sign the document by following the link below: %signingportalurl%.</p><p>Best Regards,<br /> %sender%<br />%senderaccount%</p>",
      "Subject": "Reminder: Document awaits your signing",
      "Type": 2,
      "UsageType": 1
    },
    {
      "Body": "<p>Dear %recipientname%</p><p>A copy of the signed documents is attached this e-mail.</p><p>Best Regards,<br /> %sender%<br /> %senderaccount%</p>",
      "Subject": "Receipt for signed document",
      "Type": 2,
      "UsageType": 4
    },
    {
      "Body": "Dear %recipientname%, <br/><br/> %sender% has added you to a campaign. You can participate by adding your information here %campaignsite%. Thank you. <br/><br/> Best regards <br/> %sender%<br/>%senderaccount%",
      "Subject": "Invitation to participate",
      "Type": 2,
      "UsageType": 5
    },
    {
      "Body": "Dear %recipientname%, <br/><br/> Please go to %campaignsite% and add your information to generate the document for you to sign. Thank you. <br/><br/> Best regards <br/> %sender%<br/>%senderaccount%",
      "Subject": "Reminder",
      "Type": 2,
      "UsageType": 6
    },
    {
      "Body": "Dear %recipientname%\n\n \n\nThis is test version of email from %sender% on url %signingportalurl%\n\n \n\nBest Regards\n",
      "Subject": null,
      "Type": 3,
    }
  ]
}
```

```

        "UsageType": 8
    },
    {
        "Body": "%sender%signingportalurl%recipientname% abcde\n\nthis
is test demo template for no receipt text\n",
        "Subject": null,
        "Type": 3,
        "UsageType": 9
    }
]
}

```

## 2.3.22. GetRejectionComment

### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
signingToken	string	Signing Token

### Response

Type	Description
GetRejectionCommentResponse	Contains properties: <b>RejectionComments - RejectionComment[]</b> - array of rejection comments <b>RejectionComment</b> contains: <b>TransactionToken - [Guid]</b> - transaction Token <b>Message - [string]</b> - rejection comment/message <b>RecipientName- [string]</b> - full name of the user who rejected transaction <b>Date - [DateTimeOffset]</b> - rejection date <b>RecipientEmail - [string]</b> - email of the user who rejected transaction <b>RecipientPhone - [string]</b> - phone number of the user who rejected transaction

### Example

#### Request

<https://demo.vismaaddo.net/WebService/v2.0/RestSigningService.svc/GetRejectionComment?token=e487b9a7-92e0-4814-945f-7855cda4bcb4&signingToken=498E-E22E4-F1EDB8>

#### Response

```

{
  "RejectionComments": [
    {
      "Date": {
        "DateTime": "/Date(1535614047058)/",
        "OffsetMinutes": 120
      },
      "Message": "Test rejection comment",
      "RecipientEmail": "nuttyfox.7cfofhn9@mailosaur.io",
      "RecipientName": "Tester",
      "RecipientPhone": null,
      "TransactionToken": "83078f88-70a4-486f-9006-blba4d668643"
    }
  ]
}

```

## 2.3.23. CreateGroup

## Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
request	CreateGroupRequest	CreateGroupRequest contains two properties: <b>Name</b> - [string] - name of the group <b>Description</b> - [string] - group description

## Response

Type	Description
GroupResponse	Contains properties: <b>Id</b> - [int] - Id of new group <b>Name</b> - [string] - name of the group <b>Description</b> - [string] - group description

## Example

Request	Response
<pre>{   "token": "cbf214f0-114e-4ead-a837-10088002869e",   "request": {     "Name": "TestGroup2",     "Description": "this is postman created group1"   } }</pre>	<pre>{   "CreateGroupResult": {     "Description": "this is postman created group1",     "Id": 7789,     "Name": "TestGroup2"   } }</pre>

## 2.3.24. GetGroups

### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.

## Response

Type	Description
GetGroupsResponse	Contains properties: <b>List&lt;GroupResponse&gt;</b> - list of GroupResponse model, which contains same properties as CreateGroup method response model.

## Example

Request	Response
<a href="https://demo.vismaaddo.net/WebService/v2.0/RestSigningService.svc/GetGroups?token=cbf214f0-114e-4ead-a837-10088002869e">https://demo.vismaaddo.net/WebService/v2.0/RestSigningService.svc/GetGroups?token=cbf214f0-114e-4ead-a837-10088002869e</a>	<pre>{   "Groups": [     {       "Description": "This is for custom templates testing", </pre>

```

        "Id": 5074,
        "Name": "Custom
templates group"
    }
}
}

```

### 2.3.25. CreateUser

#### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
request	CreateUserRequest	<p>CreateUserRequest contains these properties:</p> <p><b>Email</b> - [string] - email of user</p> <p><b>FullName</b> - [string] - full name of user</p> <p><b>Phone</b> - [string] - users phone</p> <p><b>LanguageId</b> - [Language {int}] - enum value of language</p> <p><b>RoleId</b> - [UserRole {int}] - enum value of user role</p> <p><b>SendWelcomeEmail</b> - [bool] - should user get invitation email. If not, response will have password included</p> <p>Enum values:</p> <p><b>Language</b> - Danish = 1, English = 2, Norwegian = 3, Swedish = 4, Finnish = 5, Dutch = 6</p> <p><b>UserRole</b> - Standard = 1, Administrator = 2</p>

#### Response

Type	Description
CreateUserResponse	<p>Contains properties:</p> <p><b>Id</b> - [int] - Id of new user</p> <p><b>FullName</b> - [string] - full name of new user</p> <p><b>Email</b> - [string] - email of new user</p> <p><b>Password</b> - [string] - if create user is used without sending welcome notification, Addo generates password and returns it in response, so web service user can send it by himself</p>

#### Example

Request	Response
<pre> {   "token": "9ecdee94-3388-4fe4-baab-cf1f3eb0ac1b",   "request": {     "Email": "test.testner27@visma.com",     "FullName": "Test Namer27",     "LanguageId": 2,     "Phone": "+4500000000",     "RoleId": 3,     "SendWelcomeEmail": false   } } </pre>	<pre> {   "Email": "test. tester27@visma.com",   "FullName": "Test Namer27",   "Id": 8912,   "Password": "FtJP0NuA" } </pre>

### 2.3.26. AddUserToGroup

#### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
request	AddUserToGroupRequest	AddUserToGroupRequest contains two properties: <b>Email - [string]</b> - email of user in the account you want to add to group <b>GroupId- [int]</b> - group ID in which user has to be added

### Example

Request	Response
<pre>{   "token": "c05f50aa-35f4-4fb8-8d3c-b70a9169d28a",   "request": {     "Email": "firstname.lastname@visma.com",     "GroupId": 7789   } }</pre>	-

## 2.3.27. CancelSigning

### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
signingToken	Guid	Signing token to identify signing.

### Example

Request	Response
<pre>{   "token": "c05f50aa-35f4-4fb8-8d3c-b70a9169d28a",   "signingToken": "abcf50aa-35f4-4fb8-8d3c-b70a9169d28f" }</pre>	-

### Response

In case of success - that is, the signing was found and cancelled, a HTTP 200 OK response is given.

In case of failure, a HTTP 400 Bad Request response is given and the response text will include a fault code and fault text:

```
{
  "FaultCode": 430,
  "Reason": "Signing not found"
}
```

## 2.3.28. CreateAccount (secured)

Some of our integration parties can create accounts, but to do that, they have to contact Visma Addo Team and get approval. Also, the limitation for created account is enabled.

### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
request	CreateAccountRequest	

e q u e s t	ccountR equest	<p>CreateAccountRequest contains these properties:</p> <p><b>Email</b> - [string] - email of user</p> <p><b>FullName</b> - [string] - full name of user</p> <p><b>CompanyName</b> - [string] - account company name</p> <p><b>CVR</b> - [string] - account CVR number</p> <p><b>ZipCode</b> - [string] - account zip code</p> <p><b>Address</b> - [string] - account address</p> <p><b>Phone</b> - [string] - users phone</p> <p><b>Locale</b> - [Language {int}] - enum value of language</p> <p><b>City</b> - [string] - account city</p> <p><b>Country</b> - [string] - country code of country (3 letters, e.g. "DNK" or "LTU" )</p> <p><b>ExternalId</b> - [string] - external identifier that can be added to new account (max length 255 characters)</p> <p><b>Password</b> - [string] - account password, min characters: 8, max characters:255. When creating test accounts and if not provided, response will have ResetPasswordUrl where user can create preferred password.</p> <p><b>AccountLevel</b> - [AccountLevel {int}] - nullable value, if null, sub account is created. If set creates test account</p> <p><b>SendWelcomeEmail</b> - [boolean] - if false, will not send automatic welcome email. If null - default value is true.</p> <p><u>Field required only if AccountLevel is set:</u></p> <p><b>AcceptTermsConditions</b> - [bool] - user accepts terms and conditons</p> <p><b>InitialConsent</b> - [bool] - marketing acceptance</p> <p><b>SignUpChannel</b> - [string] -</p> <p><b>SalesChannel</b> - [string] -</p> <p>Enum values:</p> <p><b>Language</b> - Danish = 1, English = 2, Norwegian = 3, Swedish = 4, Finnish = 5, Dutch = 6</p> <p><b>AccountLevel</b> - Test = 2</p>
----------------------------	-------------------	--

## Response

Type	Description
CreateAccount Response	<p>Contains properties:</p> <p><b>Id</b> - [int] - Id of new account</p> <p><b>FullName</b> - [string] - full name of new user</p> <p><b>Email</b> - [string] - email of new user</p> <p><b>Password</b> - [string] - Addo generated password or, if creating a test account, password sent with the create request.</p> <p><b>ResetPasswordUrl</b> - [string] - If creating test account and password is not provided, this will have a URL to reset password page</p>

## Example

Request	Response
<pre>{   "token": "9ecdee94-3388-4fe4-baab-cf1f3eb0ac1b",   "request": {     "Address": "Test st. 11-4",     "CVR": "12345678",     "City": "Test City",     "CompanyName": "Company name of new account",     "Country": "LTU",     "Email": "new_account@email.com",     "FullName": "New account name",     "Locale": 2,     "Phone": "+555000123456",     "ZipCode": "12345-POST"   } }</pre>	<pre>{   "Email": "new_account@email.com",   "FullName": "New account name",   "Id": 8912,   "Password": "FtJP0NuA" }</pre>
<pre>{   "token": "9ecdee94-3388-4fe4-baab-cf1f3eb0ac1b",   "request": {     "Address": "Test st. 11-4",     "CVR": "28843334",     "City": "Test City",     "CompanyName": "Company name of new account",     "Country": "LTU",     "Email": "new_account@email.com", </pre>	<pre>{   "Email": "new_account@email.com",   "FullName": "New account name",   "Id": 8912,   "Password": "TestPassword1234" }</pre>

```

"FullName": "New account name",
"Locale": 2,
"Phone": "+555000123456",
"ZipCode": "12345-POST",
"AccountLevel": 2,
"AcceptTermsConditions": true,
"InitialConsent": false,
"SignUpChannel": "channel",
"SalesChannel": "channel",
"Password": "TestPassword1234"
}
}

```

### 2.3.29. GetSignings

Get a list of signings, using small filter and pagination functions

#### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
request	GetSigningsRequest	<p>GetSigningsRequest contains these properties:</p> <p><b>Page</b>- [int, required] - number of page, min value is 1</p> <p><b>PageSize</b> - [int, required] - number of elements in response, min value is 1, max value is 200</p> <p><b>OrderType</b> - [OrderTypeEnum, required] - order by created date ascending or descending</p> <p><b>CreatedOnFrom</b> - [DateTime, optional] - optional parameter to set the date signings list should be filtered from</p> <p><b>CreatedOnTo</b> - [DateTime, optional] - optional parameter to set the date signings list should be filtered to</p> <p>Enum values:</p> <p><b>OrderTypeEnum</b> - Ascending = 0, Descending = 1</p> <p><b>Note:</b></p>

#### Response

Type	Property	Type	Description
GetSigningsResponse	Signings	List<SigningItem>	Contains list of <b>SigningItem</b> which has some information about signing
SigningItem	Token	string	Signing token which can be used for other actions, like GetSigning or GetSigningStatus
	State	SigningStateEnum	Signing state. For the values you can check GetSigningStatus method
	CreatedOn	DateTime	Date when signing was created
	ExpiresOn	DateTime	Date when signing will expire or has expired
	ReferenceNumber	string	Reference number of the signing which was passed on creation as ability to separate signings
	AdditionalData	string	

#### Example

Request	Response
<pre> {   "token": "{{token}}",   "request": {     "Page": 1,     "PageSize": 20,     "CreatedOnFrom": "/Date (1574850672141)/",     "CreatedOnTo": "/Date (1574936930225)/", </pre>	<pre> {   "Signings": [     [       {         "CreatedOn": "/Date (1574936535824)/",         "ExpiresOn": "/Date (1580210447029)/",         "ReferenceNumber": </pre>

```

    "OrderType": 1
  }
}

```

```

"R12134581",
  "State": 1,
  "Token": "2EA98-12A604-
EC95E4"
},
{
  "CreatedOn": "/Date
(1574857155100)/",
  "ExpiresOn": "/Date
(1576066755100)/",
  "ReferenceNumber": null,
  "State": 2,
  "Token": "2EA97-15A7A5-
C446D1"
}
]

```

### 2.3.30. RefreshToken

Extends token for 5 more minutes in order you want to use the same token

#### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.

#### Response

Type	Description
DateTime	Returns datetime value of token validity

#### Example

Request	Response
<a href="https://localhost/WebService/v2.0/RestSigningService.svc/RefreshToken?token={{token}}">https://localhost/WebService/v2.0/RestSigningService.svc/RefreshToken?token={{token}}</a>	"/Date (1576508250275)/"

### 2.3.31. Logout

Suspend session token validity

#### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.

#### Response

There is no response object for this method. All you have to check is response Status, it should be 200, which means your token has been revoked and you are no longer able to use it for other requests

#### Example

Request
<a href="https://localhost/WebService/v2.0/restsigningservice.svc/Logout?token={{token}}">https://localhost/WebService/v2.0/restsigningservice.svc/Logout?token={{token}}</a>

### 2.3.32. GetSecureTransferTemplates

#### Technical description



This method allows to get secure transfer signing templates of the user. It takes as a parameter user token and returns GetSigningTemplatesResponse with secure transfer signing templates inside. This method can be accessed through both SOAP and REST.

## Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.

## Response

This method returns GetSigningTemplatesResponse. See 2.2.4. GetSigningTemplates for more info about response type.

## 2.3.33. InitiateSecureTransfer

### Technical description

This method initiates a secure file transfer process. Secure file transfer is used to transfer documents safely and efficiently to customers without without necessity to sign a document. Secure file transfer can be used in two ways. The first way is to send an invitation link to recipient and provide documents to download on our own Signing Portal. The other way is to send documents directly to chosen distribution integration (e-Boks or Safecloud at the moment). Only secure transfer templates can be used for secure file transfer (see 2.2.31 GetSecureTransferTemplates).

SigningMethod for all RecipientData in a request must be set to None (0).

## Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
request	InitiateSecureTransferRequest	Contains data about how to create secure transfer.

## Response

Method gives response (type of InitiateSecureTransferResponse).

Type	Property	Property type	Description
InitiateSecureTransferResponse	SigningToken	string	Token of signing, unique identification.

### Properties of the types

Type	Property	Type	Description
InitiateSecureTransferResponse	SigningToken	string	Token of signing, unique identification.
InitiateSecureTransferRequest	Name	string	Defines name of a secure transfer. Mandatory, Max 100 chars.
	StartDate	DateTime	Defines when a signing will start. StartDate value cannot be 24 hours before request is created. Mandatory. Uses UNIX date format like "/Date (1573638173002)"/
	SecureTransferData	SecureTransferData	Contains data about secure transfer. (Similar as Signing in InitiateSigningRequest except this one excludes these properties: BccRecipients, SigningSequence, AllowInboundEnclosures, ExternalReferenceId, EnclosureDocuments. See 2.2.2. InitiateSigning).
	SigningTemplateId	Guid	Defines a Guid which is associated with a template settings of a secure transfer template (authentication, message type etc.).
	ExpirationUrl	string	Expiration callback url. On expiration for the provided url it will add query string parameter "signingToken"
	TransactionStateChangedUrl	string	Transaction state changed callback url. On transaction state change for the provided url it will add query string parameters "signingToken", "transactionToken", "referenceNumber", "transactionStateId"

### Send documents directly

To send documents as secure file transfer directly to chosen channel (e.g. e-Boks) you need to set NotificationMethods of RecipientData to None (0). Then web service will use DistributionMethod as a sending method. For example, if NotificationMethods is set to None and DistributionMethod to Eboks (4) secure file transfer will be sent directly to recipient's e-Boks. This way is only available when you have e-Boks or Safecloud activated for your account. Allowed methods for RecipientData when sending directly:

Property	AllowedMethods

AuthenticationMethod	Only None (0) method is allowed.
SigningMethod	This method does not affect anything since there is no signing of documents in signing portal.
DistributionMethod	Only e-Boks method (4) or null are allowed to be set as DistributionMethod. If you want to use Safecloud set DistributionMethod to null and select signing template with Safecloud method. Setting RecipientData Cpr or Cvr decides which of e-Boks methods will be used (private or company). e-Boks or Safecloud must be activated for the account to use them.
NotificationMethods	This <b>must</b> set to None (0). Otherwise you will send a link of signing portal to recipient.

## Example

Request	Response
<pre>{   "token": "126d6f15-997e-4280-a670-e30fec346392",   "request": {     "ExpirationUrl": null,     "Name": "test signing",     "SecureTransferData": {       "AllowRecipientComment": true,       "Documents": [         {           "Data": "base64stringOfFile",           "Id": "1fe93abb-5363-4eb5-a89f-5210d38471d6",           "MimeType": "application/pdf",           "Name": "test.pdf"         }       ]     },     "Recipients": [       {         "Address": null,         "AuthenticationMethod": 0,         "CVR": null,         "Cpr": "0101987654",         "Email": "test_recipient1@visma.com",         "Id": "4c24818a-eae2-4eb0-aa2e-f77ab355f77d",         "Name": "TestName1",         "PID": null,         "Phone": null,         "SwedishSsn": null,         "NorwegianSsn": null,         "SendDistributionDocument": null,         "SendWelcomeNotification": true,         "DistributionMethod": 4,         "NotificationMethods": [0],         "SigningMethod": 0,         "Title": null       }     ],     "ReferenceNumber": "666",     "Sender": {       "CompanyName": "SenderCompanyName",       "Email": "sender.email@visma.com",       "Name": "SenderTestName",       "Phone": null     }   },   "SigningTemplateId": "95b29391-c23b-46d2-af51-ff9caa8edd9b",   "StartDate": "/Date(1530791625)/", }</pre>	<pre>{   "SigningToken": "753-1584AE-102882" }</pre>

```

    "TransactionStateChangedUrl": null
  }
}

```

## Send link

To send link of secure file transfer to signing portal you need to set `DistributionMethod` of `RecipientData` to `None (1)`. Then web service will use `NotificationMethods` from `RecipientData` or `MessageTypes` from `SigningTemplate` to send an invitation.

Allowed methods for `RecipientData` when sending a link:

Property	AllowedMethods
AuthenticationMethod	All methods described for <code>AuthenticationMethodEnum</code> are allowed except <code>None (0)</code> .
SigningMethod	This method does not affect anything since there is no signing of documents in signing portal.
DistributionMethod	<code>DistributionMethod</code> must be set to <code>None(1)</code> .
DistributionType	<code>DistributionType</code> must be set to <code>None(0)</code>
NotificationMethods	All methods are allowed except <code>None(0)</code> .

It is possible to pass null with all of these methods in both ways of secure file transfer process. In that case a value from signing template will be used. [SecureTransferData](#)

## Example

Request	Response
<pre> {   "token": "126d6f15-997e-4280-a670-e30fec346392",   "request": {     "ExpirationUrl": null,     "Name": "test signing",     "SecureTransferData": {       "AllowRecipientComment": true,       "Documents": [         {           "Data": "base64stringOfFile",           "Id": "1fe93abb-5363-4eb5-a89f-5210d38471d6",           "MimeType": "application/pdf",           "Name": "test.pdf"         }       ]     },     "Recipients": [       {         "Address": null,         "AuthenticationMethod": 1,         "CVR": null,         "Cpr": "0101987654",         "Email": "test_recipient1@visma.com",         "Id": "4c24818a-eae2-4eb0-aa2e-f77ab355f77d",         "Name": "TestName1",         "PID": null,         "Phone": null,         "SSN": null,         "SendDistributionDocument": null,         "SendWelcomeNotification": true,         "DistributionMethod": 1,         "NotificationMethods": [1],         "SigningMethod": 0,         "Title": null       }     ]   } } </pre>	<pre> {   "SigningToken": "753-1584AE-102882" } </pre>

```

    }
  ],
  "ReferenceNumber": "666",
  "Sender": {
    "CompanyName": "SenderCompanyName",
    "Email": "sender.email@visma.com",
    "Name": "SenderTestName",
    "Phone": null
  },
  "SenderComment": "this is simple comment"
},
{
  "SigningTemplateId": "95b29391-c23b-46d2-af51-ff9caa8edd9b",
  "StartDate": "/Date(1530791625)/",
  "TransactionStateChangedUrl": null
}
}

```

### 2.3.34. GetTransactionToken

#### Technical description

The method is used to get transactionToken if you got transactionId from integration like SFTP or Google Drive (transactionId is added to document name)

#### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
transactionId	int	Id of transaction which token you want to retrieve

#### Response

Type	Description
Guid?	TransactionToken is a response. Null is a response with status 200, when that transaction does not belong to this account or is not found at all.

#### Example

Request	Response
<a href="https://demo.vismaaddo.net/WebService/v2.0/RestSigningService.svc/GetTransactionToken?token={token}&amp;transactionId=123456">https://demo.vismaaddo.net/WebService/v2.0/RestSigningService.svc/GetTransactionToken?token={token}&amp;transactionId=123456</a>	"4c24818a-eae2-4eb0-aa2e-f77ab355f77d",

### 2.3.35. GetSigningWithoutDocuments

#### Technical description

This method is almost duplicate for GetSigning except it does not generate and return documents, so it retrieves the same data, only Documents and Enclosures arrays are empty. Example and request and response can be found at 2.2.5 GetSigning method

### 2.3.36. GetAccounts

Get a list of your sub accounts.

#### Parameters

Name	Type	Description
tok	Guid	User token, necessary for identification.

en		
filter	GetAccountsFilter	<p>Filter itself is optional, if null, will return all sub accounts available</p> <p>GetAccountsFilter contains these properties:</p> <p><b>AccountId</b> - [int, optional] - account id</p> <p><b>AccountExternalId</b> - [string, optional] - number of elements in response, min value is 1, max value is 200</p> <p><b>UserExternalProviderType</b>- [ExternalProviderEnum, optional] - user external login type</p> <p><b>UserExternalProviderId</b>- [string, optional] - user external login id, works (together with <b>UserExternalProviderType</b> only.</p> <p>Search for a sub account, which has user, containing specific external login identifier)</p> <p><b>CreatedOnFrom</b> - [DateTime, optional] - filter taccouts created after this date</p> <p><b>CreatedOnTo</b> - [DateTime, optional] - filter taccouts created before this date</p> <p>Enum values:</p> <p><b>ExternalProviderEnum</b>- Azure= 1, VismaConnect = 2</p> <p><b>Note:</b> If you do not provide UserExternalProviderType and UserExternalProviderId they will be null in response even if they exist</p>

## Response

Type	Property	Type	Description
GetAccountsResponse	Accounts	List<AccountInfo>	Contains list of <b>AccountInfo</b> which has some information about account
AccountInfo	AccountId	int	Addo account id
	CompanyName	string	Company name of an account, might be null
	CreatedOn	DateTime	Date when account was created
	ExternalId	string	Account external identifier, which has been passed on account creation
	UserExternalProviderType	ExternalProviderEnum	External user login from the filter
	UserExternalProviderId	string	External user login identifier from the filter
	IsActive	bool	Flag showing if the account is still active

## Example

Request	Response
<pre>{   "token": "126d6f15-997e-4280-a670-e30fec346392",   "filter": {     "AccountId": null,     "UserExternalProviderType": null,     "UserExternalProviderId": null,     "CreatedFrom": "/Date (1574850672141)/",     "CreatedTo": "/Date (1574936930225)/"   } }</pre>	<pre>{   "Accounts": [     {       "AccountId": 1710,       "CompanyName": "",       "CreatedOn": "/Date (1551736800000+0200)/",       "ExternalId": "Test external Id 123456789",       "UserExternalProviderId": null,       "UserExternalProviderType": null,       "IsActive": true     },     {       "AccountId": 1724,       "CompanyName": "Company name of test",       "CreatedOn": "/Date (1557003600000+0300)/",       "ExternalId": null, </pre>

```

"UserExternalProviderId": null,

"UserExternalProviderType": null,
    "IsActive":
false
    }
  ]
}

```

### 2.3.37. GetAccountCreditsUsage

Get a number of accounts credit usages for a specific period of time

#### Parameters

Na me	Type	Description
token	Guid	User token, necessary for identification.
filter	AccountCreditsUsage Filter	Filter is mandatory  AccountCreditsUsageFilter contains these properties: <b>AccountId</b> - [int, required] - account id <b>DateFrom</b> - [DateTime, required] - filters credits used/reserved since specified date <b>DateTo</b> - [DateTime, required] - filters credits used/reserved before specified date

#### Response

Type	Prope rty	Type	Description
AccountCreditsUsa geResponse	Accou ntId	int	Addo account id
	UsedC redits	dec imal	Number of credits used. This number is shown credits spent for already completed, expired, failed, cancelled, rejected.
	DateFr om	Date Time	DateFrom used in filter
	DateTo	Date Time	DateTo used in filter

#### Example

Request	Response
<pre> {   "token": "126d6f15-997e-4280-a670-e30fec346392",   "filter": {     "AccountId": 1816,     "DateFrom": "/Date(1551736800000)/",     "DateTo": "/Date(1603720913016)/"   } } </pre>	<pre> {   "Signings": [     {       "AccountId": 1816,       "DateFrom": "/Date(1548972000000)/",       "DateTo": "/Date(1603720913016)/",       "UsedCredits": 151.25     }   ] } </pre>

### 2.3.38. CalculateCompletedSigningsCount (paired with GetCompletedSigningsCount)

This method will initiate calculation for your account and all your sub accounts created signings per specific period provided in the request. Each signing type will be separated in the response (see more in 2.3.39 GetCompletedSigningsCount). This implementation of two separate methods is done because you may want to search database for all time entries and it can take longer than timeout period can handle, so we generate this data and store it for specific time (currently it is set to 1 week, might be changed in the future).

## Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
request	CalculateCompletedSigningsCountRequest	CalculateCompletedSigningsCountRequest contains these properties: <b>DateFrom</b> - [DateTime, required] - filters Transaction.LastUpdatedStateDate after specified DateFrom <b>DateTo</b> - [DateTime, required] - filters Transaction.LastUpdatedStateDate before specified DateTo <b>CallbackUrl</b> - [string, optional] - callback url which to call after transactions counts for all accounts are calculated. Your provided callback url will be attached with additional parameter "getTransactionsCountToken" which can be later used in GetTransactionsCount endpoint, to retrieve data

## Response

Type	Property	Type	Description
CalculateSigningsCountResponse	GetSigningsCountToken	Guid	A special token which should be used in GetTransactionsCount endpoint to retrieve generated data
	TokenValidTo	DateTime	Date value until when GetSigningsCountToken can be used

## Example

Request	Response
<pre>{   "token": "126d6f15-997e-4280-a670-e30fec346392",   "request": {     "CallbackUrl": "https://example.com",     "DateFrom": "/Date(1551736800000)/",     "DateTo": "/Date(1603720913016)/"   } }</pre>	<pre>{   "Signings": [     {       "GetSigningsCountToken": "49bb38cd-f24d-4367-af37-b88c5e68dc97",       "TokenValidTo": "/Date(1614765778068)/"     }   ] }</pre>

## 2.3.39. GetCompletedSigningsCount

This method is used to retrieve data, calculated by CalculateCompletedSigningsCount endpoint with that appropriate response token.

## Parameters

Name	Type	Description
token	Guid	Unique identifier to identify user.
getCompletedSigningsCountToken	Guid	Token for retrieving stored data of signings counts for accounts and sub accounts.

## Properties of types

Type	Property	Type	Description
SigningsCountResponse	GeneratedOn	DateTime?	Date when data was generated. If it is null, it is not generated yet
	ExpiresOn	DateTime	Date when this entry expires. If you call this endpoint after this expiration date is expired, you will not get this response object
	Filter	CalculateCompletedSigningsCountRequest	Filter of the previously called request to see what filter values has been used for this data. (see CalculateCompletedSigningsCountRequest endpoint for more info about this field)
	AccountsSigningsCounts	AccountSigningResponse[]	List of signings count for account for specific signing type
AccountSigningsResponse	AccountId	int	Account identifier
	AccountExternalId	string	Account external identifier (the same which might be added on creation of sub account)
	SigningType	SigningTypeEnum	Signing type of Addo workflow
	SigningsCount	int	Number of signings

## Enum values

Type	Value	Description
SigningTypeEnum	<i>Signing(1)</i>	Regular document signing type
	<i>SecureTransfer(2)</i>	Secure file transfer signing type
	<i>Form(3)</i>	Addo forms signing type
	<i>CprValidation(4)</i>	Cpr validation signing type

## Example

Request
https://{{url}}/WebService/v2.0/RestSigningService.svc/GetCompletedSigningsCount?token=994d2e31-436f-4a56-997c-54845ce74912&getCompletedSigningsCountToken=0a4d2e31-436f-4a56-997c-54845ce7493e

Response
<pre>{   "AccountsSigningsCounts": [     {       "AccountExternalId": null,       "AccountId": 2909,       "SigningType": 1,       "SigningsCount": 33     },     {       "AccountExternalId": null,       "AccountId": 2909,       "SigningType": 2,       "SigningsCount": 7     },     {       "AccountExternalId": null,       "AccountId": 2909,       "SigningType": 3,       "SigningsCount": 2     }   ],   "ExpiresOn": " /Date(1624516027583) /",   "Filter": {</pre>



```

        "CallbackUrl": "https://www.google.com/",
        "DateFrom": "/Date(1560752827468)/",
        "DateTo": "/Date(1623911227468)/"
    },
    "GeneratedOn": "/Date(1623911228192)/"
}

```

### 2.3.40. GetFormTemplates

This method is used to retrieve form templates available for the user.

#### Parameters

Name	Type	Description
token	Guid	Unique identifier to identify user

#### Properties of response types

Type	Property	Type	Description
FormTemplatesResponse	FormTemplates	FormTemplateForView[]	List of form templates
FormTemplate	Id	Guid	Form template identifier
	FriendlyName	string	Form template name
	GroupName	string	Group name to which the form belongs

#### Example

Request
https://{url}/WebService/v2.0/RestSigningService.svc/GetFormTemplates?token=994d2e31-436f-4a56-997c-54845ce74912

Response
<pre> {   "FormTemplates": [     {       "FriendlyName": "Common template",       "GroupName": "Default",       "Id": "994d2e31-436f-4a56-997c-54845ce74912"     },     {       "FriendlyName": "Accounting review",       "GroupName": "Accounting",       "Id": "03c1279f-0863-431b-ae17-0d33ca2813f1"     }   ] } </pre>

### 2.3.41. GetFormTemplate

This method is used to retrieve detailed form template data available for the user.

#### Parameters

Name	Type	Description
token	Guid	Unique identifier to identify user

id	Guid	Unique form identifier
----	------	------------------------

## Properties of response types

Type	Property	Type	Description
GetFormTemplateResponse	Id	Guid	Form template identifier
	Name	string	Form template name
	DocumentFilename	string	Form template document name
	Components	FormComponentF orView[]	List of form template components
FormComponentF orView	Id	Guid	Component identifier
	ParentId	Guid	Parent component identifier
	Type	ComponentTypeEnum	Component type. Can have values: Section (1), TextInput (2), TextArea (3), RadioGroup (4), RadioOption (5), Text (6), Title (7), Checkbox (8), CheckboxGroup (9), File (10), Datepicker (11), Image (12), ImageFormat (13), ImageAlignment (14).
	Order	int	Order number in the form
	Label	string	Component label
	Value	string	Prefilled component value
	Required	bool	Returns if field is required
	Locked	bool	Returns if field is locked
	DataMappingId	string	Returns data mapping id

## Example

Request
https://{{url}}/WebService/v2.0/RestSigningService.svc/GetFormTemplate?token=994d2e31-436f-4a56-997c-54845ce74912&id=03c1279f-0863-431b-ae17-0d33ca2813f1

Response
<pre>{   "Id": "03c1279f-0863-431b-ae17-0d33ca2813f1",   "Name": "Review template",   "Components": [     {       "Id": "29288893-5a15-ec11-a836-005056a9f00b",       "Label": null,       "Order": 0,       "ParentId": null,       "Type": 1,       "Value": null     },     {       "Id": "2b288893-5a15-ec11-a836-005056a9f00b",       "Label": null,       "Order": 1,       "ParentId": null,       "Type": 1,       "Value": null     },     {       "Id": "2c288893-5a15-ec11-a836-005056a9f00b",       "Label": "Review",       "Order": 0,       "ParentId": "2b288893-5a15-ec11-a836-005056a9f00b",       "Type": 7,       "Value": null     }   ] }</pre>

```

    {
      "Id": "2e288893-5a15-ec11-a836-005056a9f00b",
      "Label": "How do you do?",
      "Order": 1,
      "ParentId": "2b288893-5a15-ec11-a836-005056a9f00b",
      "Type": 2,
      "Value": Great
    },
    {
      "Id": "6f442152-5c15-ec11-a836-005056a9f00b",
      "Label": null,
      "Order": 1,
      "ParentId": "29288893-5a15-ec11-a836-005056a9f00b",
      "Type": 2,
      "Value": null
    },
    {
      "Id": "70442152-5c15-ec11-a836-005056a9f00b",
      "Label": null,
      "Order": 0,
      "ParentId": "29288893-5a15-ec11-a836-005056a9f00b",
      "Type": 2,
      "Value": null
    }
  ]
}

```

### 2.3.42 GetFormResponse

This method returns responses to a particular form.

#### Parameters

Name	Type	Description
token	Guid	Unique identifier to identify user
transactionToken	Guid	Unique transaction identifier

#### Properties of response types

Type	Property	Type	Description
GetFormResponse	Components	FormComponentForView[]	List of form template components
FormComponentForView	Id	Guid	Component identifier
	ParentId	Guid	Parent component identifier
	Type	ComponentTypeEnum	Component type. Can have values: Section (1), TextInput (2), TextArea (3), RadioGroup (4), RadioOption (5), Text (6), Title (7), Checkbox (8), CheckboxGroup (9), File (10), DatePicker (11), Image (12), ImageFormat (13), ImageAlignment (14).
	Order	int	Order number in the form
	Label	string	Component label
	Value	string	Prefilled component value
	DataMappingId	string	Returns data mapping id

#### Example

Request
<a href="https://{{url}}/WebService/v2.0/RestSigningService.svc/GetFormResponse?token=994d2e31-436f-4a56-997c-54845ce74912&amp;transactionToken=13C12E09-98A6-4577-8DBD-28ABA116AD52">https://{{url}}/WebService/v2.0/RestSigningService.svc/GetFormResponse?token=994d2e31-436f-4a56-997c-54845ce74912&amp;transactionToken=13C12E09-98A6-4577-8DBD-28ABA116AD52</a>

## Response

```
{
  "Components": [
    {
      "Id": "5898cf0b-027d-ec11-a845-005056a9f00b",
      "Label": null,
      "Order": 0,
      "ParentId": null,
      "Type": 1,
      "Value": null
    },
    {
      "Id": "5998cf0b-027d-ec11-a845-005056a9f00b",
      "Label": null,
      "Order": 1,
      "ParentId": null,
      "Type": 1,
      "Value": null
    },
    {
      "Id": "5a98cf0b-027d-ec11-a845-005056a9f00b",
      "Label": "proof",
      "Order": 1,
      "ParentId": "5998cf0b-027d-ec11-a845-005056a9f00b",
      "Type": 10,
      "Value": "
        {\"Name\": \"image.png\", \"
Content Type\": \"image/png\", \"Data\": \"
iVBORw0KGgoAAAANSUHEUGAACN4AAAGyCAYAAAx5ZtnAAAgA
ElEQVR4Aezd65Nc5Z0n+Ho5
/4H0kol+441+YtZiY2kNYwAAAABJRu5ErkJggg==\"}
      "
    },
    {
      "Id": "5b98cf0b-027d-ec11-a845-005056a9f00b",
      "Label": null,
      "Order": 1,
      "ParentId": "5898cf0b-027d-ec11-a845-005056a9f00b",
      "Type": 2,
      "Value": "email@visma.com"
    },
    {
      "Id": "5c98cf0b-027d-ec11-a845-005056a9f00b",
      "Label": null,
      "Order": 0,
      "ParentId": "5898cf0b-027d-ec11-a845-005056a9f00b",
      "Type": 2,
      "Value": "TestName"
    },
    {
      "Id": "5d98cf0b-027d-ec11-a845-005056a9f00b",
      "Label": "what are you?",
      "Order": 0,
      "ParentId": "5998cf0b-027d-ec11-a845-005056a9f00b",
      "Type": 4,
      "Value": "answer2"
    },
    {
      "Id": "5e98cf0b-027d-ec11-a845-005056a9f00b",
      "Label": "answer1",
      "Order": 1,
      "ParentId": "5d98cf0b-027d-ec11-a845-005056a9f00b",
      "Type": 5,
      "Value": null
    },
    {
      "Id": "5f98cf0b-027d-ec11-a845-005056a9f00b",
      "Label": "answer1",
      "Order": 0,
      "ParentId": "5d98cf0b-027d-ec11-a845-005056a9f00b",

```

```

        "Type": 5,
        "Value": null
    }
]
}

```

### 2.3.43. InitiateFormSigning

This method initiates a new form filling and signing.

#### Parameters

Name	Type	Description
token	Guid	Unique identifier to identify user
request	InitiateFormSigningRequest	Contains data about how to create form signing

#### Properties of request types

Type	Property	Type	Description
InitiateFormSigningRequest	FormTemplateId	Guid	Form template identifier
	ReferenceNumber	string	Defines an optional reference number for transactions. Max 36 chars.
	ComponentValueOverrides	ComponentValueOverride[]	Optional form template component values overrides.
	Respondent	Recipient	Recipient who fills the form data.
	Recipients	Recipient[]	Contains recipients which are associated with the signing.
	BccRecipients	BccRecipient[]	Specifies recipients which receive distribution email as BCC.
	DocumentFilename	string	Optional, if added, it will override FormTemplate DocumentFilename value. Maxlength 200 characters, does not allow file system characters set [ < > /   ? \ ' " ]
	AdditionalData	string	
ComponentValueOverride	Id	Guid	Component identifier
	Value	string	Component value override
	DataMappingId	string	Unique title set in WebAdmin, if not empty will be prioritized over id.
Recipient	Id	Guid	Unique Guid to identify recipient (optional and used to match with SequenceItem).
	ExternalId	string	String value to identify recipient. This value will be provided with GetSigning method
	Cpr	string	Defines Cpr (personal identification) number. Max 10 chars
	PID	string	NemID public ID. Max 20
	Name	string	Defines name of the recipient. Max 255 chars
	Address	string	Defines address of the recipient. Max 150 chars
	Email	string	Defines email of the recipient. He will receive letters from the web service in this email. Max 255 chars
	Phone	string	Defines phone of the recipient. He will receive SMS from the web service in this phone, if distribution is set to SMS. Max 50 chars
	SignedDate	DateTimeOffset	Defines when the document was signed by the user (not specified by creator of the signing)
	CVR	string	Company identification ID. Max 12 chars.

SSN (deprecated)	string	It used to be one field for both Norwegian and Swedish ssn, for both separate fields exists, see SwedishSsn and NorwegianSsn	
SwedishSsn	string	Swedish personal number in a format 'yyyymmddnnnn'. allowed number of characters: 12	
Norwegian Ssn	string	Norwegian personal number. Max 12 chars.	
TupasSsn	string	SSN for Tupas signing.	
TemplateDataContainer	TemplateData	Defines template for generating document (using XSLT transformation).	
SendWelcomeNotification	bool	If Null default True.	
SendDistributionNotification	bool	If Null default True. <b>OBSOLETE, use DistributionMethod instead</b>	
SendDistributionDocument	bool	If Null default True. <b>OBSOLETE, use DistributionMethod instead</b>	
SigningMethod	SigningMethodEnum?	Can be Null. Defines Recipient signing method, overrides selected Template signing method. If not defined (Null) Template signing method will be used	
AuthenticationMethod	AuthenticationMethodEnum?	Can be Null. Defines Recipient authentication method, overrides Template authentication method. If not defined (Null) Template authentication method is used	
Title	string	Recipient title. Max 255 chars.	
DistributionMethod	DistributionMethodEnum?	Can be null. Defines Recipient distribution method, overwrites values from template and fields SendDistributionNotification and SendDistributionDocument. Valid values: None (1), Message with documents (2), Message without documents (3), Distribute to e-Boks (4)	
AllowApproveAllAttachments	bool	Defines if recipient will be able to approve all attachments at once	
IsQuestionnaireEnabled	bool	Defines if recipient will be asked to fill answers for questionnaire	
Secret	string	Secret is mandatory only when using authentication method SecretCcode. Max 255 characters	
NotificationMethods	MessageTypeEnum[]	Can be Null. Defines Recipient notification methods, overrides Template MessageTypes. If not defined (Null) Template MessageTypes is used.	
AdditionalData	string	Optional. Field to store any data per Recipient. Limited to 4000 characters	
RecipientSignaturePlacements	RecipientSignaturePlacement[]	Optional. Defines signature placements	
BccRecipientData	Name	string	Max chars 255.
	Email	string	Email of bcc recipient.

## Properties of response types

Type	Property	Type	Description
InitiateFormSigningResponse	FormFillingUrl	string	Url address with which we can access form filling.
	GeneratedFormSignings	GeneratedFormSigning[]	List of generated signings.
GeneratedFormSigning	Url	string	Url address with which we can access form signing after it was filled and signed by respondent.
	SigningToken	Guid	Unique token for signing.

EnclosureDocument

## Example

Request
---------

https://{url}/WebService/v2.0/RestSigningService.svc/InitiateFormSigning

```
{
  "token": "{994d2e31-436f-4a56-997c-54845ce74912}",
  "request": {
    "FormTemplateId": "03c1279f-0863-431b-ae17-0d33ca2813f1",
    "ComponentValueOverrides" : [
      {
        "ComponentId" : "2e288893-5a15-ec11-a836-005056a9f00b",
        "Value" : "OVERRIDEN"
      }
    ],
    "Recipients": [
      {
        "AdditionalData": "data",
        "AllowApproveAllAttachments": "true",
        "AuthenticationMethod": "0",
        "DistributionMethod": "2",
        "Email": "randomuser@yahoo.com",
        "IsQuestionnaireEnabled": "false",
        "Name": "Random User",
        "Phone": "+48972645315",
        "SendDistributionDocument": "true",
        "SendDistributionNotification": "true",
        "SendWelcomeNotification": "true",
        "SigningMethod": 6,
        "NotificationMethods": [1]
      }
    ],
    "Respondent": {
      "AllowApproveAllAttachments": "true",
      "AuthenticationMethod": "0",
      "DistributionMethod": "2",
      "Email": "veryrandomuser@yahoo.com",
      "IsQuestionnaireEnabled": "false",
      "Name": "Very Random User",
      "Phone": "+48972689565",
      "SendDistributionDocument": "true",
      "SendDistributionNotification": "true",
      "SendWelcomeNotification": "true",
      "SigningMethod": 6,
      "NotificationMethods": [1]
    },
    "ReferenceNumber": "7/1"
  }
}
```

## Response

```
{
  "FormFillingUrl": "https://vismaaddo.net/Forms/#/view?token=bcc842d4-8727-4964-9ae3-c46870366be3",
  "GeneratedSignings": [
    {
      "SigningToken": "bcc842d4-8727-4964-9ae3-c46870366be3",
      "Url": "https://vismaaddo.net/SigningPortal/?token=a5a322cc-fd60-4806-8d2d-78cc52b59c8c"
    },
    {
      "SigningToken": "bcc842d4-8727-4964-9ae3-c46870366be3",
      "Url": "https://vismaaddo.net/SigningPortal/?token=359127aa-e58e-4270-8a58-dd87b08bc112"
    }
  ]
}
```

### 2.3.44. UpdateSigningExpirationDate

Updates signing expiration date.

#### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
request	UpdateSigningExpirationDateRequest	Contains data for expiration date update

#### Properties of request types

Type	Property	Type	Description
UpdateSigningExpirationDateRequest	SigningToken	string	Signing identifier
	NewExpirationDate	DateTime	New expiration date (must be after now, but no later than 90 days).

#### Example

Request	Response
<pre>{   "token": "c05f50aa-35f4-4fb8-8d3c-b70a9169d28a",   "request": {     "NewExpirationDate": "/Date(1530791625)/",     "SigningToken": "6c792dc7-32b1-48d2-8bc3-26588e9c14c5"   } }</pre>	-

### 2.3.45. ImportFormTemplate

Imports form template

#### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
request	ImportFormTemplateRequest	Contains data for import request

#### Properties of request types

Type	Property	Type	Description
ImportFormTemplateRequest	GroupId	string	Group id of the group template should be placed in.
	SigningTemplateId	Guid	Id of the signing template to be used.
	Template	string	Base 64 string of exported json file

#### Response types

Type	Description
guid	The id of the imported form

#### Example

Request	Response



<pre>{   "token": "c05f50aa-35f4-4fb8-8d3c-b70a9169d28a",   "request":{     "GroupId" : "1692",     "SigningTemplateId" : "6d1b6c8d-8981-4b36-b54a-d68762040c00",     "Template" : "[Base64String]"   } }</pre>	"c05f50aa-35f4-4fb8-8d3c-b70a9169d28a"
---	--

## 2.3.46. ExportFormTemplate

### EXPORTED FILE SHOULD NOT BE MODIFIED

Export has a tree structure: each component has a parent that it belongs to, an exception to this is "section" component, it is the top component and it has no parents. Radio buttons also support [dependant](#) components that show up when an option is chosen. Dependant components are defined by "DependsOn" parameter.

Exports form template. Template fields that are dependant on signing template don't get exported.

### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
formTemplateId	Guid	Id of the form template to export/

### Example

Request	Response
GET https://{url}/WebService/v2.0/restsigningservice.svc/ExportFormTemplate?token={{token}}&formTemplateId=91467104-d189-4465-8f73-b1a9b134d2d2	Base 64 string of json file.

Structure of the export file:

**FormComponentModel** structure:

Field	Type	Explanation
Id	guid	Id of the component
ParentId	guid	id of the parent component
Type	string	Type of the component. Values: "section" "textInput" "textArea" "radioGroup" "radioOption" "text" "title" "checkbox" "checkboxGroup" "file" "datepicker" "image" "imageFormat" "imageAlignment"
Order	int	Order of component in current level. Starts from 0.
Label	string	String value of component,value depends on component type
Value	string	String value of component,value depends on component type

DataMappingId	string	Value of Data output ID field
ValidationRules	ValidationRule[]	Validation rules for component
DependsOn	guid	Id of component this component depends on.
TemplateField	int	<b>not used, ignore this field.</b>

Field	Type	Example	Explanation
Name	string	"Form template name"	Template name
Title	string	"Form title"	Template title
Description	string	"Form description"	Template description
CreationDate	DateTime	"2023-01-24T10:51:11.3343099+01:00"	Template creation date
UpdateDate	DateTime	"2023-01-24T10:51:11.3343099+01:00"	Last template update date
PublicLinkEnabled	bool	true	Is this a public form
DisplayDataMapping	bool	true	Should "Data output ID" field be visible for imported form
CorrelationId	guid	"c386aaae-44c1-4122-8f53-33191a5209e2"	An id used to correlate form templates. On import, if a form template with this correlation id is found in the system, it will be overridden instead of created. If correlation id is not found a new form template is created.
Components	FormComponentModel[]	[       {         "Id": "bc897da1-cc9b-ed11-912c-0050560733ed",         "ParentId": null,         "Type": "section",         "Order": 0,         "Label": null,         "Value": null,         "TemplateField": null,         "DataMappingId": null,         "ValidationRules": [],         "DependsOn": null       },       {         "Id": "be897da1-cc9b-ed11-912c-0050560733ed",         "ParentId": "bc897da1-cc9b-ed11-912c-0050560733ed",         "Type": "title",         "Order": 2,         "Label": "Title 1",	An unordered list of form template components.

```
      "Value": null,
      "TemplateFieldId": null,
      "DataMappingId": null,
      "ValidationRules": [],
      "DependsOn": null
    },
    {
      "Id": "c7897da1-cc9b-ed11-912c-0050560733ed",
      "ParentId": "bc897da1-cc9b-ed11-912c-0050560733ed",
      "Type": "text",
      "Order": 3,
      "Label": "Text 1",
      "Value": null,
      "TemplateFieldId": null,
      "DataMappingId": null,
      "ValidationRules": [],
      "DependsOn": null
    },
    {
      "Id": "c5897da1-cc9b-ed11-912c-0050560733ed",
      "ParentId": "bc897da1-cc9b-ed11-912c-0050560733ed",
      "Type": "textInput",
      "Order": 4,
      "Label": "Single line text answer 1?",
      "Value": null,
      "TemplateFieldId": null,
      "DataMappingId": "Sec1-singleText",
      "ValidationRules": [
        {
          "Rule": "locked",
          "Value": "false"
        },
        {
          "Rule": "required",
          "Value": "true"
        }
      ],
      "DependsOn": null
    },
    {
      "Id": "b5897da1-cc9b-ed11-912c-0050560733ed",
      "ParentId": null,
      "Type": "section",
      "Order": 1,
      "Label": null,
      "Value": null,
      "TemplateFieldId": null,
      "DataMappingId": null
    }
  ]
}
```

```
gld": null,
"ValidationR
ules": [],
"DependsOn
": null
},
{
  "Id":
"c6897da1-cc9b-
ed11-912c-
0050560733ed",
"ParentId":
"b5897da1-cc9b-
ed11-912c-
0050560733ed",
"Type":
"title",
"Order": 0,
"Label":
"Title 2",
"Value": null,
"TemplateFie
ld": null,
"DataMappin
gld": null,
"ValidationR
ules": [],
"DependsOn
": null
},
{
  "Id":
"b6897da1-cc9b-
ed11-912c-
0050560733ed",
"ParentId":
"b5897da1-cc9b-
ed11-912c-
0050560733ed",
"Type":
"text",
"Order": 1,
"Label":
"Text 2",
"Value": null,
"TemplateFie
ld": null,
"DataMappin
gld": null,
"ValidationR
ules": [],
"DependsOn
": null
},
{
  "Id":
"bf897da1-cc9b-
ed11-912c-
0050560733ed",
"ParentId":
"b5897da1-cc9b-
ed11-912c-
0050560733ed",
"Type":
"textInput",
"Order": 2,
"Label":
"Single line text
answer 2?",
"Value": null,
"TemplateFie
ld": null,
"DataMappin
gld": "sec2-
singleText",
"ValidationR
ules": [
  {
    "Rule":
"locked",
"Value":
"true"
},
  {
    "Rule":
"required",
"Value":
>false"
```

```

    }
  ],
  "DependsOn": null
},
{
  "Id": "b8897da1-cc9b-ed11-912c-0050560733ed",
  "ParentId": "b5897da1-cc9b-ed11-912c-0050560733ed",
  "Type": "textArea",
  "Order": 3,
  "Label": "Multi line test answer 2?",
  "Value": null,
  "TemplateFieldId": null,
  "DataMappingId": "sec2-multiLineText",
  "ValidationRules": [
    {
      "Rule": "locked",
      "Value": "false"
    },
    {
      "Rule": "required",
      "Value": "false"
    }
  ],
  "DependsOn": null
},
{
  "Id": "b9897da1-cc9b-ed11-912c-0050560733ed",
  "ParentId": "b5897da1-cc9b-ed11-912c-0050560733ed",
  "Type": "radioGroup",
  "Order": 4,
  "Label": "Radio button question 2?",
  "Value": null,
  "TemplateFieldId": null,
  "DataMappingId": "sec2-RadioButton",
  "ValidationRules": [
    {
      "Rule": "locked",
      "Value": "false"
    },
    {
      "Rule": "required",
      "Value": "false"
    }
  ],
  "DependsOn": null
},
{
  "Id": "bb897da1-cc9b-ed11-912c-0050560733ed",

```

```
      "ParentId":
      "b9897da1-cc9b-
ed11-912c-
0050560733ed",
      "Type":
      "radioOption",
      "Order": 0,
      "Label":
      "Radio button
question 1",
      "Value": null,
      "TemplateFie
Id": null,
      "DataMappin
gId": "sec2-
RadioButton-Q1",
      "ValidationR
ules": [],
      "DependsOn
": null
    },
    {
      "Id":
      "ba897da1-cc9b-
ed11-912c-
0050560733ed",
      "ParentId":
      "b9897da1-cc9b-
ed11-912c-
0050560733ed",
      "Type":
      "radioOption",
      "Order": 1,
      "Label":
      "radio button
question 2",
      "Value": null,
      "TemplateFie
Id": null,
      "DataMappin
gId": "sec2-
RadioButton-Q2",
      "ValidationR
ules": [],
      "DependsOn
": null
    },
    {
      "Id":
      "ca897da1-cc9b-
ed11-912c-
0050560733ed",
      "ParentId":
      "b9897da1-cc9b-
ed11-912c-
0050560733ed",
      "Type":
      "radioOption",
      "Order": 2,
      "Label":
      "radio button
question 3",
      "Value": null,
      "TemplateFie
Id": null,
      "DataMappin
gId": "sec2-
RadioButton-Q3",
      "ValidationR
ules": [],
      "DependsOn
": null
    },
    {
      "Id":
      "c2a90fc4-ce9b-
ed11-912c-
0050560733ed",
      "ParentId":
      "b5897da1-cc9b-
ed11-912c-
0050560733ed",
      "Type":
      "textInput",
      "Order": 5,
      "Label":
      "Dependant on
radio button
```

```
question 1?",
  "Value": null,
  "TemplateField": null,
  "DataMappingId": "sec2-
RadioButton-dep",
  "ValidationRules": [
    {
      "Rule":
"locked",
      "Value":
>false"
    },
    {
      "Rule":
"required",
      "Value":
>false"
    }
  ],
  "DependsOn": "bb897da1-cc9b-
ed11-912c-
0050560733ed"
},
{
  "Id":
"c3897da1-cc9b-
ed11-912c-
0050560733ed",
  "ParentId":
"b5897da1-cc9b-
ed11-912c-
0050560733ed",
  "Type":
"checkboxGroup",
  "Order": 6,
  "Label":
"Check box
question 2",
  "Value": null,
  "TemplateField": null,
  "DataMappingId": null,
  "ValidationRules": [
    {
      "Rule":
"locked",
      "Value":
>false"
    },
    {
      "Rule":
"required",
      "Value":
>false"
    }
  ],
  "DependsOn": null
},
{
  "Id":
"c4897da1-cc9b-
ed11-912c-
0050560733ed",
  "ParentId":
"c3897da1-cc9b-
ed11-912c-
0050560733ed",
  "Type":
"checkbox",
  "Order": 0,
  "Label":
"Check box label 1",
  "Value": null,
  "TemplateField": null,
  "DataMappingId": "sec2-
checkbox-Q1",
  "ValidationRules": [],
  "DependsOn": null
}
```

```
": null
  },
  {
    "Id":
      "c8897da1-cc9b-
      ed11-912c-
      0050560733ed",
    "ParentId":
      "c3897da1-cc9b-
      ed11-912c-
      0050560733ed",
    "Type":
      "checkbox",
    "Order": 1,
    "Label":
      "Check box label 2",
    "Value": null,
    "TemplateFie
    Id": null,
    "DataMappin
    glId": "sec2-
    checkBox-Q2",
    "ValidationR
    ules": [],
    "DependsOn
": null
  },
  {
    "Id":
      "c2897da1-cc9b-
      ed11-912c-
      0050560733ed",
    "ParentId":
      "b5897da1-cc9b-
      ed11-912c-
      0050560733ed",
    "Type": "file",
    "Order": 7,
    "Label": "File
    upload question 2?",
    "Value": null,
    "TemplateFie
    Id": null,
    "DataMappin
    glId": "sec2-
    fileUpload",
    "ValidationR
    ules": [
      {
        "Rule":
          "required",
        "Value":
          "false"
      }
    ],
    "DependsOn
": null
  },
  {
    "Id":
      "b7897da1-cc9b-
      ed11-912c-
      0050560733ed",
    "ParentId":
      "b5897da1-cc9b-
      ed11-912c-
      0050560733ed",
    "Type":
      "datepicker",
    "Order": 8,
    "Label":
      "Date question 2?",
    "Value": null,
    "TemplateFie
    Id": null,
    "DataMappin
    glId": "sec2-
    DateQuestion",
    "ValidationR
    ules": [
      {
        "Rule":
          "locked",
        "Value":
          "false"
      }
    ],
    {
      "Rule":
```



```

"required",
  "Value":
    "false"
  },
  "DependsOn":
    null
  },
  {
    "Id":
      "c0897da1-cc9b-
ed11-912c-
0050560733ed",
    "ParentId":
      "b5897da1-cc9b-
ed11-912c-
0050560733ed",
    "Type":
      "image",
    "Order": 9,
    "Label": null,
    "Value":
      "[base 64 string of
the imgae]",
    "TemplateFie
ld": null,
    "DataMappin
gId": null,
    "ValidationR
ules": [
      {
        "Rule":
          "locked",
          "Value":
            "true"
        },
      {
        "Rule":
          "required",
          "Value":
            "true"
        }
      ],
    "DependsOn":
      null
    },
    {
      "Id":
        "c1897da1-cc9b-
ed11-912c-
0050560733ed",
      "ParentId":
        "c0897da1-cc9b-
ed11-912c-
0050560733ed",
      "Type":
        "imageFormat",
      "Order": 0,
      "Label": null,
      "Value":
        "medium",
      "TemplateFie
ld": null,
      "DataMappin
gId": null,
      "ValidationR
ules": [],
      "DependsOn":
        null
    },
    {
      "Id":
        "cb897da1-cc9b-
ed11-912c-
0050560733ed",
      "ParentId":
        "c0897da1-cc9b-
ed11-912c-
0050560733ed",
      "Type":
        "imageAlignment",
      "Order": 1,
      "Label": null,
      "Value":
        "center",
      "TemplateFie
ld": null,
      "DataMappin

```

		gld": null, "ValidationR ules": [], "DependsOn ": null } ]	
--	--	--	--

Example of exported file:

Export Json	Form template view in web admin
<pre> {   "Name": "Form template name",   "Title": "Form title",   "Description": "Form description",   "CreatedOn": "2023-01-24T10:51:11.3343099+01:00",   "UpdatedOn": "2023-01-24T10:51:11.3343099+01:00",   "PublicLinkEnabled": true,   "DisplayDataMapping": true,   "CorrelationId": "c386aaae-44c1-4122-8f53-33191a5209e2",   "Components": [     {       "Id": "bc897da1-cc9b-ed11-912c-0050560733ed",       "ParentId": null,       "Type": "section",       "Order": 0,       "Label": null,       "Value": null,       "TemplateField": null,       "DataMappingId": null,       "ValidationRules": [],       "DependsOn": null     },     {       "Id": "be897da1-cc9b-ed11-912c-0050560733ed",       "ParentId": "bc897da1-cc9b-ed11-912c-0050560733ed",       "Type": "title",       "Order": 2,       "Label": "Title 1",       "Value": null,       "TemplateField": null,       "DataMappingId": null,       "ValidationRules": [],       "DependsOn": null     },     {       "Id": "c7897da1-cc9b-ed11-912c-0050560733ed",       "ParentId": "bc897da1-cc9b-ed11-912c-0050560733ed",       "Type": "text",       "Order": 3,       "Label": "Text 1",       "Value": null,       "TemplateField": null,       "DataMappingId": null,       "ValidationRules": [],       "DependsOn": null     },     {       "Id": "c5897da1-cc9b-ed11-912c-0050560733ed",       "ParentId": "bc897da1-cc9b-ed11-912c-0050560733ed",       "Type": "textInput",       "Order": 4,       "Label": "Single line text answer 1?",       "Value": null,       "TemplateField": null,       "DataMappingId": "Sec1- </pre>	



```
{
  "Id": "b8897da1-cc9b-ed11-912c-0050560733ed",
  "ParentId": "b5897da1-cc9b-ed11-912c-0050560733ed",
  "Type": "textArea",
  "Order": 3,
  "Label": "Multi line test answer 2?",
  "Value": null,
  "TemplateField": null,
  "DataMappingId": "sec2-multiLineText",
  "ValidationRules": [
    {
      "Rule": "locked",
      "Value": "false"
    },
    {
      "Rule": "required",
      "Value": "false"
    }
  ],
  "DependsOn": null
},
{
  "Id": "b9897da1-cc9b-ed11-912c-0050560733ed",
  "ParentId": "b5897da1-cc9b-ed11-912c-0050560733ed",
  "Type": "radioGroup",
  "Order": 4,
  "Label": "Radio button question 2?",
  "Value": null,
  "TemplateField": null,
  "DataMappingId": "sec2-RadioButton",
  "ValidationRules": [
    {
      "Rule": "locked",
      "Value": "false"
    },
    {
      "Rule": "required",
      "Value": "false"
    }
  ],
  "DependsOn": null
},
{
  "Id": "bb897da1-cc9b-ed11-912c-0050560733ed",
  "ParentId": "b9897da1-cc9b-ed11-912c-0050560733ed",
  "Type": "radioOption",
  "Order": 0,
  "Label": "Radio button question 1",
  "Value": null,
  "TemplateField": null,
  "DataMappingId": "sec2-RadioButton-Q1",
  "ValidationRules": [],
  "DependsOn": null
},
{
  "Id": "ba897da1-cc9b-ed11-912c-0050560733ed",
  "ParentId": "b9897da1-cc9b-ed11-912c-0050560733ed",
  "Type": "radioOption",
  "Order": 1,
  "Label": "radio button question 2",
  "Value": null,
  "TemplateField": null,
  "DataMappingId": "sec2-RadioButton-Q2",
```

Dependant on radio button question 1?

☐ Mandatory

☐ Prefill when sending

Checkboxes

Check box question 2

Data output ID

sec2-checkBox-Q1

☐ Check box label 1

Data output ID

sec2-checkBox-Q2

☐ Check box label 2

Add option

Data output ID

sec2-fileUpload

☐ Mandatory

☐ Prefill when sending

File upload

File upload question 2?

Upload File

Data output ID

sec2-DateQuestion

☐ Mandatory

☐ Prefill when sending

Date

Date question 2?

Choose a date

Size:

Medium

Alignment:

Center

Image

Replace Image

Add...

Add a section

☒ Enable public link

Form owner

Delete

Cancel

Save as new form template

Save

```

        "ValidationRules": [],
        "DependsOn": null
    },
    {
        "Id": "ca897da1-cc9b-ed11-912c-0050560733ed",
        "ParentId": "b9897da1-cc9b-ed11-912c-0050560733ed",
        "Type": "radioOption",
        "Order": 2,
        "Label": "radio button question 3",
        "Value": null,
        "TemplateField": null,
        "DataMappingId": "sec2-RadioButton-Q3",
        "ValidationRules": [],
        "DependsOn": null
    },
    {
        "Id": "c2a90fc4-ce9b-ed11-912c-0050560733ed",
        "ParentId": "b5897da1-cc9b-ed11-912c-0050560733ed",
        "Type": "textInput",
        "Order": 5,
        "Label": "Dependant on radio button question 1?",
        "Value": null,
        "TemplateField": null,
        "DataMappingId": "sec2-RadioButton-dep",
        "ValidationRules": [
            {
                "Rule": "locked",
                "Value": "false"
            },
            {
                "Rule": "required",
                "Value": "false"
            }
        ],
        "DependsOn": "bb897da1-cc9b-ed11-912c-0050560733ed"
    },
    {
        "Id": "c3897da1-cc9b-ed11-912c-0050560733ed",
        "ParentId": "b5897da1-cc9b-ed11-912c-0050560733ed",
        "Type": "checkboxGroup",
        "Order": 6,
        "Label": "Check box question 2",
        "Value": null,
        "TemplateField": null,
        "DataMappingId": null,
        "ValidationRules": [
            {
                "Rule": "locked",
                "Value": "false"
            },
            {
                "Rule": "required",
                "Value": "false"
            }
        ],
        "DependsOn": null
    },
    {
        "Id": "c4897da1-cc9b-ed11-912c-0050560733ed",
        "ParentId": "c3897da1-cc9b-ed11-912c-0050560733ed",
        "Type": "checkbox",
        "Order": 0,
        "Label": "Check box label 1",
        "Value": null,

```

```

      "TemplateField": null,
      "DataMappingId": "sec2-
checkBox-Q1",
      "ValidationRules": [],
      "DependsOn": null
    },
    {
      "Id": "c8897da1-cc9b-ed11-
912c-0050560733ed",
      "ParentId": "c3897da1-
cc9b-ed11-912c-0050560733ed",
      "Type": "checkbox",
      "Order": 1,
      "Label": "Check box label
2",
      "Value": null,
      "TemplateField": null,
      "DataMappingId": "sec2-
checkBox-Q2",
      "ValidationRules": [],
      "DependsOn": null
    },
    {
      "Id": "c2897da1-cc9b-ed11-
912c-0050560733ed",
      "ParentId": "b5897da1-
cc9b-ed11-912c-0050560733ed",
      "Type": "file",
      "Order": 7,
      "Label": "File upload
question 2?",
      "Value": null,
      "TemplateField": null,
      "DataMappingId": "sec2-
fileUpload",
      "ValidationRules": [
        {
          "Rule": "required",
          "Value": "false"
        }
      ],
      "DependsOn": null
    },
    {
      "Id": "b7897da1-cc9b-ed11-
912c-0050560733ed",
      "ParentId": "b5897da1-
cc9b-ed11-912c-0050560733ed",
      "Type": "datepicker",
      "Order": 8,
      "Label": "Date question 2?",
      "Value": null,
      "TemplateField": null,
      "DataMappingId": "sec2-
DateQuestion",
      "ValidationRules": [
        {
          "Rule": "locked",
          "Value": "false"
        },
        {
          "Rule": "required",
          "Value": "false"
        }
      ],
      "DependsOn": null
    },
    {
      "Id": "c0897da1-cc9b-ed11-
912c-0050560733ed",
      "ParentId": "b5897da1-
cc9b-ed11-912c-0050560733ed",
      "Type": "image",
      "Order": 9,
      "Label": null,
      "Value": "[base 64 string of
the imgae]",
      "TemplateField": null,
      "DataMappingId": null,

```

```

    "ValidationRules": [
      {
        "Rule": "locked",
        "Value": "true"
      },
      {
        "Rule": "required",
        "Value": "true"
      }
    ],
    "DependsOn": null
  },
  {
    "Id": "c1897da1-cc9b-ed11-912c-0050560733ed",
    "ParentId": "c0897da1-cc9b-ed11-912c-0050560733ed",
    "Type": "imageFormat",
    "Order": 0,
    "Label": null,
    "Value": "medium",
    "TemplateField": null,
    "DataMappingId": null,
    "ValidationRules": [],
    "DependsOn": null
  },
  {
    "Id": "cb897da1-cc9b-ed11-912c-0050560733ed",
    "ParentId": "c0897da1-cc9b-ed11-912c-0050560733ed",
    "Type": "imageAlignment",
    "Order": 1,
    "Label": null,
    "Value": "center",
    "TemplateField": null,
    "DataMappingId": null,
    "ValidationRules": [],
    "DependsOn": null
  }
]
}

```

### 2.3.47. GenerateDocumentWithMergeData

Imports form template

#### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
request	GenerateDocumentWithMergeDataRequest	Contains data about the merge document
encryptDocument	bool	Sets whether document should be encrypted or not. Default is false
encryptionKey	string	Sets the encryption key default is null

#### Properties of request types

Type	Property	Type	Description
GenerateDocumentWithMergeDataRequest	Document	string	base 64 string of the document
	RegionDatas	GenerateDocumentRegionData[]	
	DataModel	string	
	XmlMergeData	string	
GenerateDocumentRegionData	RegionName	string	
	Objects	string[]	

## Example

Request	Response
<pre>POST https://{url}/WebService/v2.0/restsigningservice.svc /GenerateDocumentWithMergeData  {   "token" : "",   "request" :   {     "Document" : "{base 64 string}",     "RegionDatas" : [       {         "RegionName" : "",         "Objects" : ["" ]       }     ],     "DataModel" : "",     "XmlMergeData" : ""   },   "encryptDocument" : false,   "encryptionKey" : "" }</pre>	Base 64 string of the file

### 2.3.48. GetFormSigningTemplates

#### Technical description

This method allows to get form signing templates of the user. It takes as a parameter user token and returns `GetSigningTemplatesResponse` with form signing templates inside. This method can be accessed through both SOAP and REST.

#### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.

#### Response

This method returns `GetSigningTemplatesResponse`. See 2.2.4. `GetSigningTemplates` for more info about response type.

### 2.3.49. GetFormFile

This method allows to download file which is uploaded in form answer for file upload component

#### Parameters

Name	Type	Description
token	Guid	User token, necessary for identification.
originalDocumentId	Guid	File id (you can get it from <code>GetFormResponse</code> file component Value property)

#### Properties of response types

Type	Property	Type	Description
EnclosureDocument	AdditionalData	string	Additional data
	Data	byte[]	Byte array of document
	Name	string	Name of the file

## Example

--



Request
GET https://{url}/WebService/v2.0/RestSigningService.svc/GetFormFile?token={{token}}&originalDocumentId={{originalDocumentId}}

Response
<pre>{   "AdditionalData": null,   "Data": [     37,     80,     68,     70,     45,     49,     46,     55,     10   ],   "Name": "document.pdf" }</pre>

## 3. Custom extensions

The following 2 extensions have been defined. The base URL for these is:

<https://addosign.net/WebService/v2.0/restsigningservice.svc/>

All calls still requires a valid Login token.

As per the main API, input models must be converted to JSON.

Output error codes is still sent in the HTTP-status header.

### 3.1 InitiateJSONFormSigning

POST /InitiateJSONFormSigning

**Input:**

InitiateJSONFormSigningOuterRequest

**Output:**

InitiateJSONFormSigningResponse

#### 3.1.1 Input Models

##### InitiateJSONFormSigningOuterRequest

Property	Mandatory	Type	Description
Token	yes	string	The token from the /Login call.
Request	yes	InitiateJSONFormSigningRequest	The request body.

##### InitiateJSONFormSigningRequest

Property	Mandatory	Type	Description
SigningTemplateId	yes	string	The signing template to use for this form.
ReferenceNumber		string	A PFA private reference number.
Respondent	yes	RecipientDto	The first respondent. The first respondent will be the one filling out the form.
Recipients		RecipientDto[]	List of additional signers. Can be an empty list.

AdditionalData		string	A PFA private additional data block.
JSONForm	yes	JSONForm	The JSON form definitions.
Preview		bool	Set to true to preview form (submit button disabled), false to generate a full signing flow.

## RecipientDto

Property	Mandatory	Type	Description
ExternalID		Guid	External ID of this recipient.
Title		string	Associated title of this recipient such as "Director", "Manager", ...
Name	yes	string	Name of recipient.
Email	yes	string	Recipients email address.
Phone		string	Recipients phone number.
Cpr		string	CPR
CVR		string	CVR
SwedishSsn		string	Swedish personnummer
NorwegianSsn		string	Norwegian fødselsnummer
TupasSsn		string	Finnish person identification

## JSONForm

Property	Mandatory	Type	Description
SignerPdfFields	yes	SignerPdfField[]	List of fields in this form.
SignerPdfGroups	yes	SignerPdfGroup[]	List of groups.

## SignerPdfField

Property	Mandatory	Type	Description
Title	yes	string	The title of the field.
Type	yes	string	Type of field:  <i>RadioButtonGroup</i> - group of mutual exclusive radio buttons. Items are defined in the RadioButtons property. <i>DateField</i> - date selector field. <i>Typeahead</i> - type-ahead free-text field. Options are define in the Options property. <i>CustomRegularExpression</i> - entry field with regular expression validation. Regex is defined in CustomRegularExpression property. <i>Label</i> - a view only label. Uses the Description field. <i>NumericRange</i> - numeric ranged input. Range (both ends included) is defined in the CustomRegularExpression property. Sample: "18,100" for input $18 \leq x \leq 100$ . <i>DropDownList</i> - show a dropdown list. Items are defined in the DropDownListItems property. <i>CVR</i> - entry for danish CVR number (with validation).
PdfFormFieldId		string	PDF field name for merging.
Value		string	Pre-loaded value of this field.
Mandatory		bool	Is this field mandatory to fill-in before continuing?
FieldId	yes	int	ID of field - used in SignerPdfGroups.
DependentOn		string	Which (if any) field is this field dependent on?
CustomErrorMessage		string	Custom error message to use if validations fails.
CustomRegularExpression		string	Custom regular expression used for field.
Description		string	Enhanced title description.
Dependent		string	What value must the DependentOn field have to trigger this?

Value			
DropDownListItems		DropDownListModel[]	List of Type.DropDownList items.
RadioButtons		RadioButtonsModel[]	List of Type.RadioButton items.
Options		OptionsModel[]	List of Type.Typeahead items.

## DropDownListModel

Property	Mandatory	Type	Description
Title	yes	string	Title of item.
Value	yes	string	Value of item.
IsSelected		bool	Is this item preselected. It's only allowed to have one <i>"IsSelected": true</i> in a dropdown list.

## RadioButtonsModel

Property	Mandatory	Type	Description
Text	yes	string	Title of item.
Value	yes	string	Value of item.
DefaultChecked		string	Is this item preselected. It's only allowed to have one <i>"DefaultChecked": true</i> in a radiobuttons list-

## OptionsModel

Property	Mandatory	Type	Description
Name	yes	string	Shown "Value" (to the end-user).
Value	yes	string	Value of item.

## SignerPdfGroup

Property	Mandatory	Type	Description
Name		string	Header/title of group.
Members	yes	int[]	A list of FieldId's in this group. Fields will be shown in the order given in the Members list.
DependentOn		string	Which field is this group dependent on?
DependentValue		string	What value in the DependentOn field will activate this group?

## 3.1.2 Output Models

### InitiateJSONFormSigningResponse

Property	Type	Description
FormFillingUrl	string	The URL to the form for the respondent.
GeneratedFormSignings	GeneratedFormSigning[]	A list of signing URL's for all signers (respondent + additional signers).

### GeneratedFormSigning

Property	Type	Description
Url	string	The URL to the signing for the signer.

SigningToken	string	Signingtoken for this signer.
--------------	--------	-------------------------------

## 3.2 GetJSONFormResponse

GET /InitiateJSONFormSigning?Token={token}&SigningToken={signing-token}

### Input:

Token - login token from previous call to /Login.

SigningToken - the signing to get data for.

### Output:

GetJSONFormResponseResponse

### 3.2.1 Output Models

#### GetJSONFormResponseResponse

Property	Type	Description
Components	FormComponentForView[]	An array of the components of the form with their values (if any).

#### FormComponentForView

This model is aligned with 2.3.42 GetFormResponse in the Addo Sign API Documentation.

Property	Type	Description
Id	Guid	Component identifier.
ParentId	Guid	Parent component identifier.
Type	ComponentTypeEnum as string	Component type. Can have values: Section (1), TextInput (2), TextArea (3), RadioGroup (4), RadioOption (5), Text (6), Title (7), Checkbox (8), CheckboxGroup (9), File (10), Datepicker (11), Image (12), ImageFormat (13), ImageAlignment (14).
Order	Int	Order number in the form.
Label	string	Component label.
Value	string	Component value if set.
DataMappingId	string	Data Mapping ID used in PDF document.

## 4. Security

The Addo service is exposed as a WS-\* specifications compatible service. The WS-\* specifications enable the service to support reliable messaging and security by default. Clients using .net version older than 3.0 will not be able to consume the service. Soap version: 1.2 The Addo service is exposed on two different security configurations.

### 4.1. Client certificate and Server certificate

This is secured as Transport with message credentials. This means the service is exposed over https (ssl). All messages are secured using client credential type certificate, which means the client provides a certificate as proof for its identity. This enabled the Addo service to determine the validity of the identity of the client. The service identifies itself by a certificate which is also used in the SSL communication taking place. This enables the clients to determine the validity of the identity of the Addo service. In Addo a client must be registered as using this type of connection before it will succeed.

## 4.2. Client account email and password with server certificate

This is secured as Transport with message credentials. This means the service is exposed over https (ssl). All messages are secured using client credential type username which means a username and password, which is a client's account email and hashed password (SHA512) which has no correlation to Addo credentials. The email and hashed password are handed to clients which then must configure the service consumption on their end using these client credentials. This enabled the Addo service to determine the validity of the identity of the client. The service identifies itself by a certificate which is also used in the SSL communication taking place. This enables the clients to determine the validity of the identity of the Addo service. In Addo a client must be registered as using this type of connection before it will succeed.

## 5. Notes

### 5.1 Dates

Please note that dates, unless otherwise noted, should be in the format:

```
/Date(yyyymmdd)/
```

(also known as the microsoft format).

The **xxx** part should be specified in milli-seconds. PHP users - the **time()** function returns the time in seconds so you have to multiply this value by 1000.

### 5.2 Durations

The format of the Duration in the TemplateOverrides to the /InitiateSigning call must have this format:

```
[ - ]P[ {days}D ][ T[ {hours}H ][ {min}M ][ {sec}S ] ]
```

... where:

- - Indicates negative timespan, omitted for positive values
- P must be the first character (unless negative time value)
- T must precede the time portion of the timespan.
- [] = optional part that may be omitted if 0.

Example. If you like to specify a duration of two days then the string would be:

```
P2D
```

.. if you would like to specify 3 days, 7 hours and 2 seconds, then:

```
P3DT7H2S
```

Please note that unless otherwise noted durations in the Addo API is always expressed in whole positive days (PxD, where x is the number of days).

### 5.3 Creating invitation link by hand

You shouldn't be doing this. If you cannot wait for us to get it implemented then this is how it is done:

1. Obtain a valid **SESSIONTOKEN** and a valid **SIGNINGTOKEN** (by calling /Login and /InitiateSigning).
2. Call /GetSigningStatus:

```
GET https://vismaaddo.net/WebService/v2.0/restsigningservice.svc  
/GetSigningStatus?signingToken=SIGNINGTOKEN&token=SESSIONTOKEN
```

3. Convert the result JSON to an object and then you f.ex. iterate the recipients:

```
foreach (var recipient in result.Recipients) {  
    var signingUrl = "https://vismaaddo.net/SigningPortal/?token=" +  
    recipient.Transactions[0].TransactionToken;
```

```
// Do something with signingUrl - include it in an email, redirect in a  
browser window ... whatever is good for you!  
}
```

Big fat warning! It is unlikely that we will change this. But things will change from time to time ....