

C_12531_Anlage

Änderungen in I_Information_Service_Accounts.yaml

Die Operationen für einen Merge orientieren sich an den Operationen für eine Relocation, sind von diesen aber unabhängig, Sie setzen in erster Linie auf anderen Ausgangszuständen auf und bedingen selbst keine Statusänderung des Aktenkontos. Die Verwendung einer Vorgangsidentifikation und die Möglichkeiten der Fehler-, bzw Erfolgsmeldung sind analog.

(Swagger-Ansicht informativ)

Merge (merge provider)

GET /information/api/v1/accounts/mergepackagegeneration (startMerge) Initiate merge package preparation for download																																			
<p>Starts a new health record merge process and initiates the preparation of a merge package of an existing health record addressed by <i>insurantId</i>. A <i>requestId</i> for process reference is returned.</p> <p>The 'Merge Provider' and the 'Merge' side responsible actors shall negotiate the merge process in advance and set the health record on merge provider side to state INACCESSIBLE with sole reason 'ready for merge' as preparation for the merge process.</p> <p>Client A client shall use this operation when a health record of an insurant hosted by another health record system shall be integrated into the local (hosted by client) health record of the insurant.</p> <p>A client shall monitor the started process and react on incidents received via <i>postMergePackageDeliveryIncident</i>. A client shall also monitor the notification about a prepared merge package for download via <i>putDownloadUriForMergePackage</i>. If no uri is available after a suitable waiting period, a request for uri propagation shall be issued using <i>uriNotReceived</i> via <i>postMergePackageIncident</i>.</p> <p>Provider Creates a <i>requestId</i> to identify the merge process among the following operations. The addressed health record shall exist and have the state INACCESSIBLE with sole reason 'ready for merge' for package preparation.</p> <p>The provider shall add a resource identified by <i>requestId</i> (as just created) in provider's <i>Information Service Account</i> path <i>/accounts/v1/mergepackagegeneration/{requestId}</i> to enable reception of notifications about this particular request.</p> <p>The health record merge package generation shall be initialized by passing the <i>requestId</i> and <i>insurantId</i> to the responsible actor (insurance company associated to provider) by proprietary means.</p> <p>The responsible actor thereafter is in charge to:</p> <ul style="list-style-type: none">accept the merge request and trigger merge package generation using operation <i>startPackageCreationForMerge</i> (I_Health_Record_Relocation_Service) orreject the merge request and terminate the process using <i>postMergePackageDeliveryIncident</i> with <i>mergeAborted</i> incident (this interface). <table><thead><tr><th>Conditions</th><th>Status code</th><th>Error code</th><th>Remarks</th></tr></thead><tbody><tr><td>Successful operation</td><td>200</td><td></td><td></td></tr><tr><td>Request does not match schema</td><td>400</td><td>malformedRequest</td><td></td></tr><tr><td>No mutual TLS channel used</td><td>403</td><td>accessDenied</td><td></td></tr><tr><td>Health record does not exist (UNKNOWN) or is in state INITIALIZED</td><td>404</td><td>noHealthRecord</td><td></td></tr><tr><td>Health record is not in state INACCESSIBLE with sole reason 'ready for merge'</td><td>409</td><td>statusMismatch</td><td></td></tr><tr><td>also if state is INACCESSIBLE with another or additional reason than 'prepared for a merge'</td><td></td><td></td><td></td></tr><tr><td>Any other error</td><td>500</td><td>internalError</td><td></td></tr></tbody></table> <p>Postconditions</p> <p>Merge package preparation is internally requested</p> <p>A resource with id <i>requestId</i> is available via path</p>				Conditions	Status code	Error code	Remarks	Successful operation	200			Request does not match schema	400	malformedRequest		No mutual TLS channel used	403	accessDenied		Health record does not exist (UNKNOWN) or is in state INITIALIZED	404	noHealthRecord		Health record is not in state INACCESSIBLE with sole reason 'ready for merge'	409	statusMismatch		also if state is INACCESSIBLE with another or additional reason than 'prepared for a merge'				Any other error	500	internalError	
Conditions	Status code	Error code	Remarks																																
Successful operation	200																																		
Request does not match schema	400	malformedRequest																																	
No mutual TLS channel used	403	accessDenied																																	
Health record does not exist (UNKNOWN) or is in state INITIALIZED	404	noHealthRecord																																	
Health record is not in state INACCESSIBLE with sole reason 'ready for merge'	409	statusMismatch																																	
also if state is INACCESSIBLE with another or additional reason than 'prepared for a merge'																																			
Any other error	500	internalError																																	
DELETE /information/api/v1/accounts/mergepackagegeneration/{requestId} (finalizeMerge) confirms the completion of a merge session																																			
<p>Finalizes the merge process and requests deletion of an existing merge package.</p> <p>Client The client (merger) shall always invoke this operation after a successful download of a merge package and integration of received data via <i>startPackageImport</i> (I_Health_Record_Relocation_Service).</p> <p>A merge session is complete once the client has received a success confirmation as response (204)</p> <p>A client shall invalidate <i>requestId</i> and delete the merge package received.</p> <p>Provider The merge package shall be deleted and the associated download uri and the used <i>requestId</i> shall no longer be valid.</p> <p>The information about successful completion of the merge session shall be passed to the responsible actor (insurance company associated to provider) by proprietary means for possible subsequent actions (e.g. the subsequent complete deletion of the health record).</p> <table><thead><tr><th>Conditions</th><th>Status code</th><th>Error code</th><th>Remarks</th></tr></thead><tbody><tr><td>Successful operation</td><td>204</td><td></td><td></td></tr><tr><td>Request does not match schema</td><td>400</td><td>malformedRequest</td><td></td></tr><tr><td>No mutual TLS channel used</td><td>403</td><td>accessDenied</td><td></td></tr><tr><td>Request unknown (<i>requestId</i>)</td><td>404</td><td>noResource</td><td>no ongoing merge request for this id known</td></tr><tr><td>Any other error</td><td>500</td><td>internalError</td><td></td></tr></tbody></table> <p>Postconditions</p> <p>Merge package and <i>requestId</i> deleted</p>				Conditions	Status code	Error code	Remarks	Successful operation	204			Request does not match schema	400	malformedRequest		No mutual TLS channel used	403	accessDenied		Request unknown (<i>requestId</i>)	404	noResource	no ongoing merge request for this id known	Any other error	500	internalError									
Conditions	Status code	Error code	Remarks																																
Successful operation	204																																		
Request does not match schema	400	malformedRequest																																	
No mutual TLS channel used	403	accessDenied																																	
Request unknown (<i>requestId</i>)	404	noResource	no ongoing merge request for this id known																																
Any other error	500	internalError																																	

POST `/information/api/v1/accounts/mergepackagegeneration/{requestid}` (postMergePackageIncident) Notify merge package provider about problems

Notify the merge provider about problems receiving or merging the merge package.

Client:
A client shall always invoke this operation when merge package download or data merging was not successful, not possible or no longer required, i.e. in all cases where a once started merge process can not be successfully completed at all.
A client shall invalidate *requestid* and delete the merge package (if yet downloaded).

Provider:
The information shall be passed to the responsible actors (insurance company associated to provider) by proprietary means to allow subsequent actions.
Incidents shall cause the following behaviour:

- mergeAborted:
 - The merge process is no longer required or can not be completed for any reason on client side (merger). The merge process is terminated early by the client, the merge package shall be deleted and the *requestid* of the process shall be invalidated. The process can not be resumed - if transfer for merge is still required, a whole new process shall be initialized by the client.
- importFailed:
 - The download of a prepared merge package was not possible, not complete or not decryptable or does not match *insurantid*. The merge package provider shall solve the problem - possibly after consultations about the cause - and prepare a corrected package version. The client (merger) shall be notified about the new package via *putDownloadUrlForMergePackage*. If correction is too time consuming or not applicable, the request may be aborted by the merge provider. The client (merger) shall be notified about this case by a *mergeAborted* incident via *postPackageDeliveryIncident* operation call.
- packageCorrupt:
 - The package content was not understood, of wrong structure or malformed. A corrected package shall be deployed as for incident *importFailed*.
- urlNotReceived:
 - The merge package download-url has not been received yet. The download-url shall be posted as soon as possible or transfer shall be aborted, including notification by a *postPackageDeliveryIncident* operation call.

Conditions	Status code	Error code	Remarks
Successful operation	204		
Request does not match schema	400	malformedRequest	
No mutual TLS channel used	403	accessDenied	
Request unknown (<i>requestid</i>)	404	noResource	no ongoing merge request for this id known
Any other error	500	internalError	

Postconditions	Remarks
Incident delivered internally	

Merge (merger)

PUT `/information/api/v1/accounts/mergepackagedelivery/{requestid}` (putDownloadUrlForMergePackage) Provide url to prepared merge package for download

Provide url to prepared merge package for download.

Client:
A client shall invoke this operation when a merge package is available and has valid download url (i.e. package is ready for instant download).

Provider:
The received *download-url* and the associated *requestid* shall be passed to the responsible actor (insurance company associated to provider) by proprietary means.
The responsible actor is thereafter in charge to initialize the data merge itself and call *startPackageMergeImport* of *I_Health_Record_Relocation_Service* for download and merge.

Conditions	Status code	Error code	Remarks
Successful operation	204		
Request does not match schema	400	malformedRequest	
No mutual TLS channel used	403	accessDenied	
Request unknown (<i>requestid</i>)	404	noResource	no ongoing merge request for this id known
Any other error	500	internalError	

Postconditions	Remarks
Export package download is internally requested	

POST /information/api/v1/accounts/mergepackagedelivery/{requestid} (postMergePackageDeliveryIncident) Notify merge package requestor about problems			
Notify a merge package requestor about problems preparing the merge package.			
Client A client (merge provider) shall always invoke this operation when merge package provision is not possible, shall be revoked or is significantly delayed or success notification is pending too long, i.e. a client either initiates the termination of the merge process due to client side problems or request the completion or even abortion carried out by the provider (the <i>merger</i> side). A client sending a <i>mergeAborted</i> incident shall invalidate <i>requestId</i> , <i>download-url</i> and delete the merge package on client side.			
Provider: The information shall be passed to the responsible actor (insurance company associated to provider) by proprietary means to allow suitable actions of the actor. Incidents shall cause the following behaviour: <ul style="list-style-type: none"> noMergeConfirmation <ul style="list-style-type: none"> The notification about a successful merge of content or about incidents has not been received yet. Request will be terminated after a suitable waiting period. mergeAborted: <ul style="list-style-type: none"> Merge package can not or no longer be provided. Request shall be terminated, <i>requestId</i> shall be invalidated and a merge package shall be deleted (if any). 			
Conditions	Status code	Error code	Remarks
Successful operation	204		
Request does not match schema	400	malformedRequest	
No mutual TLS channel used	403	accessDenied	
Request unknown (<i>requestId</i>)	404	noResource	no ongoing relocation request for this id known
Any other error	500	internalError	
Postconditions	Remarks		
Incident delivered internally			
Request aborted	mergeAborted only		

Änderung in OpenApi

/information/api/v1/accounts/mergepackagegeneration:

get:

parameters:

- \$ref: '#/components/parameters/insurantid'
- \$ref: '#/components/parameters/x-requestid'

tags:

- Merge (merge provider)

operationId: startMerge

summary: (startMerge) Initiate merge package preparation for download

description: |

Starts a new health record merge process and initiates the preparation of a merge package

of an existing health record addressed by *_insurantid_*. A *_requestId_* for process reference is returned.

The 'Merge Provider' and the 'Merge' side responsible actors shall negotiate the merge process in advance

and set the health record on merge provider side to state INACCESSIBLE with sole reason 'ready for merge' as preparation for the merge process.

****Client****

A client shall use this operation when a health record of an insurant hosted by another health

record system shall be integrated into the local (hosted by client) health record of the insurant.

A client shall monitor the started process and react on incidents received via *_postMergePackageDeliveryIncident_*.

A client shall also monitor the notification about a prepared merge package for download via *_putDownloadUrlForMergePackage_*.

If no url is available after a suitable waiting period, a request for url propagation shall be issued using

urlNotReceived via *_postMergePackageIncident_*.

****Provider****

Creates a *_requestId_* to identify the merge process among the following operations. The addressed

health record shall exist and have the state INACCESSIBLE with sole reason 'ready for merge' for package preparation.

The provider shall add a resource identified by `_requestId_` (as just created) in provider's

`_Information Service Account_ path`
`_/accounts/v1/mergepackagegeneration/{requestid}_`
 to enable reception of notifications about this particular request.

The health record merge package generation shall be initialized by passing the `_requestId_` and `_insurantId_` to the responsible actor (insurance company associated to provider) by proprietary means.

The responsible actor thereafter is in charge to:

- accept the merge request and trigger merge package generation using operation `_startPackageCreationForMerge_` (I_Health_Record_Relocation_Service) or
- reject the merge request and terminate the process using `_postMergePackageDeliveryIncident_` with `_mergeAborted_` incident (this interface).

Conditions	Status code	Error code	Remarks
Successful operation	200		
Request does not match schema	400	malformedRequest	
No mutual TLS channel used	403	accessDenied	
Health record does not exist (UNKNOWN) or is in state INITIALIZED	404		
noHealthRecord			
Health record is not in state INACCESSIBLE with sole reason 'ready for merge'	409		
statusMismatch			
also if state is INACCESSIBLE with another or additional reason than 'prepared for a merge'			
Any other error	500	internalError	
</br>			
Postconditions	Remarks		
Merge package preparation is internally requested			
A resource with id <code>_requestId_</code> is available via path			

responses:

'200':

description: Ok.

headers:

X-Request-ID:

\$ref: '#/components/headers/xrequestid'

content:

application/json:

examples:

A new request:

value:

requestId: '2d4706b4-c29d-4ff6-b827-e06e6d9e2c0b'

schema:

type: object

properties:

requestId:

\$ref: '#/components/schemas/RequestIdType'

```

'400':
  $ref: '#/components/responses/Error400BadRequest'
'403':
  $ref: '#/components/responses/Error403Forbidden'
'404':
  $ref: '#/components/responses/Error404NotFound'
'409':
  $ref: '#/components/responses/Error409Conflict'
'500':
  $ref: '#/components/responses/Error500InternalServerError'
/information/api/v1/accounts/mergepackagegeneration/{requestid}:
parameters:
- $ref: '#/components/parameters/insurantid'
- $ref: '#/components/parameters/x-requestid'
- $ref: '#/components/parameters/requestid'
delete:
tags:
- Merge (merge provider)
operationId: finalizeMerge
summary: (finalizeMerge) confirms the completion of a merge session
description: |
  Finalizes the merge process and requests deletion of an existing merge package.
  **Client**
  The client (merger) shall always invoke this operation after a successful download
  of a merge package and integration of received data via
  _startPackageImport_ (I_Health_Record_Relocation_Service).
  A merge session is complete once the client has received a success confirmation
  as response ('204')
  A client shall invalidate _requestId_ and delete the merge package received.
  **Provider**
  The merge package shall be deleted and the associated download url and the used
  _requestId_ shall no longer be valid.

  The information about successful completion of the merge session
  shall be passed to the responsible actor (insurance company associated to provider)
by
  proprietary means for possible subsequent actions (e.g. the subsequent complete
  deletion of the health record).
| Conditions | Status code | Error code | Remarks |
|-----|-----|-----|-----|
| Successful operation | 204 |||
| Request does not match schema | 400 | malformedRequest ||
| No mutual TLS channel used | 403 | accessDenied ||
| Request unknown (_requestid_) | 404 | noResource | no ongoing merge request for
this id known |
| Any other error | 500 | internalError ||
</br>
| Postconditions | Remarks |
|-----|-----|
| Merge package and requestId deleted ||
responses:
'204':
  description: Ok. Export package and requestId deleted
'400':
  $ref: '#/components/responses/Error400BadRequest'
'403':

```

```

    $ref: '#/components/responses/Error403Forbidden'
  '404':
    $ref: '#/components/responses/Error404NotFound'
  '500':
    $ref: '#/components/responses/Error500InternalServerError'
post:
  tags:
    - Merge (merge provider)
  operationId: postMergePackageIncident
  summary: (postMergePackageIncident) Notify merge package provider about problems
  description: |
    Notify the merge provider about problems receiving or merging the merge
    package.</br>
    **Client**:</br>
    A client shall always invoke this operation when merge package download
    or data merging was not successful, not possible or no longer required, i.e. in all cases
    where
    a once started merge process can not be successfully completed at all.
    A client shall invalidate _requestId_ and delete the merge package (if yet
    downloaded).

    **Provider**:</br>
    The information shall be passed to the responsible actors (insurance company
    associated to provider)
    by proprietary means to allow subsequent actions.
    Incidents shall cause the following behaviour:
    - mergeAborted:
      - The merge process is no longer required or can not be completed for any reason on
        client side (merger).
      The merge process is terminated early by the client, the merge package shall be
      deleted and the _requestId_ of the process
      shall be invalidated. The process can not be resumed - if transfer for merge is still
      required, a whole
      new process shall be initialized by the client.
    - importFailed:
      - The download of a prepared merge package was not possible, not complete or not
        decryptable or does not match _insurantId_.
      The merge package provider shall solve the problem - possibly after consultations
      about the cause -and prepare a corrected
      package version. The client (merger) shall be notified about the new package via
      _putDownloadUrlForMergePackage_.
      If correction is too time consuming or not applicable, the request may be aborted by
      the merge provider.
      The client (merger) shall be notified about this case
      by a _mergeAborted_ incident via _postPackageDeliveryIncident_ operation call.
    - packageCorrupt:
      - The package content was not understood, of wrong structure or malformed. A
        corrected package
        shall be deployed as for incident _importFailed_.
    - urlNotReceived
      - The merge package download-url has not been received yet.
      The download-url shall be posted as soon as possible or transfer shall be aborted,
      including notification by a _postPackageDeliveryIncident_ operation call.
  | Conditions | Status code | Error code | Remarks | |
|---|---|---|---|---|
  | Successful operation | 204 | |||

```

```

| Request does not match schema | 400 | malformedRequest ||
| No mutual TLS channel used | 403 | accessDenied ||
| Request unknown ( _requestid_ ) | 404 | noResource | no ongoing merge request for
this id known |
| Any other error | 500 | internalError ||
</br>
| Postconditions | Remarks |
|-----|-----|
| Incident delivered internally||

```

```

requestBody:
  required: true
  content:
    application/json:
      examples:
        Download failed:
          value:
            'importFailed'
        Package corrupt:
          value:
            'packageCorrupt'
      schema:
        description: |
          An incident about reception and integration of a merge package:
          - 'mergeAborted' : merge process aborted (request will possibly be restarted
after clarification)
          - 'importFailed' : download not possible (no content, not complete, decryption
error)
          - 'packageCorrupt' : package not processable (corrupt or content structure
unknown)
          - 'urlNotReceived' : url not received
        type: string
        enum:
          - 'mergeAborted'
          - 'importFailed'
          - 'packageCorrupt'
          - 'urlNotReceived'
      responses:
        '204':
          description: Ok.
        '400':
          $ref: '#/components/responses/Error400BadRequest'
        '403':
          $ref: '#/components/responses/Error403Forbidden'
        '404':
          $ref: "#/components/responses/Error404NotFound"
        '500':
          $ref: '#/components/responses/Error500InternalError'

/information/api/v1/accounts/mergepackagedelivery/{requestid}:
  parameters:
    - $ref: '#/components/parameters/insurantid'
    - $ref: '#/components/parameters/x-requestid'
    - $ref: '#/components/parameters/requestid'

```

```

put:
  tags:
    - Merge (merger)
  operationId: putDownloadUrlForMergePackage
  summary: (putDownloadUrlForMergePackage) Provide url to prepared merge package
  for download
  description: |
    Provide url to prepared merge package for download.
    **Client**:</br>
    A client shall invoke this operation when a merge package is available and has valid
    download url (i.e. package is ready for instant download).
    **Provider**:</br>
    The received _download-url_ and the associated _requestId_ shall be passed to the
    responsible actor (insurance company associated to provider) by proprietary means.
    The responsible actor is thereafter in charge to initialize the data merge itself and call
    _startPackageMergeImport_
    of I_Health_Record_Relocation_Service for download and merge.
    | Conditions | Status code | Error code | Remarks |
    |-----|-----|-----|-----|
    | Successful operation | 204 |||
    | Request does not match schema | 400 | malformedRequest ||
    | No mutual TLS channel used | 403 | accessDenied ||
    | Request unknown (_requestId_) | 404 | noResource | no ongoing merge request for
    this id known |
    | Any other error | 500 | internalError ||
    </br>
    | Postconditions | Remarks |
    |-----|-----|
    | Export package download is internally requested ||
  requestBody:
    required: true
    content:
      application/json:
        examples:
          Download ready:
            value:
              downloadurl: 'http://example.com'
        schema:
          type: object
          properties:
            downloadurl:
              $ref: '#/components/schemas/UrlType'
  responses:
    '204':
      description: Ok.
    '400':
      $ref: '#/components/responses/Error400BadRequest'
    '403':
      $ref: '#/components/responses/Error403Forbidden'
    '404':
      $ref: '#/components/responses/Error404NotFound'
    '500':
      $ref: '#/components/responses/Error500InternalError'
  post:
    tags:
      - Merge (merger)

```


operationId: postMergePackageDeliveryIncident
summary: (postMergePackageDeliveryIncident) Notify merge package requestor about problems

description: |
 Notify a merge package requestor about problems preparing the merge package.</br>
****Client**:**</br>
 A client (merge provider) shall always invoke this operation when merge package provision is not possible,
 shall be revoked or is significantly delayed or success notification is pending too long, i.e a client either initiates the
 termination of the merge process due to client side problems or request the completion or even abortion
 carried out by the provider (the _merger_ side).
 A client sending a _mergeAborted_ incident shall invalidate _requestId_, _download-url_ and delete the merge package
 on client side.

****Provider**:**</br>
 The information shall be passed to the responsible actor (insurance company associated to provider)
 by proprietary means to allow suitable actions of the actor.
 Incidents shall cause the following behaviour:
 - noMergeConfirmation
 - The notification about a successful merge of content or about incidents has not been received yet.
 Request will be terminated after a suitable waiting period.
 - mergeAborted:
 - Merge package can not or no longer be provided.
 Request shall be terminated, _requestId_ shall be invalidated and a merge package shall be deleted (if any).

Conditions	Status code	Error code	Remarks
Successful operation	204		
Request does not match schema	400	malformedRequest	
No mutual TLS channel used	403	accessDenied	
Request unknown (_requestid_)	404	noResource	no ongoing relocation request for this id known
Any other error	500	internalError	

Postconditions	Remarks
Incident delivered internally	
Request aborted mergeAborted only	

requestBody:
required: true
content:
 application/json:
 examples:
 Export package generation waiting for bugfix:
 value:
 'noMergeConfirmation'
schema:
description: |

An incident about request of a merge package:

- 'noMergeConfirmation' : waiting for merge confirmation.
- 'mergeAborted' : can not provide merge package or merge aborted. Retry of request recommended

type: string

enum:

- 'noMergeConfirmation'
- 'mergeAborted'

responses:

'204':

description: Ok.

'400':

\$ref: '#/components/responses/Error400BadRequest'

'403':

\$ref: '#/components/responses/Error403Forbidden'

'404':

\$ref: "#/components/responses/Error404NotFound"

'500':

\$ref: '#/components/responses/Error500InternalError'