

## Changelog finAPI Access V1 (deprecated) 2022.42.1 » finAPI Access V2 2022.42.1

» *Questions on these changes? Please let us know: [support@finapi.io](mailto:support@finapi.io)*

### New Type: RevokeTokenParams

Changes in Service: POST /api/v\*/payments/submit

Changes in Service: POST /oauth/token -> POST /api/v\*/oauth/token

Changes in Service: POST /oauth/revoke -> POST /api/v\*/oauth/revoke

Changes in Service: POST /api/v\*/bankConnections/update

Changes in Service: POST /api/v\*/bankConnections/import

Changes in Service: POST /api/v\*/bankConnections/connectInterface

Changes in Service: GET /api/v\*/transactions

Changes in Service: DELETE /api/v\*/transactions

Changes in Service: PATCH /api/v\*/bankConnections/{id}

Changes in Service: PATCH /api/v\*/accounts/{id}

Changes in Service: GET /api/v\*/mandatorAdmin/getUserList

Changes in Service: GET /api/v\*/categories/cashFlows

Changes in Service: GET /api/v\*/banks

Changes in Service: GET /api/v\*/accounts

Changes in Service: GET /api/v\*/accounts/dailyBalances

Changes in Service: DELETE /api/v\*/bankConnections/{id}/aisConsent

Changes in Type: AccessToken

Changes in Type: Account

Changes in Type: AccountInterface

Changes in Type: AccountParams

Changes in Type: Bank

Changes in Type: BankConnection

Changes in Type: BankConnectionInterface

Changes in Type: BankConnectionOwner

Changes in Type: BankConsent

Changes in Type: BankInterface

Changes in Type: CashFlow

Changes in Type: CategorizationCheckResult

Changes in Type: Category

Changes in Type: ClientConfiguration

Changes in Type: ClientConfigurationParams

Changes in Type: ConnectInterfaceParams

Changes in Type: CreateDirectDebitParams

Changes in Type: CreateMoneyTransferParams

Changes in Type: CreateStandingOrderParams

Changes in Type: DailyBalance

Changes in Type: DailyBalanceList

Changes in Type: DirectDebitOrderParams

Changes in Type: EditBankConnectionParams

Changes in Type: EditTppCredentialParams

Changes in Type: ErrorDetails

Changes in Type: ErrorMessage

Changes in Type: IbanRule

Changes in Type: ImportBankConnectionParams

Changes in Type: KeywordRule

Changes in Type: LoginCredentialResource

Changes in Type: MockBankConnectionUpdate

Changes in Type: MultiStepAuthenticationChallenge

Changes in Type: NewTransaction

Changes in Type: NotificationRule

Changes in Type: PasswordChangingResource

Changes in Type: Payment

Changes in Type: PaypalTransactionData

Changes in Type: RemoveInterfaceParams

Changes in Type: Security

Changes in Type: StandingOrder

Changes in Type: SubmitPaymentParams

Changes in Type: SubmitStandingOrderParams

Changes in Type: TppCertificate

Changes in Type: TppCertificateParams

Changes in Type: TppCredentials

Changes in Type: TppCredentialsParams

Changes in Type: Transaction

Changes in Type: TwoStepProcedure

Changes in Type: UpdateBankConnectionParams

Changes in Type: UpdateResult

Changes in Type: User

Changes in Type: UserInfo

Removed Service: POST /api/v\*/accounts/requestSepaMoneyTransfer

Removed Service: POST /api/v\*/accounts/requestSepaDirectDebit

Removed Service: POST /api/v\*/accounts/executeSepaMoneyTransfer

Removed Service: POST /api/v\*/accounts/executeSepaDirectDebit

Removed Service: GET /api/v\*/transactions/{ids}

Removed Service: PATCH /api/v\*/transactions/{ids}

Removed Service: GET /api/v\*/webForms/{id}

Removed Service: GET /api/v\*/securities/{ids}

Removed Service: GET /api/v\*/labels/{ids}

Removed Service: GET /api/v\*/categories/{ids}

Removed Service: GET /api/v\*/banks/{ids}

Removed Service: GET /api/v\*/bankConnections/{ids}

Removed Service: GET /api/v\*/accounts/{ids}

Removed Type: BankList

Removed Type: CategoryList

Removed Type: ClearingAccountData

Removed Type: DirectDebitOrderingResponse

Removed Type: ExecuteSepaDirectDebitParams

Removed Type: ExecuteSepaMoneyTransferParams

Removed Type: LabelList

Removed Type: MoneyTransferOrderingResponse

Removed Type: PaymentExecutionResponse

Removed Type: RequestSepaDirectDebitParams

Removed Type: RequestSepaMoneyTransferParams

Removed Type: SecurityList

Removed Type: SingleDirectDebitData

Removed Type: SingleMoneyTransferRecipientData

Removed Type: SupportedDataSource

Removed Type: SupportedOrder

Removed Type: TransactionList

Removed Type: WebForm

Removed Type: WebFormMode

Removed Type: WebFormStatus

## New Type: **RevokeTokenParams**

*Occurs in the following services:*

POST /oauth/revoke -> POST /api/v\*/oauth/revoke

```
{
  "token" : string, // The token that the client wants to get revoked [required]

  "token_type_hint" : string // A hint about the type of the token submitted for revocation [optional] Possible values: ["access_token","refresh_token"]
}
```

Changes in Service: **POST /api/v\*/payments/submit**

» See in the API docs

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<p>API Name: "Submit payment" / SDK Method: submitPayment</p> <p>To use this service PIS must be enabled by our customer support for your client.</p> <p>If you are unlicensed, or licensed but using finAPI's Web Form, this endpoint is not relevant to you. The workflow has been simplified. Please use the endpoint <a &gt;here<="" a="" href="?product=web_form_2.0#tag--Payment-Initiation-Services" target="_blank"> to initiate (create and also submit) payments (money transfers + direct debits)!</a></p> <p>Submit a payment to the bank which was previously created with either the createMoneyTransfer or createDirectDebit service.</p> <p>Before you submit the payment, please check that the given bank interface supports the required payment capabilities, otherwise the payment could get rejected.</p> <p>If the account has been imported via finAPI, then you could check the capabilities on the account level. Please refer to the field AccountInterface.capabilities.</p> <p>In case the payment is initiated from a given IBAN, please refer to the field BankInterface.paymentCapabilities to be sure the payment type you are creating is currently supported by the bank.</p> <p>Usually banks require a multi-step authentication to authorize the payment. In this case, <b>and if the finAPI Web Form flow is not used,</b> the service will respond with HTTP code 510 and an error object containing a multiStepAuthentication object which describes the necessary next authentication steps. You must then retry the service call, passing the same arguments plus an additional 'multiStepAuthentication' element.</p> <p>Please refer to the description of the HTTP 510 error code below and the documentation of the 'MultiStepAuthenticationCallback' response object for details.</p>	<p>API Name: "Submit payment" / SDK Method: submitPayment</p> <p>To use this service PIS must be enabled by our customer support for your client.</p> <p>If you are unlicensed, or licensed but using finAPI's Web Form, this endpoint is not relevant to you. The workflow has been simplified. Please use the endpoint <a &gt;here<="" a="" href="?product=web_form_2.0#tag--Payment-Initiation-Services" target="_blank"> to initiate (create and also submit) payments (money transfers + direct debits)!</a></p> <p>Submit a payment to the bank which was previously created with either the createMoneyTransfer or createDirectDebit service.</p> <p>Before you submit the payment, please check that the given bank interface supports the required payment capabilities, otherwise the payment could get rejected.</p> <p>If the account has been imported via finAPI, then you could check the capabilities on the account level. Please refer to the field AccountInterface.capabilities.</p> <p>In case the payment is initiated from a given IBAN, please refer to the field BankInterface.paymentCapabilities to be sure the payment type you are creating is currently supported by the bank.</p> <p>Usually banks require a multi-step authentication to authorize the payment. In this case, the service will respond with HTTP code 510 and an error object containing a multiStepAuthentication object which describes the necessary next authentication steps. You must then retry the service call, passing the same arguments plus an additional 'multiStepAuthentication' element.</p> <p>Please refer to the description of the HTTP 510 error code below and the documentation of the 'MultiStepAuthenticationCallback' response object for details.</p>

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**NOTE (THIS LOGIC IS DEPRECATED AND WILL BE REMOVED):**

Depending on your license, this service may respond with HTTP code 451, containing an error message with an identifier of Web Form in it. In addition to that the response will also have included a 'Location' header, which contains the URL to the Web Form. In this case, you must forward your user to finAPI's Web Form.

ATTENTION: For XS2A interface additional headers must be included in the request if the end user is involved. Please refer to the  [section under 'General Information' of the API documentation.](#general-user-metadata)

*<No changes in Parameter list>*

**Responses:**

**451 THIS HTTP RESPONSE CODE IS DEPRECATED AND WILL BE REMOVED.** Instead please refer to our Web Form offering [. In case the user must enter credentials within finAPI's Web Form,](?product=web_form_2.0)

returns: ErrorMessage

Example Definition: http451ResponseExample

**Headers:**

**Location - THIS HEADER IS DEPRECATED AND WILL BE REMOVED.** Contains the URL to the Web Form. You must forward the user to this url to open finAPI's Web Form.

**X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.**

422 ILLEGAL\_ENTITY\_STATE: - if finAPI supports only web scraping for the bank, but web scraping is disabled for the client; - if not all login fields required by the bank connection interface are provided; - if the given interface doesn't exist for the account or

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ATTENTION: For XS2A interface additional headers must be included in the request if the end user is involved. Please refer to the  [section under 'General Information' of the API documentation.](#general-user-metadata)

*<No changes in Parameter list>*

**Responses:**

422 ILLEGAL\_ENTITY\_STATE: - if finAPI supports only web scraping for the bank, but web scraping is disabled for the client; - if not all login fields required by the bank connection interface are provided; - if the given interface doesn't exist for the account or has deprecated status; ILLEGAL\_FIELD\_VALUE: - if 'redirectUrl' is not given, but the bank connection's interface has the REDIRECT\_APPROACH property set; - if 'redirectUrl' is given, but the bank connection's interface doesn't have the REDIRECT\_APPROACH property set; ILLEGAL\_ENTITY\_STATE: - if the mandator is not configured correctly to use this service. Please contact our support; - if the payment is in a status that does not support the given request;

UNSUPPORTED\_ORDER: - if the given interface doesn't have the required capabilities to submit the payment; or if the payment relates to a bank that is unknown or not available to you. UNSUPPORTED\_FEATURE: - if the bank rejects the payment because it requires a feature that the bank does not support (e.g.

FUTURE\_DATED\_PAYMENT); BANK\_SERVER\_REJECTION: - if the bank rejects the payment for an unexpected/unknown reason; NO\_EXISTING\_CHALLENGE in case the 'multiStepAuthentication.challengeResponse' field was set, but there is no pending challenge;

returns: ErrorMessage

Example Definition: http422ResponseExample

Headers:

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<p>has deprecated status;&lt;br/&gt;ILLEGAL_FIELD_VALUE:&lt;br/&gt; - if 'redirectUrl' is not given, but the bank connection's interface has the REDIRECT_APPROACH property set;&lt;br/&gt; - if 'redirectUrl' is given, but the bank connection's interface doesn't have the REDIRECT_APPROACH property set <b>or the Web Form flow is used</b></p> <p>&lt;br/&gt;ILLEGAL_ENTITY_STATE:&lt;br/&gt; - if the mandator is not configured correctly to use this service. Please contact our support;&lt;br/&gt;UNSUPPORTED_ORDER:&lt;br/&gt; - if the given interface doesn't have the required capabilities to submit the payment; or if the payment relates to a bank that is unknown or not available to you.&lt;br/&gt;UNSUPPORTED_FEATURE:&lt;br/&gt; - if the bank rejects the payment because it requires a feature that the bank does not support (e.g. FUTURE_DATED_PAYMENT);&lt;br/&gt;BANK_SERVER_REJECTION:&lt;br/&gt;- if the bank rejects the payment for an unexpected/unknown reason;&lt;br/&gt;NO_EXISTING_CHALLENGE in case the 'multiStepAuthentication.challengeResponse' field was set, but there is no pending challenge;&lt;br/&gt;</p> <p>returns: ErrorMessage</p> <p>Example Definition: http422ResponseExample</p> <p>Headers:</p> <p>X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.</p> <p>&lt;br/&gt;</p> <p>&lt;No other changes in Responses&gt;</p>	<p>X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.</p> <p>&lt;br/&gt;</p> <p>&lt;No other changes in Responses&gt;</p>

Changes in Service: **POST /oauth/token -> POST /api/v\*/oauth/token**

» See in the API docs

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<p>API Name: "Get tokens" / SDK Method: getToken</p> <p>finAPI implements the OAuth 2.0 Standard for authorizing applications and users within applications. OAuth uses the terminology of clients and users. A client represents an application that calls finAPI services. A service call might be in the context of a user of the client (e.g.: getting a user's bank connections), or outside any user context (e.g.: editing your client's configuration, or creating a new user for your client). In any case, every service call must be authorized by an access_token. This service can be used to get such an access_token, for either one of the client's users, or for the client itself. Also, this service can be used to refresh the access_token of a user that has previously requested an access_token.</p> <p>To get a token, you must always pass a valid client identifier and client secret (=client credentials). You can get free client credentials for the sandbox &lt;a href='http://www.finapi.io/jetzt-testen/' target='_blank'&gt;here&lt;/a&gt;. Alternatively, you can also contact us at &lt;a href='mailto:support@finapi.io'&gt;support@finapi.io&lt;/a&gt;.</p> <p>The authorization process is similar for both a user within a client, and for the client itself:</p> <ul style="list-style-type: none"><li>- To authorize a client (i.e. application), use &lt;code&gt;grant_type=client_credentials&lt;/code&gt;</li><li>- To authorize a user, use &lt;code&gt;grant_type=password&lt;/code&gt;</li></ul> <p>If the given parameters are valid, the service will respond with the authorization data.</p> <p>Here is an example of a response when authorizing a user:</p> <pre>{   "access_token":   "yvMbx_TgwdYE0hgOVb8N4ZOvxOukqfjzYOGZRcJiCjQuRGkVIBfjV3YG4zKTGiY2aPn2cQ   TGaQOT8uo5uo7_QOXts1s5UBSVuRHc6a8X30RrGBTyqV9h26SUHcZPNbZ",   "token_type": "bearer",</pre>	<p>API Name: "Get tokens" / SDK Method: getToken</p> <p>finAPI implements the OAuth 2.0 Standard for authorizing applications and users within applications. OAuth uses the terminology of clients and users. A client represents an application that calls finAPI services. A service call might be in the context of a user of the client (e.g.: getting a user's bank connections), or outside any user context (e.g.: editing your client's configuration, or creating a new user for your client). In any case, every service call must be authorized by an access_token. This service can be used to get such an access_token, for either one of the client's users, or for the client itself. Also, this service can be used to refresh the access_token of a user that has previously requested an access_token.</p> <p>To get a token, you must always pass a valid client identifier and client secret (=client credentials). You can get free client credentials for the sandbox &lt;a href='http://www.finapi.io/jetzt-testen/' target='_blank'&gt;here&lt;/a&gt;. Alternatively, you can also contact us at &lt;a href='mailto:support@finapi.io'&gt;support@finapi.io&lt;/a&gt;.</p> <p>The authorization process is similar for both a user within a client, and for the client itself:</p> <ul style="list-style-type: none"><li>- To authorize a client (i.e. application), use &lt;code&gt;grant_type=client_credentials&lt;/code&gt;</li><li>- To authorize a user, use &lt;code&gt;grant_type=password&lt;/code&gt;</li></ul> <p>If the given parameters are valid, the service will respond with the authorization data.</p> <p>Here is an example of a response when authorizing a user:</p> <pre>{   "access_token":   "yvMbx_TgwdYE0hgOVb8N4ZOvxOukqfjzYOGZRcJiCjQuRGkVIBfjV3YG4zKTGiY2aPn2cQ   TGaQOT8uo5uo7_QOXts1s5UBSVuRHc6a8X30RrGBTyqV9h26SUHcZPNbZ",</pre>

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<pre> "refresh_token": "0b9KjiBVIZLz7a4HshSAIcFuscStiXT1VzT5mgNYwCQ_dWctTdsaljedAhD1LpsOFJ7x6K8Em f8M3VOQkwNFR9FHijALYSQw2UeRwAC2MvrOKwF1dHmOq5VEVYEaGf6", "expires_in": 3600, "scope": "all" } </pre> <p>Use the returned access_token for other service calls by sending it in a 'Authorization' header, with the word 'Bearer' in front of the token. Like this:</p> <p>Authorization: Bearer  yvmBx_TgwdYE0hgOVb8N4ZOvxOukqfjzYOGRZcJiCjQuRGkVIBfjV3YG4zKTGiY2aPn2cQT  GaQOT8uo5uo7_QOXts1s5UBSVuRHc6a8X30RrGBTyqV9h26SUHcZPNbZ</p> <p><b>WARNING: Sending the access_token as a request parameter is deprecated and will probably be no longer supported in the next release of finAPI. Please always send the access_token in the request header, as shown above.</b></p> <p>By default, the access tokens have an expiration time of one hour (however, you can change this via the service PATCH /clientConfiguration). If a token has expired, then using the token for a service call will result in a HTTP code 401. To restore access you can simply get a new token (as it is described above) or use <code>&lt;code&gt;grant_type=refresh_token&lt;/code&gt;</code> (which works for user-related tokens only). In the latter case you just have to pass the previously received <code>&lt;code&gt;refresh_token&lt;/code&gt;</code> for the user.</p> <p>If explicit user verification is required (the 'isUserAutoVerificationEnabled' flag in the client configuration is set to false, see Client Configuration) and the user that you want to authorize is not yet verified by the client (see Verify a User), then the service will respond with HTTP code 403. If the user is locked (see 'maxUserLoginAttempts' in the Client Configuration), the service will respond with HTTP code 423.</p> <p>If the current role has no privileges to call a certain service (e.g. if a user tries to create a new user, or if a client tries to access user data outside of any user context), then the request will fail with the HTTP code 403.</p> <p><b>IMPORTANT NOTES:</b></p>	<pre> "token_type": "bearer", "refresh_token": "0b9KjiBVIZLz7a4HshSAIcFuscStiXT1VzT5mgNYwCQ_dWctTdsaljedAhD1LpsOFJ7x6K8Em f8M3VOQkwNFR9FHijALYSQw2UeRwAC2MvrOKwF1dHmOq5VEVYEaGf6", "expires_in": 3600, "scope": "all" } </pre> <p>Use the returned access_token for other service calls by sending it in a 'Authorization' header, with the word 'Bearer' in front of the token. Like this:</p> <p>Authorization: Bearer  yvmBx_TgwdYE0hgOVb8N4ZOvxOukqfjzYOGRZcJiCjQuRGkVIBfjV3YG4zKTGiY2aPn2cQT  GaQOT8uo5uo7_QOXts1s5UBSVuRHc6a8X30RrGBTyqV9h26SUHcZPNbZ</p> <p>By default, the access tokens have an expiration time of one hour (however, you can change this via the service PATCH /clientConfiguration). If a token has expired, then using the token for a service call will result in a HTTP code 401. To restore access you can simply get a new token (as it is described above) or use <code>&lt;code&gt;grant_type=refresh_token&lt;/code&gt;</code> (which works for user-related tokens only). In the latter case you just have to pass the previously received <code>&lt;code&gt;refresh_token&lt;/code&gt;</code> for the user.</p> <p>If explicit user verification is required (the 'isUserAutoVerificationEnabled' flag in the client configuration is set to false, see Client Configuration) and the user that you want to authorize is not yet verified by the client (see Verify a User), then the service will respond with HTTP code 403. If the user is locked (see 'maxUserLoginAttempts' in the Client Configuration), the service will respond with HTTP code 423.</p> <p>If the current role has no privileges to call a certain service (e.g. if a user tries to create a new user, or if a client tries to access user data outside of any user context), then the request will fail with the HTTP code 403.</p> <p>You should use this service only when you actually need a new token. As long as a token exists and has not expired, the service will always return the same token for the same credentials. Calling this service repeatedly with the same credentials contradicts the idea</p>

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<p data-bbox="107 209 1059 320"><b>- Even though finAPI is not logging query parameters, it is still recommended to pass the parameters in the POST body instead of in the URL. Also, please set the Content-Type of your request to 'application/x-www-form-urlencoded' when calling this service.</b></p> <p data-bbox="107 336 1099 663">■ You should use this service only when you actually need a new token. As long as a token exists and has not expired, the service will always return the same token for the same credentials. Calling this service repeatedly with the same credentials contradicts the idea behind the tokens in OAuth, and will have a negative impact on the performance of your application. So instead of retrieving the same tokens over and over with this service, you should cache the tokens and re-use them as long as they have not expired - or at least as long as you're using the same tokens repeatedly, e.g. for the time of an active user session in your application.</p> <p data-bbox="107 767 443 791"><i>&lt;No changes in Parameter list&gt;</i></p> <p data-bbox="107 852 416 876"><i>&lt;No changes in Responses&gt;</i></p>	<p data-bbox="1131 209 2123 408">behind the tokens in OAuth, and will have a negative impact on the performance of your application. So instead of retrieving the same tokens over and over with this service, you should cache the tokens and re-use them as long as they have not expired - or at least as long as you're using the same tokens repeatedly, e.g. for the time of an active user session in your application.</p> <p data-bbox="1131 512 1469 536"><i>&lt;No changes in Parameter list&gt;</i></p> <p data-bbox="1131 596 1442 620"><i>&lt;No changes in Responses&gt;</i></p>

Changes in Service: **POST /oauth/revoke -> POST /api/v\*/oauth/revoke**

» See in the API docs

V1 2022.42.1	V2 2022.42.1
<p>API Name: "Revoke a token" / SDK Method: revokeToken</p> <p>An additional endpoint for the OAuth 2.0 Standard, which allows clients to notify finAPI that a previously obtained refresh_token or access_token is no longer required. A successful request will invalidate the given token. The revocation of a particular token may also cause the revocation of related tokens and the underlying authorization grant. For token_type_hint=access_token finAPI will invalidate only the given access_token. For token_type_hint=refresh_token, finAPI will invalidate the refresh token and all access tokens based on the same authorization grant. If the token_type_hint is not defined, finAPI will revoke all access and refresh tokens (if applicable) that are based on the same authorization grant.</p> <p>Note that the service responds with HTTP status code 200 both if the token has been revoked successfully, and if the client submitted an invalid token.</p> <p>Note also that the client's access_token is required to authenticate the revocation.</p> <p>Here is an example of how to revoke a user's refresh_token (and therefore also his access tokens): Authorization: Bearer {client_access_token} POST /oauth/revoke?token={refresh_token}&amp;token_type_hint=refresh_token <b>Parameters:</b> <b>token : string (required)</b> <b>The token that the client wants to get revoked</b>  <b>token_type_hint : string (optional)</b> <b>A hint about the type of the token submitted for revocation</b></p> <p>&lt;No other changes in Parameter list&gt;</p>	<p>API Name: "Revoke a token" / SDK Method: revokeToken</p> <p>An additional endpoint for the OAuth 2.0 Standard, which allows clients to notify finAPI that a previously obtained refresh_token or access_token is no longer required. A successful request will invalidate the given token. The revocation of a particular token may also cause the revocation of related tokens and the underlying authorization grant. For token_type_hint=access_token finAPI will invalidate only the given access_token. For token_type_hint=refresh_token, finAPI will invalidate the refresh token and all access tokens based on the same authorization grant. If the token_type_hint is not defined, finAPI will revoke all access and refresh tokens (if applicable) that are based on the same authorization grant.</p> <p>Note that the service responds with HTTP status code 200 both if the token has been revoked successfully, and if the client submitted an invalid token.</p> <p>Note also that the client's access_token is required to authenticate the revocation.</p> <p>Here is an example of how to revoke a user's refresh_token (and therefore also his access tokens): Authorization: Bearer {client_access_token} <b>Content-Type: application/x-www-form-urlencoded</b> POST /oauth/revoketoken={refresh_token}&amp;token_type_hint=refresh_token <b>NOTE: The Content-Type of the request must be set to 'application/x-www-form-urlencoded'</b> <b>Parameters:</b> <b>body : RevokeTokenParams (required)</b></p> <p>&lt;No other changes in Parameter list&gt;</p>

<b>V1 2022.42.1</b>	<b>V2 2022.42.1</b>
<No changes in Responses>	<No changes in Responses>

Changes in Service: **POST** /api/v\*/bankConnections/update

» See in the API docs

V1 2022.42.1	V2 2022.42.1
<p>API Name: "Update a bank connection" / SDK Method: updateBankConnection</p> <p>If you are unlicensed, or licensed but using finAPI's Web Form, this endpoint is not relevant to you. Instead, please refer to the endpoint <a &gt;here<="" a="" href="?product=web_form_2.0#post-/api/tasks/backgroundUpdate" target="_blank">.</a></p> <p>Update an existing bank connection of the user that is authorized by the access_token. Downloads and imports the current account balances and new transactions. Note that if the bank connection has several interfaces and some of its accounts was previously imported or updated via an interface which have higher priority than the interface used in the current update, then balances and transactions will not be downloaded for such accounts (The XS2A interface has the highest priority, followed by FINTS_SERVER and finally WEB_SCRAPER). Must pass the connection's identifier and the user's access_token. For more information about the processes of authentication, data download and transaction categorization, see POST /bankConnections/import. Note that supported two-step-procedures are updated as well. It may unset the current default two-step-procedure of the given bank connection (but only if this procedure is not supported anymore by the bank). You can also update the "demo connection" (in this case, secret login credentials and the fields 'importNewAccounts' and 'skipPositionsDownload' will be ignored).</p> <p>Note that you cannot trigger an update of a bank connection as long as there is still a previously triggered update running.</p> <p>For a more in-depth understanding of the update process, please also read this page on our Access Public Documentation: <a &gt;post="" a="" account="" bank="" href="https://documentation.finapi.io/access/Post-Processing-of-Bank-Account-Import%2FUpdate.2766405656.html" import="" of="" processing="" target="_blank" update<=""></a></p>	<p>API Name: "Update a bank connection" / SDK Method: updateBankConnection</p> <p>If you are unlicensed, or licensed but using finAPI's Web Form, this endpoint is not relevant to you. Instead, please refer to the endpoint <a &gt;here<="" a="" href="?product=web_form_2.0#post-/api/tasks/backgroundUpdate" target="_blank">.</a></p> <p>Update an existing bank connection of the user that is authorized by the access_token. Downloads and imports the current account balances and new transactions. Note that if the bank connection has several interfaces and some of its accounts was previously imported or updated via an interface which have higher priority than the interface used in the current update, then balances and transactions will not be downloaded for such accounts (The XS2A interface has the highest priority, followed by FINTS_SERVER and finally WEB_SCRAPER). Must pass the connection's identifier and the user's access_token. For more information about the processes of authentication, data download and transaction categorization, see POST /bankConnections/import. Note that supported two-step-procedures are updated as well. It may unset the current default two-step-procedure of the given bank connection (but only if this procedure is not supported anymore by the bank). You can also update the "demo connection" (in this case, secret login credentials and the fields 'importNewAccounts' and 'skipPositionsDownload' will be ignored).</p> <p>Note that you cannot trigger an update of a bank connection as long as there is still a previously triggered update running.</p> <p>For a more in-depth understanding of the update process, please also read this page on our Access Public Documentation: <a &gt;post="" a="" account="" bank="" href="https://documentation.finapi.io/access/Post-Processing-of-Bank-Account-Import%2FUpdate.2766405656.html" import="" of="" processing="" target="_blank" update<=""></a></p>

V1 2022.42.1

**NOTE (THIS LOGIC IS DEPRECATED AND WILL BE REMOVED):**

Depending on your license, this service may respond with HTTP code 451, containing an error message with an identifier of Web Form in it. In addition to that the response will also have included a 'Location' header, which contains the URL to the Web Form. In this case, you must forward your user to finAPI's Web Form.

ATTENTION: For XS2A interface additional headers must be included in the request if the end user is involved. Please refer to the [User metadata](#general-user-metadata) section under 'General Information' of the API documentation. Due to bank-side changes we have been forced to limit the transactions download range to 89 days, to reduce the risk of strong customer authentication (SCA) requests. Now any update of a bank connection will fetch at most the last three months of transactions per account. If the last successful update was more than 3 months ago, an adjusting entry ('Zwischensaldo' transaction) might be created.

*<No changes in Parameter list>*

**Responses:**

**451 THIS HTTP RESPONSE CODE IS DEPRECATED AND WILL BE REMOVED.** Instead please refer to our Web Form offering [here](?product=web_form_2.0). In case the user must enter credentials within finAPI's Web Form.

returns: ErrorMessage

Example Definition: http451ResponseExample

**Headers:**

**Location - THIS HEADER IS DEPRECATED AND WILL BE REMOVED.** Contains the URL to the Web Form. You must forward the user to this url to open finAPI's Web Form.

**X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID**

V2 2022.42.1

ATTENTION: For XS2A interface additional headers must be included in the request if the end user is involved. Please refer to the [User metadata](#general-user-metadata) section under 'General Information' of the API documentation. Due to bank-side changes we have been forced to limit the transactions download range to 89 days, to reduce the risk of strong customer authentication (SCA) requests.

Now any update of a bank connection will fetch at most the last three months of transactions per account. If the last successful update was more than 3 months ago, an adjusting entry ('Zwischensaldo' transaction) might be created.

*<No changes in Parameter list>*

**Responses:**

422 MISSING\_FIELD if the credentials (stored in finAPI and provided in the request) do not contain at least one non-secret and one secret field; ILLEGAL\_FIELD\_VALUE: - if any of the specified credentials contain illegal characters; - if you tried to update a bank connection with an invalid credential label; - if the bank connection's credentials were tried to be changed, but the new credentials are equal to the credentials of another existing bank connection of the same bank; - if the given 'accountReferences' contain a wrong IBAN; - if 'redirectUrl' is not given, but the bank connection has the REDIRECT\_APPROACH property set; ILLEGAL\_ENTITY\_STATE: - if finAPI supports only web scraping for the bank, but web scraping is disabled for the client; - if the mandator is not configured correctly to use this service. Please contact our support; **if 'importNewAccounts' was set to true, but the bank connection interface's 'aisConsent' has supportsImportNewAccounts set to false;** BANK\_SERVER\_REJECTION if the bank server responded with an error message when finAPI tried to retrieve the user's data. The response's error message typically contains useful information from the bank (like that the given login credentials were not correct or that the connection is not activated for online banking) and may be forwarded to the user; NO\_EXISTING\_CHALLENGE in case the 'multiStepAuthentication.challengeResponse' field was set, but there is no pending

V1 2022.42.1	V2 2022.42.1
<p>422 MISSING_FIELD if the credentials (stored in finAPI and provided in the request) do not contain at least one non-secret and one secret field;&lt;br/&gt;ILLEGAL_FIELD_VALUE:&lt;br/&gt; - if any of the specified credentials contain illegal characters;&lt;br/&gt; - if you tried to update a bank connection with an invalid credential label;&lt;br/&gt; - if the bank connection's credentials were tried to be changed, but the new credentials are equal to the credentials of another existing bank connection of the same bank;&lt;br/&gt; - if the given 'accountReferences' contain a wrong IBAN;&lt;br/&gt; - if 'redirectUrl' is not given, but the bank connection has the REDIRECT_APPROACH property set;&lt;br/&gt;ILLEGAL_ENTITY_STATE:&lt;br/&gt; - if finAPI supports only web scraping for the bank, but web scraping is disabled for the client;&lt;br/&gt; - if the mandator is not configured correctly to use this service. Please contact our support;&lt;br/&gt;BANK_SERVER_REJECTION if the bank server responded with an error message when finAPI tried to retrieve the user's data. The response's error message typically contains useful information from the bank (like that the given login credentials were not correct or that the connection is not activated for online banking) and may be forwarded to the user;&lt;br/&gt;NO_EXISTING_CHALLENGE in case the 'multiStepAuthentication.challengeResponse' field was set, but there is no pending challenge;&lt;br/&gt;INVALID_CONSENT if access data of the bank connection has already expired. Please retry the call to request a new consent.</p> <p>returns: ErrorMessage</p> <p>Example Definition: http422ResponseExample</p> <p>Headers:</p> <p>X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.</p> <p>&lt;No other changes in Responses&gt;</p>	<p>challenge;&lt;br/&gt;INVALID_CONSENT if access data of the bank connection has already expired. Please retry the call to request a new consent.</p> <p>returns: ErrorMessage</p> <p>Example Definition: http422ResponseExample</p> <p>Headers:</p> <p>X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.</p> <p>&lt;No other changes in Responses&gt;</p>

Changes in Service: **POST /api/v\*/bankConnections/import**

» See in the API docs

V1 2022.42.1	V2 2022.42.1
<p>&lt;No changes in API Name, SDK Method Name, or description&gt;</p> <p>&lt;No changes in Parameter list&gt;</p> <p><b>Responses:</b></p> <p><b>451 THIS HTTP RESPONSE CODE IS DEPRECATED AND WILL BE REMOVED.</b>&lt;br/&gt;Instead please refer to our Web Form offering &lt;a href="?product=web_form_2.0"&gt;here&lt;/a&gt;.&lt;br/&gt;&lt;br/&gt;In case the user must enter credentials within finAPI's Web Form.</p> <p><b>returns: ErrorMessage</b></p> <p><b>Example Definition: http451ResponseExample</b></p> <p><b>Headers:</b></p> <p><b>Location - THIS HEADER IS DEPRECATED AND WILL BE REMOVED.</b>&lt;br/&gt;&lt;br/&gt;Contains the URL to the Web Form. You must forward the user to this url to open finAPI's Web Form.</p> <p><b>X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.</b></p> <p>&lt;No other changes in Responses&gt;</p>	<p>&lt;No changes in API Name, SDK Method Name, or description&gt;</p> <p>&lt;No changes in Parameter list&gt;</p> <p><b>Responses:</b></p> <p>&lt;See old version&gt;</p>

## Changes in Service: POST /api/v\*/bankConnections/connectInterface

» [See in the API docs](#)

V1 2022.42.1	V2 2022.42.1
<p>API Name: "Connect a new interface" / SDK Method: connectInterface</p> <p>If you are unlicensed, or licensed but using finAPI's Web Form, this endpoint is not relevant to you. Instead, please refer to the endpoint <a &gt;here<="" a="" href="?product=web_form_2.0#post-/api/tasks/backgroundUpdate" target="_blank">.</a></p> <p>Connects a new interface to an existing bank connection for a specific user. Must pass the connection credentials and the user's access_token. All bank accounts will be downloaded and imported with their current balances, transactions and supported two-step-procedures (note that the amount of available transactions may vary between banks, e.g. some banks deliver all transactions from the past year, others only deliver the transactions from the past three months). The balance and transactions download process runs asynchronously, so this service may return before all balances and transactions have been imported. Also, all downloaded transactions will be categorized by a separate background process that runs asynchronously too. To check the status of the balance and transactions download process as well as the background categorization process, see the status flags that are returned by the GET /bankConnections/&amp;id&amp;gt; service.</p> <p><b>NOTE (THIS LOGIC IS DEPRECATED AND WILL BE REMOVED):</b> Depending on your license, this service may respond with HTTP code 451, containing an error message with an identifier of Web Form in it. In addition to that the response will also have included a 'Location' header, which contains the URL to the Web Form. In this case, you must forward your user to finAPI's Web Form.</p> <p>ATTENTION:&lt;ul&gt;&lt;li&gt;For XS2A interface additional headers must be included in the request if the end user is involved. Please refer to the <a &gt;user="" a="" href="#general-user-metadata" metadata<=""> section under 'General Information' of the API documentation.&lt;/li&gt;&lt;li&gt;Due to</a></p>	<p>API Name: "Connect a new interface" / SDK Method: connectInterface</p> <p>If you are unlicensed, or licensed but using finAPI's Web Form, this endpoint is not relevant to you. Instead, please refer to the endpoint <a &gt;here<="" a="" href="?product=web_form_2.0#post-/api/tasks/backgroundUpdate" target="_blank">.</a></p> <p>Connects a new interface to an existing bank connection for a specific user. Must pass the connection credentials and the user's access_token. All bank accounts will be downloaded and imported with their current balances, transactions and supported two-step-procedures (note that the amount of available transactions may vary between banks, e.g. some banks deliver all transactions from the past year, others only deliver the transactions from the past three months). The balance and transactions download process runs asynchronously, so this service may return before all balances and transactions have been imported. Also, all downloaded transactions will be categorized by a separate background process that runs asynchronously too. To check the status of the balance and transactions download process as well as the background categorization process, see the status flags that are returned by the GET /bankConnections/&amp;id&amp;gt; service.</p> <p>ATTENTION:&lt;ul&gt;&lt;li&gt;For XS2A interface additional headers must be included in the request if the end user is involved. Please refer to the <a &gt;user="" a="" href="#general-user-metadata" metadata<=""> section under 'General Information' of the API documentation.&lt;/li&gt;&lt;li&gt;Due to bank-side changes we have been forced to limit the transactions download range to 89 days, to reduce the risk of strong customer authentication (SCA) requests. If you have implemented the SCA flow, please contact us, so that we can remove this limitation from your client.&lt;/li&gt;&lt;/ul&gt;</a></p> <p>&lt;No changes in Parameter list&gt;</p>

**V1 2022.42.1**

bank-side changes we have been forced to limit the transactions download range to 89 days, to reduce the risk of strong customer authentication (SCA) requests.

If you have implemented the SCA flow, please contact us, so that we can remove this limitation from your client.

<No changes in Parameter list>

**Responses:**

**451 THIS HTTP RESPONSE CODE IS DEPRECATED AND WILL BE REMOVED.** Instead please refer to our Web Form offering [here](?product=web_form_2.0). In case the user must enter credentials within finAPI's Web Form,

returns: ErrorMessage

Example Definition: http451ResponseExample

**Headers:**

**Location** - THIS HEADER IS DEPRECATED AND WILL BE REMOVED. Contains the URL to the Web Form. You must forward the user to this url to open finAPI's Web Form.

**X-Request-Id** - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

<No other changes in Responses>

**V2 2022.42.1****Responses:**

<See old version>

## Changes in Service: **GET** /api/v\*/transactions

» [See in the API docs](#)

V1 2022.42.1	V2 2022.42.1
<p data-bbox="107 336 784 363">&lt;No changes in API Name, SDK Method Name, or description&gt;</p> <p data-bbox="107 422 246 450"><b>Parameters:</b></p> <p data-bbox="107 464 524 491">minBankBookingDate : string (optional)</p> <p data-bbox="107 505 555 533">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="107 547 1097 662">Lower bound for a transaction's booking date as returned by the bank (= original booking date), e.g. '2016-01-01'. If specified, then only transactions whose 'bankBookingDate' is equal to or later than the given date will be regarded.</p> <p data-bbox="107 721 524 748">maxBankBookingDate : string (optional)</p> <p data-bbox="107 762 555 790">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="107 804 1097 919">Upper bound for a transaction's booking date as returned by the bank (= original booking date), e.g. '2016-01-01'. If specified, then only transactions whose 'bankBookingDate' is equal to or earlier than the given date will be regarded.</p> <p data-bbox="107 978 524 1005">minFinapiBookingDate : string (optional)</p> <p data-bbox="107 1019 555 1046">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="107 1061 1075 1176">Lower bound for a transaction's booking date as set by finAPI, e.g. '2016-01-01'. For details about the meaning of the finAPI booking date, please see the field's documentation in the service's response.</p> <p data-bbox="107 1235 524 1262">maxFinapiBookingDate : string (optional)</p> <p data-bbox="107 1276 555 1303">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="107 1318 1075 1433">Upper bound for a transaction's booking date as set by finAPI, e.g. '2016-01-01'. For details about the meaning of the finAPI booking date, please see the field's documentation in the service's response.</p>	<p data-bbox="1137 336 1814 363">&lt;No changes in API Name, SDK Method Name, or description&gt;</p> <p data-bbox="1137 422 1276 450"><b>Parameters:</b></p> <p data-bbox="1137 464 1612 491">minBankBookingDate : string <b>[date]</b> (optional)</p> <p data-bbox="1137 505 1581 533">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="1137 547 2128 662">Lower bound for a transaction's booking date as returned by the bank (= original booking date), e.g. '2016-01-01'. If specified, then only transactions whose 'bankBookingDate' is equal to or later than the given date will be regarded.</p> <p data-bbox="1137 721 1612 748">maxBankBookingDate : string <b>[date]</b> (optional)</p> <p data-bbox="1137 762 1581 790">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="1137 804 2128 919">Upper bound for a transaction's booking date as returned by the bank (= original booking date), e.g. '2016-01-01'. If specified, then only transactions whose 'bankBookingDate' is equal to or earlier than the given date will be regarded.</p> <p data-bbox="1137 978 1612 1005">minFinapiBookingDate : string <b>[date]</b> (optional)</p> <p data-bbox="1137 1019 1581 1046">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="1137 1061 2105 1176">Lower bound for a transaction's booking date as set by finAPI, e.g. '2016-01-01'. For details about the meaning of the finAPI booking date, please see the field's documentation in the service's response.</p> <p data-bbox="1137 1235 1612 1262">maxFinapiBookingDate : string <b>[date]</b> (optional)</p> <p data-bbox="1137 1276 1581 1303">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="1137 1318 2105 1433">Upper bound for a transaction's booking date as set by finAPI, e.g. '2016-01-01'. For details about the meaning of the finAPI booking date, please see the field's documentation in the service's response.</p>

V1 2022.42.1	V2 2022.42.1
<p>minImportDate : string (optional) &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Lower bound for a transaction's import date, e.g. '2016-01-01'. If specified, then only transactions whose 'importDate' is equal to or later than the given date will be regarded.</p> <p>maxImportDate : string (optional) &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Upper bound for a transaction's import date, e.g. '2016-01-01'. If specified, then only transactions whose 'importDate' is equal to or earlier than the given date will be regarded.</p> <p>&lt;No other changes in Parameter list&gt;</p> <p>&lt;No changes in Responses&gt;</p>	<p>minImportDate : string <b>[date]</b> (optional) &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Lower bound for a transaction's import date, e.g. '2016-01-01'. If specified, then only transactions whose 'importDate' is equal to or later than the given date will be regarded.</p> <p>maxImportDate : string <b>[date]</b> (optional) &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Upper bound for a transaction's import date, e.g. '2016-01-01'. If specified, then only transactions whose 'importDate' is equal to or earlier than the given date will be regarded.</p> <p>&lt;No other changes in Parameter list&gt;</p> <p>&lt;No changes in Responses&gt;</p>

Changes in Service: **DELETE** /api/v\*/transactions

» [See in the API docs](#)

V1 2022.42.1	V2 2022.42.1
<p data-bbox="107 336 784 363">&lt;No changes in API Name, SDK Method Name, or description&gt;</p> <p data-bbox="107 422 246 450"><b>Parameters:</b></p> <p data-bbox="107 464 479 491">maxDeletionDate : string (optional)</p> <p data-bbox="107 505 555 533">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="107 547 1102 662">If specified, then only those transactions are being deleted whose 'finapiBookingDate' is equal to or earlier to the given date. The date may not be in future. If not specified, then no date limitation will be in place for the deletion.</p> <p data-bbox="107 721 450 748">minImportDate : string (optional)</p> <p data-bbox="107 762 555 790">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="107 804 1102 1093">If specified, then only those transactions are being deleted whose 'importDate' is later than or equal to the given date. The date may not be in future. This is useful e.g. if a bank returns incorrect transactions and then fixes that issue. Then you could put the date when the error was first observed as 'minImportDate'. This would lead to deletion of all transactions after the issue was introduced and allow finAPI to refetch them from scratch. This only works if safeMode is set to false and 'rememberDeletion' is undefined or set to false. You also can not use this parameter alongside 'maxDeletionDate'.</p> <p data-bbox="107 1152 506 1179">&lt;No other changes in Parameter list&gt;</p> <p data-bbox="107 1238 416 1265">&lt;No changes in Responses&gt;</p>	<p data-bbox="1137 336 1814 363">&lt;No changes in API Name, SDK Method Name, or description&gt;</p> <p data-bbox="1137 422 1276 450"><b>Parameters:</b></p> <p data-bbox="1137 464 1570 491">maxDeletionDate : string <b>[date]</b> (optional)</p> <p data-bbox="1137 505 1585 533">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="1137 547 2132 662">If specified, then only those transactions are being deleted whose 'finapiBookingDate' is equal to or earlier to the given date. The date may not be in future. If not specified, then no date limitation will be in place for the deletion.</p> <p data-bbox="1137 721 1545 748">minImportDate : string <b>[date]</b> (optional)</p> <p data-bbox="1137 762 1585 790">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="1137 804 2132 1093">If specified, then only those transactions are being deleted whose 'importDate' is later than or equal to the given date. The date may not be in future. This is useful e.g. if a bank returns incorrect transactions and then fixes that issue. Then you could put the date when the error was first observed as 'minImportDate'. This would lead to deletion of all transactions after the issue was introduced and allow finAPI to refetch them from scratch. This only works if safeMode is set to false and 'rememberDeletion' is undefined or set to false. You also can not use this parameter alongside 'maxDeletionDate'.</p> <p data-bbox="1137 1152 1536 1179">&lt;No other changes in Parameter list&gt;</p> <p data-bbox="1137 1238 1447 1265">&lt;No changes in Responses&gt;</p>

Changes in Service: **PATCH** /api/v\*/bankConnections/{id}

» See in the API docs

V1 2022.42.1	V2 2022.42.1
<p>API Name: "Edit a bank connection" / SDK Method: editBankConnection</p> <p>If you are unlicensed, or licensed but using finAPI's Web Form, this endpoint is relevant to you ONLY if you want to update the name of the bank connection. Please check <a &gt;this<="" a="" href="?product=web_form_2.0#post-/api/tasks/backgroundUpdate" target="_blank"> endpoint for all other functionalities instead.</a></p> <p>Edit bank connection data. Must pass the connection's identifier and the user's access_token.</p> <p>Note that a bank connection's credentials cannot be changed while it is in the process of being imported, updated, or connecting a new interface.</p> <p><b>NOTE (THIS LOGIC IS DEPRECATED AND WILL BE REMOVED):</b> Depending on your license, this service may respond with HTTP code 451, containing an error message with an identifier of Web Form in it. In addition to that the response will also have included a 'Location' header, which contains the URL to the Web Form. In this case, you must forward your user to finAPI's Web Form.</p> <p><b> </b></p> <p>&lt;No changes in Parameter list&gt;</p> <p><b>Responses:</b></p> <p><b>451 THIS HTTP RESPONSE CODE IS DEPRECATED AND WILL BE REMOVED.</b> Instead please refer to our Web Form offering <a href="?" product='web_form_2.0"&gt;here&lt;/a'>. In case the user must enter credentials within finAPI's Web Form.</a></p> <p>returns: ErrorMessage</p> <p>Example Definition: http451ResponseExample</p>	<p>API Name: "Edit a bank connection" / SDK Method: editBankConnection</p> <p>If you are unlicensed, or licensed but using finAPI's Web Form, this endpoint is relevant to you ONLY if you want to update the name of the bank connection. Please check <a &gt;this<="" a="" href="?product=web_form_2.0#post-/api/tasks/backgroundUpdate" target="_blank"> endpoint for all other functionalities instead.</a></p> <p>Edit bank connection data. Must pass the connection's identifier and the user's access_token.</p> <p>Note that a bank connection's credentials cannot be changed while it is in the process of being imported, updated, or connecting a new interface.</p> <p>&lt;No changes in Parameter list&gt;</p> <p><b>Responses:</b></p> <p>&lt;See old version&gt;</p>

V1 2022.42.1	V2 2022.42.1
<p><b>Headers:</b></p> <p><b>Location - THIS HEADER IS DEPRECATED AND WILL BE REMOVED.</b> <b>Contains the URL to the Web Form. You must forward the user to this url to open finAPI's Web Form.</b></p> <p><b>X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.</b></p> <p><i>&lt;No other changes in Responses&gt;</i></p>	

Changes in Service: **PATCH** /api/v\*/accounts/{id}

» [See in the API docs](#)

V1 2022.42.1	V2 2022.42.1
<p>&lt;No changes in API Name, SDK Method Name, or description&gt;</p> <p>&lt;No changes in Parameter list&gt;</p> <p><b>Responses:</b> 400 BAD_REQUEST if request is incorrect; MISSING_FIELD if neither a name, nor a type, nor the 'isNew' flag were specified; <b>UNKNOWN_ENTITY if the given account type id does not exist</b>; ILLEGAL_FIELD_VALUE if the given account type is invalid returns: ErrorMessage Example Definition: http400ResponseExample Headers: X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.</p> <p>&lt;No other changes in Responses&gt;</p>	<p>&lt;No changes in API Name, SDK Method Name, or description&gt;</p> <p>&lt;No changes in Parameter list&gt;</p> <p><b>Responses:</b> 400 BAD_REQUEST if request is incorrect; MISSING_FIELD if neither a name, nor a type, nor the 'isNew' flag were specified; ILLEGAL_FIELD_VALUE if the given account type is invalid returns: ErrorMessage Example Definition: http400ResponseExample Headers: X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.</p> <p>&lt;No other changes in Responses&gt;</p>

Changes in Service: **GET** /api/v\*/mandatorAdmin/getUserList

» [See in the API docs](#)

V1 2022.42.1	V2 2022.42.1
<p data-bbox="107 336 784 363">&lt;No changes in API Name, SDK Method Name, or description&gt;</p> <p data-bbox="107 422 246 450"><b>Parameters:</b></p> <p data-bbox="107 464 510 491">minRegistrationDate : string (optional)</p> <p data-bbox="107 505 555 533">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="107 547 1048 619">Lower bound for a user's registration date, e.g. '2016-01-01'. If specified, then only users whose 'registrationDate' is equal to or later than the given date will be regarded.</p> <p data-bbox="107 678 517 705">maxRegistrationDate : string (optional)</p> <p data-bbox="107 719 555 746">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="107 761 1048 833">Upper bound for a user's registration date, e.g. '2016-01-01'. If specified, then only users whose 'registrationDate' is equal to or earlier than the given date will be regarded.</p> <p data-bbox="107 892 472 919">minDeletionDate : string (optional)</p> <p data-bbox="107 933 555 960">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="107 975 1088 1046">Lower bound for a user's deletion date, e.g. '2016-01-01'. If specified, then only users whose 'deletionDate' is not null, and is equal to or later than the given date will be regarded.</p> <p data-bbox="107 1106 479 1133">maxDeletionDate : string (optional)</p> <p data-bbox="107 1147 555 1174">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="107 1189 1088 1260">Upper bound for a user's deletion date, e.g. '2016-01-01'. If specified, then only users whose 'deletionDate' is null, or is equal to or earlier than the given date will be regarded.</p> <p data-bbox="107 1319 495 1347">minLastActiveDate : string (optional)</p> <p data-bbox="107 1361 555 1388">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="107 1402 1095 1474">Lower bound for a user's last active date, e.g. '2016-01-01'. If specified, then only users whose 'lastActiveDate' is not null, and is equal to or later than the given date will be regarded.</p>	<p data-bbox="1137 336 1814 363">&lt;No changes in API Name, SDK Method Name, or description&gt;</p> <p data-bbox="1137 422 1276 450"><b>Parameters:</b></p> <p data-bbox="1137 464 1603 491">minRegistrationDate : string <b>[date]</b> (optional)</p> <p data-bbox="1137 505 1581 533">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="1137 547 2074 619">Lower bound for a user's registration date, e.g. '2016-01-01'. If specified, then only users whose 'registrationDate' is equal to or later than the given date will be regarded.</p> <p data-bbox="1137 678 1610 705">maxRegistrationDate : string <b>[date]</b> (optional)</p> <p data-bbox="1137 719 1581 746">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="1137 761 2074 833">Upper bound for a user's registration date, e.g. '2016-01-01'. If specified, then only users whose 'registrationDate' is equal to or earlier than the given date will be regarded.</p> <p data-bbox="1137 892 1561 919">minDeletionDate : string <b>[date]</b> (optional)</p> <p data-bbox="1137 933 1581 960">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="1137 975 2114 1046">Lower bound for a user's deletion date, e.g. '2016-01-01'. If specified, then only users whose 'deletionDate' is not null, and is equal to or later than the given date will be regarded.</p> <p data-bbox="1137 1106 1568 1133">maxDeletionDate : string <b>[date]</b> (optional)</p> <p data-bbox="1137 1147 1581 1174">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="1137 1189 2114 1260">Upper bound for a user's deletion date, e.g. '2016-01-01'. If specified, then only users whose 'deletionDate' is null, or is equal to or earlier than the given date will be regarded.</p> <p data-bbox="1137 1319 1583 1347">minLastActiveDate : string <b>[date]</b> (optional)</p> <p data-bbox="1137 1361 1581 1388">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="1137 1402 2121 1474">Lower bound for a user's last active date, e.g. '2016-01-01'. If specified, then only users whose 'lastActiveDate' is not null, and is equal to or later than the given date will be regarded.</p>

V1 2022.42.1	V2 2022.42.1
<p>maxLastActiveDate : string (optional) &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Upper bound for a user's last active date, .g. '2016-01-01'. If specified, then only users whose 'lastActiveDate' is null, or is equal to or earlier than the given date will be regarded.</p> <p>&lt;No other changes in Parameter list&gt;</p> <p>&lt;No changes in Responses&gt;</p>	<p>maxLastActiveDate : string <b>[date]</b> (optional) &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Upper bound for a user's last active date, .g. '2016-01-01'. If specified, then only users whose 'lastActiveDate' is null, or is equal to or earlier than the given date will be regarded.</p> <p>&lt;No other changes in Parameter list&gt;</p> <p>&lt;No changes in Responses&gt;</p>

Changes in Service: **GET** /api/v\*/categories/cashFlows

» [See in the API docs](#)

V1 2022.42.1	V2 2022.42.1
<p data-bbox="107 336 784 363">&lt;No changes in API Name, SDK Method Name, or description&gt;</p> <p data-bbox="107 422 246 450"><b>Parameters:</b></p> <p data-bbox="107 464 526 491">minBankBookingDate : string (optional)</p> <p data-bbox="107 507 560 534">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="107 550 1097 662">Lower bound for a transaction's booking date as returned by the bank (= original booking date), e.g. '2016-01-01'. If specified, then only transactions whose 'bankBookingDate' is equal to or later than the given date will be regarded.</p> <p data-bbox="107 722 526 750">maxBankBookingDate : string (optional)</p> <p data-bbox="107 766 560 793">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="107 809 1097 920">Upper bound for a transaction's booking date as returned by the bank (= original booking date), e.g. '2016-01-01'. If specified, then only transactions whose 'bankBookingDate' is equal to or earlier than the given date will be regarded.</p> <p data-bbox="107 981 526 1008">minFinapiBookingDate : string (optional)</p> <p data-bbox="107 1024 560 1051">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="107 1067 1075 1179">Lower bound for a transaction's booking date as set by finAPI, e.g. '2016-01-01'. For details about the meaning of the finAPI booking date, please see the field's documentation in the service's response.</p> <p data-bbox="107 1240 526 1267">maxFinapiBookingDate : string (optional)</p> <p data-bbox="107 1283 560 1310">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="107 1326 1075 1437">Upper bound for a transaction's booking date as set by finAPI, e.g. '2016-01-01'. For details about the meaning of the finAPI booking date, please see the field's documentation in the service's response.</p>	<p data-bbox="1137 336 1814 363">&lt;No changes in API Name, SDK Method Name, or description&gt;</p> <p data-bbox="1137 422 1276 450"><b>Parameters:</b></p> <p data-bbox="1137 464 1612 491">minBankBookingDate : string <b>[date]</b> (optional)</p> <p data-bbox="1137 507 1579 534">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="1137 550 2123 662">Lower bound for a transaction's booking date as returned by the bank (= original booking date), e.g. '2016-01-01'. If specified, then only transactions whose 'bankBookingDate' is equal to or later than the given date will be regarded.</p> <p data-bbox="1137 722 1624 750">maxBankBookingDate : string <b>[date]</b> (optional)</p> <p data-bbox="1137 766 1579 793">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="1137 809 2123 920">Upper bound for a transaction's booking date as returned by the bank (= original booking date), e.g. '2016-01-01'. If specified, then only transactions whose 'bankBookingDate' is equal to or earlier than the given date will be regarded.</p> <p data-bbox="1137 981 1624 1008">minFinapiBookingDate : string <b>[date]</b> (optional)</p> <p data-bbox="1137 1024 1579 1051">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="1137 1067 2101 1179">Lower bound for a transaction's booking date as set by finAPI, e.g. '2016-01-01'. For details about the meaning of the finAPI booking date, please see the field's documentation in the service's response.</p> <p data-bbox="1137 1240 1624 1267">maxFinapiBookingDate : string <b>[date]</b> (optional)</p> <p data-bbox="1137 1283 1579 1310">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="1137 1326 2101 1437">Upper bound for a transaction's booking date as set by finAPI, e.g. '2016-01-01'. For details about the meaning of the finAPI booking date, please see the field's documentation in the service's response.</p>

V1 2022.42.1	V2 2022.42.1
<p>minImportDate : string (optional) &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Lower bound for a transaction's import date, e.g. '2016-01-01'. If specified, then only transactions whose 'importDate' is equal to or later than the given date will be regarded.</p> <p>maxImportDate : string (optional) &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Upper bound for a transaction's import date, e.g. '2016-01-01'. If specified, then only transactions whose 'importDate' is equal to or earlier than the given date will be regarded.</p> <p>&lt;No other changes in Parameter list&gt;</p> <p>&lt;No changes in Responses&gt;</p>	<p>minImportDate : string <b>[date]</b> (optional) &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Lower bound for a transaction's import date, e.g. '2016-01-01'. If specified, then only transactions whose 'importDate' is equal to or later than the given date will be regarded.</p> <p>maxImportDate : string <b>[date]</b> (optional) &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Upper bound for a transaction's import date, e.g. '2016-01-01'. If specified, then only transactions whose 'importDate' is equal to or earlier than the given date will be regarded.</p> <p>&lt;No other changes in Parameter list&gt;</p> <p>&lt;No changes in Responses&gt;</p>

Changes in Service: GET /api/v\*/banks

» See in the API docs

V1 2022.42.1	V2 2022.42.1
<p data-bbox="107 336 784 363">&lt;No changes in API Name, SDK Method Name, or description&gt;</p> <p data-bbox="107 422 246 450"><b>Parameters:</b></p> <p data-bbox="107 467 448 494"><b>isSupported</b> : boolean (optional)</p> <p data-bbox="107 512 1086 619"><b>THIS FIELD IS DEPRECATED AND WILL BE REMOVED.</b> Please refer to the 'supportedInterfaces' field instead. If specified, then only supported (in case of 'true' value) or unsupported (in case of 'false' value) banks will be regarded.</p> <p data-bbox="107 679 481 707"><b>pinsAreVolatile</b> : boolean (optional)</p> <p data-bbox="107 724 1097 791"><b>THIS FIELD IS DEPRECATED AND WILL BE REMOVED.</b> If specified, then only those banks will be regarded that have the given value (true or false) for their 'pinsAreVolatile' field.</p> <p data-bbox="107 852 627 879"><b>supportedDataSources</b> : array of string (optional)</p> <p data-bbox="107 896 1075 1134"><b>THIS FIELD IS DEPRECATED AND WILL BE REMOVED.</b> Please refer to the 'supportedInterfaces' field instead. Comma-separated list of data sources. Possible values: WEB_SCRAPER,FINTS_SERVER. If this parameter is specified, then only those banks will be regarded in the search that support ALL of the given data sources. Note that this does NOT imply that those data sources must be the only data sources that are supported by a bank.</p> <p data-bbox="107 1195 593 1222"><b>supportedInterfaces</b> : array of string (optional)</p> <p data-bbox="107 1240 1064 1393"><b>Comma-separated list of bank interfaces. Possible values: FINTS_SERVER,WEB_SCRAPER,XS2A.</b> If this parameter is specified, then all the banks that support at least one of the given interfaces will be returned. Note that this does NOT imply that those interfaces must be the only ones that are supported by a bank.</p> <p data-bbox="107 1453 504 1481">&lt;No other changes in Parameter list&gt;</p>	<p data-bbox="1137 336 1814 363">&lt;No changes in API Name, SDK Method Name, or description&gt;</p> <p data-bbox="1137 422 1276 450"><b>Parameters:</b></p> <p data-bbox="1137 467 1702 494"><b>supportedBankingInterfaces</b> : array of string (optional)</p> <p data-bbox="1137 512 2083 665"><b>Comma-separated list of banking interfaces. Possible values: FINTS_SERVER,WEB_SCRAPER,XS2A.</b> If this parameter is specified, then all the banks that support at least one of the given interfaces will be returned. Note that this does NOT imply that those interfaces must be the only ones that are supported by a bank.</p> <p data-bbox="1137 724 1534 751">&lt;No other changes in Parameter list&gt;</p> <p data-bbox="1137 812 1444 839">&lt;No changes in Responses&gt;</p>

V1 2022.42.1	V2 2022.42.1
<i>&lt;No changes in Responses&gt;</i>	

## Changes in Service: GET /api/v\*/accounts

» See in the API docs

V1 2022.42.1	V2 2022.42.1
<p data-bbox="107 336 784 363">&lt;No changes in API Name, SDK Method Name, or description&gt;</p> <p data-bbox="107 422 246 450"><b>Parameters:</b></p> <p data-bbox="107 467 564 491"><b>accountTypes</b> : array of integer (optional)</p> <p data-bbox="107 509 1097 619"><b>THIS FIELD IS DEPRECATED AND WILL BE REMOVED. Please refer to the 'accountTypes' field instead. A comma-separated list of account type ids. If specified, then only accounts that relate to the given types will be regarded. If not specified, then all accounts will be regarded.</b></p> <p data-bbox="107 678 573 705">minLastSuccessfulUpdate : string (optional)</p> <p data-bbox="107 722 555 750">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="107 767 1097 877">Lower bound for a account's last successful update date, e.g. '2016-01-01'. If specified, then <b>only accounts whose 'lastSuccessfulUpdate' is equal to or later than the given date will be regarded.</b></p> <p data-bbox="107 936 573 963">maxLastSuccessfulUpdate : string (optional)</p> <p data-bbox="107 981 555 1008">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="107 1026 1097 1136">Upper bound for a account's last successful update date, e.g. '2016-01-01'. If specified, then <b>only accounts whose 'lastSuccessfulUpdate' is equal to or earlier than the given date will be regarded.</b></p> <p data-bbox="107 1195 506 1222">&lt;No other changes in Parameter list&gt;</p> <p data-bbox="107 1281 416 1308">&lt;No changes in Responses&gt;</p>	<p data-bbox="1137 336 1814 363">&lt;No changes in API Name, SDK Method Name, or description&gt;</p> <p data-bbox="1137 422 1276 450"><b>Parameters:</b></p> <p data-bbox="1137 467 1662 494">minLastSuccessfulUpdate : string <b>[date]</b> (optional)</p> <p data-bbox="1137 512 1581 539">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="1137 557 2123 667">Lower bound for a <b>n</b> account's last successful update date, e.g. '2016-01-01'. If specified, then <b>an account will only be regarded if any of its interfaces has a 'lastSuccessfulUpdate' that is equal to or later than the given date.</b></p> <p data-bbox="1137 726 1662 753">maxLastSuccessfulUpdate : string <b>[date]</b> (optional)</p> <p data-bbox="1137 770 1581 798">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="1137 815 2123 925">Upper bound for a <b>n</b> account's last successful update date, e.g. '2016-01-01'. If specified, then <b>an account will only be regarded if any of its interfaces has a 'lastSuccessfulUpdate' that is equal to or earlier than the given date.</b></p> <p data-bbox="1137 984 1532 1011">&lt;No other changes in Parameter list&gt;</p> <p data-bbox="1137 1070 1442 1098">&lt;No changes in Responses&gt;</p>

Changes in Service: GET /api/v\*/accounts/dailyBalances

» [See in the API docs](#)

V1 2022.42.1	V2 2022.42.1
<p data-bbox="107 336 784 363">&lt;No changes in API Name, SDK Method Name, or description&gt;</p> <p data-bbox="107 422 246 450"><b>Parameters:</b></p> <p data-bbox="107 464 392 491">startDate : string (optional)</p> <p data-bbox="107 505 560 533">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="107 547 1097 662">Lower bound for the date range to be returned. Note that the requested date range [startDate .. endDate] may not exceed 1 year (366 days - considering Leap Years too).If startDate is not specified, it defaults to <del>the</del> endDate minus one month.</p> <p data-bbox="107 721 385 748">endDate : string (optional)</p> <p data-bbox="107 762 560 790">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="107 804 1097 919">Upper bound for the date range to be returned. Note that the requested date range [startDate .. endDate] may not exceed 1 year (366 days - considering Leap Years too). If endDate is not specified, it defaults to today's date.</p> <p data-bbox="107 978 504 1005">&lt;No other changes in Parameter list&gt;</p> <p data-bbox="107 1064 414 1091">&lt;No changes in Responses&gt;</p>	<p data-bbox="1133 336 1809 363">&lt;No changes in API Name, SDK Method Name, or description&gt;</p> <p data-bbox="1133 422 1272 450"><b>Parameters:</b></p> <p data-bbox="1133 464 1480 491">startDate : string <b>[date]</b> (optional)</p> <p data-bbox="1133 505 1585 533">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="1133 547 2132 662">Lower bound for the date range to be returned. Note that the requested date range [startDate .. endDate] may not exceed 1 year (366 days - considering Leap Years too).If <b>[startDate]</b> is not specified, it defaults to <b>[endDate]</b> minus one month.</p> <p data-bbox="1133 721 1473 748">endDate : string <b>[date]</b> (optional)</p> <p data-bbox="1133 762 1585 790">&lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</p> <p data-bbox="1133 804 2132 919">Upper bound for the date range to be returned. Note that the requested date range [startDate .. endDate] may not exceed 1 year (366 days - considering Leap Years too). If <b>[endDate]</b> is not specified, it defaults to today's date.</p> <p data-bbox="1133 978 1529 1005">&lt;No other changes in Parameter list&gt;</p> <p data-bbox="1133 1064 1440 1091">&lt;No changes in Responses&gt;</p>

Changes in Service: **DELETE** /api/v\*/bankConnections/{id}/aisConsent

» See in the API docs

V1 2022.42.1	V2 2022.42.1
<p>API Name: "Delete a consent" / SDK Method: delete <b>AccessData</b></p> <p>Deletes a consent for an interface of a bank connection, on finAPI and on the bank's side.</p> <p>ATTENTION: For XS2A interface additional headers must be included in the request if the end user is involved. Please refer to the <a href="#general-user-metadata">User metadata</a> section under 'General Information' of the API documentation.</p> <p><b>Parameters:</b></p> <p><b>interface : string (required)</b> <b>Target banking interface</b></p> <p>&lt;No other changes in Parameter list&gt;</p> <p>&lt;No changes in Responses&gt;</p>	<p>API Name: "Delete a consent" / SDK Method: delete <b>Consent</b></p> <p>Deletes a consent for an interface of a bank connection, on finAPI and on the bank's side.</p> <p>ATTENTION: For XS2A interface additional headers must be included in the request if the end user is involved. Please refer to the <a href="#general-user-metadata">User metadata</a> section under 'General Information' of the API documentation.</p> <p><b>Parameters:</b></p> <p><b>bankingInterface : string (required)</b> <b>Target banking interface</b></p> <p>&lt;No other changes in Parameter list&gt;</p> <p>&lt;No changes in Responses&gt;</p>

## Changes in Type: AccessToken

Occurs in the following services:

POST /oauth/token -> POST /api/v\*/oauth/token

V1 2022.42.1	V2 2022.42.1
<p>OAuth access token data</p> <pre>{   "access_token" : string, // Access token. Token has a length of up to 128   characters. [required] Example:   "yvMbx_TgwdYE0hgOVb8N4Z0vxOukqfjzYOGRZcJiCjQuRGkVIBfjjV3YG4zKTGiY2aPn2cQTGaQOT   8uo5uo7_QOXts1s5UBSVuRHc6a8X30RrGBTyqV9h26SUHcZPNbZ"    "refresh_token" : string, // Refresh token. Only set in case of   grant_type='password'. Token has a length of up to 128 characters. [optional]   Example:   "0b9KjiBVlZLz7a4HshSAIcFuscStiXT1VzT5mgNYwCQ_dWctTDsaIjedAhD1LpsOFJ7x6K8Emf8M3   VOQkwNFR9FHi jALYSQw2UeRwAC2MvrOKwF1dHmOq5VEVYEaGf6"    "token_type" : string,   "expires_in" : integer [int32],   "scope" : string }</pre>	<p>OAuth access token data</p> <pre>{   "scope" : string,    "access_token" : string, // Access token. Token has a length of up to 8192   characters. Currently tokens with a maximum length of 128 characters are   returned, but longer token types may be used in the future. [required]   Example:   "yvMbx_TgwdYE0hgOVb8N4Z0vxOukqfjzYOGRZcJiCjQuRGkVIBfjjV3YG4zKTGiY2aPn2cQTGaQOT   8uo5uo7_QOXts1s5UBSVuRHc6a8X30RrGBTyqV9h26SUHcZPNbZ"    "refresh_token" : string, // Refresh token. Only set in case of   grant_type='password'. Token has a length of up to 8192 characters. Currently   tokens with a maximum length of 128 characters are returned, but longer token   types may be used in the future. [optional] Example:   "0b9KjiBVlZLz7a4HshSAIcFuscStiXT1VzT5mgNYwCQ_dWctTDsaIjedAhD1LpsOFJ7x6K8Emf8M3   VOQkwNFR9FHi jALYSQw2UeRwAC2MvrOKwF1dHmOq5VEVYEaGf6"    "token_type" : string,   "expires_in" : integer [int32] }</pre>

## Changes in Type: Account

Occurs in the following services:

GET /api/v\*/accounts/{id}

PATCH /api/v\*/accounts/{id}

GET /api/v\*/accounts

GET /api/v\*/accounts/{ids}

V1 2022.42.1	V2 2022.42.1
<p>Container for a bank account's data</p> <pre>{   "id" : integer [int64],   "bankConnectionId" : integer [int64],    "accountName" : string, // Account name [required][nullable] Example:   "Testaccount"    "iban" : string, // Account's IBAN. Note that this field can change from   'null' to a value - or vice versa - any time when the account is being   updated. This is subject to changes within the bank's internal account   management. [required][nullable] Example: "DE89370400440532013000"    "accountNumber" : string,    "subAccountNumber" : string, // Account's sub-account-number. Note that   this field can change from 'null' to a value - or vice versa - any time when   the account is being updated. This is subject to changes within the bank's   internal account management. [required][nullable] Example: "1234"</pre>	<p>Container for a bank account's data</p> <pre>{   "id" : integer [int64],   "bankConnectionId" : integer [int64],    "accountName" : string, // Account name [optional] Example: "Testaccount"    "iban" : string, // Account's IBAN. Note that this field can change from   'null' to a value - or vice versa - any time when the account is being   updated. This is subject to changes within the bank's internal account   management. [optional] Example: "DE89370400440532013000"    "accountNumber" : string,    "subAccountNumber" : string, // Account's sub-account-number. Note that   this field can change from 'null' to a value - or vice versa - any time when   the account is being updated. This is subject to changes within the bank's   internal account management. [optional] Example: "1234"</pre>

## V1 2022.42.1

"accountHolderName" : string, // Name of the account holder [required][nullable] Example: "Herr Max Mustermann"

"accountHolderId" : string, // Bank's internal identification of the account holder. Note that if your client has no license for processing this field, it will always be 'XXXXX' [required][nullable] Example: "XXXXX"

"accountCurrency" : string, // Account's currency [required][nullable] Example: "EUR"

"accountTypeId" : integer [int64],

"accountTypeName" : string,

"accountType" : AccountType,

"balance" : number, // Current account balance [required][nullable] Example: 99.99

"overdraft" : number, // Current overdraft [required][nullable] Example: 99.99

"overdraftLimit" : number, // Overdraft limit [required][nullable] Example: 99.99

"availableFunds" : number, // Current available funds. Note that this field

## V2 2022.42.1

"accountHolderName" : string, // Name of the account holder [optional]

Example: "Herr Max Mustermann"

"accountHolderId" : string, // Bank's internal identification of the account holder. Note that if your client has no license for processing this field, it will always be 'XXXXX' [optional] Example: "XXXXX"

"accountCurrency" : string, // Account's currency [optional] Example: "EUR"

"accountType" : AccountType,

"balance" : number, // Current account balance [optional] Example: 99.99

"overdraft" : number, // Current overdraft [optional] Example: 99.99

"overdraftLimit" : number, // Overdraft limit [optional] Example: 99.99

"availableFunds" : number, // Current available funds. Note that this field is only set if finAPI can make a definite statement about the current available funds. This might not always be the case, for example if there is not enough information available about the overdraft limit and current overdraft. [optional] Example: 99.99

"isNew" : boolean,

"interfaces" : array of AccountInterface,

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is only set if finAPI can make a definite statement about the current available funds. This might not always be the case, for example if there is not enough information available about the overdraft limit and current overdraft. [**required**][**nullable**] Example: 99.99

```
"lastSuccessfulUpdate" : string,  
"lastUpdateAttempt" : string,  
  "isNew" : boolean,  
"status" : AccountStatus,  
"supportedOrders" : array of SupportedOrder,  
  "interfaces" : array of AccountInterface,  
"clearingAccounts" : array of ClearingAccountData,  
  "isSeized" : boolean  
}
```

**V2 2022.42.1**

```
  "isSeized" : boolean  
}
```

## Changes in Type: AccountInterface

Occurs in the following services:

GET /api/v\*/accounts/{id}

PATCH /api/v\*/accounts/{id}

GET /api/v\*/accounts

GET /api/v\*/accounts/{ids}

V1 2022.42.1	V2 2022.42.1
<p>Account interface details</p> <pre>{   "interface" : BankingInterface,   "status" : AccountStatus,   "capabilities" : array of AccountCapability,   "paymentCapabilities" : object,    "lastSuccessfulUpdate" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD HH:MM:SS.SSS' (german time) Timestamp of when the account was last successfully updated using this interface (or initially imported); more precisely: time when the account data (balance and positions) has been stored into the finAPI databases. [required] nullable] Example: "2018-01-01 00:00:00.000"    "lastUpdateAttempt" : string // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD HH:MM:SS.SSS' (german time) Timestamp of when the account was last tried to be updated using this interface (or initially imported); more precisely: time when the update (or initial import) was triggered. [required] nullable] Example: "2018-01-01 00:00:00.000"</pre>	<p>Account interface details</p> <pre>{   "bankingInterface" : BankingInterface, // &lt;strong&gt;Type:&lt;/strong&gt; BankingInterface   Banking interface. Possible values:&lt;br&gt;&lt;br&gt;- &lt;code&gt;WEB_SCRAPER&lt;/code&gt; - finAPI will parse account data from the bank's online banking website.&lt;br&gt;- &lt;code&gt;FINTS_SERVER&lt;/code&gt; - finAPI will download account data via the bank's FinTS interface.&lt;br&gt;- &lt;code&gt;XS2A&lt;/code&gt; - finAPI will download account data via the bank's XS2A interface.&lt;br&gt; [required] Possible values: ["WEB_SCRAPER", "FINTS_SERVER", "XS2A"] Example: "FINTS_SERVER"    "status" : AccountStatus,   "capabilities" : array of AccountCapability,   "paymentCapabilities" : object,    "lastSuccessfulUpdate" : string [date-time], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DDT'HH:MM:SS.SSSXXX' (RFC 3339, section 5.6) Timestamp of when the account was last successfully updated using this interface (or initially imported); more precisely: time when the account data (balance and positions) has been stored into the finAPI databases. [optional] Example: "2018-01-01 09:18:40.473+01:00"</pre>

V1 2022.42.1	V2 2022.42.1
}	<pre>"lastUpdateAttempt" : string [date-time]// &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'T'HH:MM:SS.SSSXXX' (RFC 3339, section 5.6) Timestamp of when the account was last tried to be updated using this interface (or initially imported); more precisely: time when the update (or initial import) was triggered. [optional] Example: "2018-01-01T09:18:40.473000" }</pre>

## Changes in Type: AccountParams

Occurs in the following services:

PATCH /api/v\*/accounts/{id}

V1 2022.42.1	V2 2022.42.1
<p>Container for an account's name, type and 'isNew' flag'.</p> <pre>{   "accountName" : string,   "accountTypeId" : integer [int64],   "accountType" : AccountType,   "isNew" : boolean }</pre>	<p>Container for an account's name, type and 'isNew' flag'.</p> <pre>{   "accountName" : string,   "accountType" : AccountType,   "isNew" : boolean }</pre>

## Changes in Type: Bank

Occurs in the following services:

```
GET /api/v*/banks/{id}
POST /api/v*/bankConnections/update
POST /api/v*/bankConnections/import
POST /api/v*/bankConnections/connectInterface
GET /api/v*/bankConnections/{id}
PATCH /api/v*/bankConnections/{id}
GET /api/v*/bankConnections
GET /api/v*/bankConnections/{ids}
GET /api/v*/banks/{ids}
GET /api/v*/banks
```

V1 2022.42.1	V2 2022.42.1
<p>Container for a bank's data</p> <pre>{   "id" : integer [int64],   "name" : string,   "loginHint" : string,    "bic" : string, // BIC of bank [required][nullable] Example: "TESTBANKING"    "blzs" : array of string,    "blz" : string,    "location" : string, // Bank location (two-letter country code; ISO 3166 ALPHA-2). Note that when this field is not set, it means that this bank depicts an international institute which is not bound to any specific country. [required][nullable] Example: "DE"</pre>	<p>Container for a bank's data</p> <pre>{   "id" : integer [int64],   "name" : string,    "bic" : string, // BIC of bank [optional] Example: "TESTBANKING"    "blz" : string,    "location" : string, // Bank location (two-letter country code; ISO 3166 ALPHA-2). Note that when this field is not set, it means that this bank depicts an international institute which is not bound to any specific country. [optional] Example: "DE"</pre>

## V1 2022.42.1

"city" : string, // City that this bank is located in. Note that this field may not be set for some banks. [required|nullable] Example: "München"

"isSupported" : boolean,

"isTestBank" : boolean,

"popularity" : integer [int32],

"health" : integer [int32],

"loginFieldUserId" : string,

"loginFieldCustomerId" : string,

"loginFieldPin" : string,

"pinsAreVolatile" : boolean,

"isCustomerIdPassword" : boolean,

"supportedDataSources" : array of SupportedDataSource,

"interfaces" : array of BankInterface, // <strong>Type:</strong>  
BankInterface

Set of interfaces that finAPI can use to connect to the bank. Note that this set will be empty for non-supported banks. Note also that the WEB\_SCRAPER interface might be disabled for your client (see GET /clientConfiguration). When this is the case, then finAPI will not use the web scraper for data download, and if the web scraper is the only supported interface of this bank, then finAPI will not allow to download any data for this bank at all (for details, see POST /bankConnections/import and POST /bankConnections/update). [required]

"bankGroup" : object, // <strong>Type:</strong> BankGroup

## V2 2022.42.1

"city" : string, // City that this bank is located in. Note that this field may not be set for some banks. [optional] Example: "München"

"isTestBank" : boolean,

"popularity" : integer [int32],

"interfaces" : array of BankInterface, // <strong>Type:</strong>

BankInterface

Set of interfaces that exist for the bank.

Note:

- If the set is empty, then the bank is not supported.

- Even if an interface is listed, it might not be usable at the moment. Please always refer to the fields 'BankInterface.isAlwaysSupported' / 'BankInterface.isSupported' before you attempt to use an interface.

- The WEB\_SCRAPER interface might be disabled for your client (see GET /clientConfiguration). When this is the case, then finAPI will not use the web scraper for data download, and if the web scraper is the only supported interface of this bank, then finAPI will not allow to download any data for this bank at all (for details, see POST /bankConnections/import and POST /bankConnections/update). Also, you will not be able to do payments via the WEB\_SCRAPER interface, if web scraping is disabled for your client. [required]

"bankGroup" : object, // <strong>Type:</strong> BankGroup

Bank group [optional]

"isBeta" : boolean,

V1 2022.42.1	V2 2022.42.1
<pre> Bank group [required][nullable]  "lastCommunicationAttempt" : string, "lastSuccessfulCommunication" : string,  "isBeta" : boolean,  "logo" : object, // &lt;strong&gt;Type:&lt;/strong&gt; BankImage  Logo of the bank. If available, the logo will be rendered on our Web Form 2.0 where applicable. Customers that do not use our Web Form can use this data to render the bank's logo within their application's front end. [required][nullab le]  "icon" : object // &lt;strong&gt;Type:&lt;/strong&gt; BankImage  Icon of the bank. If available, the icon will be rendered on our Web Form 2.0 where applicable. Customers that do not use our Web Form can use this data to render the bank's icon within their application's front end. [required][nullab le] } </pre>	<pre> "logo" : object, // &lt;strong&gt;Type:&lt;/strong&gt; BankImage  Logo of the bank. If available, the logo will be rendered on our Web Form 2.0 where applicable. Customers that do not use our Web Form can use this data to render the bank's logo within their application's front end. [optional]  "icon" : object // &lt;strong&gt;Type:&lt;/strong&gt; BankImage  Icon of the bank. If available, the icon will be rendered on our Web Form 2.0 where applicable. Customers that do not use our Web Form can use this data to render the bank's icon within their application's front end. [optional] } </pre>

## Changes in Type: BankConnection

Occurs in the following services:

POST /api/v\*/bankConnections/update

POST /api/v\*/bankConnections/import

POST /api/v\*/bankConnections/connectInterface

GET /api/v\*/bankConnections/{id}

PATCH /api/v\*/bankConnections/{id}

GET /api/v\*/bankConnections

GET /api/v\*/bankConnections/{ids}

V1 2022.42.1	V2 2022.42.1
<p>Container for a bank connection's data</p> <pre>{   "id" : integer [int64],   "bankId" : integer [int64],    "name" : string, // Custom name for the bank connection. You can set this field with the 'Edit a bank connection' service, as well as during the initial import of the bank connection. Maximum length is 64. [required][nullable] Example: "Bank Connection"    "bankingUserId" : string,   "bankingCustomerId" : string,   "bankingPin" : string,   "type" : string,   "updateStatus" : string,   "categorizationStatus" : CategorizationStatus,   "lastManualUpdate" : object,   "lastAutoUpdate" : object,</pre>	<p>Container for a bank connection's data</p> <pre>{   "id" : integer [int64],    "name" : string, // Custom name for the bank connection. You can set this field with the 'Edit a bank connection' service, as well as during the initial import of the bank connection. Maximum length is 64. [optional] Example: "Bank Connection"    "updateStatus" : string,   "categorizationStatus" : CategorizationStatus,   "interfaces" : array of BankConnectionInterface,   "accountIds" : array of integer,    "owners" : array of BankConnectionOwner, // &lt;strong&gt;Type:&lt;/strong&gt; BankConnectionOwner  Information about the owner(s) of the bank connection [optional]</pre>

V1 2022.42.1	V2 2022.42.1
<pre>"ibanOnlyMoneyTransferSupported" : boolean, "ibanOnlyDirectDebitSupported" : boolean, "collectiveMoneyTransferSupported" : boolean, "defaultTwoStepProcedureId" : string, "twoStepProcedures" : array of TwoStepProcedure "interfaces" : array of BankConnectionInterface, "accountIds" : array of integer,  "owners" : array of BankConnectionOwner, // &lt;strong&gt;Type:&lt;/strong&gt; BankConnectionOwner  Information about the owner(s) of the bank connection [required][nullable]  "bank" : object, "furtherLoginNotRecommended" : boolean }</pre>	<pre>"bank" : object }</pre>

## Changes in Type: BankConnectionInterface

Occurs in the following services:

POST /api/v\*/bankConnections/update

POST /api/v\*/bankConnections/import

POST /api/v\*/bankConnections/connectInterface

GET /api/v\*/bankConnections/{id}

PATCH /api/v\*/bankConnections/{id}

GET /api/v\*/bankConnections

GET /api/v\*/bankConnections/{ids}

V1 2022.42.1	V2 2022.42.1
<p>Resource representing a bank connection interface</p> <pre>{   "interface" : BankingInterface,   "loginCredentials" : array of LoginCredentialResource,    "defaultTwoStepProcedureId" : string, // The default two-step-procedure for   this interface. Must match one of the available 'procedureId's from the   'twoStepProcedures' list. When this field is set, then finAPI will   automatically try to select the procedure wherever applicable. Note that the   list of available procedures of a bank connection may change as a result of an   update of the connection, and if this field references a procedure that is no   longer available after an update, finAPI will automatically clear the default   procedure (set it to null). [required][nullable] Example: "955"    "twoStepProcedures" : array of TwoStepProcedure,    "aisConsent" : object, // &lt;strong&gt;Type:&lt;/strong&gt; BankConsent</pre>	<p>Resource representing a bank connection interface</p> <pre>{   "bankingInterface" : BankingInterface, // &lt;strong&gt;Type:&lt;/strong&gt;   BankingInterface   █   Banking interface. Possible values:&lt;br&gt;&lt;br&gt;- &lt;code&gt;WEB_SCRAPER&lt;/code&gt; - means   that finAPI will parse data from the bank's online banking website.&lt;br&gt;-   &lt;code&gt;FINTS_SERVER&lt;/code&gt; - means that finAPI will download data via the   bank's FintS interface.&lt;br&gt;- &lt;code&gt;XS2A&lt;/code&gt; - means that finAPI will   download data via the bank's XS2A interface.&lt;br&gt; [required] Possible values:   "WEB_SCRAPER", "FINTS_SERVER", "XS2A"   Example: "FINTS_SERVER"    "loginCredentials" : array of LoginCredentialResource,    "defaultTwoStepProcedureId" : string, // The default two-step-procedure for   this interface. Must match one of the available 'procedureId's from the   'twoStepProcedures' list. When this field is set, then finAPI will   automatically try to select the procedure wherever applicable. Note that the   list of available procedures of a bank connection may change as a result of an</pre>

**V1 2022.42.1**

If this field is set, it means that this interface is handing out a consent to finAPI in exchange for the login credentials. finAPI needs to use this consent to get access to the account list and account data (i.e. Account Information Services, AIS). If this field is not set, it means that this interface does not use such consents. [required][nullable]

```
"lastManualUpdate" : object, // <strong>Type:</strong> UpdateResult
```

Result of the last manual update of the associated bank connection using this interface. If no manual update has ever been done so far with this interface, then this field will not be set. [required][nullable]

```
"lastAutoUpdate" : object, // <strong>Type:</strong> UpdateResult
```

Result of the last auto update of the associated bank connection using this interface (ran by finAPI's automatic batch update process). If no auto update has ever been done so far with this interface, then this field will not be set. [required][nullable]

```
"userActionRequired" : boolean,
"maxDaysForDownload" : integer [int32]
}
```

**V2 2022.42.1**

update of the connection, and if this field references a procedure that is no longer available after an update, finAPI will automatically clear the default procedure (set it to null). [optional] Example: "955"

```
"twoStepProcedures" : array of TwoStepProcedure,
```

```
"aisConsent" : object, // <strong>Type:</strong> BankConsent
```

If this field is set, it means that this interface is handing out a consent to finAPI in exchange for the login credentials. finAPI needs to use this consent to get access to the account list and account data (i.e. Account Information Services, AIS). If this field is not set, it means that this interface does not use such consents. [optional]

```
"lastManualUpdate" : object, // <strong>Type:</strong> UpdateResult
```

Result of the last manual update of the associated bank connection using this interface. If no manual update has ever been done so far with this interface, then this field will not be set. [optional]

```
"lastAutoUpdate" : object, // <strong>Type:</strong> UpdateResult
```

Result of the last auto update of the associated bank connection using this interface (ran by finAPI's automatic batch update process). If no auto update has ever been done so far with this interface, then this field will not be set. [optional]

```
"userActionRequired" : boolean,
```

V1 2022.42.1	V2 2022.42.1
	<pre>"maxDaysForDownload" : integer [int32] }</pre>

## Changes in Type: BankConnectionOwner

Occurs in the following services:

POST /api/v\*/bankConnections/update

POST /api/v\*/bankConnections/import

POST /api/v\*/bankConnections/connectInterface

GET /api/v\*/bankConnections/{id}

PATCH /api/v\*/bankConnections/{id}

GET /api/v\*/bankConnections

GET /api/v\*/bankConnections/{ids}

V1 2022.42.1	V2 2022.42.1
<p>Container for a bank connection owner's data</p> <pre>{    "firstName" : string, // First name [required][nullable] Example: "Max"    "lastName" : string, // Last name [required][nullable] Example: "Mustermann"    "salutation" : string, // Salutation [required][nullable] Example: "Herr"    "title" : string, // Title [required][nullable] Example: "Dr."    "email" : string, // Email [required][nullable] Example: "email@localhost.de"</pre>	<p>Container for a bank connection owner's data</p> <pre>{    "firstName" : string, // First name [optional] Example: "Max"    "lastName" : string, // Last name [optional] Example: "Mustermann"    "salutation" : string, // Salutation [optional] Example: "Herr"    "title" : string, // Title [optional] Example: "Dr."    "email" : string, // Email [optional] Example: "email@localhost.de"</pre>

V1 2022.42.1	V2 2022.42.1
<pre>"dateOfBirth" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Date of birth [required][nullable] Example: "1980-01-01"  "postCode" : string, // Post code [required][nullable] Example: "80000"  "country" : string, // Country [required][nullable] Example: "Deutschland"  "city" : string, // City [required][nullable] Example: "München"  "street" : string, // Street [required][nullable] Example: "Musterstraße"  "houseNumber" : string // House number [required][nullable] Example: "99" }</pre>	<pre>"dateOfBirth" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Date of birth [optional] Example: "1980-01-01"  "postCode" : string, // Post code [optional] Example: "80000"  "country" : string, // Country [optional] Example: "Deutschland"  "city" : string, // City [optional] Example: "München"  "street" : string, // Street [optional] Example: "Musterstraße"  "houseNumber" : string // House number [optional] Example: "99" }</pre>

## Changes in Type: BankConsent

Occurs in the following services:

POST /api/v\*/bankConnections/update

POST /api/v\*/bankConnections/import

POST /api/v\*/bankConnections/connectInterface

GET /api/v\*/bankConnections/{id}

PATCH /api/v\*/bankConnections/{id}

GET /api/v\*/bankConnections

GET /api/v\*/bankConnections/{ids}

V1 2022.42.1	V2 2022.42.1
<p>Bank consent information</p> <pre>{   "status" : BankConsentStatus,    "expiresAt" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD HH:MM:SS.SSS' ( <b>erman time</b> ) Expiration time of the consent. [<b>required</b>] [<b>nullable</b>] Example: "2018-01-01<b>00:00:00.000</b>"    "supportsImportNewAccounts" : boolean // Whether this consent supports the download of accounts that weren't downloaded at the time when the consent was issued. If this field is false, then <b>the 'importNewAccounts' flag of the 'Update a bank connection' service will have no effect.</b> You will have to delete this consent before you can <b>perform</b> an <b>update</b> with 'importNewAccounts' = true. Please note that the user will have to be involved in the process of issuing a new consent. [required] Example: true }</pre>	<p>Bank consent information</p> <pre>{   "status" : BankConsentStatus,    "expiresAt" : string [<b>date-time</b>], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD '<b>HH:MM:SS.SSSXXX</b>' ( <b>RFC 3339, section 5.6</b> ) Expiration time of the consent. [<b>optional</b>] Example: "2018-01-01<b>100:18:00.473+01:00</b>"    "supportsImportNewAccounts" : boolean // Whether this consent supports the download of accounts that weren't downloaded at the time when the consent was issued. If this field is false, then <b>you will have to delete this consent before you can <u>update the bank connection</u> with 'importNewAccounts' = true (otherwise, the update will result in an error).</b> Please note that the user will have to be involved in the process of issuing a new consent. [required] Example: true }</pre>

## Changes in Type: BankInterface

Occurs in the following services:

```
GET /api/v*/banks/{id}
POST /api/v*/bankConnections/update
POST /api/v*/bankConnections/import
POST /api/v*/bankConnections/connectInterface
GET /api/v*/bankConnections/{id}
PATCH /api/v*/bankConnections/{id}
GET /api/v*/bankConnections
GET /api/v*/bankConnections/{ids}
GET /api/v*/banks/{ids}
GET /api/v*/banks
```

V1 2022.42.1	V2 2022.42.1
<p>Interface used to connect to a bank</p> <pre>{   "interface" : BankingInterface,    "tppAuthenticationGroup" : object, // &lt;strong&gt;Type:&lt;/strong&gt;   TppAuthenticationGroup    TPP Authentication Group which the bank interface is connected to [required] in   [available]</pre> <p>"loginCredentials" : array of BankInterfaceLoginField,</p> <p>"properties" : array of BankInterfaceProperty,</p> <p>"loginHint" : string, // Login hint. Contains a German message for the user that explains what kind of credentials are expected.</p>	<p>Interface used to connect to a bank</p> <pre>{   "bankingInterface" : BankingInterface, // &lt;strong&gt;Type:&lt;/strong&gt;   BankingInterface }  Banking interface. Possible values:&lt;br&gt;&lt;br&gt;- &lt;code&gt;WEB_SCRAPER&lt;/code&gt; - means that finAPI will parse data from the bank's online banking website.&lt;br&gt;- &lt;code&gt;FINTS_SERVER&lt;/code&gt; - means that finAPI will download data via the bank's FinTS server.&lt;br&gt;- &lt;code&gt;XS2A&lt;/code&gt; - means that finAPI will download data via the bank's XS2A interface.&lt;br&gt; [required] Possible values: ["WEB_SCRAPER", "FINTS_SERVER", "XS2A"] Example: "FINTS_SERVER"</pre> <p>"tppAuthenticationGroup" : object, // &lt;strong&gt;Type:&lt;/strong&gt;   TppAuthenticationGroup</p>

V1 2022.42.1

Please note that it is essential to always show the login hint to the user if there is one, as the credentials that finAPI requires for the bank might be different to the credentials that the user knows from his online banking.

Also note that the contents of this field should always be interpreted as HTML, as the text might contain HTML tags for highlighted words, paragraphs, etc. [required][nullable] Example: "Bitte geben Sie nur die ersten fünf Stellen Ihrer PIN ein."

"health" : integer [int32], // The health status of this interface. This is a value between 0 and 100, depicting the percentage of successful communication attempts with the bank via this interface during the last couple of bank connection imports or updates (across the entire finAPI system). Note that 'successful' means that there was no technical error trying to establish a communication with the bank. Non-technical errors (like incorrect credentials) are regarded successful communication attempts. [required] Minimum: 0 Maximum: 100 Example: 100

"lastCommunicationAttempt" : string, // <strong>Format:</strong> 'YYYY-MM-DDHH:MM:SS.SSS' (german time)  
Time of the last communication attempt with this interface during an import, update or connect interface (across the entire finAPI system). [required][nullable] Example: "2018-01-0100:00:00.000"

"lastSuccessfulCommunication" : string, // <strong>Format:</strong> 'YYYY-MM-DDHH:MM:SS.SSS' (german time)

V2 2022.42.1

TPP Authentication Group which the bank interface is connected to [optional]

"loginCredentials" : array of BankInterfaceLoginField,  
"properties" : array of BankInterfaceProperty,

"loginHint" : string, // Login hint. Contains a German message for the user that explains what kind of credentials are expected.

Please note that it is essential to always show the login hint to the user if there is one, as the credentials that finAPI requires for the bank might be different to the credentials that the user knows from his online banking.

Also note that the contents of this field should always be interpreted as HTML, as the text might contain HTML tags for highlighted words, paragraphs, etc. [optional] Example: "Bitte geben Sie nur die ersten fünf Stellen Ihrer PIN ein."

"health" : integer [int32], // The health status of this interface. This is a value between 0 and 100, depicting the percentage of successful communication attempts with the bank via this interface during the last couple of bank connection imports or updates (across the entire finAPI system). ■

Note: ■ 'Successful' communication attempt means that there was no technical error trying to establish a communication with the bank. Non-technical errors (like incorrect credentials) are regarded successful communication attempts. ■

- If an interface is not supported (see fields 'isAisSupported'/'isPisSupported'), the health will always be 0. [required]

Minimum: 0 Maximum: 100 Example: 100

## V1 2022.42.1

Time of the last successful communication with this interface during an import, update or connect interface (across the entire finAPI system). [required][nullable] Example: "2018-01-01T00:00:00.000"

**"isMoneyTransferSupported" : boolean,**

"isAisSupported" : boolean,

"paymentCapabilities" : object,

"aisAccountTypes" : array of AccountType

}

## V2 2022.42.1

"lastCommunicationAttempt" : string [date-time], //  
 <strong>Format:</strong> 'YYYY-MM-DDTHH:MM:SS.SSSXXX' (RFC 3339, section 5.6)  
 )  
 Time of the last communication attempt with this interface during an import, update or connect interface (across the entire finAPI system). [optional]  
 Example: "2018-01-01T09:18:40.473+01:00"

"lastSuccessfulCommunication" : string [date-time], //  
 <strong>Format:</strong> 'YYYY-MM-DDTHH:MM:SS.SSSXXX' (RFC 3339, section 5.6)  
 )  
 Time of the last successful communication with this interface during an import, update or connect interface (across the entire finAPI system). [optional] Example: "2018-01-01T09:18:40.473+01:00"

"isAisSupported" : boolean,

**"isPisSupported" : boolean, // Whether this interface has the general capability to perform Payment Initiation Services (PIS). For more details, see the field 'paymentCapabilities'. [required] Example: true**

"paymentCapabilities" : object,

"aisAccountTypes" : array of AccountType

}

## Changes in Type: CashFlow

Occurs in the following services:

GET /api/v\*/categories/cashFlows

V1 2022.42.1	V2 2022.42.1
<p>Cash flow</p> <pre>{    "category" : object, // &lt;strong&gt;Type:&lt;/strong&gt; Category    Category of this cash flow. When null, then this is the cash flow of   transactions that do not have a category. [required][nullable]    "income" : number,   "spending" : number,   "balance" : number,   "countIncomeTransactions" : integer [int32],   "countSpendingTransactions" : integer [int32],   "countAllTransactions" : integer [int32] }</pre>	<p>Cash flow</p> <pre>{    "category" : object, // &lt;strong&gt;Type:&lt;/strong&gt; Category    Category of this cash flow. When null, then this is the cash flow of   transactions that do not have a category. [optional]    "income" : number,   "spending" : number,   "balance" : number,   "countIncomeTransactions" : integer [int32],   "countSpendingTransactions" : integer [int32],   "countAllTransactions" : integer [int32] }</pre>

## Changes in Type: CategorizationCheckResult

Occurs in the following services:

POST /api/v\*/tests/checkCategorization

V1 2022.42.1	V2 2022.42.1
<pre>{   "transactionId" : string,    "category" : object // &lt;strong&gt;Type:&lt;/strong&gt; Category  A category. The determined transaction category for the given transactionId. This can be null, if the categorization algorithm fails to find a matching rule. [required][nullable] }</pre>	<pre>{   "transactionId" : string,    "category" : object // &lt;strong&gt;Type:&lt;/strong&gt; Category  A category. The determined transaction category for the given transactionId. This can be null, if the categorization algorithm fails to find a matching rule. [optional] }</pre>

## Changes in Type: Category

Occurs in the following services:

```
POST /api/v*/categories
GET /api/v*/categories/{id}
PATCH /api/v*/categories/{id}
GET /api/v*/categories/cashFlows
POST /api/v*/tests/checkCategorization
GET /api/v*/categories/{ids}
GET /api/v*/clientConfiguration
PATCH /api/v*/clientConfiguration
POST /api/v*/mandatorAdmin/ibanRules
GET /api/v*/mandatorAdmin/ibanRules
POST /api/v*/mandatorAdmin/keywordRules
GET /api/v*/mandatorAdmin/keywordRules
GET /api/v*/categories
POST /api/v*/transactions/{id}/split
POST /api/v*/transactions/{id}/restore
GET /api/v*/transactions/{id}
PATCH /api/v*/transactions/{id}
GET /api/v*/transactions
GET /api/v*/transactions/{ids}
```

V1 2022.42.1	V2 2022.42.1
<p>Category data</p> <pre>{   "id" : integer [int64],   "name" : string,    "parentId" : integer [int64], // Identifier of the parent category (if a</pre>	<p>Category data</p> <pre>{   "id" : integer [int64],   "name" : string,    "parentId" : integer [int64], // Identifier of the parent category (if a</pre>

V1 2022.42.1	V2 2022.42.1
<pre>parent category exists) [required nullable] Example: 373      "parentName" : string, // Name of the parent category (if a parent category exists) [required nullable] Example: "Freizeit, Hobbys &amp; Soziales"      "isCustom" : boolean,      "children" : array of integer // List of sub-categories identifiers (if any exist) [required nullable] Example: [1,2,3] }</pre>	<pre>parent category exists) [optional] Example: 373      "parentName" : string, // Name of the parent category (if a parent category exists) [optional] Example: "Freizeit, Hobbys &amp; Soziales"      "isCustom" : boolean,      "children" : array of integer // List of sub-categories identifiers (if any exist) [optional] Example: [1,2,3] }</pre>

## Changes in Type: ClientConfiguration

Occurs in the following services:

GET /api/v\*/clientConfiguration

PATCH /api/v\*/clientConfiguration

V1 2022.42.1	V2 2022.42.1
<p>Client configuration parameters</p> <pre>{   "pfmServicesEnabled" : boolean,   "isAutomaticBatchUpdateEnabled" : boolean,   "isDevelopmentModeEnabled" : boolean,   "isNonEuroAccountsSupported" : boolean,   "isAutoCategorizationEnabled" : boolean,   "mandatorLicense" : MandatorLicense,   "preferredConsentType" : PreferredConsentType,    "userNotificationCallbackUrl" : string, // Callback URL to which finAPI sends the notification messages that are triggered from the automatic batch update of the users' bank connections. This field is only relevant if the automatic batch update is enabled for your client. For details about what the notification messages look like, please see the documentation in the 'Notification Rules' section. finAPI will call this URL with HTTP method POST. Note that the response of the call is not processed by finAPI. Also note that while the callback URL may be a non-secured (http) URL on the finAPI sandbox or alpha environment, it MUST be a SSL-secured (https) URL on the finAPI live system. [required][nullable] Example: "https://bank.server.com/notification"    "userSynchronizationCallbackUrl" : string, // Callback URL for user</pre>	<p>Client configuration parameters</p> <pre>{   "pfmServicesEnabled" : boolean,   "isAutomaticBatchUpdateEnabled" : boolean,   "isDevelopmentModeEnabled" : boolean,   "isNonEuroAccountsSupported" : boolean,   "isAutoCategorizationEnabled" : boolean,   "mandatorLicense" : MandatorLicense,   "preferredConsentType" : PreferredConsentType,    "userNotificationCallbackUrl" : string, // Callback URL to which finAPI sends the notification messages that are triggered from the automatic batch update of the users' bank connections. This field is only relevant if the automatic batch update is enabled for your client. For details about what the notification messages look like, please see the documentation in the 'Notification Rules' section. finAPI will call this URL with HTTP method POST. Note that the response of the call is not processed by finAPI. Also note that while the callback URL may be a non-secured (http) URL on the finAPI sandbox or alpha environment, it MUST be a SSL-secured (https) URL on the finAPI live system. [optional] Example: "https://bank.server.com/notification"    "userSynchronizationCallbackUrl" : string, // Callback URL for user</pre>

**V1 2022.42.1**

synchronization. This field should be set if you - as a finAPI customer - have multiple clients using finAPI. In such case, all of your clients will share the same user base, making it possible for a user to be created in one client, but then deleted in another. To keep the client-side user data consistent in all clients, you should set a callback URL for each client. finAPI will send a notification to the callback URL of each client whenever a user of your user base gets deleted. Note that finAPI will send a deletion notification to ALL clients, including the one that made the user deletion request to finAPI. So when deleting a user in finAPI, a client should rely on the callback to delete the user on its own side. The notification that finAPI sends to the clients' callback URLs will be a POST request, with this body: {

```
"userId" : string // contains the identifier of the deleted user
"event" : string // this will always be "DELETED"
}
```

Note that finAPI does not process the response of this call. Also note that while the callback URL may be a non-secured (http) URL on the finAPI sandbox or alpha environment, it MUST be a SSL-secured (https) URL on the finAPI live system.

As long as you have just one client, you can ignore this field and let it be null. However keep in mind that in this case your client will not receive any callback when a user gets deleted - so the deletion of the user on the client-side must not be forgotten. Of course you may still use the callback URL even for just one client, if you want to implement the deletion of the user on the client-side via the callback from finAPI. **[required][nullable]** Example:

```
"https://bank.server.com/synchronization"
```

```
"refreshTokensValidityPeriod" : integer [int32],
"userAccessTokensValidityPeriod" : integer [int32],
"clientAccessTokensValidityPeriod" : integer [int32],
```

**V2 2022.42.1**

synchronization. This field should be set if you - as a finAPI customer - have multiple clients using finAPI. In such case, all of your clients will share the same user base, making it possible for a user to be created in one client, but then deleted in another. To keep the client-side user data consistent in all clients, you should set a callback URL for each client. finAPI will send a notification to the callback URL of each client whenever a user of your user base gets deleted. Note that finAPI will send a deletion notification to ALL clients, including the one that made the user deletion request to finAPI. So when deleting a user in finAPI, a client should rely on the callback to delete the user on its own side. The notification that finAPI sends to the clients' callback URLs will be a POST request, with this body: {

```
"userId" : string // contains the identifier of the deleted user
"event" : string // this will always be "DELETED"
}
```

Note that finAPI does not process the response of this call. Also note that while the callback URL may be a non-secured (http) URL on the finAPI sandbox or alpha environment, it MUST be a SSL-secured (https) URL on the finAPI live system.

As long as you have just one client, you can ignore this field and let it be null. However keep in mind that in this case your client will not receive any callback when a user gets deleted - so the deletion of the user on the client-side must not be forgotten. Of course you may still use the callback URL even for just one client, if you want to implement the deletion of the user on the client-side via the callback from finAPI. **[optional]** Example:

```
"https://bank.server.com/synchronization"
```

```
"refreshTokensValidityPeriod" : integer [int32],
"userAccessTokensValidityPeriod" : integer [int32],
"clientAccessTokensValidityPeriod" : integer [int32],
```

## V1 2022.42.1

```

"maxUserLoginAttempts" : integer [int32],
"transactionImportLimitation" : integer [int32],
"isUserAutoVerificationEnabled" : boolean,
"isMandatorAdmin" : boolean,
"isWebScrapingEnabled" : boolean,
"isXs2aEnabled" : boolean,
"pinStorageAvailableInWebForm" : boolean,
"paymentsEnabled" : boolean,
"isStandalonePaymentsEnabled" : boolean,
"availableBankGroups" : array of string,
"products" : array of Product,
"applicationName" : string,

"finTSProductRegistrationNumber" : string, // The FinTS product
registration number. If a value is stored, this will always be 'XXXXX'. [required][nullable] Example: "XXXXX"

"storeSecretsAvailableInWebForm" : boolean,
"supportSubjectDefault" : string,
"supportEmail" : string,
"aisWebFormMode" : WebFormMode,
"pisWebFormMode" : WebFormMode,
"pisStandaloneWebFormMode" : WebFormMode,
"betaBanksEnabled" : boolean,

"categoryRestrictions" : array of Category, // <strong>Type:</strong>
Category

Defines the set of transaction categories to which your client is restricted.
When retrieving transactions (via the GET /transactions services), you may

```

## V2 2022.42.1

```

"maxUserLoginAttempts" : integer [int32],
"transactionImportLimitation" : integer [int32],
"isUserAutoVerificationEnabled" : boolean,
"isMandatorAdmin" : boolean,
"isWebScrapingEnabled" : boolean,
"paymentsEnabled" : boolean,
"isStandalonePaymentsEnabled" : boolean,
"availableBankGroups" : array of string,
"products" : array of Product,

"finTSProductRegistrationNumber" : string, // The FinTS product
registration number. If a value is stored, this will always be 'XXXXX'. [optional] Example: "XXXXX"

"aisViaWebForm" : boolean, // Whether you must use finAPI's Web Form for
Account Information Services. See:
https://documentation.finapi.io/webform/Introduction.2038136860.html
[required] Example: true

"pisViaWebForm" : boolean, // Whether you must use finAPI's Web Form for
Standard Payment Initiation Services (Payments for accounts that have been
imported in finAPI). See:
https://documentation.finapi.io/webform/Introduction.2038136860.html
[required] Example: true

"pisStandaloneViaWebForm" : boolean, // Whether you must use finAPI's Web
Form for Standalone Payment Initiation Services (Payments without account
import). See:
https://documentation.finapi.io/webform/Introduction.2038136860.html
[required] Example: true

"betaBanksEnabled" : boolean,

```

V1 2022.42.1	V2 2022.42.1
<p>request only those transactions whose 'category' is one of the listed categories. If this field is null, then there are no restrictions for your client, and you may retrieve the full set of imported transactions. [required][nullable]</p> <pre>"autoDismountWebForm" : boolean,</pre> <p>"corsAllowedOrigins" : array of string // The list of allowed origins for cross-origin requests. The CORS configuration applies to all the API services except for the /oauth services. If this list is empty, then CORS is not enabled for this client. Please contact the support if you want to enable or change the client's CORS configuration. [required][nullable]</p> <pre>}</pre>	<pre>"categoryRestrictions" : array of Category, // &lt;strong&gt;Type:&lt;/strong&gt; Category</pre> <p>Defines the set of transaction categories to which your client is restricted. When retrieving transactions (via the GET /transactions services), you may request only those transactions whose 'category' is one of the listed categories. If this field is null, then there are no restrictions for your client, and you may retrieve the full set of imported transactions. [optional]</p> <pre>"corsAllowedOrigins" : array of string // The list of allowed origins for cross-origin requests. The CORS configuration applies to all the API services except for the /oauth services. If this list is empty, then CORS is not enabled for this client. Please contact the support if you want to enable or change the client's CORS configuration. [optional]</pre> <pre>}</pre>

## Changes in Type: ClientConfigurationParams

Occurs in the following services:

PATCH /api/v\*/clientConfiguration

V1 2022.42.1	V2 2022.42.1
<p>Client configuration parameters</p> <pre>{   "userNotificationCallbackUrl" : string,   "userSynchronizationCallbackUrl" : string,   "refreshTokensValidityPeriod" : integer [int32],   "userAccessTokensValidityPeriod" : integer [int32],   "clientAccessTokensValidityPeriod" : integer [int32],   "isPinStorageAvailableInWebForm" : boolean,   "storeSecretsAvailableInWebForm" : boolean,   "applicationName" : string,   "finTSProductRegistrationNumber" : string,   "supportSubjectDefault" : string,   "supportEmail" : string,   "betaBanksEnabled" : boolean }</pre>	<p>Client configuration parameters</p> <pre>{   "userNotificationCallbackUrl" : string,   "userSynchronizationCallbackUrl" : string,   "refreshTokensValidityPeriod" : integer [int32],   "userAccessTokensValidityPeriod" : integer [int32],   "clientAccessTokensValidityPeriod" : integer [int32],   "finTSProductRegistrationNumber" : string,   "betaBanksEnabled" : boolean }</pre>

## Changes in Type: ConnectInterfaceParams

Occurs in the following services:

POST /api/v\*/bankConnections/connectInterface

V1 2022.42.1	V2 2022.42.1
<p>Container for interface connection parameters</p> <pre>{   "bankConnectionId" : integer [int64],   "interface" : BankingInterface,   "sourceInterface" : BankingInterface,    "loginCredentials" : array of LoginCredential, // &lt;strong&gt;Type:&lt;/strong&gt; LoginCredential  Set of login credentials. Must be passed in combination with the interface field. [optional]    "storeSecrets" : boolean,   "skipPositionsDownload" : boolean,   "loadOwnerData" : boolean,   "accountTypes" : array of AccountType,   "accountReferences" : array of AccountReference,   "multiStepAuthentication" : object,   "redirectUrl" : string,   "maxDaysForDownload" : integer [int32] }</pre>	<p>Container for interface connection parameters</p> <pre>{   "bankConnectionId" : integer [int64],   "bankingInterface" : BankingInterface, // &lt;strong&gt;Type:&lt;/strong&gt; BankingInterface   "sourceBankingInterface" : BankingInterface, // &lt;strong&gt;Type:&lt;/strong&gt; BankingInterface    The interface to use for connecting with the bank. [required] Possible values: ["WEB_SCRAPER", "FINTS_SERVER", "XS2A"] Example: "XS2A"    The source interface that should be used as the source of credentials. Set it to one of already existing bank connection's interfaces and finAPI will try to use the stored credentials of that interface for the current service call. The source interface must fit the following requirements: - it must have the same set of bank login fields as the main interface (the 'bankingInterface' parameter); - it must have stored values for all its bank login fields. If any of those conditions are not met - the service will throw an appropriate error.  Note: the source interface is ignored if any login credentials are given. [optional] Possible values: ["WEB_SCRAPER", "FINTS_SERVER", "XS2A"] Example: "XS2A"</pre>

V1 2022.42.1

V2 2022.42.1

```
"loginCredentials" : array of LoginCredential, // <strong>Type:</strong>
LoginCredential
```

Set of login credentials. Must **always** be passed, **unless the respective bank interface does not declare any login fields**. [optional]

```
"storeSecrets" : boolean,
"skipPositionsDownload" : boolean,
"loadOwnerData" : boolean,
"accountTypes" : array of AccountType,
"accountReferences" : array of AccountReference,
"multiStepAuthentication" : object,
"redirectUrl" : string,
"maxDaysForDownload" : integer [int32]
}
```

## Changes in Type: CreateDirectDebitParams

Occurs in the following services:

POST /api/v\*/payments/directDebits

V1 2022.42.1	V2 2022.42.1
<p>Container for direct debit creation parameters</p> <pre>{   "singleBooking" : boolean,   "accountId" : integer [int64],   "directDebitType" : DirectDebitType,   "sequenceType" : DirectDebitSequenceType,   "directDebits" : array of DirectDebitOrderParams,    "executionDate" : string // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Execution date for the direct debit(s). May not be in the past. [required] Example: "2018-01-01" }</pre>	<p>Container for direct debit creation parameters</p> <pre>{   "singleBooking" : boolean,   "accountId" : integer [int64],   "directDebitType" : DirectDebitType,   "sequenceType" : DirectDebitSequenceType,   "directDebits" : array of DirectDebitOrderParams,    "executionDate" : string [date] // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Execution date for the direct debit(s). May not be in the past. [required] Example: "2018-01-01" }</pre>

## Changes in Type: CreateMoneyTransferParams

Occurs in the following services:

POST /api/v\*/payments/moneyTransfers

V1 2022.42.1	V2 2022.42.1
<p>Container for money transfer creation parameters</p> <pre>{   "singleBooking" : boolean,   "accountId" : integer [int64],   "iban" : string,    "executionDate" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Execution date for the money transfer(s). May not be in the past. For instant payments, it must either be omitted, or be the current date. If not specified, most banks will use the current date as the instructed date for execution. [optional] Example: "2018-01-01"    "moneyTransfers" : array of MoneyTransferOrderParams,   "instantPayment" : boolean }</pre>	<p>Container for money transfer creation parameters</p> <pre>{   "singleBooking" : boolean,   "accountId" : integer [int64],   "iban" : string,    "executionDate" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Execution date for the money transfer(s). May not be in the past. For instant payments, it must either be omitted, or be the current date. If not specified, most banks will use the current date as the instructed date for execution. [optional] Example: "2018-01-01"    "moneyTransfers" : array of MoneyTransferOrderParams,   "instantPayment" : boolean }</pre>

## Changes in Type: CreateStandingOrderParams

Occurs in the following services:

POST /api/v\*/standingOrders

V1 2022.42.1	V2 2022.42.1
<p>Container for standing order creation parameters</p> <pre>{   "accountId" : integer [int64],   "iban" : string,   "counterpartName" : string,   "counterpartIban" : string,   "amount" : number,   "currency" : Currency,   "purpose" : string,   "sepaPurposeCode" : string,   "endToEndId" : string,    "startDate" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Start date of the standing order. Date must be in the future (at least tomorrow). [required] Example: "2023-01-01"    "endDate" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Termination date of the standing order. If provided, it must be after the 'startDate'. If not provided, then the standing order will have no termination. [optional] Example: "2024-01-01"    "frequency" : StandingOrderFrequency,   "dayOfExecution" : integer [int32]</pre>	<p>Container for standing order creation parameters</p> <pre>{   "accountId" : integer [int64],   "iban" : string,   "counterpartName" : string,   "counterpartIban" : string,   "amount" : number,   "currency" : Currency,   "purpose" : string,   "sepaPurposeCode" : string,   "endToEndId" : string,    "startDate" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Start date of the standing order. Date must be in the future (at least tomorrow). [required] Example: "2023-01-01"    "endDate" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Termination date of the standing order. If provided, it must be after the 'startDate'. If not provided, then the standing order will have no termination. [optional] Example: "2024-01-01"    "frequency" : StandingOrderFrequency }</pre>

V1 2022.42.1	V2 2022.42.1
}	

## Changes in Type: DailyBalance

Occurs in the following services:

GET /api/v\*/accounts/dailyBalances

V1 2022.42.1	V2 2022.42.1
<p>Balance data for a single day</p> <pre>{    "date" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD HH:MM:SS.SSS'   (German time)   Date. [required] Example: "2018-01-01 00:00:00.000"    "balance" : number,   "income" : number,   "spending" : number,   "internalAdjustingEntries" : number,   "transactions" : array of integer }</pre>	<p>Balance data for a single day</p> <pre>{    "date" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'   Date. [required] Example: "2018-01-01"    "balance" : number,   "income" : number,   "spending" : number,   "internalAdjustingEntries" : number,   "transactions" : array of integer }</pre>

## Changes in Type: DailyBalanceList

Occurs in the following services:

GET /api/v\*/accounts/dailyBalances

V1 2022.42.1	V2 2022.42.1
<p>Contains a list of daily balances</p> <pre>{    "latestCommonBalanceTimestamp" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD<del>HH:MM:SS.SSS</del>' (<del>german time</del>) The latestCommonBalanceTimestamp is the latest timestamp at which all regarded   accounts have been up to date. Only balances with their date being smaller   than the latestCommonBalanceTimestamp are reliable. Example: A user has two   accounts: A (last update today, so balance from today) and B (last update   yesterday, so balance from yesterday). The service /accounts/dailyBalances   will return a balance for yesterday and for today, with the info   latestCommonBalanceTimestamp=yesterday. Since account B might have received   transactions this morning, today's balance might be wrong. So either make sure   that all regarded accounts are up to date before calling this service, or use   the results carefully in combination with the latestCommonBalanceTimestamp. [ <del>required, nullable</del>] Example: "2018-01-01<del>00:00:00</del>.000"    "dailyBalances" : array of DailyBalance,   "paging" : object }</pre>	<p>Contains a list of daily balances</p> <pre>{    "latestCommonBalanceTimestamp" : string [<del>date-time</del>], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD<del>T</del>HH:MM:SS.SSS<del>XXX</del>' (<del>RFC 3339, section 5.6</del>) ) The latestCommonBalanceTimestamp is the latest timestamp at which all regarded   accounts have been up to date. Only balances with their date being smaller   than the latestCommonBalanceTimestamp are reliable. Example: A user has two   accounts: A (last update today, so balance from today) and B (last update   yesterday, so balance from yesterday). The service /accounts/dailyBalances   will return a balance for yesterday and for today, with the info   latestCommonBalanceTimestamp=yesterday. Since account B might have received   transactions this morning, today's balance might be wrong. So either make sure   that all regarded accounts are up to date before calling this service, or use   the results carefully in combination with the latestCommonBalanceTimestamp. [ <del>optional</del>] Example: "2018-01-01<del>09:18:40.473+01:00</del>"    "dailyBalances" : array of DailyBalance,   "paging" : object }</pre>

## Changes in Type: DirectDebitOrderParams

Occurs in the following services:

POST /api/v\*/payments/directDebits

V1 2022.42.1	V2 2022.42.1
<p>Parameters for a direct debit order</p> <pre>{   "counterpartName" : string,   "counterpartIban" : string,   "counterpartBic" : string,   "amount" : number,   "purpose" : string,   "sepaPurposeCode" : string,   "endToEndId" : string,   "mandateId" : string,    "mandateDate" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Date of the mandate that this direct debit order is based on [required] Example: "2018-01-01"    "creditorId" : string,   "counterpartAddress" : string,   "counterpartCountry" : ISO3166Alpha2Codes }</pre>	<p>Parameters for a direct debit order</p> <pre>{   "counterpartName" : string,   "counterpartIban" : string,   "counterpartBic" : string,   "amount" : number,   "purpose" : string,   "sepaPurposeCode" : string,   "endToEndId" : string,   "mandateId" : string,    "mandateDate" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Date of the mandate that this direct debit order is based on [required] Example: "2018-01-01"    "creditorId" : string,   "counterpartAddress" : string,   "counterpartCountry" : ISO3166Alpha2Codes }</pre>

## Changes in Type: EditBankConnectionParams

Occurs in the following services:

PATCH /api/v\*/bankConnections/{id}

V1 2022.42.1	V2 2022.42.1
<p>Container for bank connection edit params</p> <pre>{   "name" : string,   "bankingUserId" : string,   "bankingCustomerId" : string,   "bankingPin" : string,   "interface" : BankingInterface,    "loginCredentials" : array of LoginCredential, // &lt;strong&gt;Type:&lt;/strong&gt; LoginCredential</pre> <p>Set of login credentials that you want to edit. Must be passed in combination with the 'interface' field. The labels that you pass must match with the login credential labels that the respective interface defines. If you want to clear the stored value for a credential, you can pass an empty string ("") as value . In case you need to use finAPI's Web Form to let the user update the login credentials, send all fields the user wishes to update with a non-empty value. In case all fields contain an empty string (""), no Web Form will be generated . Note that any change in the credentials will automatically remove the saved consent data associated with those credentials.</p> <p>&lt;strong&gt;NOTE:&lt;/strong&gt; If you are a Web Form 2.0 customer, and would like to allow your end-users to change the credentials they have stored in our system, then please navigate &lt;a target="_blank" href='?product=web_form_2.0#post-</p>	<p>Container for bank connection edit params</p> <pre>{   "name" : string,   "bankingInterface" : BankingInterface, // &lt;strong&gt;Type:&lt;/strong&gt; BankingInterface } The interface for which you want to edit data. Must be given when you pass 'loginCredentials' and/or a 'defaultTwoStepProcedureId'. [optional] Possible values: ["WEB_SCRAPER", "FINTS_SERVER", "XS2A"] Example: "FINTS_SERVER"</pre> <p>"loginCredentials" : array of LoginCredential, // &lt;strong&gt;Type:&lt;/strong&gt; LoginCredential</p> <p>Set of login credentials that you want to edit. Must be passed in combination with the 'bankingInterface' field. The labels that you pass must match with the login credential labels that the respective interface defines. If you want to clear the stored value for a credential, you can pass an empty string ("") as value. Note that any change in the credentials will automatically remove the saved consent data associated with those credentials.</p> <p>&lt;strong&gt;NOTE:&lt;/strong&gt; If you are a Web Form 2.0 customer, and would like to allow your end-users to change the credentials they have stored in our system, then please navigate &lt;a target="_blank" href='?product=web_form_2.0#post-/api/tasks/backgroundUpdate' target='_blank'&gt;here&lt;/a&gt; to implement the same</p>

V1 2022.42.1	V2 2022.42.1
<pre> /api/tasks/backgroundUpdate' target='_blank'&gt;here&lt;/a&gt; to implement the same functionality. [optional]  "defaultTwoStepProcedureId" : string // NOTE: In the future, this field will work only in combination with the 'interface' field. ■ New default two-step-procedure. Must match the 'procedureId' of one of the procedures that are listed in the bank connection. If you do not want to change this field let it remain unset. If you want to clear the current default two-step-procedure, set the field's value to an empty string ("").  &lt;strong&gt;NOTE:&lt;/strong&gt; If you are a Web Form 2.0 customer and would like to allow your end users to update their preferred TAN procedure that is stored in our system, then please navigate &lt;a target="_blank" href='?product=web_form_2.0#post-/api/tasks/backgroundUpdate'&gt;here&lt;/a&gt; to implement the same functionality. [optional] Example: "955" } </pre>	<pre> functionality. [optional]  "defaultTwoStepProcedureId" : string // New default two-step-procedure. Must match the 'procedureId' of one of the procedures that are listed in the bank connection. If you do not want to change this field let it remain unset. If you want to clear the current default two-step-procedure, set the field's value to an empty string ("").  &lt;strong&gt;NOTE:&lt;/strong&gt; If you are a Web Form 2.0 customer and would like to allow your end users to update their preferred TAN procedure that is stored in our system, then please navigate &lt;a target="_blank" href='?product=web_form_2.0#post-/api/tasks/backgroundUpdate'&gt;here&lt;/a&gt; to implement the same functionality. [optional] Example: "955" } </pre>

## Changes in Type: EditTppCredentialParams

Occurs in the following services:

PATCH /api/v\*/tppCredentials/{id}

V1 2022.42.1	V2 2022.42.1
<p>A container for editing TPP client credentials data</p> <pre>{   "tppAuthenticationGroupId" : integer [int64],   "label" : string,   "tppClientId" : string,   "tppClientSecret" : string,   "tppApiKey" : string,   "tppName" : string,    "validFromDate" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'   Credentials "valid from" date. Default is today's date [optional] Example:   "2019-04-23"    "validUntilDate" : string // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'   Credentials "valid until" date. Default is null which means "indefinite" (no   limit) [optional] Example: "2022-04-23" }</pre>	<p>A container for editing TPP client credentials data</p> <pre>{   "tppAuthenticationGroupId" : integer [int64],   "label" : string,   "tppClientId" : string,   "tppClientSecret" : string,   "tppApiKey" : string,   "tppName" : string,    "validFromDate" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'   Credentials "valid from" date. Default is today's date [optional] Example:   "2019-04-23"    "validUntilDate" : string [date] // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'   Credentials "valid until" date. Default is null which means "indefinite" (no   limit) [optional] Example: "2022-04-23" }</pre>

## Changes in Type: **ErrorDetails**

NOTE: Is contained in type *ErrorMessage*, which can be returned from all services!

V1 2022.42.1	V2 2022.42.1
<p>Error details</p> <pre>{    "message" : string, // Error message [required][nullable] Example: "An unexpected error occurred"    "code" : ErrorCode,   "type" : ErrorType,    "multiStepAuthentication" : object // &lt;strong&gt;Type:&lt;/strong&gt; MultiStepAuthenticationChallenge</pre> <p>This field is set when a multi-step authentication is required, i.e. when you need to repeat the original service call and provide additional data. The field contains information about what additional data is required. [required][nullable]</p> <pre>}</pre>	<p>Error details</p> <pre>{    "message" : string, // Error message [optional] Example: "An unexpected error occurred"    "code" : ErrorCode,   "type" : ErrorType,    "multiStepAuthentication" : object // &lt;strong&gt;Type:&lt;/strong&gt; MultiStepAuthenticationChallenge</pre> <p>This field is set when a multi-step authentication is required, i.e. when you need to repeat the original service call and provide additional data. The field contains information about what additional data is required. [optional]</p> <pre>}</pre>

## Changes in Type: ErrorMessage

NOTE: Can be returned from all services!

V1 2022.42.1	V2 2022.42.1
<p>Response type when a service call was not successful. Contains details about the error(s) that occurred.</p> <pre>{   "errors" : array of ErrorDetails,    "date" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DDHH:MM:SS.SSS' (reman time)   Server date of when the error(s) occurred [required] Example: "2018-01-0100:00:00.000"    "requestId" : string,   "endpoint" : string,   "authContext" : string,    "bank" : string // BLZ and name (in format "&lt;BLZ&gt; - &lt;name&gt;") of a bank that was used for the original request [required] [nullable] Example: "00000000" }</pre>	<p>Response type when a service call was not successful. Contains details about the error(s) that occurred.</p> <pre>{   "errors" : array of ErrorDetails,    "date" : string [date-time], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DDTHH:MM:SS.SSSXXX' (RFC 3339, section 5.6)   Server date of when the error(s) occurred [required] Example: "2018-01-01T00:18:40.473+01:00"    "requestId" : string,   "endpoint" : string,   "authContext" : string,    "bank" : string // BLZ and name (in format "&lt;BLZ&gt; - &lt;name&gt;") of a bank that was used for the original request [optional] Example: "00000000" }</pre>

## Changes in Type: IbanRule

Occurs in the following services:

POST /api/v\*/mandatorAdmin/ibanRules

GET /api/v\*/mandatorAdmin/ibanRules

V1 2022.42.1	V2 2022.42.1
<p>Container for an IBAN rule</p> <pre>{   "id" : integer [int64],   "category" : object,   "direction" : TransactionDirection,    "creationDate" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD HH:MM:SS.SSS' (German time) Timestamp of when the rule was created. [required] Example: "2018-01-01 00:00: 00.000"    "iban" : string }</pre>	<p>Container for an IBAN rule</p> <pre>{   "id" : integer [int64],   "category" : object,   "direction" : TransactionDirection,    "creationDate" : string [date-time], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM- DD T HH:MM:SS.SSSXXX' (RFC 3339, section 5.6) Timestamp of when the rule was created. [required] Example: "2018-01-01 09:18: 40.473+01:00"    "iban" : string }</pre>

## Changes in Type: ImportBankConnectionParams

Occurs in the following services:

POST /api/v\*/bankConnections/import

V1 2022.42.1	V2 2022.42.1
<p>Container for bank connection import parameters</p> <pre>{   "bankId" : integer [int64],   "name" : string,   "bankingUserId" : string,   "bankingCustomerId" : string,   "bankingPin" : string,   "storePin" : boolean,   "interface" : BankingInterface,    "loginCredentials" : array of LoginCredential, // &lt;strong&gt;Type:&lt;/strong&gt; LoginCredential  Set of login credentials. Must be passed in combination with the "interface" field. [optional]    "storeSecrets" : boolean,   "skipPositionsDownload" : boolean,   "loadOwnerData" : boolean,   "maxDaysForDownload" : integer [int32],   "accountTypes" : array of AccountType,   "accountTypeIds" : array of integer,   "accountReferences" : array of AccountReference,   "challengeResponse" : string,</pre>	<p>Container for bank connection import parameters</p> <pre>{   "bankId" : integer [int64],   "name" : string,   "bankingInterface" : BankingInterface, // &lt;strong&gt;Type:&lt;/strong&gt; BankingInterface   "loginCredentials" : array of LoginCredential, // &lt;strong&gt;Type:&lt;/strong&gt; LoginCredential  Set of login credentials. Must always be passed, unless the respective bank in terface does not declare any login fields. [optional]    "storeSecrets" : boolean,   "skipPositionsDownload" : boolean,   "loadOwnerData" : boolean,   "maxDaysForDownload" : integer [int32],   "accountTypes" : array of AccountType,   "accountReferences" : array of AccountReference,   "multiStepAuthentication" : object,   "redirectUrl" : string</pre>

V1 2022.42.1	V2 2022.42.1
<pre>"multiStepAuthentication" : object, "redirectUrl" : string }</pre>	<pre>}</pre>

## Changes in Type: KeywordRule

Occurs in the following services:

POST /api/v\*/mandatorAdmin/keywordRules

GET /api/v\*/mandatorAdmin/keywordRules

V1 2022.42.1	V2 2022.42.1
<p>Container for a keyword rule</p> <pre>{   "id" : integer [int64],   "category" : object,   "direction" : TransactionDirection,    "creationDate" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD HH:MM:SS.SSS' (German time) Timestamp of when the rule was created. [required] Example: "2018-01-01 00:00:00.000"    "keywords" : array of string,   "allKeywordsMustMatch" : boolean }</pre>	<p>Container for a keyword rule</p> <pre>{   "id" : integer [int64],   "category" : object,   "direction" : TransactionDirection,    "creationDate" : string [date-time], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM- DDTHH:MM:SS.SSSXXX' (RFC 3339, section 5.6) Timestamp of when the rule was created. [required] Example: "2018-01-01 09:18:40.473+01:00"    "keywords" : array of string,   "allKeywordsMustMatch" : boolean }</pre>

## Changes in Type: LoginCredentialResource

Occurs in the following services:

POST /api/v\*/bankConnections/update

POST /api/v\*/bankConnections/import

POST /api/v\*/bankConnections/connectInterface

GET /api/v\*/bankConnections/{id}

PATCH /api/v\*/bankConnections/{id}

GET /api/v\*/bankConnections

GET /api/v\*/bankConnections/{ids}

V1 2022.42.1	V2 2022.42.1
<p>Container for a bank login credential</p> <pre>{   "label" : string,    "value" : string // Stored value for this login credential. Please NOTE: If your client has no license for processing banking credentials, or if this field contains a value that requires password protection (e.g. PIN), then this field will always be 'XXXXX'. [required] [nullable] Example: "123456" }</pre>	<p>Container for a bank login credential</p> <pre>{   "label" : string,    "value" : string // Stored value for this login credential. Please NOTE: If your client has no license for processing banking credentials, or if this field contains a value that requires password protection (e.g. PIN), then this field will always be 'XXXXX'. [optional] Example: "123456" }</pre>

## Changes in Type: MockBankConnectionUpdate

Occurs in the following services:

POST /api/v\*/tests/mockBatchUpdate

V1 2022.42.1	V2 2022.42.1
<p>Data for a mock bank connection update</p> <pre>{   "bankConnectionId" : integer [int64],   "interface" : BankingInterface,   "simulateBankLoginError" : boolean,   "mockAccountsData" : array of MockAccountData }</pre>	<p>Data for a mock bank connection update</p> <pre>{   "bankConnectionId" : integer [int64],   "bankingInterface" : BankingInterface, // &lt;strong&gt;Type:&lt;/strong&gt;   BankingInterface   ■   The banking interface to use. [required] Possible values:   ["WEB_SCRAPER", "FINTS_SERVER", "XS2A"] Example: "XS2A"   "simulateBankLoginError" : boolean,   "mockAccountsData" : array of MockAccountData }</pre>

## Changes in Type: MultiStepAuthenticationChallenge

*Occurs in the following services:*

```
POST /oauth/token -> POST /api/v*/oauth/token
POST /oauth/revoke -> POST /api/v*/oauth/revoke
GET /api/v*/users
POST /api/v*/users
DELETE /api/v*/users
PATCH /api/v*/users
POST /api/v*/users/verify/{userId}
POST /api/v*/users/requestPasswordChange
POST /api/v*/users/executePasswordChange
POST /api/v*/transactions/{id}/split
POST /api/v*/transactions/{id}/restore
POST /api/v*/transactions/triggerCategorization
GET /api/v*/tppCredentials
POST /api/v*/tppCredentials
GET /api/v*/tppCertificates
POST /api/v*/tppCertificates
POST /api/v*/tests/mockBatchUpdate
POST /api/v*/tests/checkCategorization
GET /api/v*/standingOrders
POST /api/v*/standingOrders
POST /api/v*/standingOrders/submit
POST /api/v*/payments/submit
POST /api/v*/payments/moneyTransfers
POST /api/v*/payments/directDebits
GET /api/v*/notificationRules
POST /api/v*/notificationRules
DELETE /api/v*/notificationRules
POST /api/v*/mandatorAdmin/switchApiVersion
GET /api/v*/mandatorAdmin/keywordRules
POST /api/v*/mandatorAdmin/keywordRules
```

POST /api/v\*/mandatorAdmin/keywordRules/delete  
GET /api/v\*/mandatorAdmin/ibanRules  
POST /api/v\*/mandatorAdmin/ibanRules  
POST /api/v\*/mandatorAdmin/ibanRules/delete  
POST /api/v\*/mandatorAdmin/deleteUsers  
POST /api/v\*/mandatorAdmin/changeClientCredentials  
GET /api/v\*/labels  
POST /api/v\*/labels  
DELETE /api/v\*/labels  
GET /api/v\*/categories  
POST /api/v\*/categories  
DELETE /api/v\*/categories  
POST /api/v\*/categories/trainCategorization  
POST /api/v\*/bankConnections/update  
POST /api/v\*/bankConnections/removeInterface  
POST /api/v\*/bankConnections/import  
POST /api/v\*/bankConnections/connectInterface  
POST /api/v\*/accounts/requestSepaMoneyTransfer  
POST /api/v\*/accounts/requestSepaDirectDebit  
POST /api/v\*/accounts/executeSepaMoneyTransfer  
POST /api/v\*/accounts/executeSepaDirectDebit  
GET /api/v\*/transactions  
DELETE /api/v\*/transactions  
PATCH /api/v\*/transactions  
GET /api/v\*/transactions/{ids}  
PATCH /api/v\*/transactions/{ids}  
GET /api/v\*/transactions/{id}  
DELETE /api/v\*/transactions/{id}  
PATCH /api/v\*/transactions/{id}  
GET /api/v\*/tppCredentials/{id}  
DELETE /api/v\*/tppCredentials/{id}  
PATCH /api/v\*/tppCredentials/{id}

GET /api/v\*/labels/{id}  
DELETE /api/v\*/labels/{id}  
PATCH /api/v\*/labels/{id}  
GET /api/v\*/clientConfiguration  
PATCH /api/v\*/clientConfiguration  
GET /api/v\*/categories/{id}  
DELETE /api/v\*/categories/{id}  
PATCH /api/v\*/categories/{id}  
GET /api/v\*/bankConnections/{id}  
DELETE /api/v\*/bankConnections/{id}  
PATCH /api/v\*/bankConnections/{id}  
GET /api/v\*/accounts/{id}  
DELETE /api/v\*/accounts/{id}  
PATCH /api/v\*/accounts/{id}  
GET /api/v\*/webForms/{id}  
GET /api/v\*/users/verificationStatus  
GET /api/v\*/tppCredentials/tppAuthenticationGroups  
GET /api/v\*/tppCertificates/{id}  
DELETE /api/v\*/tppCertificates/{id}  
GET /api/v\*/securities  
GET /api/v\*/securities/{ids}  
GET /api/v\*/securities/{id}  
GET /api/v\*/payments  
GET /api/v\*/notificationRules/{id}  
DELETE /api/v\*/notificationRules/{id}  
GET /api/v\*/mandatorAdmin/getUserList  
GET /api/v\*/labels/{ids}  
GET /api/v\*/categories/{ids}  
GET /api/v\*/categories/cashFlows  
GET /api/v\*/banks  
GET /api/v\*/banks/{ids}  
GET /api/v\*/banks/{id}

```

GET /api/v*/bankConnections
DELETE /api/v*/bankConnections
GET /api/v*/bankConnections/{ids}
GET /api/v*/accounts
DELETE /api/v*/accounts
GET /api/v*/accounts/{ids}
GET /api/v*/accounts/dailyBalances
DELETE /api/v*/users/{userId}
DELETE /api/v*/bankConnections/{id}/aisConsent

```

V1 2022.42.1	V2 2022.42.1
<p>Container for multi-step authentication data, as returned by finAPI to the client</p> <pre> {   "hash" : string,   "status" : MsaStatus,    "challengeMessage" : string, // In case of status = CHALLENGE_RESPONSE_REQUIRED, this field contains a message from the bank containing instructions for the user on how to proceed with the authorization. [required][nullable] Example: "Bitte die TAN verwenden, die Sie per SMS erhalten haben."    "answerFieldLabel" : string, // Suggestion from the bank on how you can label your input field where the user should enter his challenge response. [ required][nullable] Example: "TAN-Nummer"    "redirectUrl" : string, // In case of status = REDIRECT_REQUIRED, this field contains the URL to which you must direct the user. It already includes </pre>	<p>Container for multi-step authentication data, as returned by finAPI to the client</p> <pre> {   "hash" : string,   "status" : MsaStatus,    "challengeMessage" : string, // In case of status = CHALLENGE_RESPONSE_REQUIRED, this field contains a message from the bank containing instructions for the user on how to proceed with the authorization. [optional] Example: "Bitte die TAN verwenden, die Sie per SMS erhalten haben."    "answerFieldLabel" : string, // Suggestion from the bank on how you can label your input field where the user should enter his challenge response. [ optional] Example: "TAN-Nummer"    "redirectUrl" : string, // In case of status = REDIRECT_REQUIRED, this field contains the URL to which you must direct the user. It already includes the redirect URL back to your client that you have passed when initiating the </pre>

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the redirect URL back to your client that you have passed when initiating the service call. [required][nullable] Example: "https://user-login.bank.de/"

"redirectContext" : string, // Set in case of status = REDIRECT\_REQUIRED. When the bank redirects the user back to your client, the redirect URL will contain this string, which you must process to identify the user context for the callback on your side. [required][nullable] Example: "12345"

"redirectContextField" : string, // Set in case of status = REDIRECT\_REQUIRED. This field is set to the name of the query parameter that contains the 'redirectContext' in the redirect URL from the bank back to your client. [required][nullable] Example: "state"

"twoStepProcedures" : array of TwoStepProcedure, // <strong>Type:</strong> TwoStepProcedure

In case of status = TWO\_STEP\_PROCEDURE\_REQUIRED, this field contains the available two-step procedures. Note that this set does not necessarily match the set that is stored in the respective bank connection interface. You should always use the set from this field for the multi-step authentication flow. [required][nullable]

"photoTanMimeType" : string, // In case that the 'photoTanData' field is set (i.e. not null), this field contains the MIME type to use for interpreting the photo data (e.g.: 'image/png') [required][nullable] Example: "image/svg+xml"

**V2 2022.42.1**

service call. [optional] Example: "https://user-login.bank.de/"

"redirectContext" : string, // Set in case of status = REDIRECT\_REQUIRED. When the bank redirects the user back to your client, the redirect URL will contain this string, which you must process to identify the user context for the callback on your side. [optional] Example: "12345"

"redirectContextField" : string, // Set in case of status = REDIRECT\_REQUIRED. This field is set to the name of the query parameter that contains the 'redirectContext' in the redirect URL from the bank back to your client. [optional] Example: "state"

"twoStepProcedures" : array of TwoStepProcedure, // <strong>Type:</strong> TwoStepProcedure

In case of status = TWO\_STEP\_PROCEDURE\_REQUIRED, this field contains the available two-step procedures. Note that this set does not necessarily match the set that is stored in the respective bank connection interface. You should always use the set from this field for the multi-step authentication flow. [optional]

"photoTanMimeType" : string, // In case that the 'photoTanData' field is set (i.e. not null), this field contains the MIME type to use for interpreting the photo data (e.g.: 'image/png') [optional] Example: "image/svg+xml"



V1 2022.42.1	V2 2022.42.1
<pre>2LjAyNy0xMy4xNjgsMTguODc0eiIgZmlsbD0iIzAwMDAwMCIvPgogIDwvZz4KPC9zdmc+Cg=="      "opticalData" : string, // In case that the bank server has instructed the user to scan a flicker code, then this field will contain the raw data for the flicker animation as a BASE-64 string. [required][nullable] Example: "11048813833205002812775114302C30315D"      "opticalDataAsReinerSct" : boolean }</pre>	<pre>    "opticalData" : string, // In case that the bank server has instructed the user to scan a flicker code, then this field will contain the raw data for the flicker animation as a BASE-64 string. [optional] Example: "11048813833205002812775114302C30315D"      "opticalDataAsReinerSct" : boolean }</pre>

## Changes in Type: NewTransaction

Occurs in the following services:

POST /api/v\*/tests/mockBatchUpdate

V1 2022.42.1	V2 2022.42.1
<p>Mock transaction data</p> <pre>{   "amount" : number,   "currency" : Currency,   "originalAmount" : number,   "originalCurrency" : Currency,   "purpose" : string,   "counterpart" : string,   "counterpartIban" : string,   "counterpartBlz" : string,   "counterpartBic" : string,   "counterpartAccountNumber" : string,    "bookingDate" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</pre> <p>Booking date.</p> <p>If the date lies back more than 10 days from the booking date of the latest transaction that currently exists in the account, then this transaction will be ignored and not imported. If the date depicts a date in the future, then finAPI will deal with it the same way as it does with real transactions during a real update (see fields 'bankBookingDate' and 'finapiBookingDate' in the Transaction Resource for explanation).</p> <p>This field is optional, default value is the current date. [optional] Example:</p>	<p>Mock transaction data</p> <pre>{   "amount" : number,   "currency" : Currency,   "originalAmount" : number,   "originalCurrency" : Currency,   "purpose" : string,   "counterpart" : string,   "counterpartIban" : string,   "counterpartBlz" : string,   "counterpartBic" : string,   "counterpartAccountNumber" : string,    "bookingDate" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'</pre> <p>Booking date.</p> <p>If the date lies back more than 10 days from the booking date of the latest transaction that currently exists in the account, then this transaction will be ignored and not imported. If the date depicts a date in the future, then finAPI will deal with it the same way as it does with real transactions during a real update (see fields 'bankBookingDate' and 'finapiBookingDate' in the Transaction Resource for explanation).</p> <p>This field is optional, default value is the current date. [optional] Example:</p>

V1 2022.42.1	V2 2022.42.1
<p data-bbox="91 209 259 233">"2018-01-01"</p> <p data-bbox="91 339 1041 448">"valueDate" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Value date. Optional. Default value: Same as the booking date. [optional] Example: "2018-01-01"</p> <p data-bbox="91 512 656 836">"typeId" : integer [int32], "counterpartMandateReference" : string, "counterpartCreditorId" : string, "counterpartCustomerReference" : string, "counterpartDebitorId" : string, "type" : string, "typeCodeSwift" : string, "sepaPurposeCode" : string</p> <p data-bbox="91 852 120 876">}</p>	<p data-bbox="1115 209 1283 233">"2018-01-01"</p> <p data-bbox="1115 339 2065 448">"valueDate" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Value date. Optional. Default value: Same as the booking date. [optional] Example: "2018-01-01"</p> <p data-bbox="1115 512 1680 836">"typeId" : integer [int32], "counterpartMandateReference" : string, "counterpartCreditorId" : string, "counterpartCustomerReference" : string, "counterpartDebitorId" : string, "type" : string, "typeCodeSwift" : string, "sepaPurposeCode" : string</p> <p data-bbox="1115 852 1146 876">}</p>

## Changes in Type: NotificationRule

Occurs in the following services:

POST /api/v\*/notificationRules

GET /api/v\*/notificationRules/{id}

GET /api/v\*/notificationRules

V1 2022.42.1	V2 2022.42.1
<p>Data of notification rule</p> <pre>{   "id" : integer [int64],   "triggerEvent" : string,   "params" : object,    "callbackHandle" : string, // The string that finAPI includes into the notifications that it sends based on this rule. [required][nullable] Example: "handle"    "includeDetails" : boolean }</pre>	<p>Data of notification rule</p> <pre>{   "id" : integer [int64],   "triggerEvent" : string,   "params" : object,    "callbackHandle" : string, // The string that finAPI includes into the notifications that it sends based on this rule. [optional] Example: "handle"    "includeDetails" : boolean }</pre>

## Changes in Type: PasswordChangingResource

Occurs in the following services:

POST /api/v\*/users/requestPasswordChange

V1 2022.42.1	V2 2022.42.1
<p>Password changing details</p> <pre>{   "userId" : string,    "userEmail" : string, // User's email, encrypted. Decrypt with your data   decryption key. If the user has no email set, then this field will be null. [   required][nullable] Example: "email@localhost.de"    "passwordChangeToken" : string }</pre>	<p>Password changing details</p> <pre>{   "userId" : string,    "userEmail" : string, // User's email, encrypted. Decrypt with your data   decryption key. If the user has no email set, then this field will be null. [   optional] Example: "email@localhost.de"    "passwordChangeToken" : string }</pre>

## Changes in Type: Payment

Occurs in the following services:

POST /api/v\*/payments/submit

POST /api/v\*/payments/moneyTransfers

POST /api/v\*/payments/directDebits

GET /api/v\*/payments

V1 2022.42.1	V2 2022.42.1
<p>Container for a payment's data</p> <pre>{   "id" : integer [int64],    "accountId" : integer [int64], // Identifier of the account to which this payment relates. This field is only set if it was specified upon creation of the payment. [required][nullable] Example: 1    "iban" : string, // IBAN of the account to which this payment relates. This field is only set if it was specified upon creation of the payment. [requi red][nullable] Example: "DE89370400440532013000"    "type" : PaymentType,   "amount" : number,   "orderCount" : integer [int32],   "status" : OrderInitiationStatus,    "bankMessage" : string, // The bank's response to the most recent request for this payment. Possible requests are: Initial submission of the payment, execution request or subsequent status checks. Note that this field may not</pre>	<p>Container for a payment's data</p> <pre>{   "id" : integer [int64],    "accountId" : integer [int64], // Identifier of the account to which this payment relates. This field is only set if it was specified upon creation of the payment. [optional] Example: 1    "iban" : string, // IBAN of the account to which this payment relates. This field is only set if it was specified upon creation of the payment. [optio nal] Example: "DE89370400440532013000"    "type" : PaymentType,   "amount" : number,   "orderCount" : integer [int32],   "status" : OrderInitiationStatus,    "bankMessage" : string, // The bank's response to the most recent request for this payment. Possible requests are: Initial submission of the payment, execution request or subsequent status checks. Note that this field may not</pre>

**V1 2022.42.1**

always (or never) be set. Also, as long as the payment has not reached its final status, this field can always change. **[required][nullable]**

"requestDate" : string, // <strong>Format:</strong> 'YYYY-MM-DD HH:MM:SS.SSS' (**German time**)

Time of when finAPI submitted this payment to the bank. **[required][nullable]**  
Example: "2018-01-01 00:00:00.000"

"executionDate" : string, // <strong>Format:</strong> 'YYYY-MM-DD HH:MM:SS.SSS' (**German time**)

Time of when the execution of this payment has completed.

## Note:

- When the execution of a payment has completed, it does not necessarily mean that the payment was successful. Please refer to the payment 'status' for its final status.

- The execution date may deviate from the date when the bank will actually book the payment (for example if the 'instructedExecutionDate' is in the future). **[required][nullable]** Example: "2018-01-01 00:00:00.000"

"instructedExecutionDate" : string, // <strong>Format:</strong> 'YYYY-MM-DD'

The date that was specified as 'executionDate' upon creation of the payment. This field may not be set if no 'executionDate' was specified upon payment creation. **[required][nullable]** Example: "2019-01-01"

**V2 2022.42.1**

always (or never) be set. Also, as long as the payment has not reached its final status, this field can always change. **[optional]**

"requestDate" : string **[date-time]**, // <strong>Format:</strong> 'YYYY-MM-DD T HH:MM:SS.SSSXXX' (**RFC 3339, section 5.6**)

Time of when finAPI submitted this payment to the bank. **[optional]** Example: "2018-01-01 09:18:40.473+01:00"

"executionDate": string **[date-time]**, // <strong>Format:</strong> 'YYYY-MM-DD T HH:MM:SS.SSSXXX' (**RFC 3339, section 5.6**)

Time of when the execution of this payment has completed.

## Note:

- When the execution of a payment has completed, it does not necessarily mean that the payment was successful. Please refer to the payment 'status' for its final status.

- The execution date may deviate from the date when the bank will actually book the payment (for example if the 'instructedExecutionDate' is in the future). **[optional]** Example: "2018-01-01 09:18:40.473+01:00"

"instructedExecutionDate" : string **[date]**, // <strong>Format:</strong> 'YYYY-MM-DD'

The date that was specified as 'executionDate' upon creation of the payment. This field may not be set if no 'executionDate' was specified upon payment creation. **[optional]** Example: "2019-01-01"

V1 2022.42.1	V2 2022.42.1
<pre>"instantPayment" : boolean // Whether the order was submitted to the bank as an instant SEPA order. [required, nullable] Example: false }</pre>	<pre>"instantPayment" : boolean // Whether the order was submitted to the bank as an instant SEPA order. [optional] Example: false }</pre>

## Changes in Type: PayPalTransactionData

Occurs in the following services:

POST /api/v\*/transactions/{id}/split

POST /api/v\*/transactions/{id}/restore

GET /api/v\*/transactions/{id}

PATCH /api/v\*/transactions/{id}

GET /api/v\*/transactions

GET /api/v\*/transactions/{ids}

V1 2022.42.1	V2 2022.42.1
<p>Additional, PayPal-specific transaction data. This field is only set for transactions that belong to an account of the PayPal bank.</p> <pre>{    "invoiceNumber" : string, // Invoice Number. [required][nullable] Example:   "INV2-KXVU-7Z64-DT6W-MG2X"    "fee" : number, // Fee value. [required][nullable] Example: -0.99    "net" : number, // Net value. [required][nullable] Example: 9.99    "auctionSite" : string }</pre>	<p>Additional, PayPal-specific transaction data. This field is only set for transactions that belong to an account of the PayPal bank.</p> <pre>{    "invoiceNumber" : string, // Invoice Number. [optional] Example: "INV2-   KXVU-7Z64-DT6W-MG2X"    "fee" : number, // Fee value. [optional] Example: -0.99    "net" : number // Net value. [optional] Example: 9.99 }</pre>

## Changes in Type: RemoveInterfaceParams

Occurs in the following services:

POST /api/v\*/bankConnections/removeInterface

V1 2022.42.1	V2 2022.42.1
<p>Container for interface removal parameters</p> <pre data-bbox="94 359 1115 825">{   "bankConnectionId" : integer [int64],   "interface" : BankingInterface }</pre>	<p>Container for interface removal parameters</p> <pre data-bbox="1115 359 2141 825">{   "bankConnectionId" : integer [int64],   "bankingInterface" : BankingInterface // &lt;strong&gt;Type:&lt;/strong&gt;   BankingInterface   ■   The interface which you want to remove. [required] Possible values:   ["WEB_SCRAPER", "FINTS_SERVER", "XS2A"] Example: "FINTS_SERVER" }</pre>

## Changes in Type: Security

Occurs in the following services:

GET /api/v\*/securities/{id}

GET /api/v\*/securities

GET /api/v\*/securities/{ids}

V1 2022.42.1	V2 2022.42.1
<p>Container for a security position's data</p> <pre>{   "id" : integer [int64],   "accountId" : integer [int64],    "name" : string, // Name [required][nullable] Example: "Wertpapierbezeichnung"    "isin" : string, // ISIN [required][nullable] Example: "DE0008404005"    "wkn" : string, // WKN [required][nullable] Example: "840400"    "quote" : number, // Quote [required][nullable] Example: 99.999999    "quoteCurrency" : string, // Currency of quote [required][nullable] Example: "EUR"</pre>	<p>Container for a security position's data</p> <pre>{   "id" : integer [int64],   "accountId" : integer [int64],    "name" : string, // Name [optional] Example: "Wertpapierbezeichnung"    "isin" : string, // ISIN [optional] Example: "DE0008404005"    "wkn" : string, // WKN [optional] Example: "840400"    "quote" : number, // Quote [optional] Example: 99.999999    "quoteCurrency" : string, // Currency of quote [optional] Example: "EUR"    "quoteType" : SecurityPositionQuoteType, // &lt;strong&gt;Type:&lt;/strong&gt; SecurityPositionQuoteType</pre>

V1 2022.42.1

"quoteType" : SecurityPositionQuoteType, // <strong>Type:</strong>

SecurityPositionQuoteType

Type of quote. 'PERC' if quote is a percentage value, 'ACTU' if quote is the actual amount [required][nullable] Possible values: ["ACTU","PERC"] Example: "ACTU"

"quoteDate" : string, // <strong>Format:</strong> 'YYYY-MM-DD

HH:MM:SS.SSS' (German time)

Quote date. [required][nullable] Example: "2018-01-01 00:00:00.000"

"quantityNominal" : number, // Value of quantity or nominal [required][nullable] Example: 99.999999

"quantityNominalType" : SecurityPositionQuantityNominalType, //

<strong>Type:</strong> SecurityPositionQuantityNominalType

Type of quantity or nominal value. 'UNIT' if value is a quantity, 'FAMT' if value is the nominal amount [required][nullable] Possible values: ["UNIT","FAMT"] Example: "UNIT"

"marketValue" : number, // Market value [required][nullable] Example: 99.999999

"marketValueCurrency" : string, // Currency of market value [required][null

V2 2022.42.1

Type of quote. 'PERC' if quote is a percentage value, 'ACTU' if quote is the actual amount [optional] Possible values: ["ACTU","PERC"] Example: "ACTU"

"quoteDate" : string [date-time], // <strong>Format:</strong> 'YYYY-MM-DD HH:MM:SS.SSSXXX' (RFC 3339, section 5.6)

Quote date. [optional] Example: "2018-01-01T09:18:40.473+01:00"

"quantityNominal" : number, // Value of quantity or nominal [optional] Example: 99.999999

"quantityNominalType" : SecurityPositionQuantityNominalType, // <strong>Type:</strong> SecurityPositionQuantityNominalType

Type of quantity or nominal value. 'UNIT' if value is a quantity, 'FAMT' if value is the nominal amount [optional] Possible values: ["UNIT","FAMT"] Example: "UNIT"

"marketValue" : number, // Market value [optional] Example: 99.999999

"marketValueCurrency" : string, // Currency of market value [optional] Example: "EUR"

"entryQuote" : number, // Entry quote [optional] Example: 99.999999

**V1 2022.42.1**

optional Example: "EUR"

"entryQuote" : number, // Entry quote [required][nullable] Example:  
99.999999

"entryQuoteCurrency" : string, // Currency of entry quote [required][nullable] Example: "EUR"

"profitOrLoss" : number // Current profit or loss [required][nullable]

Example: 99.999999

}

**V2 2022.42.1**

"entryQuoteCurrency" : string, // Currency of entry quote [optional]

Example: "EUR"

"profitOrLoss" : number // Current profit or loss [optional] Example:

99.999999

}

## Changes in Type: StandingOrder

Occurs in the following services:

POST /api/v\*/standingOrders

POST /api/v\*/standingOrders/submit

GET /api/v\*/standingOrders

V1 2022.42.1	V2 2022.42.1
<p>Container for a standing order's data</p> <pre>{   "id" : integer [int64],    "accountId" : integer [int64], // Identifier of the account to which this standing order relates. This field is only set if it was specified upon creation of the standing order. [required][nullable] Example: 1    "iban" : string, // IBAN of the account to which this standing order relates. This field is only set if it was specified upon creation of the standing order. [required][nullable]    "amount" : number,   "currency" : Currency,    "startDate" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Start date of the standing order. [required] Example: "2023-01-01"    "endDate" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Termination date of the standing order. If this field is not set, then the</pre>	<p>Container for a standing order's data</p> <pre>{   "id" : integer [int64],    "accountId" : integer [int64], // Identifier of the account to which this standing order relates. This field is only set if it was specified upon creation of the standing order. [optional] Example: 1    "iban" : string, // IBAN of the account to which this standing order relates. This field is only set if it was specified upon creation of the standing order. [optional]    "amount" : number,   "currency" : Currency,    "startDate" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Start date of the standing order. [required] Example: "2023-01-01"    "endDate" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Termination date of the standing order. If this field is not set, then the</pre>

V1 2022.42.1

```

standing order has no termination date. [required][nullable] Example: "2023-01-01"

    "frequency" : StandingOrderFrequency,
    "dayOfExecution" : integer [int32],

    "requestDate" : string, // <strong>Format:</strong> 'YYYY-MM-DDHH:MM:SS.SSS' (german time)
    Time of when finAPI submitted this standing order to the bank. [required][nullable] Example: "2018-01-01 00:00:00.000"

    "requestCompletionDate" : string, // <strong>Format:</strong> 'YYYY-MM-DDHH:MM:SS.SSS' (german time)
    Time of when the submission of this standing order was finalized.
    Note: When the submission of a standing order is finalized, it does not necessarily mean that the bank accepted the standing order. Please refer to the standing order's 'status' for its final status. [required][nullable] Example: "2018-01-01 00:00:00.000"

    "status" : OrderInitiationStatus,

    "bankMessage" : string // The bank's response to the most recent request for this standing order. Note that this field may not always (or never) be set. Also, as long as the standing order has not reached its final status, this field can always change. [required][nullable]
}

```

V2 2022.42.1

```

standing order has no termination date. [optional] Example: "2023-01-01"

    "frequency" : StandingOrderFrequency,

    "requestDate" : string [date-time], // <strong>Format:</strong> 'YYYY-MM-DD"HH:MM:SS.SSSXXX' (RFC 3339, section 5.6)
    Time of when finAPI submitted this standing order to the bank. [optional] Example: "2018-01-01T09:18:40.473+01:00"

    "requestCompletionDate" : string [date-time], // <strong>Format:</strong> 'YYYY-MM-DD"HH:MM:SS.SSSXXX' (RFC 3339, section 5.6)
    Time of when the submission of this standing order was finalized.
    Note: When the submission of a standing order is finalized, it does not necessarily mean that the bank accepted the standing order. Please refer to the standing order's 'status' for its final status. [optional] Example: "2018-01-01T09:18:40.473+01:00"

    "status" : OrderInitiationStatus,

    "bankMessage" : string // The bank's response to the most recent request for this standing order. Note that this field may not always (or never) be set. Also, as long as the standing order has not reached its final status, this field can always change. [optional]
}

```

## Changes in Type: SubmitPaymentParams

Occurs in the following services:

POST /api/v\*/payments/submit

V1 2022.42.1	V2 2022.42.1
<p>Payment submission parameters</p> <pre>{   "paymentId" : integer [int64],   "interface" : BankingInterface,   "loginCredentials" : array of LoginCredential,   "redirectUrl" : string,   "multiStepAuthentication" : object,   "hideTransactionDetailsInWebForm" : boolean,   "forceWebForm" : boolean }</pre>	<p>Payment submission parameters</p> <pre>{   "paymentId" : integer [int64],   "bankingInterface" : BankingInterface, // &lt;strong&gt;Type:&lt;/strong&gt;   BankingInterface   ■   Banking interface. Possible values:&lt;br&gt;&lt;br&gt;- &lt;code&gt;FINTS_SERVER&lt;/code&gt; - means   that finAPI will execute the payment via the bank's FinTS interface.&lt;br&gt;-   &lt;code&gt;WEB_SCRAPER&lt;/code&gt; - means that finAPI will parse data from the bank's   online banking website.&lt;br&gt;- &lt;code&gt;XS2A&lt;/code&gt; - means that finAPI will   execute the payment via the bank's XS2A interface. Please note that XS2A   doesn't support direct debits yet.   To determine what interface(s) you can choose to submit a payment, please   refer to the field AccountInterface.capabilities of the account that is   related to the payment, or if this is a standalone payment without a related   account imported in finAPI, refer to the field   BankInterface.isMoneyTransferSupported.   For standalone money transfers (finAPI Payment product) in particular, we   suggest to always use XS2A if supported, and only use FINTS_SERVER or   WEB_SCRAPER as a fallback, because non-XS2A interfaces might require not just   a single, but multiple authentications when submitting the payment.   [required] Possible values: ["WEB_SCRAPER", "FINTS_SERVER", "XS2A"] Example:   "FINTS_SERVER"   "loginCredentials" : array of LoginCredential,</pre>

V1 2022.42.1	V2 2022.42.1
	<pre>"redirectUrl" : string, "multiStepAuthentication" : object }</pre>

## Changes in Type: SubmitStandingOrderParams

Occurs in the following services:

POST /api/v\*/standingOrders/submit

V1 2022.42.1	V2 2022.42.1
<p>Standing order submission parameters</p> <pre>{   "standingOrderId" : integer [int64],   "interface" : BankingInterface,   "loginCredentials" : array of LoginCredential,   "redirectUrl" : string,   "multiStepAuthentication" : object }</pre>	<p>Standing order submission parameters</p> <pre>{   "standingOrderId" : integer [int64],   "bankingInterface" : BankingInterface, // &lt;strong&gt;Type:&lt;/strong&gt;   BankingInterface   ■   Banking interface. Possible values:&lt;br&gt;&lt;br&gt;- &lt;code&gt;FINTS_SERVER&lt;/code&gt; - means   that finAPI will execute the standing order via the bank's FinTS   interface.&lt;br&gt;- &lt;code&gt;WEB_SCRAPER&lt;/code&gt; - means that finAPI will parse data   from the bank's online banking website.&lt;br&gt;- &lt;code&gt;XS2A&lt;/code&gt; - means that   finAPI will execute the standing order via the bank's XS2A interface.   To determine what interface(s) you can choose to submit a standing order,   please refer to the field paymentCapabilities.sepaStandingOrder in   BankInterface.   For standalone standing orders in particular, we suggest to always use XS2A if   supported, and only use FINTS_SERVER or WEB_SCRAPER as a fallback, because   non-XS2A interfaces might require not just a single, but multiple   authentications when submitting the standing order.   [required] Possible values: ["WEB_SCRAPER","FINTS_SERVER","XS2A"] Example:   "FINTS_SERVER"   "loginCredentials" : array of LoginCredential,   "redirectUrl" : string,   "multiStepAuthentication" : object }</pre>

## Changes in Type: TppCertificate

Occurs in the following services:

POST /api/v\*/tppCertificates

GET /api/v\*/tppCertificates/{id}

GET /api/v\*/tppCertificates

V1 2022.42.1	V2 2022.42.1
<p>A container for the bank certificate's data</p> <pre data-bbox="94 566 1115 1072">{   "id" : integer [int64],   "certificateType" : TppCertificateType,   "label" : string,    "validFrom" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Valid from date. [required] Example: "2019-07-20"    "validUntil" : string // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Valid until date. [required] Example: "2019-07-20" }</pre>	<p>A container for the bank certificate's data</p> <pre data-bbox="1124 566 2145 1072">{   "id" : integer [int64],   "certificateType" : TppCertificateType,   "label" : string,    "validFrom" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Valid from date. [required] Example: "2019-07-20"    "validUntil" : string [date] // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Valid until date. [required] Example: "2019-07-20" }</pre>

## Changes in Type: TppCertificateParams

Occurs in the following services:

POST /api/v\*/tppCertificates

V1 2022.42.1	V2 2022.42.1
<p>A container for the new certificate data</p> <pre>{   "type" : TppCertificateType,   "publicKey" : string,   "privateKey" : string,   "passphrase" : string,   "caPublicKey" : string,   "label" : string,    "validFromDate" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'   Start day of the certificate's validity. Default is the passed certificate   validFrom date [optional] Example: "2019-04-23"    "validUntilDate" : string // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'   Expiration day of the certificate's validity. Default is the passed   certificate validUntil date [optional] Example: "2022-04-23" }</pre>	<p>A container for the new certificate data</p> <pre>{   "type" : TppCertificateType,   "publicKey" : string,   "privateKey" : string,   "passphrase" : string,   "caPublicKey" : string,   "label" : string,    "validFromDate" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'   Start day of the certificate's validity. Default is the passed certificate   validFrom date [optional] Example: "2019-04-23"    "validUntilDate" : string [date] // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'   Expiration day of the certificate's validity. Default is the passed   certificate validUntil date [optional] Example: "2022-04-23" }</pre>

## Changes in Type: TppCredentials

Occurs in the following services:

POST /api/v\*/tppCredentials

GET /api/v\*/tppCredentials/{id}

PATCH /api/v\*/tppCredentials/{id}

GET /api/v\*/tppCredentials

V1 2022.42.1	V2 2022.42.1
<p>A container for the TPP client credentials data</p> <pre data-bbox="94 606 1115 1109">{   "id" : integer [int64],   "label" : string,   "tppAuthenticationGroupId" : integer [int64],    "validFrom" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Valid from date. [required] Example: "2019-07-20"    "validUntil" : string // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Valid until date. [required][nullable] Example: "2019-07-20" }</pre>	<p>A container for the TPP client credentials data</p> <pre data-bbox="1124 606 2145 1109">{   "id" : integer [int64],   "label" : string,   "tppAuthenticationGroupId" : integer [int64],    "validFrom" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Valid from date. [required] Example: "2019-07-20"    "validUntil" : string [date] // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Valid until date. [optional] Example: "2019-07-20" }</pre>

## Changes in Type: TppCredentialsParams

Occurs in the following services:

POST /api/v\*/tppCredentials

V1 2022.42.1	V2 2022.42.1
<p>A container for new TPP client credentials data</p> <pre>{   "tppAuthenticationGroupId" : integer [int64],   "label" : string,   "tppClientId" : string,   "tppClientSecret" : string,   "tppApiKey" : string,   "tppName" : string,    "validFromDate" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'   Credentials "valid from" date. Default is today's date [optional] Example:   "2019-04-23"    "validUntilDate" : string // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'   Credentials "valid until" date. Default is null which means "indefinite" (no   limit) [optional] Example: "2022-04-23" }</pre>	<p>A container for new TPP client credentials data</p> <pre>{   "tppAuthenticationGroupId" : integer [int64],   "label" : string,   "tppClientId" : string,   "tppClientSecret" : string,   "tppApiKey" : string,   "tppName" : string,    "validFromDate" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'   Credentials "valid from" date. Default is today's date [optional] Example:   "2019-04-23"    "validUntilDate" : string [date] // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'   Credentials "valid until" date. Default is null which means "indefinite" (no   limit) [optional] Example: "2022-04-23" }</pre>

## Changes in Type: Transaction

Occurs in the following services:

```
POST /api/v*/transactions/{id}/split
POST /api/v*/transactions/{id}/restore
GET /api/v*/transactions/{id}
PATCH /api/v*/transactions/{id}
GET /api/v*/transactions
GET /api/v*/transactions/{ids}
```

V1 2022.42.1	V2 2022.42.1
<p>Container for a transaction's data</p> <pre>{   "id" : integer [int64],    "parentId" : integer [int64], // Parent transaction identifier [required] in   [optional] Example: 2    "accountId" : integer [int64],    "valueDate" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD HH:MM:SS.SSS'   (german time) Value date. [required] Example: "2018-01-01 00:00:00.000"    "bankBookingDate" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD   HH:MM:SS.SSS' (german time) Bank booking date. [required] Example: "2018-01-01 00:00:00.000"</pre>	<p>Container for a transaction's data</p> <pre>{   "id" : integer [int64],    "parentId" : integer [int64], // Parent transaction identifier [optional] Example: 2    "accountId" : integer [int64],    "valueDate" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Value date. [required] Example: "2018-01-01"    "bankBookingDate" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD' Bank booking date. [required] Example: "2018-01-01"    "finapiBookingDate" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM- DD'</pre>

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```
"finapiBookingDate" : string, // <strong>Format:</strong> 'YYYY-MM-DD
HH:MM:SS.SSS' (german time)
finAPI Booking date. NOTE: In some cases, banks may deliver transactions that
are booked in future, but already included in the current account balance. To
keep the account balance consistent with the set of transactions, such "future
transactions" will be imported with their finapiBookingDate set to the current
date (i.e.: date of import). The finapiBookingDate will automatically get
adjusted towards the bankBookingDate each time the associated bank account is
updated. Example: A transaction is imported on July, 3rd, with a bank reported
booking date of July, 6th. The transaction will be imported with its
finapiBookingDate set to July, 3rd. Then, on July 4th, the associated account
is updated. During this update, the transaction's finapiBookingDate will be
automatically adjusted to July 4th. This adjustment of the finapiBookingDate
takes place on each update until the bank account is updated on July 6th or
later, in which case the transaction's finapiBookingDate will be adjusted to
its final value, July 6th.

The finapiBookingDate is the date that is used by the finAPI PFM services.
E.g. when you calculate the spendings of an account for the current month, and
have a transaction with finapiBookingDate in the current month but
bankBookingDate at the beginning of the next month, then this transaction is
included in the calculations (as the bank has this transaction's amount
included in the current account balance as well). [required] Example: "2018-
01-01 00:00:00.000"

"amount" : number,

"currency" : Currency, // <strong>Type:</strong> Currency

Transaction currency in ISO 4217 format.This field can be null if not
explicitly provided the bank. In this case it can be assumed as account's
```

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```
finAPI Booking date. NOTE: In some cases, banks may deliver transactions that
are booked in future, but already included in the current account balance. To
keep the account balance consistent with the set of transactions, such "future
transactions" will be imported with their finapiBookingDate set to the current
date (i.e.: date of import). The finapiBookingDate will automatically get
adjusted towards the bankBookingDate each time the associated bank account is
updated. Example: A transaction is imported on July, 3rd, with a bank reported
booking date of July, 6th. The transaction will be imported with its
finapiBookingDate set to July, 3rd. Then, on July 4th, the associated account
is updated. During this update, the transaction's finapiBookingDate will be
automatically adjusted to July 4th. This adjustment of the finapiBookingDate
takes place on each update until the bank account is updated on July 6th or
later, in which case the transaction's finapiBookingDate will be adjusted to
its final value, July 6th.

The finapiBookingDate is the date that is used by the finAPI PFM services.
E.g. when you calculate the spendings of an account for the current month, and
have a transaction with finapiBookingDate in the current month but
bankBookingDate at the beginning of the next month, then this transaction is
included in the calculations (as the bank has this transaction's amount
included in the current account balance as well). [required] Example: "2018-
01-01"

"amount" : number,

"currency" : Currency, // <strong>Type:</strong> Currency

Transaction currency in ISO 4217 format.This field can be null if not
explicitly provided the bank. In this case it can be assumed as account's
currency. [optional] Possible values:
["AED", "AFN", "ALL", "AMD", "ANG", "AOA", "ARS", "AUD", "AWG", "AZN", "BAM", "BBD", "BDT"
```

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currency. [required][nullable] Possible values:

[ "AED", "AFN", "ALL", "AMD", "ANG", "AOA", "ARS", "AUD", "AWG", "AZN", "BAM", "BBD", "BDT", "BGN", "BHD", "BIF", "BMD", "BND", "BOB", "BOV", "BRL", "BSD", "BTN", "BWP", "BYN", "BZD", "CAD", "CDF", "CHE", "CHF", "CHN", "CHW", "CLF", "CLP", "CNY", "COP", "COU", "CRC", "CUC", "CUP", "CVE", "CZK", "DJF", "DKK", "DOP", "DZD", "EGP", "ERN", "ETB", "EUR", "FJD", "FKP", "GBP", "GEL", "GGP", "GHS", "GIP", "GMD", "GNF", "GTQ", "GYD", "HKD", "HNL", "HRK", "HTG", "HUF", "IDR", "ILS", "IMP", "INR", "IQD", "IRR", "ISK", "JEP", "JMD", "JOD", "JPY", "KES", "KGS", "KHR", "KID", "KMF", "KPW", "KRW", "KWD", "KYD", "KZT", "LAK", "LBP", "LKR", "LRD", "LSL", "LYD", "MAD", "MDL", "MGA", "MKD", "MMK", "MNT", "MOP", "MRU", "MUR", "MVR", "MWK", "MXN", "MXV", "MYR", "MZN", "NAD", "NGN", "NIO", "NIS", "NOK", "NPR", "NTD", "NZD", "OMR", "PAB", "PEN", "PGK", "PHP", "PKR", "PLN", "PRB", "PYG", "QAR", "RMB", "RON", "RSD", "RUB", "RWF", "SAR", "SBD", "SCR", "SDG", "SEK", "SGD", "SHP", "SLL", "SLS", "SOS", "SRD", "SSP", "STN", "SVC", "SYP", "SZL", "THB", "TJS", "TMT", "TND", "TOP", "TRY", "TTD", "TVD", "TWD", "TZS", "UAH", "UGX", "USD", "USN", "UYI", "UYU", "UYW", "UZS", "VEF", "VES", "VND", "VUV", "WST", "XAF", "XAG", "XAU", "XBA", "XBB", "XBC", "XBD", "XCD", "XDR", "XOF", "XPD", "XPF", "XPT", "XSU", "XTS", "XUA", "XXX", "YER", "ZAR", "ZMW", "ZWB", "ZWL" ] Example: "EUR"

"purpose" : string, // Transaction purpose. Maximum length: 2000 [required][nullable] Example: "Restaurantbesuch"

"counterpartName" : string, // Counterpart name. Maximum length: 80 [required][nullable] Example: "Bar Centrale"

"counterpartAccountNumber" : string, // Counterpart account number [required][nullable] Example: "0061110500"

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, "BGN", "BHD", "BIF", "BMD", "BND", "BOB", "BOV", "BRL", "BSD", "BTN", "BWP", "BYN", "BZD", "CAD", "CDF", "CHE", "CHF", "CHN", "CHW", "CLF", "CLP", "CNY", "COP", "COU", "CRC", "CUC", "CUP", "CVE", "CZK", "DJF", "DKK", "DOP", "DZD", "EGP", "ERN", "ETB", "EUR", "FJD", "FKP", "GBP", "GEL", "GGP", "GHS", "GIP", "GMD", "GNF", "GTQ", "GYD", "HKD", "HNL", "HRK", "HTG", "HUF", "IDR", "ILS", "IMP", "INR", "IQD", "IRR", "ISK", "JEP", "JMD", "JOD", "JPY", "KES", "KGS", "KHR", "KID", "KMF", "KPW", "KRW", "KWD", "KYD", "KZT", "LAK", "LBP", "LKR", "LRD", "LSL", "LYD", "MAD", "MDL", "MGA", "MKD", "MMK", "MNT", "MOP", "MRU", "MUR", "MVR", "MWK", "MXN", "MXV", "MYR", "MZN", "NAD", "NGN", "NIO", "NIS", "NOK", "NPR", "NTD", "NZD", "OMR", "PAB", "PEN", "PGK", "PHP", "PKR", "PLN", "PRB", "PYG", "QAR", "RMB", "RON", "RSD", "RUB", "RWF", "SAR", "SBD", "SCR", "SDG", "SEK", "SGD", "SHP", "SLL", "SLS", "SOS", "SRD", "SSP", "STN", "SVC", "SYP", "SZL", "THB", "TJS", "TMT", "TND", "TOP", "TRY", "TTD", "TVD", "TWD", "TZS", "UAH", "UGX", "USD", "USN", "UYI", "UYU", "UYW", "UZS", "VEF", "VES", "VND", "VUV", "WST", "XAF", "XAG", "XAU", "XBA", "XBB", "XBC", "XBD", "XCD", "XDR", "XOF", "XPD", "XPF", "XPT", "XSU", "XTS", "XUA", "XXX", "YER", "ZAR", "ZMW", "ZWB", "ZWL" ] Example: "EUR"

"purpose" : string, // Transaction purpose. Maximum length: 2000 [optional] Example: "Restaurantbesuch"

"counterpartName" : string, // Counterpart name. Maximum length: 80 [optional] Example: "Bar Centrale"

"counterpartAccountNumber" : string, // Counterpart account number [optional] Example: "0061110500"

"counterpartIban" : string, // Counterpart IBAN [optional] Example: "DE13700800000061110500"

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"counterpartIban" : string, // Counterpart IBAN [required][nullable]

Example: "DE13700800000061110500"

"counterpartBlz" : string, // Counterpart BLZ [required][nullable] Example:

"70080000"

"counterpartBic" : string, // Counterpart BIC [required][nullable] Example:

"DRESDEFF700"

"counterpartBankName" : string, // Counterpart Bank name [required][nullable]

Example: "Commerzbank vormals Dresdner Bank"

"counterpartMandateReference" : string, // The mandate reference of the

counterpart [required][nullable] Example: "MR123"

"counterpartCustomerReference" : string, // The customer reference of the

counterpart [required][nullable] Example: "CUR123"

"counterpartCreditorId" : string, // The creditor ID of the counterpart.

Exists only for SEPA direct debit transactions ("Lastschrift"). [required][n

ullable] Example: "CRI123"

"counterpartDebtorId" : string, // The originator's identification code.

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"counterpartBlz" : string, // Counterpart BLZ [optional] Example:

"70080000"

"counterpartBic" : string, // Counterpart BIC [optional] Example:

"DRESDEFF700"

"counterpartBankName" : string, // Counterpart Bank name [optional]

Example: "Commerzbank vormals Dresdner Bank"

"counterpartMandateReference" : string, // The mandate reference of the

counterpart [optional] Example: "MR123"

"counterpartCustomerReference" : string, // The customer reference of the

counterpart [optional] Example: "CUR123"

"counterpartCreditorId" : string, // The creditor ID of the counterpart.

Exists only for SEPA direct debit transactions ("Lastschrift"). [optional]

Example: "CRI123"

"counterpartDebtorId" : string, // The originator's identification code.

Exists only for SEPA money transfer transactions ("Überweisung"). [optional]

Example: "CRI098"

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Exists only for SEPA money transfer transactions ("Überweisung"). [required][nullable] Example: "CRI098"

"type" : string, // Transaction type, according to the bank. If set, this will contain a German term that you can display to the user. Some examples of common values are: "Lastschrift", "Auslandsüberweisung", "Gebühren", "Zinsen". The maximum possible length of this field is 255 characters. [required][nullable] Example: "Überweisungsauftrag"

"typeCodeZka" : string, // ZKA business transaction code which relates to the transaction's type. Possible values range from 1 through 999. If no information about the ZKA type code is available, then this field will be null. [required][nullable] Example: "999"

"typeCodeSwift" : string, // SWIFT transaction type code. If no information about the SWIFT code is available, then this field will be null. [required][nullable] Example: "RAPRDE51"

"sepaPurposeCode" : string, // SEPA purpose code, according to ISO 20022 [required][nullable] Example: "OTHR"

"bankTransactionCode" : string, // Bank transaction code, according to ISO 20022 [required][nullable] Example: "PMNT-RCDT-SALA"

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"type" : string, // Transaction type, according to the bank. If set, this will contain a German term that you can display to the user. Some examples of common values are: "Lastschrift", "Auslandsüberweisung", "Gebühren", "Zinsen". The maximum possible length of this field is 255 characters. [optional] Example: "Überweisungsauftrag"

"typeCodeZka" : string, // ZKA business transaction code which relates to the transaction's type. Possible values range from 1 through 999. If no information about the ZKA type code is available, then this field will be null. [optional] Example: "999"

"typeCodeSwift" : string, // SWIFT transaction type code. If no information about the SWIFT code is available, then this field will be null. [optional] Example: "RAPRDE51"

"sepaPurposeCode" : string, // SEPA purpose code, according to ISO 20022 [optional] Example: "OTHR"

"bankTransactionCode" : string, // Bank transaction code, according to ISO 20022 [optional] Example: "PMNT-RCDT-SALA"

"primanota" : string, // Transaction primanota (bank side identification number) [optional] Example: "Primanota"

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"primanota" : string, // Transaction primanota (bank side identification number) [required][nullable] Example: "Primanota"

"category" : object, // <strong>Type:</strong> Category

Transaction category, if any is assigned. Note: Recently imported transactions that have currently no category assigned might still get categorized by the background categorization process. To check the status of the background categorization, see GET /bankConnections. Manual category assignments to a transaction will remove the transaction from the background categorization process (i.e. the background categorization process will never overwrite a manual category assignment). [required][nullable]

"labels" : array of Label,  
 "isPotentialDuplicate" : boolean,  
 "isAdjustingEntry" : boolean,  
 "isNew" : boolean,

"importDate" : string, // <strong>Format:</strong> 'YYYY-MM-DD HH:MM:SS.SSS' (German time)  
 Date of transaction import. [required] Example: "2018-01-01 00:00:00.000"

"children" : array of integer, // Sub-transactions identifiers (if this transaction is split) [required][nullable] Example: [1,2,3]

"paypalData" : object, // <strong>Type:</strong> PaypalTransactionData

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"category" : object, // <strong>Type:</strong> Category

Transaction category, if any is assigned. Note: Recently imported transactions that have currently no category assigned might still get categorized by the background categorization process. To check the status of the background categorization, see GET /bankConnections. Manual category assignments to a transaction will remove the transaction from the background categorization process (i.e. the background categorization process will never overwrite a manual category assignment). [optional]

"labels" : array of Label,  
 "isPotentialDuplicate" : boolean,  
 "isAdjustingEntry" : boolean,  
 "isNew" : boolean,

"importDate" : string [date-time], // <strong>Format:</strong> 'YYYY-MM-DD "T"HH:MM:SS.SSSXXX' (RFC 3339, section 5.6)  
 Date of transaction import. [required] Example: "2018-01-01T00:18:40.473+01:00"

"children" : array of integer, // Sub-transactions identifiers (if this transaction is split) [optional] Example: [1,2,3]

"paypalData" : object, // <strong>Type:</strong> PaypalTransactionData

Additional, PayPal-specific transaction data. [optional]

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Additional, PayPal-specific transaction data. [required][nullable]

"endToEndReference" : string, // End-To-End reference [required][nullable]

Example: "001100550526"

"compensationAmount" : number, // Compensation Amount. Sum of reimbursement of out-of-pocket expenses plus processing brokerage in case of a national return / refund debit as well as an optional interest equalisation. Exists predominantly for SEPA direct debit returns. [required][nullable] Example: -1.11

"originalAmount" : number, // Original Amount of the original direct debit. Exists predominantly for SEPA direct debit returns. [required][nullable] Example: -9.99

"originalCurrency" : Currency, // <strong>Type:</strong> Currency

Currency of the original amount in ISO 4217 format. This field can be null if not explicitly provided the bank. In this case it can be assumed as account's currency. [required][nullable] Possible values:

["AED", "AFN", "ALL", "AMD", "ANG", "AOA", "ARS", "AUD", "AWG", "AZN", "BAM", "BBD", "BDT", "BGN", "BHD", "BIF", "BMD", "BND", "BOB", "BOV", "BRL", "BSD", "BTN", "BWP", "BYN", "BZD", "CAD", "CDF", "CHE", "CHF", "CHN", "CHW", "CLF", "CLP", "CNY", "COP", "COU", "CRC", "CUC", "CUP", "CVE", "CZK", "DJF", "DKK", "DOP", "DZD", "EGP", "ERN", "ETB", "EUR", "FJD", "FKP", "GBP", "GEL", "GGP", "GHS", "GIP", "GMD", "GNF", "GTQ", "GYD", "HKD", "HNL", "HRK", "HTG", "HUF", "IDR", "ILS", "IMP", "INR", "IQD", "IRR", "ISK", "JEP", "JMD", "JOD", "JPY", "KES"

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"endToEndReference" : string, // End-To-End reference [optional] Example: "001100550526"

"compensationAmount" : number, // Compensation Amount. Sum of reimbursement of out-of-pocket expenses plus processing brokerage in case of a national return / refund debit as well as an optional interest equalisation. Exists predominantly for SEPA direct debit returns. [optional] Example: -1.11

"originalAmount" : number, // Original Amount of the original direct debit. Exists predominantly for SEPA direct debit returns. [optional] Example: -9.99

"originalCurrency" : Currency, // <strong>Type:</strong> Currency

Currency of the original amount in ISO 4217 format. This field can be null if not explicitly provided the bank. In this case it can be assumed as account's currency. [optional] Possible values:

["AED", "AFN", "ALL", "AMD", "ANG", "AOA", "ARS", "AUD", "AWG", "AZN", "BAM", "BBD", "BDT", "BGN", "BHD", "BIF", "BMD", "BND", "BOB", "BOV", "BRL", "BSD", "BTN", "BWP", "BYN", "BZD", "CAD", "CDF", "CHE", "CHF", "CHN", "CHW", "CLF", "CLP", "CNY", "COP", "COU", "CRC", "CUC", "CUP", "CVE", "CZK", "DJF", "DKK", "DOP", "DZD", "EGP", "ERN", "ETB", "EUR", "FJD", "FKP", "GBP", "GEL", "GGP", "GHS", "GIP", "GMD", "GNF", "GTQ", "GYD", "HKD", "HNL", "HRK", "HTG", "HUF", "IDR", "ILS", "IMP", "INR", "IQD", "IRR", "ISK", "JEP", "JMD", "JOD", "JPY", "KES", "KGS", "KHR", "KID", "KMF", "KPW", "KRW", "KWD", "KYD", "KZT", "LAK", "LBP", "LKR", "LRD", "LSL", "LYD", "MAD", "MDL", "MGA", "MKD", "MMK", "MNT", "MOP", "MRU", "MUR", "MVR", "MWK", "MXN", "MXV", "MYR", "MZN", "NAD", "NGN", "NIO", "NIS", "NOK", "NPR", "NTD", "NZD", "OMR"

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```
, "KGS", "KHR", "KID", "KMF", "KPW", "KRW", "KWD", "KYD", "KZT", "LAK", "LBP", "LKR", "LRD"
, "LSL", "LYD", "MAD", "MDL", "MGA", "MKD", "MMK", "MNT", "MOP", "MRU", "MUR", "MVR", "MWK"
, "MXN", "MXV", "MYR", "MZN", "NAD", "NGN", "NIO", "NIS", "NOK", "NPR", "NTD", "NZD", "OMR"
, "PAB", "PEN", "PGK", "PHP", "PKR", "PLN", "PRB", "PYG", "QAR", "RMB", "RON", "RSD", "RUB"
, "RWF", "SAR", "SBD", "SCR", "SDG", "SEK", "SGD", "SHP", "SLL", "SLS", "SOS", "SRD", "SSP"
, "STN", "SVC", "SYP", "SZL", "THB", "TJS", "TMT", "TND", "TOP", "TRY", "TTD", "TVD", "TWD"
, "TZS", "UAH", "UGX", "USD", "USN", "UYI", "UYU", "UYW", "UZS", "VEF", "VES", "VND", "VUV"
, "WST", "XAF", "XAG", "XAU", "XBA", "XBB", "XBC", "XBD", "XCD", "XDR", "XOF", "XPD", "XPF"
, "XPT", "XSU", "XTS", "XUA", "XXX", "YER", "ZAR", "ZMW", "ZWB", "ZWL"] Example: "EUR"

"differentDebitor" : string, // Payer's/debtor's reference party (in the
case of a credit transfer) or payee's/creditor's reference party (in the case
of a direct debit) [required][nullable] Example: "DIFD70204"

"differentCreditor" : string // Payee's/creditor's reference party (in the
case of a credit transfer) or payer's/debtor's reference party (in the case of
a direct debit) [required][nullable] Example: "DIFC98450"
}
```

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```
, "PAB", "PEN", "PGK", "PHP", "PKR", "PLN", "PRB", "PYG", "QAR", "RMB", "RON", "RSD", "RUB"
, "RWF", "SAR", "SBD", "SCR", "SDG", "SEK", "SGD", "SHP", "SLL", "SLS", "SOS", "SRD", "SSP"
, "STN", "SVC", "SYP", "SZL", "THB", "TJS", "TMT", "TND", "TOP", "TRY", "TTD", "TVD", "TWD"
, "TZS", "UAH", "UGX", "USD", "USN", "UYI", "UYU", "UYW", "UZS", "VEF", "VES", "VND", "VUV"
, "WST", "XAF", "XAG", "XAU", "XBA", "XBB", "XBC", "XBD", "XCD", "XDR", "XOF", "XPD", "XPF"
, "XPT", "XSU", "XTS", "XUA", "XXX", "YER", "ZAR", "ZMW", "ZWB", "ZWL"] Example: "EUR"

"differentDebitor" : string, // Payer's/debtor's reference party (in the
case of a credit transfer) or payee's/creditor's reference party (in the case
of a direct debit) [optional] Example: "DIFD70204"

"differentCreditor" : string // Payee's/creditor's reference party (in the
case of a credit transfer) or payer's/debtor's reference party (in the case of
a direct debit) [optional] Example: "DIFC98450"
}
```

## Changes in Type: TwoStepProcedure

*Occurs in the following services:*

POST /api/v\*/bankConnections/update

POST /api/v\*/bankConnections/import

POST /api/v\*/bankConnections/connectInterface

GET /api/v\*/bankConnections/{id}

PATCH /api/v\*/bankConnections/{id}

GET /api/v\*/bankConnections

GET /api/v\*/bankConnections/{ids}

POST /oauth/token -> POST /api/v\*/oauth/token

POST /oauth/revoke -> POST /api/v\*/oauth/revoke

GET /api/v\*/users

POST /api/v\*/users

DELETE /api/v\*/users

PATCH /api/v\*/users

POST /api/v\*/users/verify/{userId}

POST /api/v\*/users/requestPasswordChange

POST /api/v\*/users/executePasswordChange

POST /api/v\*/transactions/{id}/split

POST /api/v\*/transactions/{id}/restore

POST /api/v\*/transactions/triggerCategorization

GET /api/v\*/tppCredentials

POST /api/v\*/tppCredentials

GET /api/v\*/tppCertificates

POST /api/v\*/tppCertificates

POST /api/v\*/tests/mockBatchUpdate

POST /api/v\*/tests/checkCategorization

GET /api/v\*/standingOrders

POST /api/v\*/standingOrders

POST /api/v\*/standingOrders/submit

POST /api/v\*/payments/submit

POST /api/v\*/payments/moneyTransfers

POST /api/v\*/payments/directDebits  
GET /api/v\*/notificationRules  
POST /api/v\*/notificationRules  
DELETE /api/v\*/notificationRules  
POST /api/v\*/mandatorAdmin/switchApiVersion  
GET /api/v\*/mandatorAdmin/keywordRules  
POST /api/v\*/mandatorAdmin/keywordRules  
POST /api/v\*/mandatorAdmin/keywordRules/delete  
GET /api/v\*/mandatorAdmin/ibanRules  
POST /api/v\*/mandatorAdmin/ibanRules  
POST /api/v\*/mandatorAdmin/ibanRules/delete  
POST /api/v\*/mandatorAdmin/deleteUsers  
POST /api/v\*/mandatorAdmin/changeClientCredentials  
GET /api/v\*/labels  
POST /api/v\*/labels  
DELETE /api/v\*/labels  
GET /api/v\*/categories  
POST /api/v\*/categories  
DELETE /api/v\*/categories  
POST /api/v\*/categories/trainCategorization  
POST /api/v\*/bankConnections/removeInterface  
POST /api/v\*/accounts/requestSepaMoneyTransfer  
POST /api/v\*/accounts/requestSepaDirectDebit  
POST /api/v\*/accounts/executeSepaMoneyTransfer  
POST /api/v\*/accounts/executeSepaDirectDebit  
GET /api/v\*/transactions  
DELETE /api/v\*/transactions  
PATCH /api/v\*/transactions  
GET /api/v\*/transactions/{ids}  
PATCH /api/v\*/transactions/{ids}  
GET /api/v\*/transactions/{id}  
DELETE /api/v\*/transactions/{id}

PATCH /api/v\*/transactions/{id}  
GET /api/v\*/tppCredentials/{id}  
DELETE /api/v\*/tppCredentials/{id}  
PATCH /api/v\*/tppCredentials/{id}  
GET /api/v\*/labels/{id}  
DELETE /api/v\*/labels/{id}  
PATCH /api/v\*/labels/{id}  
GET /api/v\*/clientConfiguration  
PATCH /api/v\*/clientConfiguration  
GET /api/v\*/categories/{id}  
DELETE /api/v\*/categories/{id}  
PATCH /api/v\*/categories/{id}  
DELETE /api/v\*/bankConnections/{id}  
GET /api/v\*/accounts/{id}  
DELETE /api/v\*/accounts/{id}  
PATCH /api/v\*/accounts/{id}  
GET /api/v\*/webForms/{id}  
GET /api/v\*/users/verificationStatus  
GET /api/v\*/tppCredentials/tppAuthenticationGroups  
GET /api/v\*/tppCertificates/{id}  
DELETE /api/v\*/tppCertificates/{id}  
GET /api/v\*/securities  
GET /api/v\*/securities/{ids}  
GET /api/v\*/securities/{id}  
GET /api/v\*/payments  
GET /api/v\*/notificationRules/{id}  
DELETE /api/v\*/notificationRules/{id}  
GET /api/v\*/mandatorAdmin/getUserList  
GET /api/v\*/labels/{ids}  
GET /api/v\*/categories/{ids}  
GET /api/v\*/categories/cashFlows  
GET /api/v\*/banks

```

GET /api/v*/banks/{ids}
GET /api/v*/banks/{id}
DELETE /api/v*/bankConnections
GET /api/v*/accounts
DELETE /api/v*/accounts
GET /api/v*/accounts/{ids}
GET /api/v*/accounts/dailyBalances
DELETE /api/v*/users/{userId}
DELETE /api/v*/bankConnections/{id}/aisConsent

```

V1 2022.42.1	V2 2022.42.1
<p>Two-step-procedure for user authorization on bank-side</p> <pre> {   "procedureId" : string,   "procedureName" : string,    "procedureChallengeType" : string, // The challenge type of the procedure. Possible values are:  - &lt;code&gt;TEXT&lt;/code&gt; - the challenge will be a text that contains instructions for the user on how to proceed with the authorization. - &lt;code&gt;PHOTO&lt;/code&gt; - the challenge will contain a BASE-64 string depicting a photo (or any kind of QR-code-like data) that must be shown to the user. - &lt;code&gt;FLICKER_CODE&lt;/code&gt; - the challenge will contain a BASE-64 string depicting a flicker code animation that must be shown to the user.  Note that this challenge type information does not originate from the bank, but is determined by finAPI internally. There is no guarantee that the determined challenge type is correct. Note also that this field may not be set, meaning that finAPI could not determine the challenge type of the </pre>	<p>Two-step-procedure for user authorization on bank-side</p> <pre> {   "procedureId" : string,   "procedureName" : string,    "procedureChallengeType" : string, // The challenge type of the procedure. Possible values are:  - &lt;code&gt;TEXT&lt;/code&gt; - the challenge will be a text that contains instructions for the user on how to proceed with the authorization. - &lt;code&gt;PHOTO&lt;/code&gt; - the challenge will contain a BASE-64 string depicting a photo (or any kind of QR-code-like data) that must be shown to the user. - &lt;code&gt;FLICKER_CODE&lt;/code&gt; - the challenge will contain a BASE-64 string depicting a flicker code animation that must be shown to the user.  Note that this challenge type information does not originate from the bank, but is determined by finAPI internally. There is no guarantee that the determined challenge type is correct. Note also that this field may not be set, meaning that finAPI could not determine the challenge type of the </pre>

V1 2022.42.1	V2 2022.42.1
<pre>procedure. [required nullable] Example: "TEXT"      "implicitExecute" : boolean }</pre>	<pre>procedure. [optional] Example: "TEXT"      "implicitExecute" : boolean }</pre>

## Changes in Type: UpdateBankConnectionParams

Occurs in the following services:

POST /api/v\*/bankConnections/update

V1 2022.42.1	V2 2022.42.1
<p>Container for bank connection update parameters</p> <pre>{   "bankConnectionId" : integer [int64],   "bankingPin" : string,   "storePin" : boolean,   "interface" : BankingInterface,    "loginCredentials" : array of LoginCredential, // &lt;strong&gt;Type:&lt;/strong&gt; LoginCredential  Set of login credentials. <b>Must be passed in combination with the 'interface' field, if the credentials have not been previously stored.</b> The labels that you pass must match with the login credential labels that the respective interface defines. finAPI will combine the given credentials with any credentials that it has stored. You can leave this field unset in case finAPI has stored all required credentials. [optional]    "storeSecrets" : boolean,    "importNewAccounts" : boolean, // Whether to import accounts that weren't imported previously. Default is false.</pre> <p>NOTES:</p> <ul style="list-style-type: none"><li>- For best performance, you should not enable this flag unless you really</li></ul>	<p>Container for bank connection update parameters</p> <pre>{   "bankConnectionId" : integer [int64],   "bankingInterface" : BankingInterface, // &lt;strong&gt;Type:&lt;/strong&gt; BankingInterface ■ <b>The interface to use for connecting with the bank. [required] Possible values: ["WEB_SCRAPER", "FINTS_SERVER", "XS2A"] Example: "XS2A"</b>    "loginCredentials" : array of LoginCredential, // &lt;strong&gt;Type:&lt;/strong&gt; LoginCredential  Set of login credentials. The labels that you pass must match with the login credential labels that the respective interface defines. finAPI will combine the given credentials with any credentials that it has stored. You can leave this field unset in case finAPI has stored all required credentials. [optional]    "storeSecrets" : boolean,    "importNewAccounts" : boolean, // Whether to import accounts that weren't imported previously. Default is false.</pre> <p>NOTES:</p>

**V1 2022.42.1**

expect new accounts to be available in the connection. It is recommended to let your users tell you through your application when they want the service to look for new accounts.

- If you have imported an interface using a limited set of 'accountTypes', you would import all other accounts when setting this flag to true. To avoid importing account types that you are not interested in, make sure to keep this flag unset (or set to false).

- If there is an existing consent and it doesn't support the import of new accounts (see 'BankConnectionInterface.aisConsent.supportsImportNewAccounts'), then `setting 'importNewAccounts=true'` will `have no effect`. [optional] Default value: false Example: false

```
"skipPositionsDownload" : boolean,
"loadOwnerData" : boolean,
"accountTypes" : array of AccountType,
"accountReferences" : array of AccountReference,
"challengeResponse" : string,
"redirectUrl" : string,
"forceWebForm" : boolean,
"multiStepAuthentication" : object
}
```

**V2 2022.42.1**

- For best performance, you should not enable this flag unless you really expect new accounts to be available in the connection. It is recommended to let your users tell you through your application when they want the service to look for new accounts.

- If you have imported an interface using a limited set of 'accountTypes', you would import all other accounts when setting this flag to true. To avoid importing account types that you are not interested in, make sure to keep this flag unset (or set to false).

- If there is an existing consent and it doesn't support the import of new accounts (see 'BankConnectionInterface.aisConsent.supportsImportNewAccounts'), then `an update attempt with 'importNewAccounts=true'` will `return an error`. [optional] Default value: false Example: false

```
"skipPositionsDownload" : boolean,
"loadOwnerData" : boolean,
"accountTypes" : array of AccountType,
"accountReferences" : array of AccountReference,
"redirectUrl" : string,
"multiStepAuthentication" : object
}
```

## Changes in Type: UpdateResult

Occurs in the following services:

POST /api/v\*/bankConnections/update

POST /api/v\*/bankConnections/import

POST /api/v\*/bankConnections/connectInterface

GET /api/v\*/bankConnections/{id}

PATCH /api/v\*/bankConnections/{id}

GET /api/v\*/bankConnections

GET /api/v\*/bankConnections/{ids}

V1 2022.42.1	V2 2022.42.1
<p>Container for a status of bank connection update</p> <pre>{   "result" : UpdateResultStatus,    "errorMessage" : string, // In case the update result is not &lt;code&gt;OK&lt;/code&gt;, this field may contain an error message with details about why the update failed (it is not guaranteed that a message is available though). In case the update result is &lt;code&gt;OK&lt;/code&gt;, the field will always be null. [required][nullable] Example: "Internal server error"    "errorType" : ErrorType, // &lt;strong&gt;Type:&lt;/strong&gt; ErrorType  In case the update result is not &lt;code&gt;OK&lt;/code&gt;, this field contains the type of the error that occurred. BUSINESS means that the bank server responded with a non-technical error message for the user. TECHNICAL means that some internal error has occurred in finAPI or at the bank server. [required][nullable] Possible values: ["BUSINESS","TECHNICAL"] Example: "TECHNICAL"</pre>	<p>Container for a status of bank connection update</p> <pre>{   "result" : UpdateResultStatus,    "errorMessage" : string, // In case the update result is not &lt;code&gt;OK&lt;/code&gt;, this field may contain an error message with details about why the update failed (it is not guaranteed that a message is available though). In case the update result is &lt;code&gt;OK&lt;/code&gt;, the field will always be null. [optional] Example: "Internal server error"    "errorType" : ErrorType, // &lt;strong&gt;Type:&lt;/strong&gt; ErrorType  In case the update result is not &lt;code&gt;OK&lt;/code&gt;, this field contains the type of the error that occurred. BUSINESS means that the bank server responded with a non-technical error message for the user. TECHNICAL means that some internal error has occurred in finAPI or at the bank server. [optional] Possible values: ["BUSINESS","TECHNICAL"] Example: "TECHNICAL"</pre>

V1 2022.42.1	V2 2022.42.1
<pre>"timestamp" : string // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DDHH:MM:SS.SSS' (<b>reman</b> time) Time of the update. [required] Example: "2018-01-0100:00:00.000" }</pre>	<pre>"timestamp" : string [date-time] // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DDT' HH:MM:SS.SSSXXX' (RFC 3339, section 5.6) Time of the update. [required] Example: "2018-01-0109:18:40.47301:00" }</pre>

## Changes in Type: User

Occurs in the following services:

GET /api/v\*/users

POST /api/v\*/users

PATCH /api/v\*/users

V1 2022.42.1	V2 2022.42.1
<p>Container for a user's data</p> <pre data-bbox="94 558 1117 1101">{   "id" : string,   "password" : string,    "email" : string, // User's email address [required][nullable] Example: "email@localhost.de"    "phone" : string, // User's phone number [required][nullable] Example: "+49 99 999999-999"    "isAutoUpdateEnabled" : boolean }</pre>	<p>Container for a user's data</p> <pre data-bbox="1120 558 2141 1101">{   "id" : string,   "password" : string,    "email" : string, // User's email address [optional] Example: "email@localhost.de"    "phone" : string, // User's phone number [optional] Example: "+49 99 999999-999"    "isAutoUpdateEnabled" : boolean }</pre>

## Changes in Type: UserInfo

Occurs in the following services:

GET /api/v\*/mandatorAdmin/getUserList

V1 2022.42.1	V2 2022.42.1
<p>Container for user information</p> <pre>{   "userId" : string,    "registrationDate" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'   User's registration date. [required] Example: "2018-01-01"    "deletionDate" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'   User's deletion date. May be null if the user has not been deleted. [required] [nullable] Example: "2018-01-31"    "lastActiveDate" : string, // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'   User's last active date. May be null if the user has not yet logged in. [required] [nullable] Example: "2018-01-31"    "bankConnectionCount" : integer [int32],    "latestBankConnectionImportDate" : string, // &lt;strong&gt;Format:&lt;/strong&gt;   'YYYY-MM-DD'   Latest date of when a bank connection was imported for this user. This field   is null when there has never been a bank connection import. [required] [nullable] Example: "2018-01-01"</pre>	<p>Container for user information</p> <pre>{   "userId" : string,    "registrationDate" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-   DD'   User's registration date. [required] Example: "2018-01-01"    "deletionDate" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'   User's deletion date. May be null if the user has not been deleted. [optional] Example: "2018-01-31"    "lastActiveDate" : string [date], // &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'   User's last active date. May be null if the user has not yet logged in. [optional] Example: "2018-01-31"    "bankConnectionCount" : integer [int32],    "latestBankConnectionImportDate" : string [date], //   &lt;strong&gt;Format:&lt;/strong&gt; 'YYYY-MM-DD'   Latest date of when a bank connection was imported for this user. This field   is null when there has never been a bank connection import. [optional]</pre>

**V1 2022.42.1**

```

    "latestBankConnectionDeletionDate" : string, // <strong>Format:</strong>
'YYYY-MM-DD'
Latest date of when a bank connection was deleted for this user. This field is
null when there has never been a bank connection deletion. [required][nullable]
] Example: "2018-01-31"

    "monthlyStats" : array of MonthlyUserStats, // <strong>Type:</strong>
MonthlyUserStats

Additional information about the user's data or activities, broken down in
months. The list will by default contain an entry for each month starting with
the month of when the user was registered, up to the current month. The date
range may vary when you have limited it in the request.

Please note:
- this field is only set when 'includeMonthlyStats' = true, otherwise it will
be null.
- the list is always ordered from the latest month first, to the oldest month
last.
- the list will never contain an entry for a month that was prior to the month
of when the user was registered, or after the month of when the user was
deleted, even when you have explicitly set a respective date range. This means
that the list may be empty if you are requesting a date range where the user
didn't exist yet, or didn't exist any longer. [required][nullable]

    "isLocked" : boolean
}

```

**V2 2022.42.1**

Example: "2018-01-01"

```

    "latestBankConnectionDeletionDate" : string [date], //
<strong>Format:</strong> 'YYYY-MM-DD'
Latest date of when a bank connection was deleted for this user. This field is
null when there has never been a bank connection deletion. [optional] Example:
"2018-01-31"

    "monthlyStats" : array of MonthlyUserStats, // <strong>Type:</strong>
MonthlyUserStats

Additional information about the user's data or activities, broken down in
months. The list will by default contain an entry for each month starting with
the month of when the user was registered, up to the current month. The date
range may vary when you have limited it in the request.

Please note:
- this field is only set when 'includeMonthlyStats' = true, otherwise it will
be null.
- the list is always ordered from the latest month first, to the oldest month
last.
- the list will never contain an entry for a month that was prior to the month
of when the user was registered, or after the month of when the user was
deleted, even when you have explicitly set a respective date range. This means
that the list may be empty if you are requesting a date range where the user
didn't exist yet, or didn't exist any longer. [optional]

    "isLocked" : boolean

```

V1 2022.42.1	V2 2022.42.1
	}

Removed Service: **POST** /api/v\*/accounts/requestSepaMoneyTransfer

API Name: "Request SEPA Money Transfer" / SDK Method: requestSepaMoneyTransfer

THIS SERVICE IS DEPRECATED AND WILL BE REMOVED.

Please refer to the 'Payments' section of the API instead.

To use this service PIS must be enabled by our customer support for your client.

Submit a SEPA money transfer order for either a single or a collective money transfer. Returns an instruction from the bank server that can be displayed to the user (e.g. "Enter TAN"), typically in the language of the bank's country. The order remains valid for execution for only a couple of minutes (the exact validity period depends on the bank). For executing the order, use the /executeSepaMoneyTransfer service after calling this service. Note that when the order is not executed within the validity period, the bank might take note of that and - if happening too often - ultimately lock the user's online banking access. If there already exists a previously submitted but not yet executed SEPA order for this account (either another money transfer order, or a direct debit order), then that order will be discarded and replaced with the new order that is being created with this service call.

**Notes:**

- Some banks may require a multi-step authentication, in which case the service will respond with HTTP code 510 and an error message containing a challenge for the user from the bank. You must display the challenge message to the user, and then retry the service call, passing the user's answer to the bank's challenge in the 'multiStepAuthentication.challengeResponse' field.
- When using a two-step-procedure with flag 'implicitExecute' = true, then this service will immediately execute the money transfer. The response will not contain any challenge message and you won't be required to make a subsequent call to /executeSepaMoneyTransfer.

**NOTE (THIS LOGIC IS DEPRECATED AND WILL BE REMOVED):**

Depending on your license, this service may respond with HTTP code 451, containing an error message with an identifier of Web Form in it. In addition to that the response will also have included a 'Location' header, which contains the URL to the Web Form. In this case, you must forward your user to finAPI's Web Form.

**Parameters:**

X-Request-Id : string (optional)

With any API call, you can pass a request ID. The request ID can be an arbitrary string with up to 255 characters. Passing a longer string will result in an error. If you don't pass a request ID for a call, finAPI will generate a random ID internally. The request ID is always returned back in the response of a service, as a header with name 'X-Request-Id'. We highly recommend to always pass a (preferably unique) request ID, and include it into your client application logs whenever you make a request or receive a response (especially in the case of an error response). finAPI is also logging request IDs on its end. Having a request ID can help the finAPI support team to work more efficiently and solve tickets faster.

body : RequestSepaMoneyTransferParams (required)

Parameters for a SEPA money transfer request

**Responses:**

200 Response for the SEPA Money Transfer request

returns: MoneyTransferOrderingResponse

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

400 Bad request

returns: ErrorMessage

Example Definition: http400ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

401 Not authenticated or invalid access\_token

returns: BadCredentialsError

Example Definition: http401ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

403 Incorrect authorization role or you are not allowed to call this service for other reasons (see error message).

returns: ErrorMessage

Example Definition: http403ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

404 Account not found

returns: ErrorMessage

Example Definition: http404ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

422 ILLEGAL\_ENTITY\_STATE if no PIN has been specified and finAPI has no PIN stored for the account's bank connection or if the account used for the request is DEPRECATED/not found on bank side;<br/>UNSUPPORTED\_ORDER if the account does not support the requested order. Check the account's 'supportedOrders' field for available orders;<br/>IBAN\_ONLY\_MONEY\_TRANSFER\_NOT\_SUPPORTED if the recipient account's BIC is required but was not set (see Bank Connection resource to find out whether the BIC is required or not);<br/>COLLECTIVE\_MONEY\_TRANSFER\_NOT\_SUPPORTED - DEPRECATED! This code will never be returned. If a collective money transfer request was submitted but the account does not support collective money transfers, then the service will return with the code UNSUPPORTED\_ORDER;<br/>MISSING\_TWO\_STEP\_PROCEDURE if no two-step-procedure was specified in the input parameters of the service call, and there is no default two-step-procedure set in the account's bank connection either;<br/>INVALID\_TWO\_STEP\_PROCEDURE if the given two-step-procedure does not match any of the procedures that are listed in the account's bank connection;<br/>BANK\_SERVER\_REJECTION if the bank server responded with an error message when finAPI tried to submit the money transfer order. The response's error message typically contains useful information from the bank and may be forwarded to the user;<br/>ILLEGAL\_FIELD\_VALUE if recipient IBAN/Name or clearing account id is not specified or specified incorrectly; if SEPA purpose code is specified incorrectly;<br/>NO\_EXISTING\_CHALLENGE in case the 'multiStepAuthentication.challengeResponse' field was set, but there is no pending challenge;<br/>

returns: ErrorMessage

Example Definition: [http422ResponseExample](#)

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

423 SEPA Money Transfer cannot get requested at the moment as the update is currently being executed (either by the user or by finAPI's automatic batch update).

returns: ErrorMessage

Example Definition: [http423ResponseExample](#)

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

451 In case the user must enter credentials and/or select a two-step-procedure within finAPI's Web Form.

returns: ErrorMessage

Example Definition: [http451ResponseExample](#)

Headers:

Location - THIS HEADER IS DEPRECATED AND WILL BE REMOVED.<br/><br/>Contains the URL to the Web Form. You must forward the user to this url to open finAPI's Web Form.

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

500 An unexpected error occurred

returns: ErrorMessage

Example Definition: http500ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

501 The given bank is currently not supported by finAPI

returns: ErrorMessage

Example Definition: http501ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

510 In case the bank requires an additional authentication by the user. The error's message will contain instructions for the user. Redo the service call and pass the user's answer to the challenge in the multiStepAuthentication.challengeResponse field.

returns: ErrorMessage

Example Definition: http510ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

Removed Service: **POST** /api/v\*/accounts/requestSepaDirectDebit

API Name: "Request SEPA Direct Debit" / SDK Method: requestSepaDirectDebit

THIS SERVICE IS DEPRECATED AND WILL BE REMOVED.

Please refer to the 'Payments' section of the API instead.

To use this service PIS must be enabled by our customer support for your client.

Submit a SEPA direct debit order for one or multiple direct debits. Returns an instruction from the bank server that can be displayed to the user (e.g. "Enter TAN"), typically in the language of the bank's country. The order remains valid for execution for only a couple of minutes (the exact validity period depends on the bank). For executing the order, use the /executeSepaDirectDebit service after calling this service. Note that when the order is not executed within the validity period, the bank might take note of that and - if happening too often - ultimately lock the user's online banking access. If there already exists a previously submitted but not yet executed SEPA order for this account (either another direct debit order, or a money transfer order), then that order will be discarded and replaced with the new order that is being created with this service call.

**Notes:**

- When using a two-step-procedure with flag 'implicitExecute' = true, then this service will immediately execute the direct debit. The response will not contain any challenge message and you won't be required to make a subsequent call to /executeSepaDirectDebit.

**NOTE (THIS LOGIC IS DEPRECATED AND WILL BE REMOVED):**

Depending on your license, this service may respond with HTTP code 451, containing an error message with an identifier of Web Form in it. In addition to that the response will also have included a 'Location' header, which contains the URL to the Web Form. In this case, you must forward your user to finAPI's Web Form.

**Parameters:**

X-Request-Id : string (optional)

With any API call, you can pass a request ID. The request ID can be an arbitrary string with up to 255 characters. Passing a longer string will result in an error. If you don't pass a request ID for a call, finAPI will generate a random ID internally. The request ID is always returned back in the response of a service, as a header with name 'X-Request-Id'. We highly recommend to always pass a (preferably unique) request ID, and include it into your client application logs whenever you make a request or receive a response (especially in the case of an error response). finAPI is also logging request IDs on its end. Having a request ID can help the finAPI support team to work more efficiently and solve tickets faster.

body : RequestSepaDirectDebitParams (required)

Parameters for a SEPA direct debit request

**Responses:**

200 Response for the SEPA Direct Debit request

returns: DirectDebitOrderingResponse

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

400 Bad request

returns: ErrorMessage

Example Definition: http400ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

401 Not authenticated or invalid access\_token

returns: BadCredentialsError

Example Definition: http401ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

403 Incorrect authorization role or you are not allowed to call this service for other reasons (see error message).

returns: ErrorMessage

Example Definition: http403ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

404 Account not found

returns: ErrorMessage

Example Definition: http404ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

422 ILLEGAL\_FIELD\_VALUE if SEPA purpose code is specified incorrectly;<br/>ILLEGAL\_ENTITY\_STATE if no PIN has been specified and finAPI has no PIN stored for the account's bank

connection or if the account used for the request is DEPRECATED/not found on bank side;<br/>UNSUPPORTED\_ORDER if the account does not support the requested order. Check the account's 'supportedOrders' field for available orders;<br/>IBAN\_ONLY\_DIRECT\_DEBIT\_NOT\_SUPPORTED if the debtor account's BIC is required but was not set (see Bank Connection resource to find out whether the BIC is required or not);<br/>MISSING\_TWO\_STEP\_PROCEDURE if no two-step-procedure was specified in the input parameters of the service call, and there is no default two-step-procedure set in the account's bank connection neither;<br/>INVALID\_TWO\_STEP\_PROCEDURE if the given two-step-procedure does not match any of the procedures that are listed in the account's bank connection;<br/>BANK\_SERVER\_REJECTION if the bank server responded with an error message when finAPI tried to submit the direct debit order. The response's error message typically contains useful information from the bank and may be forwarded to the user;<br/>NO\_EXISTING\_CHALLENGE in case the 'multiStepAuthentication.challengeResponse' field was set, but there is no pending challenge;<br/>

returns: ErrorMessage

Example Definition: http422ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

423 SEPA Direct Debit cannot get requested at the moment as the update is currently being executed (either by the user or by finAPI's automatic batch update).

returns: ErrorMessage

Example Definition: http423ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

451 In case the user must enter credentials and/or select a two-step-procedure within finAPI's Web Form.

returns: ErrorMessage

Example Definition: http451ResponseExample

Headers:

Location - THIS HEADER IS DEPRECATED AND WILL BE REMOVED.<br/><br/>Contains the URL to the Web Form. You must forward the user to this url to open finAPI's Web Form.

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

500 An unexpected error occurred

returns: ErrorMessage

Example Definition: http500ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

501 The given bank is currently not supported by finAPI

returns: ErrorMessage

Example Definition: http501ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

Removed Service: **POST /api/v\*/accounts/executeSepaMoneyTransfer**

API Name: "Execute SEPA Money Transfer" / SDK Method: executeSepaMoneyTransfer

THIS SERVICE IS DEPRECATED AND WILL BE REMOVED.

Please refer to the 'Payments' section of the API instead.

To use this service PIS must be enabled by our customer support for your client.

Execute a SEPA money transfer order that has been previously submitted by the use of the /requestSepaMoneyTransfer service.

Note: in case of using finAPI's Web Form flow, the Web Form is dealing with triggering this service itself.

**Parameters:**

X-Request-Id : string (optional)

With any API call, you can pass a request ID. The request ID can be an arbitrary string with up to 255 characters. Passing a longer string will result in an error. If you don't pass a request ID for a call, finAPI will generate a random ID internally. The request ID is always returned back in the response of a service, as a header with name 'X-Request-Id'. We highly recommend to always pass a (preferably unique) request ID, and include it into your client application logs whenever you make a request or receive a response (especially in the case of an error response). finAPI is also logging request IDs on its end. Having a request ID can help the finAPI support team to work more efficiently and solve tickets faster.

body : ExecuteSepaMoneyTransferParams (required)

Parameters for the execution of a SEPA money transfer order

**Responses:**

200 Response for the SEPA Money Transfer execute

returns: PaymentExecutionResponse

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

400 Bad request

returns: ErrorMessage

Example Definition: http400ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

401 Not authenticated or invalid access\_token

returns: BadCredentialsError

Example Definition: http401ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

403 Incorrect authorization role or you are not allowed to call this service for other reasons (see error message).

returns: ErrorMessage

Example Definition: http403ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

404 Account not found

returns: ErrorMessage

Example Definition: http404ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

422 ILLEGAL\_ENTITY\_STATE if no pending SEPA money transfer order exists for the account; BANK\_SERVER\_REJECTION if the bank server responded with an error message when finAPI tried to execute the money transfer order. The response's error message typically contains useful information from the bank and may be forwarded to the user.

returns: ErrorMessage

Example Definition: http422ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

423 SEPA Money Transfer cannot get executed at the moment as the update is currently being executed (either by the user or by finAPI's automatic batch update).

returns: ErrorMessage

Example Definition: http423ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

500 An unexpected error occurred

returns: ErrorMessage

Example Definition: [http500ResponseExample](#)

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

Removed Service: **POST** /api/v\*/accounts/executeSepaDirectDebit

API Name: "Execute SEPA Direct Debit" / SDK Method: executeSepaDirectDebit

THIS SERVICE IS DEPRECATED AND WILL BE REMOVED.

Please refer to the 'Payments' section of the API instead.

To use this service PIS must be enabled by our customer support for your client.

Execute a SEPA direct debit order that has been previously submitted by the use of the /requestSepaDirectDebit service.

Note: in case of using finAPI's Web Form flow, the Web Form is dealing with triggering this service itself.

**Parameters:**

X-Request-Id : string (optional)

With any API call, you can pass a request ID. The request ID can be an arbitrary string with up to 255 characters. Passing a longer string will result in an error. If you don't pass a request ID for a call, finAPI will generate a random ID internally. The request ID is always returned back in the response of a service, as a header with name 'X-Request-Id'. We highly recommend to always pass a (preferably unique) request ID, and include it into your client application logs whenever you make a request or receive a response (especially in the case of an error response). finAPI is also logging request IDs on its end. Having a request ID can help the finAPI support team to work more efficiently and solve tickets faster.

body : ExecuteSepaDirectDebitParams (required)

Parameters for the execution of a SEPA direct debit order

**Responses:**

200 Response for the SEPA Direct Debit execute

returns: PaymentExecutionResponse

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

400 Bad request

returns: ErrorMessage

Example Definition: http400ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

401 Not authenticated or invalid access\_token

returns: BadCredentialsError

Example Definition: http401ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

403 Incorrect authorization role or you are not allowed to call this service for other reasons (see error message).

returns: ErrorMessage

Example Definition: http403ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

404 Account not found

returns: ErrorMessage

Example Definition: http404ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

422 ILLEGAL\_ENTITY\_STATE if no pending SEPA direct debit order exists for the account; BANK\_SERVER\_REJECTION if the bank server responded with an error message when finAPI tried to execute the direct debit order. The response's error message typically contains useful information from the bank and may be forwarded to the user.

returns: ErrorMessage

Example Definition: http422ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

423 SEPA Direct Debit cannot get executed at the moment as the update is currently being executed (either by the user or by finAPI's automatic batch update).

returns: ErrorMessage

Example Definition: http423ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

500 An unexpected error occurred

returns: ErrorMessage

Example Definition: http500ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

Removed Service: **GET** /api/v\*/transactions/{ids}

API Name: "Get multiple transactions" / SDK Method: getMultipleTransactions

THIS SERVICE IS DEPRECATED AND WILL BE REMOVED.

Please refer to the 'Get and search all transactions' service instead if you want to get multiple transactions, and pass a comma-separated list of identifiers with the 'ids' parameter.

Get a list of multiple transactions of the user that is authorized by the access\_token. Must pass the transactions' identifiers and the user's access\_token. Transactions whose identifiers do not exist or do not relate to the authorized user will not be contained in the result (If this applies to all of the given identifiers, then the result will be an empty list).

**Parameters:**

ids : array of integer (required)

Comma-separated list of identifiers of requested transactions

X-Request-Id : string (optional)

With any API call, you can pass a request ID. The request ID can be an arbitrary string with up to 255 characters. Passing a longer string will result in an error. If you don't pass a request ID for a call, finAPI will generate a random ID internally. The request ID is always returned back in the response of a service, as a header with name 'X-Request-Id'. We highly recommend to always pass a (preferably unique) request ID, and include it into your client application logs whenever you make a request or receive a response (especially in the case of an error response). finAPI is also logging request IDs on its end. Having a request ID can help the finAPI support team to work more efficiently and solve tickets faster.

**Responses:**

200 List of requested transactions

returns: TransactionList

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

400 Bad request

returns: ErrorMessage

Example Definition: http400ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

401 Not authenticated or invalid access\_token

returns: BadCredentialsError

Example Definition: http401ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

403 Incorrect authorization role or you are not allowed to call this service for other reasons (see error message).

returns: ErrorMessage

Example Definition: http403ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

500 An unexpected error occurred

returns: ErrorMessage

Example Definition: http500ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

Removed Service: **PATCH** /api/v\*/transactions/{ids}

API Name: "Edit multiple transactions (DEPRECATED)" / SDK Method: editMultipleTransactionsDeprecated

THIS SERVICE IS DEPRECATED AND WILL BE REMOVED.

Please refer to the 'Edit multiple transactions' service instead if you want to edit multiple transactions, and pass a comma-separated list of identifiers with the 'ids' parameter.

Change the fields of multiple transactions. You can change the following fields: 'isNew=true|false' and/or 'isPotentialDuplicate=false' and/or 'categoryId=&lt;id&gt;' and/or 'labelIds=[<ids>]'. The max number of input identifiers is limited to 100. To clear the category of the given transactions (so that they are no longer categorized), pass the value '0' as the categoryId. To clear the labels of the given transactions, pass an empty array of label identifiers: '[]'. The result is a list of identifiers of only those transactions that have changed as a result of this service call.

**Parameters:**

ids : array of integer (required)

Comma-separated list of identifiers of updated transactions

X-HTTP-Method-Override : string (optional)

Some HTTP clients do not support the HTTP methods PATCH or DELETE. If you are using such a client in your application, you can use a POST request instead with this header indicating the originally intended HTTP method. POST Requests having this header set will be treated either as PATCH or DELETE by the finAPI servers.

X-Request-Id : string (optional)

With any API call, you can pass a request ID. The request ID can be an arbitrary string with up to 255 characters. Passing a longer string will result in an error. If you don't pass a request ID for a call, finAPI will generate a random ID internally. The request ID is always returned back in the response of a service, as a header with name 'X-Request-Id'. We highly recommend to always pass a (preferably unique) request ID, and include it into your client application logs whenever you make a request or receive a response (especially in the case of an error response). finAPI is also logging request IDs on its end. Having a request ID can help the finAPI support team to work more efficiently and solve tickets faster.

body : UpdateTransactionsParams (required)

Update transactions parameters

**Responses:**

200 List of identifiers of all edited transactions

returns: IdentifierList

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

#### 400 Bad request

returns: ErrorMessage

Example Definition: http400ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

#### 401 Not authenticated or invalid access\_token

returns: BadCredentialsError

Example Definition: http401ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

#### 403 Incorrect authorization role or you are not allowed to call this service for other reasons (see error message).

returns: ErrorMessage

Example Definition: http403ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

#### 404 Category or labels not found

returns: ErrorMessage

Example Definition: http404ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

#### 422 If 'isPotentialDuplicate' is set to 'true' (only 'false' is allowed)

returns: ErrorMessage

Example Definition: http422ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

500 An unexpected error occurred

returns: ErrorMessage

Example Definition: http500ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

Removed Service: **GET** /api/v\*/webForms/{id}

API Name: "Get a Web Form" / SDK Method: getWebForm

**Caution!** This endpoint is applicable only for customers using the old Web Form which is deprecated and will be removed. Web Form 2.0 customers must navigate

Note that every Web Form resource is automatically removed from the finAPI system after 7 days from its creation.

**Parameters:**

id : integer [int64] (required)

Identifier of Web Form

X-Request-Id : string (optional)

With any API call, you can pass a request ID. The request ID can be an arbitrary string with up to 255 characters. Passing a longer string will result in an error. If you don't pass a request ID for a call, finAPI will generate a random ID internally. The request ID is always returned back in the response of a service, as a header with name 'X-Request-Id'. We highly recommend to always pass a (preferably unique) request ID, and include it into your client application logs whenever you make a request or receive a response (especially in the case of an error response). finAPI is also logging request IDs on its end. Having a request ID can help the finAPI support team to work more efficiently and solve tickets faster.

**Responses:**

200 Requested Web Form

returns: WebForm

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

400 Bad request

returns: ErrorMessage

Example Definition: http400ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

401 Not authenticated or invalid access\_token

returns: BadCredentialsError

Example Definition: http401ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

403 Incorrect authorization role or you are not allowed to call this service for other reasons (see error message).

returns: ErrorMessage

Example Definition: http403ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

404 Web Form not found

returns: ErrorMessage

Example Definition: http404ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

500 An unexpected error occurred

returns: ErrorMessage

Example Definition: http500ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

Removed Service: **GET** /api/v\*/securities/{ids}

API Name: "Get multiple securities" / SDK Method: getMultipleSecurities

THIS SERVICE IS DEPRECATED AND WILL BE REMOVED.

Please refer to the 'Get and search all securities' service instead if you want to get multiple securities, and pass a comma-separated list of identifiers with the 'ids' parameter.

Get a list of multiple securities of the user that is authorized by the access\_token. Must pass the securities' identifiers and the user's access\_token. Securities whose identifiers do not exist or do not relate to the authorized user will not be contained in the result (If this applies to all of the given identifiers, then the result will be an empty list). Note: Whenever a security account is being updated, its security positions will be internally re-created, meaning that the identifier of a security position might change over time.

**Parameters:**

ids : array of integer (required)

Comma-separated list of identifiers of requested securities

X-Request-Id : string (optional)

With any API call, you can pass a request ID. The request ID can be an arbitrary string with up to 255 characters. Passing a longer string will result in an error. If you don't pass a request ID for a call, finAPI will generate a random ID internally. The request ID is always returned back in the response of a service, as a header with name 'X-Request-Id'. We highly recommend to always pass a (preferably unique) request ID, and include it into your client application logs whenever you make a request or receive a response (especially in the case of an error response). finAPI is also logging request IDs on its end. Having a request ID can help the finAPI support team to work more efficiently and solve tickets faster.

**Responses:**

200 List of requested securities

returns: SecurityList

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

400 Bad request

returns: ErrorMessage

Example Definition: http400ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

401 Not authenticated or invalid access\_token

returns: BadCredentialsError

Example Definition: http401ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

403 Incorrect authorization role or you are not allowed to call this service for other reasons (see error message).

returns: ErrorMessage

Example Definition: http403ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

500 An unexpected error occurred

returns: ErrorMessage

Example Definition: http500ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

Removed Service: **GET** /api/v\*/labels/{ids}

API Name: "Get multiple labels" / SDK Method: getMultipleLabels

THIS SERVICE IS DEPRECATED AND WILL BE REMOVED.

Please refer to the 'Get and search all labels' service instead if you want to get multiple labels, and pass a comma-separated list of identifiers with the 'ids' parameter.

Get a list of multiple labels of the user that is authorized by the access\_token. Must pass the labels' identifiers and the user's access\_token. Identifiers that do not exist or do not relate to the authorized user will not be contained in the result (If this applies to all of the given identifiers, then the result will be an empty list).

#### **Parameters:**

ids : array of integer (required)

Comma-separated list of identifiers of requested labels

X-Request-Id : string (optional)

With any API call, you can pass a request ID. The request ID can be an arbitrary string with up to 255 characters. Passing a longer string will result in an error. If you don't pass a request ID for a call, finAPI will generate a random ID internally. The request ID is always returned back in the response of a service, as a header with name 'X-Request-Id'. We highly recommend to always pass a (preferably unique) request ID, and include it into your client application logs whenever you make a request or receive a response (especially in the case of an error response). finAPI is also logging request IDs on its end. Having a request ID can help the finAPI support team to work more efficiently and solve tickets faster.

#### **Responses:**

200 List of requested labels

returns: LabelList

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

400 Bad request

returns: ErrorMessage

Example Definition: http400ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

401 Not authenticated or invalid access\_token

returns: BadCredentialsError

Example Definition: http401ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

403 Incorrect authorization role or you are not allowed to call this service for other reasons (see error message).

returns: ErrorMessage

Example Definition: http403ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

500 An unexpected error occurred

returns: ErrorMessage

Example Definition: http500ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

Removed Service: **GET** /api/v\*/categories/{ids}

API Name: "Get multiple categories" / SDK Method: getMultipleCategories

THIS SERVICE IS DEPRECATED AND WILL BE REMOVED.

Please refer to the 'Get and search all categories' service instead if you want to get multiple categories, and pass a comma-separated list of identifiers with the 'ids' parameter.

Get a list of multiple categories that are either a global finAPI category or a custom category of the authorized user. Must pass the categories' identifiers and the user's access\_token. Categories whose identifiers do not exist or that relate to a different user not be contained in the result (If this applies to all of the given identifiers, then the result will be an empty list).

**Parameters:**

ids : array of integer (required)

Comma-separated list of identifiers of requested categories

X-Request-Id : string (optional)

With any API call, you can pass a request ID. The request ID can be an arbitrary string with up to 255 characters. Passing a longer string will result in an error. If you don't pass a request ID for a call, finAPI will generate a random ID internally. The request ID is always returned back in the response of a service, as a header with name 'X-Request-Id'. We highly recommend to always pass a (preferably unique) request ID, and include it into your client application logs whenever you make a request or receive a response (especially in the case of an error response). finAPI is also logging request IDs on its end. Having a request ID can help the finAPI support team to work more efficiently and solve tickets faster.

**Responses:**

200 List of requested categories

returns: CategoryList

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

400 Bad request

returns: ErrorMessage

Example Definition: http400ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

401 Not authenticated or invalid access\_token

returns: BadCredentialsError

Example Definition: http401ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

403 Incorrect authorization role or you are not allowed to call this service for other reasons (see error message).

returns: ErrorMessage

Example Definition: http403ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

500 An unexpected error occurred

returns: ErrorMessage

Example Definition: http500ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

Removed Service: **GET** /api/v\*/banks/{ids}

API Name: "Get multiple banks" / SDK Method: getMultipleBanks

THIS SERVICE IS DEPRECATED AND WILL BE REMOVED.

Please refer to the 'Get and search all banks' service instead if you want to get multiple banks, and pass a comma-separated list of identifiers with the 'ids' parameter.

Get a list of multiple banks from finAPI's database of banks. You have to pass a list of bank identifiers, and either the authorized user's access\_token, or your client's access token. Note that banks whose identifiers do not exist will not be contained in the result (If this applies to all of the given identifiers, then the result will be an empty list).

#### **Parameters:**

ids : array of integer (required)

Comma-separated list of identifiers of requested banks

X-Request-Id : string (optional)

With any API call, you can pass a request ID. The request ID can be an arbitrary string with up to 255 characters. Passing a longer string will result in an error. If you don't pass a request ID for a call, finAPI will generate a random ID internally. The request ID is always returned back in the response of a service, as a header with name 'X-Request-Id'. We highly recommend to always pass a (preferably unique) request ID, and include it into your client application logs whenever you make a request or receive a response (especially in the case of an error response). finAPI is also logging request IDs on its end. Having a request ID can help the finAPI support team to work more efficiently and solve tickets faster.

#### **Responses:**

200 List of requested banks

returns: BankList

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

400 Bad request

returns: ErrorMessage

Example Definition: http400ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

401 Not authenticated or invalid access\_token

returns: BadCredentialsError

Example Definition: http401ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

403 Incorrect authorization role or you are not allowed to call this service for other reasons (see error message).

returns: ErrorMessage

Example Definition: http403ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

500 An unexpected error occurred

returns: ErrorMessage

Example Definition: http500ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

Removed Service: **GET** /api/v\*/bankConnections/{ids}

API Name: "Get multiple bank connections" / SDK Method: getMultipleBankConnections

THIS SERVICE IS DEPRECATED AND WILL BE REMOVED.

Please refer to the 'Get all bank connections' service instead if you want to get multiple bank connections, and pass a comma-separated list of identifiers with the 'ids' parameter.

Get a list of multiple bank connections of the user that is authorized by the access\_token. Must pass the connections' identifiers and the user's access\_token. Connections whose identifiers do not exist or do not relate to the authorized user will not be contained in the result (If this applies to all of the given identifiers, then the result will be an empty list).

**Parameters:**

ids : array of integer (required)

Comma-separated list of identifiers of requested bank connections

X-Request-Id : string (optional)

With any API call, you can pass a request ID. The request ID can be an arbitrary string with up to 255 characters. Passing a longer string will result in an error. If you don't pass a request ID for a call, finAPI will generate a random ID internally. The request ID is always returned back in the response of a service, as a header with name 'X-Request-Id'. We highly recommend to always pass a (preferably unique) request ID, and include it into your client application logs whenever you make a request or receive a response (especially in the case of an error response). finAPI is also logging request IDs on its end. Having a request ID can help the finAPI support team to work more efficiently and solve tickets faster.

**Responses:**

200 List of requested bank connections

returns: BankConnectionList

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

400 Bad request

returns: ErrorMessage

Example Definition: http400ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

401 Not authenticated or invalid access\_token

returns: BadCredentialsError

Example Definition: http401ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

403 Incorrect authorization role or you are not allowed to call this service for other reasons (see error message).

returns: ErrorMessage

Example Definition: http403ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

500 An unexpected error occurred

returns: ErrorMessage

Example Definition: http500ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

Removed Service: **GET** /api/v\*/accounts/{ids}

API Name: "Get multiple accounts" / SDK Method: getMultipleAccounts

THIS SERVICE IS DEPRECATED AND WILL BE REMOVED.

Please refer to the 'Get and search all accounts' service instead if you want to get multiple accounts, and pass a comma-separated list of identifiers with the 'ids' parameter.

Get a list of multiple bank accounts of the user that is authorized by the access\_token. Must pass the accounts' identifiers and the user's access\_token. Accounts whose identifiers do not exist or do not relate to the authorized user will not be contained in the result (If this applies to all of the given identifiers, then the result will be an empty list).

**Parameters:**

ids : array of integer (required)

Comma-separated list of identifiers of requested accounts

X-Request-Id : string (optional)

With any API call, you can pass a request ID. The request ID can be an arbitrary string with up to 255 characters. Passing a longer string will result in an error. If you don't pass a request ID for a call, finAPI will generate a random ID internally. The request ID is always returned back in the response of a service, as a header with name 'X-Request-Id'. We highly recommend to always pass a (preferably unique) request ID, and include it into your client application logs whenever you make a request or receive a response (especially in the case of an error response). finAPI is also logging request IDs on its end. Having a request ID can help the finAPI support team to work more efficiently and solve tickets faster.

**Responses:**

200 List of requested accounts

returns: AccountList

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

400 Bad request

returns: ErrorMessage

Example Definition: http400ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

401 Not authenticated or invalid access\_token

returns: BadCredentialsError

Example Definition: http401ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

403 Incorrect authorization role or you are not allowed to call this service for other reasons (see error message).

returns: ErrorMessage

Example Definition: http403ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

500 An unexpected error occurred

returns: ErrorMessage

Example Definition: http500ResponseExample

Headers:

X-Request-Id - The request ID that you passed to the request, or a finAPI-generated ID in case you didn't pass a request ID.

Removed Type: **BankList**

Occurs in the following services:

GET /api/v\*/banks/{ids}

Container for data of multiple banks

```
{  
  "banks" : array of Bank // <strong>Type:</strong> Bank  
  
Banks [required]  
}
```

Removed Type: **CategoryList**

Occurs in the following services:

GET /api/v\*/categories/{ids}

Container for data of multiple categories

```
{  
  "categories" : array of Category // <strong>Type:</strong> Category  
  
Categories [required]  
}
```

Removed Type: **ClearingAccountData**

*Occurs in the following services:*

GET /api/v\*/accounts/{id}

PATCH /api/v\*/accounts/{id}

GET /api/v\*/accounts

GET /api/v\*/accounts/{ids}

clearing account data

```
{  
  "clearingAccountId" : string, // Technical identifier of the clearing account [required] Example: "BA-TUYEF7D24CGK6"  
  
  "clearingAccountName" : string // Name of the clearing account [required] Example: "BA-TUYEF7D24CGK6"  
}
```

## Removed Type: DirectDebitOrderingResponse

Occurs in the following services:

POST /api/v\*/accounts/requestSepaDirectDebit

Bank server's response to a direct debit order request

```
{
  "successMessage" : string, // Technical message from the bank server, confirming the success of the request. Typically, you would not want to present this message to the user. Note that this field may not be set. However if it is not set, it does not necessarily mean that there was an error in processing the request. [required][nullable] Example: "Auftrag ausgeführt."

  "warnMessage" : string, // In some cases, a bank server may accept the requested order, but return a warn message. This message may be of technical nature, but could also be of interest to the user. [required][nullable] Example: "Es liegen Warnungen vor."

  "paymentId" : integer [int64], // Payment identifier. Can be used to retrieve the status of the payment (see 'Get payments' service). [required] Example: 1

  "challengeMessage" : string, // Message from the bank server containing information or instructions on how to retrieve the TAN that is needed to execute the requested order. This message should be presented to the user. Note that some bank servers may limit the message to just the most crucial information, e.g. the message may contain just a single number that depicts the target TAN number on a user's TAN list. You may want to parse the challenge message for such cases and extend it with more detailed information before showing it to the user. [required][nullable] Example: "Bitte geben Sie die TAN ein, die Sie per SMS erhalten."

  "answerFieldLabel" : string, // Suggestion from the bank server on how you can label your input field where the user must enter his TAN. A typical value that many bank servers give is 'TAN-Nummer'. [required][nullable] Example: "TAN-Nummer"

  "tanListNumber" : string, // In case that the bank server has instructed the user to look up a TAN from a TAN list, this field may contain the identification number of the TAN list. However in most cases, this field is only set (i.e. not null) when the user has multiple active TAN lists. [required][nullable] Example: "001"

  "opticalData" : string, // In case that the bank server has instructed the user to scan a flicker code, then this field will contain the raw data for the flicker animation as a BASE-64 string. Otherwise, this field will be not set (i.e. null). See also: <a href='https://documentation.finapi.io/access/Flicker-
```



Removed Type: **ExecuteSepaDirectDebitParams**

*Occurs in the following services:*

POST /api/v\*/accounts/executeSepaDirectDebit

Container for parameters for the execution of a submitted SEPA direct debit order

```
{
  "accountId" : integer [int64], // Identifier of the bank account that you want to transfer money to [required] Example: 1

  "bankingTan" : string // Banking TAN that the user received from the bank for executing the direct debit order. The field is required if you are licensed
to perform SEPA direct debits yourself. Otherwise, i.e. when finAPI's Web Form flow is required, the Web Form will deal with executing the service itself.
[optional] Example: "0123"
}
```

Removed Type: **ExecuteSepaMoneyTransferParams**

*Occurs in the following services:*

POST /api/v\*/accounts/executeSepaMoneyTransfer

Container for parameters for the execution of a submitted SEPA money transfer order

```
{  
  "accountId" : integer [int64], // Identifier of the bank account that you want to transfer money from [required] Example: 1  
  
  "bankingTan" : string // Banking TAN that the user received from the bank for executing the money transfer order. The field is required if you are licensed  
to perform SEPA money transfers yourself. Otherwise, i.e. when finAPI's Web Form flow is required, the Web Form will deal with executing the service itself.  
[optional] Example: "098765"  
}
```

Removed Type: **LabelList**

Occurs in the following services:

GET /api/v\*/labels/{ids}

Container for labels

```
{  
  "labels" : array of Label // <strong>Type:</strong> Label  
  
Labels [required]  
}
```

## Removed Type: **MoneyTransferOrderingResponse**

Occurs in the following services:

POST /api/v\*/accounts/requestSepaMoneyTransfer

Bank server's response to a money transfer order request

```
{
  "successMessage" : string, // Technical message from the bank server, confirming the success of the request. Typically, you would not want to present this message to the user. Note that this field may not be set. However if it is not set, it does not necessarily mean that there was an error in processing the request. [required][nullable] Example: "Auftrag ausgeführt."

  "warnMessage" : string, // In some cases, a bank server may accept the requested order, but return a warn message. This message may be of technical nature, but could also be of interest to the user. [required][nullable] Example: "Es liegen Warnungen vor."

  "paymentId" : integer [int64], // Payment identifier. Can be used to retrieve the status of the payment (see 'Get payments' service). [required] Example: 1

  "challengeMessage" : string, // Message from the bank server containing information or instructions on how to retrieve the TAN that is needed to execute the requested order. This message should be presented to the user. Note that some bank servers may limit the message to just the most crucial information, e.g. the message may contain just a single number that depicts the target TAN number on a user's TAN list. You may want to parse the challenge message for such cases and extend it with more detailed information before showing it to the user. [required][nullable] Example: "Bitte geben Sie die TAN ein, die Sie per SMS erhalten."

  "answerFieldLabel" : string, // Suggestion from the bank server on how you can label your input field where the user must enter his TAN. A typical value that many bank servers give is 'TAN-Nummer'. [required][nullable] Example: "TAN-Nummer"

  "tanListNumber" : string, // In case that the bank server has instructed the user to look up a TAN from a TAN list, this field may contain the identification number of the TAN list. However in most cases, this field is only set (i.e. not null) when the user has multiple active TAN lists. [required][nullable] Example: "001"

  "opticalData" : string, // In case that the bank server has instructed the user to scan a flicker code, then this field will contain the raw data for the flicker animation as a BASE-64 string. Otherwise, this field will be not set (i.e. null). See also: <a href='https://documentation.finapi.io/access/Flicker-
```



Removed Type: **PaymentExecutionResponse**

*Occurs in the following services:*

POST /api/v\*/accounts/executeSepaMoneyTransfer

POST /api/v\*/accounts/executeSepaDirectDebit

Bank server's response to Money Transfer / Direct Debit execution

```
{
  "successMessage" : string, // Technical message from the bank server, confirming the success of the request. Typically, you would not want to present this
message to the user. Note that this field may not be set. However if it is not set, it does not necessarily mean that there was an error in processing the
request. [required][nullable] Example: "Auftrag ausgeführt."

  "warnMessage" : string, // In some cases, a bank server may accept the requested order, but return a warn message. This message may be of technical nature,
but could also be of interest to the user. [required][nullable] Example: "Es liegen Warnungen vor."

  "paymentId" : integer [int64] // Payment identifier. Can be used to retrieve the status of the payment (see 'Get payments' service). [required] Example: 1
}
```

## Removed Type: RequestSepaDirectDebitParams

Occurs in the following services:

POST /api/v\*/accounts/requestSepaDirectDebit

Parameters for a single or collective SEPA direct debit order request

```
{
  "accountId" : integer [int64], // Identifier of the bank account to which you want to transfer the money. [required] Example: 1

  "bankingPin" : string, // Online banking PIN. Any symbols are allowed. Max length: 170. If a PIN is stored in the bank connection, then this field may
  remain unset. If finAPI's Web Form is not required and the field is set though then it will always be used (even if there is some other PIN stored in the bank
  connection). If you want the user to enter a PIN in finAPI's Web Form even when a PIN is stored, then just set the field to any value, so that the service
  recognizes that you wish to use the Web Form flow. [optional] Example: "123456"

  "storeSecrets" : boolean, // Whether to store the PIN. If the PIN is stored, it is not required to pass the PIN again when executing SEPA orders. Default
  value is 'false'.

NOTES:
  - before you set this field to true, please regard the 'pinsAreVolatile' flag of the bank connection that the account belongs to. Please note that volatile
  credentials will not be stored, even if provided, to enforce user involvement in the next communication with the bank;
  - this field is ignored in case when the user will need to use finAPI's Web Form. The user will be able to decide whether to store the PIN or not in the Web
  Form, depending on the 'storeSecretsAvailableInWebForm' setting (see Client Configuration). [optional] Default value: false Example: true

  "twoStepProcedureId" : string, // The bank-given ID of the two-step-procedure that should be used for the order. For a list of available two-step-
  procedures, see the corresponding bank connection (GET /bankConnections). If this field is not set, then the bank connection's default two-step-procedure will
  be used. Note that in this case, when the bank connection has no default two-step-procedure set, then the response of the service depends on whether you need
  to use finAPI's Web Form or not. If you need to use the Web Form, the user will be prompted to select the two-step-procedure within the Web Form. If you don't
  need to use the Web Form, then the service will return an error (passing a value for this field is required in this case). [optional] Example: "955"

  "directDebitType" : DirectDebitType, // <strong>Type:</strong> DirectDebitType
```

Type of the direct debit; either `BASIC` or `B2B` (Business-To-Business). Please note that an account which supports the basic type must not necessarily support B2B (or vice versa). Check the source account's 'supportedOrders' field to find out which types of direct debit it supports.

[required] Possible values: ["B2B","BASIC"] Example: "B2B"

"sequenceType" : DirectDebitSequenceType, // **Type:** DirectDebitSequenceType

Sequence type of the direct debit. Possible values:

- `OOFF` - means that this is a one-time direct debit order
- `FRST` - means that this is the first in a row of multiple direct debit orders
- `RCUR` - means that this is one (but not the first or final) within a row of multiple direct debit orders
- `FNAL` - means that this is the final in a row of multiple direct debit orders

[required] Possible values: ["OOFF","FRST","RCUR","FNAL"] Example: "OOFF"

"executionDate" : string, // **Format:** 'YYYY-MM-DD'

Execution date for the direct debit(s). [required] Example: "2018-01-01"

"singleBooking" : boolean, // This field is only regarded when you pass multiple orders. It determines whether the orders should be processed by the bank as one collective booking (in case of 'false'), or as single bookings (in case of 'true'). Default value is 'false'. [optional] Default value: false Example: false

"directDebits" : array of SingleDirectDebitData, // **Type:** SingleDirectDebitData

List of the direct debits that you want to execute (may contain at most 15000 items). Please check the account's 'supportedOrders' field to find out whether you can pass multiple direct debits or just one. [required]

"hideTransactionDetailsInWebForm" : boolean, // Whether the finAPI Web Form should hide transaction details when prompting the caller for the second factor. Default value is false. [optional] Default value: false Example: false

"multiStepAuthentication" : object, // **Type:** MultiStepAuthenticationCallback

Container for multi-step authentication data. Required when a previous service call initiated a multi-step authentication. [optional]

```
"storePin" : boolean // THIS FIELD IS DEPRECATED AND WILL BE REMOVED.
```

Please refer to the 'storeSecrets' field instead.

Whether to store the PIN. If the PIN is stored, it is not required to pass the PIN again when executing SEPA orders. Default value is 'false'.

NOTES:

- before you set this field to true, please regard the 'pinsAreVolatile' flag of the bank connection that the account belongs to. Please note that volatile credentials will not be stored, even if provided, to enforce user involvement in the next communication with the bank;
- this field is ignored in case when the user will need to use finAPI's Web Form. The user will be able to decide whether to store the PIN or not in the Web Form, depending on the 'storeSecretsAvailableInWebForm' setting (see Client Configuration). [optional] Default value: false Example: true

```
}
```

## Removed Type: RequestSepaMoneyTransferParams

Occurs in the following services:

POST /api/v\*/accounts/requestSepaMoneyTransfer

Parameters for a single or collective SEPA money transfer order request

```
{
  "recipientName" : string, // Name of the recipient. Note: Neither finAPI nor the involved bank servers are guaranteed to validate the recipient name. Even
if the recipient name does not depict the actual registered account holder of the specified recipient account, the money transfer request might still be
successful. This field is optional only when you pass a clearing account as the recipient. Otherwise, this field is required. [optional] Example: "Max
Mustermann"

  "recipientIban" : string, // IBAN of the recipient's account. This field is optional only when you pass a clearing account as the recipient. Otherwise,
this field is required. [optional] Example: "DE13700800000061110500"

  "recipientBic" : string, // BIC of the recipient's account. Note: This field is optional when you pass a clearing account as the recipient or if the bank
connection of the account that you want to transfer money from supports the IBAN-Only money transfer. You can find this out via GET /bankConnections/<id>. If
no BIC is given, finAPI will try to recognize it using the given recipientIban value (if it's given). And then if the result value is not empty, it will be
used for the money transfer request independent of whether it is required or not (unless you pass a clearing account, in which case the value will always be
ignored). [optional] Example: "DRESDEFF700"

  "clearingAccountId" : string, // Identifier of a clearing account. If this field is set, then the fields 'recipientName', 'recipientIban' and
'recipientBic' will be ignored and the recipient account will be the specified clearing account. [optional] Example: "BA-TUYEF7D24CGK6"

  "endToEndId" : string, // End-To-End ID for the transfer transaction [optional] Example: "001100550526"

  "amount" : number, // The amount to transfer. Must be a positive decimal number with at most two decimal places (e.g. 99.99) [required] Example: 99.99

  "purpose" : string, // The purpose of the transfer transaction [optional] Example: "Test Payment"

  "sepaPurposeCode" : string, // SEPA purpose code, according to ISO 20022, external codes set. [optional] Example: "OTHR"
```

"accountId" : integer [int64], // Identifier of the bank account that you want to transfer money from [required] Example: 1

"bankingPin" : string, // Online banking PIN. Any symbols are allowed. Max length: 170. If a PIN is stored in the bank connection, then this field may remain unset. If finAPI's Web Form is not required and the field is set though then it will always be used (even if there is some other PIN stored in the bank connection). If you want the user to enter a PIN in finAPI's Web Form even when a PIN is stored, then just set the field to any value, so that the service recognizes that you wish to use the Web Form flow. [optional] Example: "123456"

"storeSecrets" : boolean, // Whether to store the PIN. If the PIN is stored, it is not required to pass the PIN again when executing SEPA orders. Default value is 'false'.

#### NOTES:

- before you set this field to true, please regard the 'pinsAreVolatile' flag of the bank connection that the account belongs to. Please note that volatile credentials will not be stored, even if provided, to enforce user involvement in the next communication with the bank;
- this field is ignored in case when the user will need to use finAPI's Web Form. The user will be able to decide whether to store the PIN or not in the Web Form, depending on the 'storeSecretsAvailableInWebForm' setting (see Client Configuration). [optional] Default value: false Example: true

"twoStepProcedureId" : string, // The bank-given ID of the two-step-procedure that should be used for the order. For a list of available two-step-procedures, see the corresponding bank connection (GET /bankConnections). If this field is not set, then the bank connection's default two-step-procedure will be used. Note that in this case, when the bank connection has no default two-step-procedure set, then the response of the service depends on whether you need to use finAPI's Web Form or not. If you need to use the Web Form, the user will be prompted to select the two-step-procedure within the Web Form. If you don't need to use the Web Form, then the service will return an error (passing a value for this field is required in this case). [optional] Example: "955"

"executionDate" : string, // **Format:** 'YYYY-MM-DD'  
Execution date for the money transfer(s). If not specified, then the current date will be used. [optional] Example: "2018-01-01"

"singleBooking" : boolean, // This field is only regarded when you pass multiple orders. It determines whether the orders should be processed by the bank as one collective booking (in case of 'false'), or as single bookings (in case of 'true'). Default value is 'false'. [optional] Default value: false Example: false

"additionalMoneyTransfers" : array of SingleMoneyTransferRecipientData, // **Type:** SingleMoneyTransferRecipientData

In case that you want to submit not just a single money transfer, but do a collective money transfer, use this field to pass a list of additional money transfer orders. The service will then pass a collective money transfer request to the bank, including both the money transfer specified on the top-level, as well as all money transfers specified in this list. The maximum count of money transfers that you can pass (in total) is 15000. Note that you should check the account's 'supportedOrders' field to find out whether or not it is supporting collective money transfers. [optional]

"challengeResponse" : string, // THIS FIELD IS DEPRECATED AND WILL BE REMOVED.

Please refer to the 'multiStepAuthentication' field instead.

Challenge response. This field should be set only when the previous attempt to request a SEPA money transfer failed with HTTP code 510, i.e. the bank sent a challenge for the user for an additional authentication. In this case, this field must contain the response to the bank's challenge. Please note that in case of using finAPI's Web Form you have to leave this field unset and the application will automatically recognize that the user has to input challenge response and then a Web Form will be shown to the user. [optional] Example: "0123"

"hideTransactionDetailsInWebForm" : boolean, // Whether the finAPI Web Form should hide transaction details when prompting the caller for the second factor. Default value is false. [optional] Default value: false Example: false

"multiStepAuthentication" : object, // <strong>Type:</strong> MultiStepAuthenticationCallback

Container for multi-step authentication data. Required when a previous service call initiated a multi-step authentication. [optional]

"storePin" : boolean // THIS FIELD IS DEPRECATED AND WILL BE REMOVED.

Please refer to the 'storeSecrets' field instead.

Whether to store the PIN. If the PIN is stored, it is not required to pass the PIN again when executing SEPA orders. Default value is 'false'.

#### NOTES:

- before you set this field to true, please regard the 'pinsAreVolatile' flag of the bank connection that the account belongs to. Please note that volatile credentials will not be stored, even if provided, to enforce user involvement in the next communication with the bank;
- this field is ignored in case when the user will need to use finAPI's Web Form. The user will be able to decide whether to store the PIN or not in the Web Form, depending on the 'storeSecretsAvailableInWebForm' setting (see Client Configuration). [optional] Default value: false Example: true

}

Removed Type: **SecurityList**

*Occurs in the following services:*

GET /api/v\*/securities/{ids}

Container for securities resources

```
{  
  "securities" : array of Security // <strong>Type:</strong> Security
```

List of securities [required]

```
}
```

## Removed Type: SingleDirectDebitData

Occurs in the following services:

POST /api/v\*/accounts/requestSepaDirectDebit

### Data for a single direct debit

```
{
  "debtorName" : string, // Name of the debtor. Note: Neither finAPI nor the involved bank servers are guaranteed to validate the debtor name. Even if the
debtor name does not depict the actual registered account holder of the specified debtor account, the direct debit request might still be successful.
[required] Example: "Debitor"

  "debtorIban" : string, // IBAN of the debtor's account [required] Example: "DE1370080000061110500"

  "debtorBic" : string, // BIC of the debtor's account. Note: This field is optional if - and only if - the bank connection of the account that you want to
transfer money to supports the IBAN-Only direct debit. You can find this out via GET /bankConnections/<id>. If no BIC is given, finAPI will try to recognize
it using the given debtorIban value (if it's given). And then if the result value is not empty, it will be used for the direct debit request independent of
whether it is required or not. [optional] Example: "DRESDEFF700"

  "amount" : number, // The amount to transfer. Must be a positive decimal number with at most two decimal places (e.g. 99.99) [required] Example: 99.99

  "purpose" : string, // The purpose of the transfer transaction [optional] Example: "Test Payment"

  "sepaPurposeCode" : string, // SEPA purpose code, according to ISO 20022, external codes set. [optional] Example: "OTHR"

  "mandateId" : string, // Mandate ID that this direct debit order is based on. [required] Example: "1"

  "mandateDate" : string, // <strong>Format:</strong> 'YYYY-MM-DD'
Date of the mandate that this direct debit order is based on [required] Example: "2018-01-01"

  "creditorId" : string, // Creditor ID of the source account's holder [optional] Example: "DE02ABC01234567890"
```

```
"endToEndId" : string // End-To-End ID for the transfer transaction [optional] Example: "001100550526"
```

```
}
```

## Removed Type: **SingleMoneyTransferRecipientData**

Occurs in the following services:

POST /api/v\*/accounts/requestSepaMoneyTransfer

Recipient data for a single money transfer order

```
{
  "recipientName" : string, // Name of the recipient. Note: Neither finAPI nor the involved bank servers are guaranteed to validate the recipient name. Even
if the recipient name does not depict the actual registered account holder of the specified recipient account, the money transfer request might still be
successful. This field is optional only when you pass a clearing account as the recipient. Otherwise, this field is required. [optional] Example: "Max
Mustermann"

  "recipientIban" : string, // IBAN of the recipient's account. This field is optional only when you pass a clearing account as the recipient. Otherwise,
this field is required. [optional] Example: "DE13700800000061110500"

  "recipientBic" : string, // BIC of the recipient's account. Note: This field is optional when you pass a clearing account as the recipient or if the bank
connection of the account that you want to transfer money from supports the IBAN-Only money transfer. You can find this out via GET /bankConnections/<id>. If
no BIC is given, finAPI will try to recognize it using the given recipientIban value (if it's given). And then if the result value is not empty, it will be
used for the money transfer request independent of whether it is required or not (unless you pass a clearing account, in which case the value will always be
ignored). [optional] Example: "DRESDEFF700"

  "clearingAccountId" : string, // Identifier of a clearing account. If this field is set, then the fields 'recipientName', 'recipientIban' and
'recipientBic' will be ignored and the recipient account will be the specified clearing account. [optional] Example: "BA-TUYEF7D24CGK6"

  "endToEndId" : string, // End-To-End ID for the transfer transaction [optional] Example: "001100550526"

  "amount" : number, // The amount to transfer. Must be a positive decimal number with at most two decimal places (e.g. 99.99) [required] Example: 99.99

  "purpose" : string, // The purpose of the transfer transaction [optional] Example: "Test Payment"

  "sepaPurposeCode" : string // SEPA purpose code, according to ISO 20022, external codes set. [optional] Example: "OTHR"
```

```
}
```

Removed Type: **SupportedDataSource**

*Occurs in the following services:*

GET /api/v\*/banks/{id}

POST /api/v\*/bankConnections/update

POST /api/v\*/bankConnections/import

POST /api/v\*/bankConnections/connectInterface

GET /api/v\*/bankConnections/{id}

PATCH /api/v\*/bankConnections/{id}

GET /api/v\*/bankConnections

GET /api/v\*/bankConnections/{ids}

GET /api/v\*/banks/{ids}

GET /api/v\*/banks

```
[ "WEB_SCRAPER", "FINTS_SERVER" ]
```

Removed Type: **SupportedOrder**

*Occurs in the following services:*

GET /api/v\*/accounts/{id}

PATCH /api/v\*/accounts/{id}

GET /api/v\*/accounts

GET /api/v\*/accounts/{ids}

```
[ "SEPA_MONEY_TRANSFER", "SEPA_COLLECTIVE_MONEY_TRANSFER", "SEPA_BASIC_DIRECT_DEBIT", "SEPA_BASIC_COLLECTIVE_DIRECT_DEBIT", "SEPA_B2B_DIRECT_DEBIT", "SEPA_B2B_COLLECTIVE_DIRECT_DEBIT" ]
```

Removed Type: **TransactionList**

*Occurs in the following services:*

GET /api/v\*/transactions/{ids}

Container for data of multiple transactions

```
{  
  "transactions" : array of Transaction // <strong>Type:</strong> Transaction  
  
List of transactions [required]  
}
```

## Removed Type: WebForm

Occurs in the following services:

GET /api/v\*/webForms/{id}

Container for a Web Form's data

```
{
  "id" : integer [int64], // Web Form identifier, as returned in the 451 response of the REST service call that initiated the Web Form flow. [required]
Example: 1

  "token" : string, // Token for the finAPI Web Form page, as contained in the 451 response of the REST service call that initiated the Web Form flow (in the
'Location' header). [required] Example:
"03FhQiom8CJUL7rkRgBMCOF9KXlGL9p7kPpW4puMKDD5QbeRm9E9VzrlxBcokaxZt5PGRscn8HI8xuL8voLkirocxgFIF7wU8B240R5ccSjfpPru9vXTBHBEycmBs8Rk2"

  "status" : WebFormStatus, // <strong>Type:</strong> WebFormStatus

Status of a Web Form. Possible values are:
- NOT_YET_OPENED - the Web Form URL was not yet called;
- IN_PROGRESS - the Web Form has been opened but not yet submitted by the user;
- COMPLETED - the user has opened and submitted the Web Form;
- ABORTED - the user has opened but then aborted the Web Form, or the Web Form was aborted by the finAPI system because it has expired (this is the case when
a Web Form is opened and then not submitted within 10 minutes) [required] Possible values: ["NOT_YET_OPENED", "IN_PROGRESS", "COMPLETED", "ABORTED"] Example:
"COMPLETED"

  "serviceResponseCode" : integer [int32], // HTTP response code of the REST service call that initiated the Web Form flow. This field can be queried as soon
as the status becomes COMPLETED or ABORTED. Note that it is still not guaranteed in this case that the field has a value, i.e. it might be null.
[required][nullable] Example: 201

  "serviceResponseBody" : string // HTTP response body of the REST service call that initiated the Web Form flow. This field can be queried as soon as the
status becomes COMPLETED or ABORTED. Note that it is still not guaranteed in this case that the field has a value, i.e. it might be null. [required][nullable]
Example: "{\n  \\"id\":" 5,\n  \\"bankId\":" 277672,\n  \\"name\":" null,\n  \\"bankingUserId\":" null,\n  \\"bankingCustomerId\":" null,\n
```

```
\\\\"bankingPin\\\\": null,\\n  \\\\"type\\\\": \\\\"DEMO\\\\",\\n  \\\\"updateStatus\\\\": \\\\"IN_PROGRESS\\\\",\\n  \\\\"categorizationStatus\\\\": \\\\"READY\\\\",\\n  \\\\"lastManualUpdate\\\\": null,\\n  \\\\"lastAutoUpdate\\\\": null,\\n  \\\\"ibanOnlyMoneyTransferSupported\\\\": false,\\n  \\\\"ibanOnlyDirectDebitSupported\\\\": false,\\n  \\\\"collectiveMoneyTransferSupported\\\\": false,\\n  \\\\"defaultTwoStepProcedureId\\\\": null,\\n  \\\\"twoStepProcedures\\\\": [],\\n  \\\\"interfaces\\\\": [\\n {\\n  \\\\"interface\\\\": \\\\"XS2A\\\\",\\n  \\\\"loginCredentials\\\\": [\\n {\\n  \\\\"label\\\\": \\\\"PSU-ID\\\\",\\n  \\\\"value\\\\": \\\\"XXXXX\\\\"\\n },\\n {\\n  \\\\"label\\\\": \\\\"Passwort\\\\",\\n  \\\\"value\\\\": null\\n }\\n ],\\n  \\\\"defaultTwoStepProcedureId\\\\": null,\\n  \\\\"twoStepProcedures\\\\": [\\n {\\n  \\\\"procedureId\\\\": \\\\"DEMO-TSP-01\\\\",\\n  \\\\"procedureName\\\\": \\\\"SMS\\\\",\\n  \\\\"procedureChallengeType\\\\": \\\\"TEXT\\\\",\\n  \\\\"implicitExecute\\\\": false\\n },\\n {\\n  \\\\"procedureId\\\\": \\\\"DEMO-TSP-02\\\\",\\n  \\\\"procedureName\\\\": \\\\"PUSH\\\\",\\n  \\\\"procedureChallengeType\\\\": \\\\"TEXT\\\\",\\n  \\\\"implicitExecute\\\\": false\\n }\\n ],\\n  \\\\"aisConsent\\\\": {\\n  \\\\"status\\\\": \\\\"NOT_PRESENT\\\\",\\n  \\\\"expiresAt\\\\": null\\n },\\n  \\\\"lastManualUpdate\\\\": null,\\n  \\\\"lastAutoUpdate\\\\": null\\n }\\n ],\\n  \\\\"accountIds\\\\": [\\n 5\\n ],\\n  \\\\"owners\\\\": null,\\n  \\\\"furtherLoginNotRecommended\\\\": false,\\n  \\\\"bank\\\\": {\\n  \\\\"id\\\\": 277672,\\n  \\\\"name\\\\": \\\\"FinAPI Test Bank\\\\",\\n  \\\\"loginHint\\\\": null,\\n  \\\\"bic\\\\": null,\\n  \\\\"blzs\\\\": [\\n  \\\\"00000000\\\\"\\n ],\\n  \\\\"blz\\\\": \\\\"00000000\\\\",\\n  \\\\"location\\\\": null,\\n  \\\\"city\\\\": null,\\n  \\\\"isSupported\\\\": true,\\n  \\\\"isTestBank\\\\": true,\\n  \\\\"popularity\\\\": 1,\\n  \\\\"health\\\\": 100,\\n  \\\\"loginFieldUserId\\\\": \\\\"Onlinebanking-ID\\\\",\\n  \\\\"loginFieldCustomerId\\\\": null,\\n  \\\\"loginFieldPin\\\\": \\\\"PIN\\\\",\\n  \\\\"pinsAreVolatile\\\\": false,\\n  \\\\"isCustomerIdPassword\\\\": false,\\n  \\\\"supportedDataSources\\\\": [\\n  \\\\"FINTS_SERVER\\\\"\\n ],\\n  \\\\"interfaces\\\\": [\\n  {\\n  \\\\"interface\\\\": \\\\"FINTS_SERVER\\\\",\\n  \\\\"tppAuthenticationGroup\\\\": null,\\n  \\\\"loginCredentials\\\\": [\\n  {\\n  \\\\"label\\\\": \\\\"Onlinebanking-ID\\\\",\\n  \\\\"isSecret\\\\": false,\\n  \\\\"isVolatile\\\\": false\\n },\\n {\\n  \\\\"label\\\\": \\\\"PIN\\\\",\\n  \\\\"isSecret\\\\": true,\\n  \\\\"isVolatile\\\\": false\\n }\\n ],\\n  \\\\"properties\\\\": [],\\n  \\\\"loginHint\\\\": null\\n },\\n  {\\n  \\\\"interface\\\\": \\\\"XS2A\\\\",\\n  \\\\"tppAuthenticationGroup\\\\": null,\\n  \\\\"loginCredentials\\\\": [\\n  {\\n  \\\\"label\\\\": \\\\"PSU-ID\\\\",\\n  \\\\"isSecret\\\\": false,\\n  \\\\"isVolatile\\\\": false\\n },\\n  {\\n  \\\\"label\\\\": \\\\"Passwort\\\\",\\n  \\\\"isSecret\\\\": true,\\n  \\\\"isVolatile\\\\": false\\n }\\n ],\\n  \\\\"properties\\\\": [],\\n  \\\\"loginHint\\\\": null\\n }\\n ],\\n  \\\\"lastCommunicationAttempt\\\\": \\\\"2019-08-30 06:10:55.000\\\\",\\n  \\\\"lastSuccessfulCommunication\\\\": \\\\"2019-08-30 06:10:55.000\\\\"\\n }\\n }
```

Removed Type: **WebFormMode**

*Occurs in the following services:*

GET /api/v\*/clientConfiguration

PATCH /api/v\*/clientConfiguration

```
[ "INTERNAL" , "EXTERNAL" , "DISABLED" ]
```

Removed Type: **WebFormStatus**

*Occurs in the following services:*

GET /api/v\*/webForms/{id}

```
[ "NOT_YET_OPENED", "IN_PROGRESS", "COMPLETED", "ABORTED" ]
```