

## Account Balance Data Messages

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### **ACCOUNT\_BALANCE\_REQUEST [s\_AccountBalanceRequest structure] Client >> Server**

This is a message from the Client to the Server to request Trade Account Balance data.

The Server will respond with an [ACCOUNT\\_BALANCE\\_UPDATE](#) or reject the request.

The Server will set the **RequestID** in the [ACCOUNT\\_BALANCE\\_UPDATE](#) message to match the **RequestID** in the **ACCOUNT\_BALANCE\_REQUEST**.

The Server will periodically send [ACCOUNT\\_BALANCE\\_UPDATE](#) messages as the Account Balance data changes. The frequency of the updates is determined by the Server. Account Balance updates are considered automatically subscribed to. When unsolicited [ACCOUNT\\_BALANCE\\_UPDATE](#) messages are sent by the Server, the **RequestID** will be 0.

Field Name	Field Description
<a href="#">[unsigned int16]</a> <b>Size</b>	The standard message size field. Automatically set by constructor.
<a href="#">[unsigned int16]</a> <b>Type</b>	The standard message type field. Automatically set by constructor.
<a href="#">[int32]</a> <b>RequestID</b>	A unique request identifier for this request.

<a href="#">[char]</a> <b>TradeAccount</b>	This is an optional field. Leave this empty to request the Server to return Account Balance data for all Trade Accounts on the logged in Username. Otherwise, specify a particular Trade Account to request Account Balance data for.
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## ACCOUNT\_BALANCE\_REJECT [[s\\_AccountBalanceReject](#) structure] Server >> Client

Field Name	Field Description
<a href="#">[unsigned int16]</a> <b>Size</b>	The standard message size field. Automatically set by constructor.
<a href="#">[unsigned int16]</a> <b>Type</b>	The standard message type field. Automatically set by constructor.
<a href="#">[int32]</a> <b>RequestID</b>	The unique request identifier sent in the corresponding request.
<a href="#">[char]</a> <b>RejectText</b>	The text reason the <a href="#">ACCOUNT_BALANCE_REQUEST</a> message was rejected.

## ACCOUNT\_BALANCE\_UPDATE [[s\\_AccountBalanceUpdate](#) structure] Server >> Client

This is an optional message from the Server to Client to provide Account Balance information for a particular Trade Account. The server needs to provide a separate message for each Trade Account associated with the logged in username if it supports Account Balance updates.

The Server will respond with an **ACCOUNT\_BALANCE\_UPDATE** in response to a [ACCOUNT\\_BALANCE\\_REQUEST](#) message. The Server will set the **RequestID** in the **ACCOUNT\_BALANCE\_UPDATE** message to match the RequestID in the [ACCOUNT\\_BALANCE\\_REQUEST](#) message.

The Server will periodically send **ACCOUNT\_BALANCE\_UPDATE** messages as the Account

Balance data changes. The frequency of the updates is determined by the Server. Account Balance updates are considered automatically subscribed to. When an unsolicited **ACCOUNT\_BALANCE\_UPDATE** message is sent, the **RequestID** field will be 0.

When the server is responding with one or more **ACCOUNT\_BALANCE\_UPDATE** messages in response to a [ACCOUNT\\_BALANCE\\_REQUEST](#) message, it must not send any unsolicited **ACCOUNT\_BALANCE\_UPDATE** messages interleaved with the solicited **ACCOUNT\_BALANCE\_UPDATE** messages in response to the [ACCOUNT\\_BALANCE\\_REQUEST](#) message.

Field Name	Field Description
<a href="#">[unsigned int16]</a> <b>Size</b>	The standard message size field. Automatically set by constructor.
<a href="#">[unsigned int16]</a> <b>Type</b>	The standard message type field. Automatically set by constructor.
<a href="#">[int32]</a> <b>RequestID</b>	<p>This is the RequestID which was set in the <a href="#">ACCOUNT_BALANCE_REQUEST</a> that this message is in response to.</p> <p>In the case when this is a periodic unsolicited Account Balance update, RequestID must be set to 0, the default.</p>
<a href="#">[double]</a> <b>CashBalance</b>	The current cash balance for the account in the currency specified by the AccountCurrency field.

<a href="#">[double]</a> <b>BalanceAvailableForNewPositions</b>	The <b>CashBalance</b> minus the cash required to maintain securities on margin the Trade Account currently has.
<a href="#">[char]</a> <b>AccountCurrency</b>	ISO Currency Code for the cash values in this message.
<a href="#">[char]</a> <b>TradeAccount</b>	The trade account identifier for the Account Balance information.
<a href="#">[double]</a> <b>SecuritiesValue</b>	This is the value of all cash and securities as a cash value.
<a href="#">[double]</a> <b>MarginRequirement</b>	This is the current cash requirement to maintain securities on margin the Trade Account currently has.
<a href="#">[int32]</a> <b>TotalNumberMessages</b>	<p>This indicates the total number of Account Balance Update messages when a batch of messages is being sent. If there is only one Account Balance Update message being sent, this will be 1. Use a value of 1 for an unsolicited message.</p> <p>A Client should not rely on this field for an unsolicited message. This is required to be set.</p>

[\[int32\]](#) **MessageNumber**

This indicates the 1-based index of the Account Balance Update message when a batch of messages is being sent. If there is only one Account Balance Update message being sent, this will be 1. Use a value of 1 for an unsolicited message.

A Client should not rely on this field for an unsolicited message. This is required to be set.

[unsigned int8]  
**NoAccountBalances**

Set to an integer value of 1 to indicate there are no Account Balances in response to an [ACCOUNT\\_BALANCE\\_REQUEST](#) message.

Otherwise, the Server must leave this at the default of 0.

The Server is always expected to respond with a single [ACCOUNT\\_BALANCE\\_UPDATE](#) message when there is no [ACCOUNT\\_BALANCE\\_UPDATE](#) message for any Trade Account when the Account Balances have been requested by the Client with an [ACCOUNT\\_BALANCE\\_REQUEST](#) message.

When the Server is sending an [ACCOUNT\\_BALANCE\\_UPDATE](#) message to the Client and it is indicating that the balance related fields are all zero, then the **NoAccountBalances** field must be left at the default of 0. It is not used indicate the balance related fields are all zero.

This is always set to the default of 0 for an unsolicited [ACCOUNT\\_BALANCE\\_UPDATE](#) .

[\[unsigned int8\]](#) **Unsolicited**

Set to 1 to indicate this is an unsolicited Account Balance Update message. In other words, it is a real-time Account Balance Update message which is not an initial response to an [ACCOUNT\\_BALANCE\\_REQUEST](#) message.

## **HISTORICAL\_ACCOUNT\_BALANCES\_REQUEST [ structure] Client >> Server**

This is a message from the Client to the Server to request a history of Cash Balance changes for the specified Trade Account.

The Server will respond with multiple [HISTORICAL\\_ACCOUNT\\_BALANCE\\_RESPONSE](#) messages or reject the request with a message.

The Server will set the **RequestID** in the [HISTORICAL\\_ACCOUNT\\_BALANCE\\_RESPONSE](#) message to match the **RequestID** in the **HISTORICAL\_ACCOUNT\_BALANCES\_REQUEST**.

Field Name	Field Description
<a href="#">[unsigned int16]</a> <b>Size</b>	The standard message size field. Automatically set by constructor.
<a href="#">[unsigned int16]</a> <b>Type</b>	The standard message type field. Automatically set by constructor.
<a href="#">[int32]</a> <b>RequestID</b>	A unique request identifier for this request.
<a href="#">[char]</a> <b>TradeAccount</b>	This is a required field. Set to the particular Trade Account for which to request historical Account Balance data.

<a href="#">[t_DateTime]</a> <b>StartDateTime</b>	Set this to the Date-Time that the server is to send historical cash balance updates starting with.
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## **HISTORICAL\_ACCOUNT\_BALANCES\_REJECT [ structure] Server >> Client**

This is a message from the Server to the Client to reject a [HISTORICAL\\_ACCOUNT\\_BALANCES\\_REQUEST](#) request.

Field Name	Field Description
<a href="#">[unsigned int16]</a> <b>Size</b>	The standard message size field. Automatically set by constructor.
<a href="#">[unsigned int16]</a> <b>Type</b>	The standard message type field. Automatically set by constructor.
<a href="#">[int32]</a> <b>RequestID</b>	The unique request identifier sent in the corresponding request message.
<a href="#">[char]</a> <b>RejectText</b>	The text reason the <a href="#">HISTORICAL_ACCOUNT_BALANCES_REQUEST</a> message was rejected.

## **HISTORICAL\_ACCOUNT\_BALANCE\_RESPONSE [ structure] Server >> Client**

This is a message from the Server to the Client in response to a [HISTORICAL\\_ACCOUNT\\_BALANCES\\_REQUEST](#) message.

There is a separate message for each Cash Balance update.

Field Name	Field Description
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<a href="#">[unsigned int16]</a> <b>Size</b>	The standard message size field. Automatically by constructor.
<a href="#">[unsigned int16]</a> <b>Type</b>	The standard message type field. Automatically by constructor.
<a href="#">[int32]</a> <b>RequestID</b>	The same <b>RequestID</b> set in <a href="#">HISTORICAL_ACCOUNT_BALANCES_REQUEST</a> message.
<a href="#">[DateTimeWithMilliseconds]</a> <b>DateTime</b>	The timestamp of the Cash Balance update.
<a href="#">[double]</a> <b>CashBalance</b>	The Cash Balance in the currency of the account
<a href="#">[char]</a> <b>AccountCurrency</b>	The account currency. This is the standard <a href="#">Currency Code</a> for the currency.
<a href="#">[char]</a> <b>TradeAccount</b>	The Trade Account identifier of the Cash Balance update.
<a href="#">[unsigned int8]</a> <b>IsFinalResponse</b>	Set to 1 to indicate if this is the final response. Otherwise, the value is zero.
<a href="#">[unsigned int8]</a> <b>NoAccountBalances</b>	Set to 1 to indicate if there are no historical Cash Balance updates to return in response to <a href="#">HISTORICAL_ACCOUNT_BALANCES_REQUEST</a> . Otherwise, the value is zero.

<a href="#">[char]</a> <b>InfoText</b>	Any related information text for the Cash Balance update.
<a href="#">[char]</a> <b>TransactionId</b>	The transaction identifier for the Cash Balance update.

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\*Last modified Wednesday, 05th July, 2023.