

# XVergabe Bidder Interface

## Webservice Operations

The XVergabe Bidder Interface specifies five web service operations. Table 1 summarizes the function of each operation. The web service operations are specified in the file **xvergabe-service.wsdl**.

Operation	Description
<b>subscribe</b>	By calling this operation, a bidder can subscribe a tendering procedure. After subscription, he is able to retrieve messages concerning the procedure by calling <code>getMessages</code> .
<b>sendMessage</b>	By calling this operation, a bidder can send messages to the platform. Such messages include offers and inquiries (see Table 2).
<b>getMessages</b>	By calling this operation, a bidder can retrieve all messages from the platform directed at him concerning a specified tendering procedure. A message may contain a reference to a document file that the bidder can download via <code>getDocument</code> .
<b>getDocument</b>	By calling this operation, a bidder can download binary documents from the platform (tendering documents, answers to inquiries, ...).
<b>getTenderIDs</b>	Returns a list of the IDs of all tendering procedures the bidder has subscribed for. These IDs are needed to call the other operations.

**Table 1 - Web service operations provided by the XVergabe Bidder Interface.**

## Messages

The operations `sendMessage` and `getMessages` define a relatively open interface for exchanging messages between bidder client and tendering platform. Table 2 lists the type of messages that can be exchanged. Some messages are to be sent from client to platform, others from platform to client. The structure of the messages is specified in the file **xvergabe-messages.xsd**

Message	Sender	Receiver	Description
<b>ClientInquiry</b>	client	platform	Contains a document sent from client to the platform. This document can for example contain questions concerning a tendering procedure. These questions can then be answered via a <code>ServerInquiry</code> .
<b>InvitationToParticipation</b>	platform	client	Contains the documents needed to take part in a participation contest of a tendering procedure.
<b>InvitationToTender</b>	platform	client	Contains the tendering documents needed to take part in the bidding phase of a tendering procedure.
<b>Notice</b>	platform	client	Contains the notice information of a tendering procedure.
<b>Offer</b>	client	platform	Contains the offer documents. With this message a bidder takes part in the bidding phase of a tendering procedure.
<b>OfferDeliveryReceipt</b>	platform	client	Contains an affirmation for the duly received offer documents.
<b>OfferWithdrawal</b>	client	platform	With this message, a bidder can withdraw a previously submitted offer.
<b>OfferWithdrawalReceipt</b>	platform	client	Contains an affirmation for the duly received offer withdrawal.
<b>Participation</b>	client	platform	Contains the participation documents. With this message a bidder takes part in the participation phase of a tendering procedure.
<b>ParticipationDeliveryReceipt</b>	platform	client	Contains an affirmation for the duly received participation documents.
<b>ParticipationWithdrawal</b>	client	platform	With this message, a bidder can withdraw a previously submitted participation.
<b>ParticipationWithdrawal-DeliveryReceipt</b>	platform	client	Contains an affirmation for the duly received participation withdrawal.
<b>Response</b>	platform	client	Technical response of the platform to a request by a bidder client. May contain an error code.
<b>ResultNotice</b>	platform	client	Contains information about the result of a tendering procedure. If a bidder won a procedure, he may be notified via <code>ResultNotice</code> .
<b>ServerInquiry</b>	platform	client	Contains a document sent from the platform to the client. This document can for example contain answers to bidder questions previously sent via <code>ClientInquiry</code> .
<b>TenderMetaInformation</b>	platform	client	Contains meta information about a tendering procedure. This message is sent each time some attribute of a tendering procedure changes so that all bidders are up to date.

**Table 2 - Messages that are exchanged between bidder client and tendering platform via `sendMessage` and `getMessages`.**