



USE CASES AND SCENARIOS ACTIVITY 2.4

Legend

Keywords: Given, When, Then, And, If (to add conditionals), Each time, # (for comments)

Requests/Responses: CNR, GET / UPDATE Requests & Responses

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Table of Contents

Scenarios	2
Scenario 1 Accepting before mobility LA	2
Scenario 2 Rejecting before mobility LA	Ζ
Scenario 3 Accepting during mobility LA	7
Scenario 4 Rejecting during mobility LA	Ç
Scenario 5 Accepting before mobility LA	1
Scenario 6 Rejecting before mobility LA	13
Scenario 7 Accepting during mobility LA	15
Scenario 8 Rejecting during mobility LA	17
Fxamples	10

Scenarios

Scenario 1 Accepting before mobility LA

Sending HEI A		Receiving HEI B: Dashboard-OLA
Given that A represents the Sending HEI	 	
And a new LA is created		
When the LA is signed by Student & Sending Responsible		
Then A sends a CNR And A waits for a CNR LA Response	→LA CNR	Given that Dashboard-OLA represents the Receiving HEI B When Dashboard-OLA receives a CNR from A
And A waits for a CNR LA Response	←LA CNR	Then Dashboard-OLA sends a CNR LA Response to A
	Response	And Dashboard-OLA sends a GET LA Request to A
	→GET LA	And Dashboard-OLA waits for a response to the GET LA request
When A receives a CNR Response from Dashboard-OLA	Request	
Then A is sure that Dashboard-OLA received the CNR		
When A receives a GET LA Request from Dashboard-OLA	i	
Then A searches for the latest LA (i.e. the one that is signed by Student	i !	
and Sending Responsible)	1 1 1	
And A prepares the LA GET- Response And A sends the LA GET Response (Ex 1) to Dashboard-OLA	→Ex 1 LA	When Dashboard-OLA receives the Ex1 GET LA Response
And A serius the LA GET Response (LXT) to Dushbourd-OLA	GET-Resp	Then Dashboard-OLA creates a new local LA
	onse	# The local LA is created using the omobility-id and changes-proposal id
		(i.e. the version id) of Ex 1
		And Dashboard-OLA maps the fields of the <u>Ex 1</u> GET LA Response to its
		local LA one by one
		If the Receiving Responsible Person data can be assumed
	i	Then Dashboard-OLA uses this data to fill the Responsible Person data
		in its local LA
	1 1	Else Then Dashboard-OLA copies the data of the Receiving Contact Person
	1 1 1	to fill the Responsible Person data in its local LA
	1 1	And the local LA is filled
		And Dashboard-OLA notifies (email) IRO and Receiving Responsible that a
	1	there is a new LA waiting to be signed

When A receives the Ex 2 LA update request from Dashboard-OLA Then A sends Ex 3 LA Update Response with a success `user-message` And A checks the commitment type (i.e. acceptance) When A marks it as an acceptance Then A updates its local LA with the new commitment # the version id of the LA should not change When A receives a new GET LA Request Then A forms the Ex 4 GET LA Response # <changes-proposal></changes-proposal> element is now formed in the <first-version></first-version> element, along with the 3 commitments	←Ex 2 LA Update Request →Ex 3 LA Update Response	When the Receiving Responsible signs the LA Then the local LA is updated with the new commitment And Dashboard-OLA sends the Update Request Ex 2 (i.e. acceptance) to A When Dashboard-OLA receives Ex 3 LA Update Response Then Dashboard-OLA is sure that A received the update
Each time minor changes are made at the LA Then A sends a CNR # minor changes do not trigger a new round of signatures		Each time minor changes are made at the LA Then Dashboard-OLA sends a CNR # minor changes do not trigger a new round of signatures

Scenario 2 Rejecting before mobility LA

Sending HEI A		Receiving HEI B: Dashboard-OLA
Given that A represents the Sending HEI And a new LA is created When the LA is signed by Student & Sending Responsible Then A sends a CNR And A waits for a CNR LA Response When A receives a CNR Response from Dashboard-OLA	→LA CNR ←LA CNR Response ←GET LA Request	Given that Dashboard-OLA represents the Receiving HEI B When Dashboard-OLA receives a CNR from A Then Dashboard-OLA sends a CNR LA Response to A And Dashboard-OLA sends a GET LA Request to A And Dashboard-OLA waits for a response to the GET LA request
Then A is sure that Dashboard-OLA received the CNR	Request	
When A receives a GET LA Request from Dashboard-OLA Then A searches for the latest LA (i.e. the one that is signed by Student and Sending Responsible) And A prepares the LA GET- Response And A sends the LA GET Response (Ex 1) to Dashboard-OLA	→Ex 1 LA	
	GET-Resp onse	When Dashboard-OLA receives the Ex1 GET LA Response Then Dashboard-OLA creates a new local LA # The local LA is created using the omobility-id and changes-proposal id (i.e. version id) of Ex1 And Dashboard-OLA maps the fields of the Ex1 GET LA Response to its local LA one by one If the Receiving Responsible Person data can be assumed Then Dashboard-OLA uses this data to fill the Responsible Person data in its local LA Else Then Dashboard-OLA copies the data of the Receiving Contact Person to fill the Responsible Person data in its local LA And the local LA is filled
	←Ex 5 LA	And Dashboard-OLA notifies (email) IRO and Receiving Responsible that a there is a new LA waiting to be signed When the Receiving Responsible fills a rejection comment and signs the LA Then the local LA is updated with the new commitment (i.e. rejection)

When A receives the <u>Ex 5</u> LA Update Request from Dashboard-OLA Then A sends <u>Ex 3</u> LA Update Response with a success `user-message` And A checks the commitment type (i.e. rejection)	Update Request	And Dashboard-OLA sends the Update Request <u>Ex 5</u> to A
When A marks it is an rejection Then A updates its local LA with the new commitment	→Ex 3 LA Update	When Dashboard-OLA receives <u>Ex 3</u> LA Update Response
# the version id of the LA should not change	Response	Then Dashboard-OLA is sure that A received the Update
When A receives a new GET LA Request Then A forms the Ex 6 GET LA Response # <changes-proposal></changes-proposal> element is not included		
# A communicates the new round of signatures with CNR When Student make changes to the LA And the updated LA is signed by Student & Sending Responsible Then A sends a CNR And A waits for a CNR LA Response		

Scenario 3 Accepting during mobility LA

Sending HEI A		Receiving HEI B: Dashboard-OLA
Given that A represents the Sending HEI And the Student changes the local LA # changes to Tables A2, B2, and/or C2 Then A creates a new version of its local LA When the LA is signed by Student & Sending Responsible Then A sends a CNR And A waits for a CNR LA Response When A receives a CNR Response from Dashboard-OLA Then A is sure that Dashboard-OLA received the CNR When A receives a GET LA Request from Dashboard-OLA Then A searches for the latest LA (i.e. the one that is signed by Student and Sending Responsible) And System A prepares the LA GET Response # the LA should contain the first signed by all version, and the new version with the proposed changes	→LA CNR ←LA CNR Response ←GET LA Request	Given that Dashboard-OLA represents the Receiving HEI B When Dashboard-OLA receives a CNR from A Then Dashboard-OLA sends a CNR LA Response to A And Dashboard-OLA sends a GET LA Request to A And Dashboard-OLA waits for a response to the GET LA Request
And A sends the LA GET Response (Ex 7) to Dashboard-OLA	→Ex 7 LA GET Response	When Dashboard-OLA receives the Ex 7 GET LA Response Then Dashboard-OLA creates a new version of its local LA # According to the Ex 7 LA GET Response, Dashboard-OLA creates a new version of the LA with id = '4C159B15BAF222F868493C167125FA324-4' And Dashboard-OLA maps the fields of the Ex 7 GET LA Response to its local LA one by one And the new version of the local LA is saved And Dashboard-OLA notifies (email) IRO and Receiving Responsible that a there is an updated LA waiting to be signed When the Receiving Responsible signs the LA Then the local LA is updated with the new commitment

When A receives the Ex 8 LA Update Request from Dashboard-OLA Then A sends Ex 3 LA Update Response with a success `user-message` And A checks the commitment type (i.e. acceptance) When A marks it is an acceptance Then A updates its local LA with the new commitment # the version id of the LA should not change	←Ex 8 LA Update Request →Ex 3 LA Update Response	# The version id remains the same And Dashboard-OLA sends the Update Request Ex 8 (i.e. acceptance) to A When Dashboard-OLA receives Ex 3 LA Update Response Then Dashboard-OLA is sure that A received the Update
When A receives a new GET LA Request Then A forms the Ex 9 GET LA Response # the GET LA Response is now formed with <first-version></first-version> and < atest-approved /> elements, along with the 3+3 commitments		

Scenario 4 Rejecting during mobility LA

Sending HEI A		Receiving HEI B: Dashboard-OLA
Given that A represents the Sending HEI And the Student changes the local LA # changes to Tables A2, B2, and/or C2 Then A creates a new version of its local LA When the LA is signed by Student & Sending Responsible Then A sends a CNR And A waits for a CNR LA Response When A receives a GET LA Request from Dashboard-OLA Then A searches for the latest LA (i.e. the one that is signed by Student and Sending Responsible) And System A prepares the LA GET Response # the LA should contain the first signed by all version, and the new version with the proposed changes And A sends the LA GET Response (Ex 7) to Dashboard-OLA	→ LA CNR ←LA CNR Response ←GET LA Request →Ex 7 LA GET	Given that Dashboard-OLA represents the Receiving HEI B When Dashboard-OLA receives a CNR from A Then Dashboard-OLA sends a CNR LA Response to A And Dashboard-OLA sends a GET LA Request to A And Dashboard-OLA waits for a response to the GET LA request
	Response	When Dashboard-OLA receives the Ex 7 GET LA Response Then Dashboard-OLA creates a new version of its local LA # According to the Ex 7 LA GET Response, Dashboard-OLA creates a new version of the LA with id = '4C159B15BAF222F868493C167125FA324-4' And Dashboard-OLA maps the fields of the Ex 7 GET LA Response to its local LA one by one And the new version of the local LA is saved And Dashboard-OLA notifies (email) IRO and Receiving Responsible that a there is an updated LA waiting to be signed When the Receiving Responsible fills a rejection reason and signs the LA Then the local LA is updated with the new commitment

When A receives the Ex 10 LA Update Request from Dashboard-OLA Then A sends Ex 3 LA Update Response with a success `user-message` And A checks the commitment type (i.e. rejection) When A marks it is as a rejection Then A updates its local LA with the new commitment # the version id of the LA should not change	# The version id remains the same And Dashboard-OLA sends the Update Request Ex 10 (i.e. rejection) to A When Dashboard-OLA receives Ex 3 LA Update Response Then Dashboard-OLA is sure that A received the update
When A receives a new GET LA Request Then A forms the Ex 4 GET LA Response # the LA should contain only the components that have been signed by all.	

Scenario 5 Accepting before mobility LA

Sending HEI B: Dashboard-OLA		Receiving HEI A
Given that Dashboard-OLA represents the Sending HEI B And a new LA is created When the LA is signed by Student & Sending Responsible Then Dashboard-OLA sends a CNR to A And Dashboard-OLA waits for a CNR LA Response	→ LA CNR ← LA CNR	Given that System A represents the Receiving HEI A When A receives a CNR from Dashboard-OLA Then A sends a CNR LA Response to Dashboard-OLA And A sends a GET LA Request to Dashboard-OLA
When Dashboard-OLA receives a CNR Response from A Then Dashboard-OLA is sure that A received the CNR	Response ←GET LA Request	And A waits for a response to the GET LA Request
When Dashboard-OLA receives a GET LA Request from A Then Dashboard-OLA searches for the latest LA # i.e. the one that is signed by Student and Sending Responsible And Dashboard-OLA prepares the LA GET Response And Dashboard-OLA sends the LA GET Response (Ex 11) to A	>F-: 44 I Å	
	→Ex 11 LA GET Response	When A receives the Ex 11 GET LA Response #The Receiving Responsible somehow is assumed by A And the Receiving Responsible signs the LA # the version id of the LA should not change And A sends the LA Update Request (Ex 12) (i.e. acceptance) to
When Dashboard-OLA receives the Ex 12 LA Update Request from A Then Dashboard-OLA sends Ex 13 LA Update Response with a success 'user-message' And Dashboard-OLA checks the commitment type (i.e. acceptance) When Dashboard-OLA marks it as an acceptance	←Ex 12 LA Update Request →Ex 13 LA Update Response	Dashboard-OLA
Then Dashboard-OLA updates its local LA with the new commitment # the version id of the LA should not change And Dashboard-OLA notifies (email) Student, IRO and Receiving		When A receives <u>Ex 13</u> LA Update Response Then A is sure that Dashboard-OLA received the update

Responsible that the LA has been signed by Receiving And the LA is marked as singed by all	
Each time Dashboard-OLA receives a new GET LA Request Then Dashboard-OLA forms the (Ex 14) GET LA Response # <changes-proposal></changes-proposal> element is now formed in the <first-version></first-version> element, along with the 3 commitments	
Each time minor changes are made at the LA Then Dashboard-OLA sends a CNR to A # minor changes do not trigger a new round of signatures	

Scenario 6 Rejecting before mobility LA

Sending HEI B: Dashboard-OLA		Receiving HEI A
Given that Dashboard-OLA represents the Sending HEI B And a new LA is created When the LA is signed by Student & Sending Responsible Then Dashboard-OLA sends a CNR to A And Dashboard-OLA waits for a CNR LA Response	←LA CNR	Given that System A represents the Receiving HEI A When A receives a CNR from Dashboard-OLA Then A sends a CNR LA Response to Dashboard-OLA And A sends a GET LA Request to Dashboard-OLA And A waits for a Response to the GET LA Request
When Dashboard-OLA receives a CNR Response from A Then Dashboard-OLA is sure that A received the CNR	Request	And // Walts for a response to the GET E// request
When Dashboard-OLA receives a GET LA Request from A Then A searches for the latest LA # i.e. the one that is signed by Student and Sending Responsible And Dashboard-OLA prepares the LA GET Response And Dashboard-OLA sends the LA GET Response (Ex 11) to A	→ Ex 11 LA GET Response ←Ex 15 LA	When A receives the <u>Ex 11</u> GET LA Response #The Receiving Responsible somehow is assumed by A And the Receiving Responsible signs the LA # the version id of the LA should not change Then A sends the LA Update Request <u>Ex 15</u> (i.e. rejection) to A
When Dashboard-OLA receives the Ex 15 LA update request from A Then Dashboard-OLA sends Ex 13 LA Update Response with a success 'user-message' And Dashboard-OLA checks the commitment type (i.e. rejection) When Dashboard-OLA marks it as a rejection Then Dashboard-OLA updates its local LA with the new commitment # the version id of the LA should not change And Dashboard-OLA notifies (email) Student, IRO and Receiving Responsible about the rejection	Update Request →Ex 13 LA Update Response	
When the Student makes changes and signs the LA	! ! !	

Then Dashboard-OLA creates a new version of the LA And Dashboard-OLA notifies (email) IRO and Receiving Responsible that a LA is waiting to be signed When the Sending Responsible signs the LA Then Dashboard-OLA creates a new version of the LA And Dashboard-OLA sends a CNR to A And Dashboard-OLA waits for a CNR LA Response	*	When A receives a CNR from Dashboard-OLA Then A sends a CNR LA Response to Dashboard-OLA And A sends a GET LA Request to Dashboard-OLA And A waits for a response to the GET LA Request
# Dashboard-OLA communicates the new round of signatures with CNR When Student make changes to the LA And the updated LA is signed by Student & Sending Responsible Then Dashboard-OLA sends a CNR And Dashboard-OLA waits for a CNR LA Response		

Scenario 7 Accepting during mobility LA

Sending HEI B: Dashboard-OLA		Receiving HEI A
Given that Dashboard-OLA represents the Sending HEI B	 	
And the Student changes the local LA	1 1 1	
# changes to Tables A2, B2, and/or C2 When the Student signs the LA	1	
Then Dashboard-OLA creates a new version of its local LA		
And Dashboard-OLA notifies the IRO / Responsible Person that there is a		
new LA waiting to be signed	1 1 1	
When the Responsible Person signs the LA	i !	
Then Dashboard-OLA creates a new version of its local LA	1 1 1	
And Dashboard-OLA sends a CNR to A		
And Dashboard-OLA waits for a CNR LA Response	→ LA CNR	Circum the at Creations A management that December 1151
	⊢LA CNR	Given that System A represents the Receiving HEI When A receives a CNR from Dashboard-OLA
When Dashboard-OLA receives a CNR Response from A	Response	Then A sends a CNR LA Response to Dashboard-OLA
Then Dashboard-OLA is sure that A received the CNR	←GET LA	And A sends a GET LA Request to Dashboard-OLA
	Request	And A waits for a response to the GET LA Request
When Dashboard-OLA receives a GET LA Request from A		
Then Dashboard-OLA searches for the latest LA	i !	
#i.e. the latest one that is signed by Student and Sending Responsible	1 1 1	
And Dashboard-OLA prepares the LA GET Response		
And Dashboard-OLA sends the LA GET Response (<u>Ex 17</u>) to A	→Ex 17 LA GET	
	Response	
	ricsponse	
	1	When A receives the <u>Ex 17</u> GET LA Response
		#The Receiving Responsible somehow is assumed by A
	i !	And the Receiving Responsible signs the LA
	1 1 1	# the version id of the LA should not change
	←Ex 18 LA	And A sends the update request <u>Ex 18</u> (i.e. acceptance) to Dashboard-OLA
	Update Request	
	Request	
	1 1 1	
	į	

When Dashboard-OLA receives the Ex 18 LA update request from A Then Dashboard-OLA sends Ex 3 LA Update Response with a success 'user-message' And Dashboard-OLA checks the commitment type (i.e. acceptance) When Dashboard-OLA marks it as an acceptance Then Dashboard-OLA updates its local LA with the new commitment # the version id of the LA should not change and the GET LA Response should now be formed with the new <latest-approved></latest-approved> And Dashboard-OLA notifies (email) Student, IRO and Receiving Responsible that the LA has been signed by all	→ Ex 3 LA Update Response	When A receives Ex 3 LA Update Response Then A is sure that Dashboard-OLA received the Update	
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Scenario 8 Rejecting during mobility LA

Sending HEI B: Dashboard-OLA		Receiving HEI A		
Given that Dashboard-OLA represents the Sending HEI B And the Student changes the local LA # changes to Tables A2, B2, and/or C2 When the Student signs the LA Then Dashboard-OLA creates a new version of its local LA And Dashboard-OLA notifies IRO and the Responsible Person that a there is a new LA waiting to be signed When the Responsible Person signs the LA Then Dashboard-OLA creates a new version of its local LA And Dashboard-OLA sends a CNR to A And Dashboard-OLA waits for a CNR LA Response When Dashboard-OLA receives a CNR Response from A Then Dashboard-OLA is sure that A received the CNR When Dashboard-OLA receives a GET LA Request from A Then A searches for the latest LA # i.e. the one that is signed by Student and Sending Responsible And Dashboard-OLA prepares the LA GET Response And Dashboard-OLA sends the LA GET Response (Ex 17) to A	→ LA CNR ←LA CNR Response ←GET LA Request →Ex 17 LA	Given that System A represents the Receiving HEI When A receives a CNR from Dashboard-OLA Then A sends a CNR LA Response to Dashboard-OLA And A sends a GET LA Request to Dashboard-OLA And A waits for a response to the GET LA request		
When Dashboard-OLA receives the Ex 20 LA update request from A Then Dashboard-OLA sends Ex 3 LA Update Response with a success 'user-message' And Dashboard-OLA checks the commitment type (i.e. rejection) When Dashboard-OLA marks it as a rejection	GET Response ←Ex 20 LA Update Request →Ex 3 LA Update	When A receives the Ex 17 GET LA Response #The Receiving Responsible somehow is assumed by A And the Receiving Responsible signs the LA # the version id of the LA should not change Then A sends the LA Update Request Ex 20 (i.e. rejection) to Dashboard-OLA When A receives Ex 3 LA Update Response Then A is sure that Dashboard-OLA received the Update		
Then Dashboard-OLA updates its local LA with the new commitment	Response			

# the version id of the LA should not change And Dashboard-OLA notifies (email) Student, IRO and Receiving Responsible about the rejection					
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Examples

Ex 1 LA GET Response

```
<1a>
   <omobility-id>c442c289-5541-4cae-9edb-8ad83e133/omobility-id>
   <sending-hei>
      <hei-id>example a.edu</hei-id>
      <ounit-name>Department of Mathematics
      <ounit-id>1234
      <contact-person>
          <given-names>Adams
          <family-name>Baker</family-name>
          <email>adams@example a.edu
      </contact-person>
   </sending-hei>
   <receiving-hei>
      <hei-id>example b.edu</hei-id>
      <ounit-name>Department of Mathematics
      <ounit-id>5653486D98511E16E0530B501E0A4594/ounit-id>
      <contact-person>
          <given-names>Clark
          <family-name>Davis</family-name>
          <email>clark.davis@example b.edu
      </contact-person>
   </receiving-hei>
   <receiving-academic-year-id>2020/2021/receiving-academic-year-id>
   <student>
      <given-names>Nalty
      <family-name>Patel</family-name>
      <global-id>urn:schac:personalUniqueCode:int:esi:example a.edu:85525839/global-id>
      <birth-date>1997-05-05
      <citizenship>GR</citizenship>
      <gender>2</gender>
      <email>nalty@example a.edu
   </student>
   <start-year-month>2021-02</start-year-month>
```

```
<end-year-month>2021-07</end-year-month>
<eqf-level-studied-at-departure>
<isced-f-code>0541</isced-f-code>
<isced-clarification>just a clarification of the isced</isced-clarification>
<student-language-skill>
   <language>en</language>
   <cefr-level>B2</cefr-level>
</student-language-skill>
<changes-proposal id="4C159B15BAF222F868493C167125FA324-1">
   <components-studied> <!-- Table A -->
       <component>
           <los-code>123-ABC</los-code>
           <title>Advanced Logics for Computer Scientists</title>
           <term-id>
               <term-number>2</term-number>
               <total-terms>2</total-terms>
           </term-id>
           <credit>
               <scheme>ects</scheme>
               <value>3</value>
           </credit>
        </component>
        <component>
           <los-code>456-EFG</los-code>
           <title>Big Data Mining and Processing</title>
           <term-id>
               <term-number>2</term-number>
               <total-terms>2</total-terms>
           </term-id>
           <credit>
               <scheme>ects</scheme>
               <value>4</value>
           </credit>
       </component>
   </components-studied>
   <components-recognized> <!-- Table B -->
       <component>
           <los-code>843-XYZ</los-code>
           <title>Advanced Logic</title>
           <term-id>
               <term-number>2</term-number>
               <total-terms>2</total-terms>
           </term-id>
           <credit>
```

```
<scheme>ects</scheme>
               <value>3</value>
            </credit>
        </component>
        <component>
            <los-code>542-KML</los-code>
            <title>Big Data</title>
           <term-id>
               <term-number>2</term-number>
               <total-terms>2</total-terms>
           </term-id>
            <credit>
               <scheme>ects</scheme>
               <value>5</value>
           </credit>
        </component>
    </components-recognized>
    <virtual-components> <!-- Table C -->
        <component>
           <los-code>789HIJ</los-code>
            <title>Introduction to Matlab (lab)</title>
            <credit>
               <scheme>ects</scheme>
               <value>1</value>
            <short-description>A short description about the matlab laboratory course/short-description>
        </component>
    </ri>
    <!-- Commitments -->
    <student-signature>
        <timestamp>2020-12-19T10:43:16+02:00</timestamp>
        <signer-app>System A</signer-app>
    </student-signature>
    <sending-hei-signature>
        <signer-name>Frank White</signer-name>
        <signer-position>Professor</signer-position>
        <signer-email>frank@system.a.edy</signer-email>
        <timestamp>2020-12-20T12:16:15+02:00</timestamp>
        <signer-app>System A</signer-app>
    </sending-hei-signature>
</changes-proposal>
<learning-outcomes-url>https://www.math.system.a.edu/learning outcomes url/learning-outcomes-url>
<previsions-url>https://www.math.system.b.edu/provisions url/provisions-url>
```

Ex 2 LA Update Request (acceptance)

Ex 3 LA Update Response (success)

```
<omobility-las-update-response>
    <success-user-message>The update request was received with success.
</omobility-las-update-response>
```

Ex 4 GET LA Response (the first version)

```
<ounit-id>1234
   <contact-person>
       <given-names>Adams
       <family-name>Baker</family-name>
       <email>adams@example a.edu
   </contact-person>
</sending-hei>
<receiving-hei>
   <hei-id>example b.edu</hei-id>
   <ounit-name>Department of Mathematics
   <ounit-id>5653486D98511E16E0530B501E0A4594/ounit-id>
   <contact-person>
       <given-names>Clark
       <family-name>Davis</family-name>
       <email>clark.davis@example b.edu
   </contact-person>
</receiving-hei>
<receiving-academic-year-id>2020/2021/receiving-academic-year-id>
<student>
   <given-names>Nalty</given-names>
   <family-name>Patel</family-name>
   <qlobal-id>urn:schac:personalUniqueCode:int:esi:example a.edu:85525839/qlobal-id>
   <birth-date>1997-05-05
   <citizenship>GR</citizenship>
   <gender>2</gender>
   <email>nalty@example a.edu
</student>
<start-year-month>2021-02</start-year-month>
<end-year-month>2021-07</end-year-month>
<eqf-level-studied-at-departure>6</eqf-level-studied-at-departure>
<isced-f-code>0541</isced-f-code>
<isced-clarification>just a clarification of the isced</isced-clarification>
<student-language-skill>
   <language>en</language>
   <cefr-level>B2</cefr-level>
</student-language-skill>
<first-version id="4C159B15BAF222F868493C167125FA324-1">
   <components-studied> <!-- Table A -->
       <component>
           <los-code>123-ABC</los-code>
           <title>Advanced Logics for Computer Scientists</title>
```

```
<term-id>
            <term-number>2</term-number>
            <total-terms>2</total-terms>
        </term-id>
        <credit>
            <scheme>ects</scheme>
            <value>3</value>
       </credit>
    </component>
    <component>
        <los-code>456-EFG</los-code>
        <title>Big Data Mining and Processing</title>
        <term-id>
            <term-number>2</term-number>
           <total-terms>2</total-terms>
        </term-id>
        <credit>
            <scheme>ects</scheme>
            <value>4</value>
       </credit>
    </component>
</components-studied>
<components-recognized> <!-- Table B -->
    <component>
        <los-code>843-XYZ</los-code>
        <title>Advanced Logic</title>
        <term-id>
            <term-number>2</term-number>
            <total-terms>2</total-terms>
        </term-id>
        <credit>
            <scheme>ects</scheme>
            <value>3</value>
        </credit>
    </component>
    <component>
        <los-code>542-KML</los-code>
        <title>Big Data</title>
        <term-id>
            <term-number>2</term-number>
            <total-terms>2</total-terms>
        </term-id>
        <credit>
            <scheme>ects</scheme>
            <value>5</value>
       </credit>
    </component>
</components-recognized>
```

```
<virtual-components> <!-- Table C -->
           <component>
               <los-code>789HIJ</los-code>
               <title>Introduction to Matlab (lab)</title>
               <credit>
                  <scheme>ects</scheme>
                  <value>1</value>
               </credit>
               <short-description>A short description about the matlab laboratory course/short-description>
           </component>
       </ri></virtual-components>
       <!-- Commitments -->
       <student-signature>
           <timestamp>2020-12-19T10:43:16+02:00</timestamp>
           <signer-app>System A</signer-app>
       </student-signature>
       <sending-hei-signature>
           <signer-name>Frank White</signer-name>
           <signer-position>Professor</signer-position>
           <signer-email>frank@system.a.edy</signer-email>
           <timestamp>2020-12-20T12:16:15+02:00</timestamp>
           <signer-app>System A</signer-app>
       </sending-hei-signature>
       <receiving-hei-signature>
           <signer-name>Ochoa Patel</signer-name>
           <signer-position>Lecturer</signer-position>
           <signer-email>patel@example b.edu</signer-email>
           <timestamp>2020-12-25T10:16:10+01:00</timestamp>
           <signer-app>Dashboard-OLA</signer-app>
       </receiving-hei-signature>
   </first-version>
   <learning-outcomes-url>https://www.math.system.a.edu/learning outcomes url/learning-outcomes-url>
   </la>
```

Ex 5 LA Update Request (rejection)

Ex 6 LA GET Response (rejected by Receiving)

```
<!-- The current LA result is a proposal to be tested during implementation. -->
< la>
   <omobility-id>c442c289-5541-4cae-9edb-8ad83e133/omobility-id>
   <sending-hei>
       <hei-id>example a.edu</hei-id>
       <ounit-name>Department of Mathematics
       <ounit-id>1234
       <contact-person>
          <given-names>Adams
          <family-name>Baker</family-name>
           <email>adams@example a.edu
       </contact-person>
   </sending-hei>
   <receiving-hei>
       <hei-id>example b.edu</hei-id>
       <ounit-name>Department of Mathematics
       <ounit-id>5653486D98511E16E0530B501E0A4594/ounit-id>
       <contact-person>
           <given-names>Clark</given-names>
          <family-name>Davis</family-name>
           <email>clark.davis@example b.edu
       </contact-person>
   </receiving-hei>
   <receiving-academic-year-id>2020/2021</receiving-academic-year-id>
```

```
<student>
       <given-names>Nalty
       <family-name>Patel</family-name>
       <global-id>urn:schac:personalUniqueCode:int:esi:example a.edu:85525839/global-id>
       <birth-date>1997-05-05
       <citizenship>GR</citizenship>
       <gender>2</gender>
       <email>nalty@example a.edu
   </student>
   <eqf-level-studied-at-departure>
   <isced-f-code>0541</isced-f-code>
   <isced-clarification>just a clarification of the isced</isced-clarification>
   <student-language-skill>
       <language>en</language>
       <cefr-level>B2</cefr-level>
   </student-language-skill>
</la>
```

Ex 7 LA GET Response (with <changes-proposal />)

```
<1a>
   <omobility-id>c442c289-5541-4cae-9edb-8ad83e133
   <sending-hei>
      <hei-id>example a.edu</hei-id>
      <ounit-name>Department of Mathematics
      <ounit-id>1234
      <contact-person>
          <given-names>Adams</given-names>
          <family-name>Baker</family-name>
          <email>adams@example a.edu
      </contact-person>
   </sending-hei>
   <receiving-hei>
      <hei-id>example b.edu</hei-id>
      <ounit-name>Department of Mathematics
      <ounit-id>5653486D98511E16E0530B501E0A4594/ounit-id>
```

```
<contact-person>
       <given-names>Clark
       <family-name>Davis</family-name>
       <email>clark.davis@example b.edu
   </contact-person>
</receiving-hei>
<receiving-academic-year-id>2020/2021/receiving-academic-year-id>
<student>
   <given-names>Nalty
   <family-name>Patel</family-name>
   <global-id>urn:schac:personalUniqueCode:int:esi:example a.edu:85525839/global-id>
   <birth-date>1997-05-05
   <citizenship>GR</citizenship>
   <gender>2</gender>
   <email>nalty@example a.edu
</student>
<start-year-month>2021-02</start-year-month>
<end-year-month>2021-07/end-year-month>
<eqf-level-studied-at-departure>6</eqf-level-studied-at-departure>
<isced-f-code>0541</isced-f-code>
<isced-clarification>just a clarification of the isced</isced-clarification>
<student-language-skill>
   <language>en</language>
   <cefr-level>B2</cefr-level>
</student-language-skill>
<first-version id="4C159B15BAF222F868493C167125FA324-1">
   <components-studied> <!-- Table A -->
       <component>
           <los-code>123-ABC</los-code>
           <title>Advanced Logics for Computer Scientists</title>
           <term-id>
               <term-number>2</term-number>
               <total-terms>2</total-terms>
           </term-id>
           <credit>
               <scheme>ects</scheme>
               <value>3</value>
           </credit>
       </component>
       <component>
           <los-code>456-EFG</los-code>
           <title>Big Data Mining and Processing</title>
```

```
<term-id>
            <term-number>2</term-number>
            <total-terms>2</total-terms>
        </term-id>
        <credit>
            <scheme>ects</scheme>
            <value>4</value>
       </credit>
    </component>
</components-studied>
<components-recognized> <!-- Table B -->
    <component>
        <los-code>843-XYZ</los-code>
        <title>Advanced Logic</title>
        <term-id>
            <term-number>2</term-number>
            <total-terms>2</total-terms>
        </term-id>
        <credit>
            <scheme>ects</scheme>
            <value>3</value>
        </credit>
    </component>
    <component>
        <los-code>542-KML</los-code>
        <title>Big Data</title>
        <term-id>
            <term-number>2</term-number>
            <total-terms>2</total-terms>
        </term-id>
        <credit>
            <scheme>ects</scheme>
            <value>5</value>
        </credit>
    </component>
</components-recognized>
<virtual-components> <!-- Table C -->
    <component>
        <los-code>789HIJ</los-code>
        <title>Introduction to Matlab (lab) </title>
        <credit>
            <scheme>ects</scheme>
            <value>1</value>
        <short-description>A short description about the matlab laboratory course/short-description>
    </component>
</ri></virtual-components>
```

```
<!-- Commitments -->
    <student-signature>
        <timestamp>2020-12-19T10:43:16+02:00</timestamp>
        <signer-app>System A</signer-app>
    </student-signature>
    <sending-hei-signature>
        <signer-name>Frank White</signer-name>
        <signer-position>Professor</signer-position>
        <signer-email>frank@system.a.edy</signer-email>
        <timestamp>2020-12-20T12:16:15+02:00</timestamp>
        <signer-app>System A</signer-app>
    </sending-hei-signature>
    <receiving-hei-signature>
        <signer-name>Ochoa Patel</signer-name>
        <signer-position>Lecturer</signer-position>
        <signer-email>patel@example b.edu</signer-email>
        <timestamp>2020-12-25T10:16:10+01:00</timestamp>
        <signer-app>Dashboard-OLA
    </receiving-hei-signature>
</first-version>
<changes-proposal id="4C159B15BAF222F868493C167125FA324-4">
    <components-studied> <!-- Table A2 -->
        <component status="deleted" reason-code="language-mismatch">
           <los-code>123-ABC</los-code>
            <title>Advanced Logics for Computer Scientists</title>
            <term-id>
                <term-number>2</term-number>
                <total-terms>2</total-terms>
            </term-id>
            <credit>
                <scheme>ects</scheme>
                <value>3</value>
            </credit>
        </component>
        <component status="inserted" reason-text="a custom reason">
            <los-code>574-MNX</los-code>
            <title>Calculus 201</title>
            <term-id>
                <term-number>2</term-number>
                <total-terms>2</total-terms>
            </term-id>
            <credit>
```

```
<scheme>ects</scheme>
           <value>5</value>
       </credit>
    </component>
</components-studied>
<components-recognized> <!-- Table B2 -->
    <component status="deleted" reason-code="language-mismatch">
        <los-code>843-XYZ</los-code>
        <title>Advanced Logic</title>
        <term-id>
           <term-number>2</term-number>
           <total-terms>2</total-terms>
       </term-id>
        <credit>
           <scheme>ects</scheme>
           <value>3</value>
       </credit>
    </component>
    <component status="inserted" reason-text="a custom reason">
        <los-code>032-CAL</los-code>
       <title>Calculus</title>
       <term-id>
           <term-number>2</term-number>
           <total-terms>2</total-terms>
       </term-id>
        <credit>
           <scheme>ects</scheme>
           <value>5</value>
       </credit>
    </component>
</components-recognized>
<student> <!-- changes at student data could also be made -->
    <birth-date>1998-01-01
</student>
<!-- Commitments -->
<student-signature>
    <timestamp>2021-01-05T19:32:16+02:00</timestamp>
    <signer-app>System A</signer-app>
</student-signature>
<sending-hei-signature>
    <signer-name>Frank White</signer-name>
    <signer-position>Professor</signer-position>
    <signer-email>frank@system.a.edy</signer-email>
    <timestamp>2021-01-07T11:50:15+02:00</timestamp>
```

Ex 8 LA Update Request (acceptance during mobility)

Ex 9 LA GET Response (with <approved-changes />)

```
</contact-person>
</sending-hei>
<receiving-hei>
   <hei-id>example b.edu</hei-id>
   <ounit-name>Department of Mathematics
   <ounit-id>5653486D98511E16E0530B501E0A4594/ounit-id>
   <contact-person>
       <given-names>Clark
       <family-name>Davis</family-name>
       <email>clark.davis@example b.edu
   </contact-person>
</receiving-hei>
<receiving-academic-year-id>2020/2021/receiving-academic-year-id>
<student>
   <given-names>Nalty</given-names>
   <family-name>Patel</family-name>
   <global-id>urn:schac:personalUniqueCode:int:esi:example a.edu:85525839/global-id>
   <birth-date>1998-01-01<!-- Student's updated birthdate -->
   <citizenship>GR</citizenship>
   <gender>2</gender>
   <email>nalty@example a.edu
</student>
<start-year-month>2021-02</start-year-month>
<end-year-month>2021-07</end-year-month>
<eqf-level-studied-at-departure>
<isced-f-code>0541</isced-f-code>
<isced-clarification>just a clarification of the isced</isced-clarification>
<student-language-skill>
   <language>en</language>
   <cefr-level>B2</cefr-level>
</student-language-skill>
<first-version id="4C159B15BAF222F868493C167125FA324-1">
   <components-studied> <!-- Table A -->
       <component>
           <los-code>123-ABC</los-code>
           <title>Advanced Logics for Computer Scientists</title>
           <term-id>
               <term-number>2</term-number>
               <total-terms>2</total-terms>
           </term-id>
           <credit>
```

```
<scheme>ects</scheme>
            <value>3</value>
        </credit>
    </component>
    <component>
        <los-code>456-EFG</los-code>
        <title>Big Data Mining and Processing</title>
        <term-id>
            <term-number>2</term-number>
            <total-terms>2</total-terms>
        </term-id>
        <credit>
            <scheme>ects</scheme>
            <value>4</value>
       </credit>
    </component>
</components-studied>
<components-recognized> <!-- Table B -->
    <component>
        <los-code>843-XYZ</los-code>
        <title>Advanced Logic</title>
        <term-id>
            <term-number>2</term-number>
            <total-terms>2</total-terms>
        </term-id>
        <credit>
            <scheme>ects</scheme>
            <value>3</value>
        </credit>
    </component>
    <component>
        <los-code>542-KML</los-code>
        <title>Big Data</title>
            <term-number>2</term-number>
            <total-terms>2</total-terms>
        </term-id>
        <credit>
            <scheme>ects</scheme>
            <value>5</value>
        </credit>
    </component>
</components-recognized>
<virtual-components> <!-- Table C -->
    <component>
        <los-code>789HIJ</los-code>
        <title>Introduction to Matlab (lab)</title>
```

```
<credit>
                <scheme>ects</scheme>
                <value>1</value>
            <short-description>A short description about the matlab laboratory course</short-description>
        </component>
   </ri></virtual-components>
    <!-- Commitments -->
   <student-signature>
        <timestamp>2020-12-19T10:43:16+02:00</timestamp>
        <signer-app>System A</signer-app>
   </student-signature>
   <sending-hei-signature>
        <signer-name>Frank White</signer-name>
        <signer-position>Professor</signer-position>
        <signer-email>frank@system.a.edy</signer-email>
        <timestamp>2020-12-20T12:16:15+02:00</timestamp>
        <signer-app>System A</signer-app>
   </sending-hei-signature>
   <receiving-hei-signature>
        <signer-name>Ochoa Patel</signer-name>
        <signer-position>Lecturer</signer-position>
        <signer-email>patel@example b.edu</signer-email>
        <timestamp>2020-12-25T10:16:10+01:00</timestamp>
        <signer-app>Dashboard-OLA</signer-app>
   </receiving-hei-signature>
</first-version>
<approved-changes id="4C159B15BAF222F868493C167125FA324-4">
   <components-studied> <!-- Table A2 -->
        <component status="deleted" reason-code="language-mismatch">
            <los-code>123-ABC</los-code>
            <title>Advanced Logics for Computer Scientists</title>
            <term-id>
                <term-number>2</term-number>
                <total-terms>2</total-terms>
            </term-id>
            <credit>
                <scheme>ects</scheme>
                <value>3</value>
            </credit>
        </component>
        <component status="inserted" reason-text="a custom reason">
```

```
<los-code>574-MNX</los-code>
        <title>Calculus 201</title>
        <term-id>
           <term-number>2</term-number>
           <total-terms>2</total-terms>
       </term-id>
        <credit>
           <scheme>ects</scheme>
           <value>5</value>
       </credit>
    </component>
</components-studied>
<components-recognized> <!-- Table B2 -->
    <component status="deleted" reason-code="language-mismatch">
       <los-code>843-XYZ</los-code>
        <title>Advanced Logic</title>
        <term-id>
           <term-number>2</term-number>
           <total-terms>2</total-terms>
       </term-id>
        <credit>
           <scheme>ects</scheme>
           <value>3</value>
       </credit>
    </component>
    <component status="inserted" reason-text="a custom reason">
        <los-code>032-CAL</los-code>
       <title>Calculus</title>
       <term-id>
           <term-number>2</term-number>
           <total-terms>2</total-terms>
        </term-id>
        <credit>
           <scheme>ects</scheme>
           <value>5</value>
       </credit>
    </component>
</components-recognized>
<student> <!-- changes at student data could also be made -->
    <birth-date>1998-01-01
</student>
<!-- Commitments -->
<student-signature>
    <timestamp>2021-01-05T19:32:16+02:00</timestamp>
    <signer-app>System A</signer-app>
```

```
</student-signature>
       <sending-hei-signature>
            <signer-name>Frank White</signer-name>
            <signer-position>Professor</signer-position>
            <signer-email>frank@system.a.edy</signer-email>
            <timestamp>2021-01-07T11:50:15+02:00</timestamp>
            <signer-app>System A</signer-app>
       </sending-hei-signature>
       <receiving-hei-signature>
           <signer-name>Ochoa Patel</signer-name>
            <signer-position>Lecturer</signer-position>
            <signer-email>patel@example b.edu</signer-email>
            <timestamp>2021-01-08T11:50:15+02:00</timestamp>
            <signer-app>Dashboard-OLA</signer-app>
       </receiving-hei-signature>
   </approved-changes>
   <learning-outcomes-url>https://www.math.system.a.edu/learning outcomes url/learning-outcomes-url>
   <previsions-url>https://www.math.system.b.edu/provisions url/provisions-url>
</la>
```

Ex 10 LA Update Request (rejection during mobility)

Ex 11 LA GET Response

```
<1a>
   <omobility-id>c442c289-5541-4cae-9edb-8ad83e133
   <sending-hei>
       <hei-id>example b.edu</hei-id>
       <ounit-name>Department of Mathematics
       <ounit-id>5653486D98511E16E0530B501E0A4594/ounit-id>
       <contact-person>
          <given-names>Clark</given-names>
          <family-name>Davis</family-name>
          <email>clark.davis@example b.edu
       </contact-person>
   </sending-hei>
   <receiving-hei>
       <hei-id>example a.edu</hei-id>
       <ounit-name>Department of Mathematics
       <ounit-id>1234
       <contact-person>
          <given-names>Adams
           <family-name>Baker</family-name>
          <email>adams@example a.edu
       </contact-person>
   </receiving-hei>
   <receiving-academic-year-id>2020/2021/receiving-academic-year-id>
   <student>
       <given-names>Nalty</given-names>
       <family-name>Patel</family-name>
       <global-id>urn:schac:personalUniqueCode:int:esi:example_b.edu:85525839/global-id>
       <birth-date>1997-05-05
       <citizenship>GR</citizenship>
       <gender>2</gender>
       <email>nalty@example b.edu
   </student>
   <start-year-month>2021-02</start-year-month>
   <end-year-month>2021-07</end-year-month>
   <eqf-level-studied-at-departure>6</eqf-level-studied-at-departure>
   <isced-f-code>0541</isced-f-code>
```

```
<isced-clarification>just a clarification of the isced</isced-clarification>
<student-language-skill>
    <language>en</language>
    <cefr-level>B2</cefr-level>
</student-language-skill>
<changes-proposal id="4C159B15BAF222F868493C167125FA324-1">
    <components-studied> <!-- Table A -->
        <component>
            <los-code>123-ABC</los-code>
            <title>Advanced Logics for Computer Scientists</title>
            <term-id>
                <term-number>2</term-number>
                <total-terms>2</total-terms>
            </term-id>
            <credit>
                <scheme>ects</scheme>
                <value>3</value>
            </credit>
        </component>
        <component>
            <los-code>456-EFG</los-code>
            <title>Big Data Mining and Processing</title>
            <term-id>
                <term-number>2</term-number>
                <total-terms>2</total-terms>
            </term-id>
            <credit>
                <scheme>ects</scheme>
                <value>4</value>
            </credit>
        </component>
    </components-studied>
    <components-recognized> <!-- Table B -->
        <component>
            <los-code>843-XYZ</los-code>
            <title>Advanced Logic</title>
            <term-id>
                <term-number>2</term-number>
                <total-terms>2</total-terms>
            </term-id>
            <credit>
                <scheme>ects</scheme>
                <value>3</value>
            </credit>
        </component>
        <component>
```

```
<los-code>542-KML</los-code>
              <title>Big Data</title>
              <term-id>
                  <term-number>2</term-number>
                  <total-terms>2</total-terms>
              </term-id>
              <credit>
                  <scheme>ects</scheme>
                  <value>5</value>
              </credit>
          </component>
       </components-recognized>
       <virtual-components> <!-- Table C -->
          <component>
              <los-code>789HIJ</los-code>
              <title>Introduction to Matlab (lab)</title>
              <credit>
                  <scheme>ects</scheme>
                  <value>1</value>
              <short-description>A short description about the matlab laboratory course
          </component>
       </ri></virtual-components>
       <!-- Commitments -->
       <student-signature>
          <timestamp>2020-12-19T10:43:16+02:00</timestamp>
          <signer-app>Dashboard-OLA</signer-app>
       </student-signature>
       <sending-hei-signature>
          <signer-name>Frank White</signer-name>
           <signer-position>Professor</signer-position>
           <signer-email>frank@system.b.edy</signer-email>
          <timestamp>2020-12-20T12:16:15+02:00</timestamp>
          <signer-app>Dashboard-OLA
       </sending-hei-signature>
   </changes-proposal>
   <learning-outcomes-url>https://www.math.system.b.edu/learning outcomes url/learning-outcomes-url>
   </la>
```

Ex 12 LA Update Request (acceptance)

Ex 13 LA Update Response (success)

```
<omobility-las-update-response>
     <success-user-message>The update request was received with success.</success-user-message>
</omobility-las-update-response>
```

Ex 14 GET LA Response (the first version)

```
</contact-person>
</sending-hei>
<receiving-hei>
   <hei-id>example a.edu</hei-id>
   <ounit-name>Department of Mathematics
   <ounit-id>1234
   <contact-person>
       <given-names>Adams
       <family-name>Baker</family-name>
       <email>adams@example a.edu
   </contact-person>
</receiving-hei>
<receiving-academic-year-id>2020/2021/receiving-academic-year-id>
<student>
   <given-names>Nalty</given-names>
   <family-name>Patel</family-name>
   <global-id>urn:schac:personalUniqueCode:int:esi:example b.edu:85525839/global-id>
   <birth-date>1997-05-05
   <citizenship>GR</citizenship>
   <gender>2</gender>
   <email>nalty@example b.edu
</student>
<start-year-month>2021-02</start-year-month>
<end-year-month>2021-07</end-year-month>
<eqf-level-studied-at-departure>
<isced-f-code>0541</isced-f-code>
<isced-clarification>just a clarification of the isced</isced-clarification>
<student-language-skill>
   <language>en</language>
   <cefr-level>B2</cefr-level>
</student-language-skill>
<first-version id="4C159B15BAF222F868493C167125FA324-1">
   <components-studied> <!-- Table A -->
       <component>
           <los-code>123-ABC</los-code>
           <title>Advanced Logics for Computer Scientists</title>
           <term-id>
              <term-number>2</term-number>
              <total-terms>2</total-terms>
           </term-id>
           <credit>
```

```
<scheme>ects</scheme>
            <value>3</value>
        </credit>
    </component>
    <component>
        <los-code>456-EFG</los-code>
        <title>Big Data Mining and Processing</title>
        <term-id>
            <term-number>2</term-number>
            <total-terms>2</total-terms>
        </term-id>
        <credit>
            <scheme>ects</scheme>
            <value>4</value>
       </credit>
    </component>
</components-studied>
<components-recognized> <!-- Table B -->
    <component>
        <los-code>843-XYZ</los-code>
        <title>Advanced Logic</title>
        <term-id>
            <term-number>2</term-number>
            <total-terms>2</total-terms>
        </term-id>
        <credit>
            <scheme>ects</scheme>
            <value>3</value>
        </credit>
    </component>
    <component>
        <los-code>542-KML</los-code>
        <title>Big Data</title>
            <term-number>2</term-number>
            <total-terms>2</total-terms>
        </term-id>
        <credit>
            <scheme>ects</scheme>
            <value>5</value>
        </credit>
    </component>
</components-recognized>
<virtual-components> <!-- Table C -->
    <component>
        <los-code>789HIJ</los-code>
        <title>Introduction to Matlab (lab)</title>
```

```
<credit>
                  <scheme>ects</scheme>
                  <value>1</value>
               <short-description>A short description about the matlab laboratory course
           </component>
       </ri>
       <!-- Commitments -->
       <student-signature>
           <timestamp>2020-12-19T10:43:16+02:00</timestamp>
           <signer-app>Dashboard-OLA
       </student-signature>
       <sending-hei-signature>
           <signer-name>Frank White</signer-name>
           <signer-position>Professor</signer-position>
           <signer-email>frank@system.b.edy</signer-email>
           <timestamp>2020-12-20T12:16:15+02:00</timestamp>
           <signer-app>Dashboard-OLA</signer-app>
       </sending-hei-signature>
       <receiving-hei-signature>
           <signer-name>Ochoa Patel</signer-name>
           <signer-position>Lecturer</signer-position>
           <signer-email>patel@example a.edu</signer-email>
           <timestamp>2020-12-25T10:16:10+01:00</timestamp>
           <signer-app>System A</signer-app>
       </receiving-hei-signature>
   </first-version>
   <learning-outcomes-url>https://www.math.system.b.edu/learning outcomes url/learning-outcomes-url>
   orisions-url>https://www.math.system.a.edu/provisions url/provisions-url>
</la>
```

Ex 15 LA Update Request (rejection)

Ex 16 LA GET Response (rejected by Receiving)

```
<!-- The current LA result is a proposal to be tested during implementation. -->
<1a>
   <omobility-id>c442c289-5541-4cae-9edb-8ad83e133/omobility-id>
   <sending-hei>
       <hei-id>example b.edu</hei-id>
       <ounit-name>Department of Mathematics
       <ounit-id>5653486D98511E16E0530B501E0A4594/ounit-id>
       <contact-person>
           <given-names>Clark</given-names>
           <family-name>Davis</family-name>
           <email>clark.davis@example b.edu
       </contact-person>
   </sending-hei>
   <receiving-hei>
       <hei-id>example a.edu</hei-id>
       <ounit-name>Department of Mathematics
       <ounit-id>1234
       <contact-person>
           <given-names>Adams
           <family-name>Baker</family-name>
           <email>adams@example a.edu</email>
       </contact-person>
   </receiving-hei>
   <receiving-academic-year-id>2020/2021</receiving-academic-year-id>
   <student>
       <given-names>Nalty</given-names>
       <family-name>Patel</family-name>
       <global-id>urn:schac:personalUniqueCode:int:esi:example b.edu:85525839/global-id>
```

Ex 17 LA GET Response (with <changes-proposal />)

```
<1a>
   <omobility-id>c442c289-5541-4cae-9edb-8ad83e133
   <sending-hei>
      <hei-id>example b.edu</hei-id>
      <ounit-name>Department of Mathematics
      <ounit-id>5653486D98511E16E0530B501E0A4594
      <contact-person>
          <given-names>Clark</given-names>
          <family-name>Davis</family-name>
          <email>clark.davis@example b.edu
      </contact-person>
   </sending-hei>
   <receiving-hei>
      <hei-id>example a.edu</hei-id>
      <ounit-name>Department of Mathematics
      <ounit-id>1234
      <contact-person>
          <given-names>Adams
          <family-name>Baker</family-name>
          <email>adams@example a.edu
      </contact-person>
```

```
</receiving-hei>
<receiving-academic-year-id>2020/2021/receiving-academic-year-id>
<student>
   <given-names>Nalty
   <family-name>Patel</family-name>
   <global-id>urn:schac:personalUniqueCode:int:esi:example b.edu:85525839/global-id>
   <birth-date>1997-05-05
   <citizenship>GR</citizenship>
   <gender>2</gender>
   <email>nalty@example b.edu
</student>
<start-year-month>2021-02</start-year-month>
<end-year-month>2021-07</end-year-month>
<eqf-level-studied-at-departure>6</eqf-level-studied-at-departure>
<isced-f-code>0541</isced-f-code>
<isced-clarification>just a clarification of the isced</isced-clarification>
<student-language-skill>
   <language>en</language>
   <cefr-level>B2</cefr-level>
</student-language-skill>
<first-version id="4C159B15BAF222F868493C167125FA324-1">
   <components-studied> <!-- Table A -->
       <component>
            <los-code>123-ABC</los-code>
           <title>Advanced Logics for Computer Scientists</title>
           <term-id>
               <term-number>2</term-number>
               <total-terms>2</total-terms>
           </term-id>
            <credit>
               <scheme>ects</scheme>
               <value>3</value>
           </credit>
        </component>
        <component>
           <los-code>456-EFG</los-code>
           <title>Big Data Mining and Processing</title>
           <term-id>
               <term-number>2</term-number>
               <total-terms>2</total-terms>
           </term-id>
            <credit>
```

```
<scheme>ects</scheme>
           <value>4</value>
       </credit>
   </component>
</components-studied>
<components-recognized> <!-- Table B -->
   <component>
       <los-code>843-XYZ</los-code>
       <title>Advanced Logic</title>
       <term-id>
           <term-number>2</term-number>
           <total-terms>2</total-terms>
       </term-id>
       <credit>
           <scheme>ects</scheme>
           <value>3</value>
       </credit>
   </component>
    <component>
       <los-code>542-KML</los-code>
       <title>Big Data</title>
       <term-id>
           <term-number>2</term-number>
           <total-terms>2</total-terms>
       </term-id>
       <credit>
           <scheme>ects</scheme>
           <value>5</value>
       </credit>
   </component>
</components-recognized>
<virtual-components> <!-- Table C -->
   <component>
       <los-code>789HIJ</los-code>
       <title>Introduction to Matlab (lab)</title>
       <credit>
           <scheme>ects</scheme>
           <value>1</value>
       </credit>
       <short-description>A short description about the matlab laboratory course/short-description>
   </component>
</ri>
<!-- Commitments -->
<student-signature>
   <timestamp>2020-12-19T10:43:16+02:00</timestamp>
   <signer-app>Dashboard-OLA
```

```
</student-signature>
   <sending-hei-signature>
        <signer-name>Frank White</signer-name>
       <signer-position>Professor</signer-position>
       <signer-email>frank@system.b.edy</signer-email>
        <timestamp>2020-12-20T12:16:15+02:00</timestamp>
       <signer-app>Dashboard-OLA
   </sending-hei-signature>
   <receiving-hei-signature>
       <signer-name>Ochoa Patel
        <signer-position>Lecturer</signer-position>
        <signer-email>patel@example a.edu</signer-email>
       <timestamp>2020-12-25T10:16:10+01:00</timestamp>
        <signer-app>System A</signer-app>
   </receiving-hei-signature>
</first-version>
<changes-proposal id="4C159B15BAF222F868493C167125FA324-4">
   <components-studied> <!-- Table A2 -->
        <component status="deleted" reason-code="language-mismatch">
           <los-code>123-ABC</los-code>
           <title>Advanced Logics for Computer Scientists</title>
           <term-id>
               <term-number>2</term-number>
               <total-terms>2</total-terms>
           </term-id>
           <credit>
               <scheme>ects</scheme>
               <value>3</value>
           </credit>
        </component>
        <component status="inserted" reason-text="a custom reason">
           <los-code>574-MNX</los-code>
           <title>Calculus 201</title>
           <term-id>
               <term-number>2</term-number>
               <total-terms>2</total-terms>
           </term-id>
           <credit>
               <scheme>ects</scheme>
               <value>5</value>
           </credit>
        </component>
   </components-studied>
```

```
<components-recognized> <!-- Table B2 -->
       <component status="deleted" reason-code="language-mismatch">
           <los-code>843-XYZ</los-code>
           <title>Advanced Logic</title>
           <term-id>
               <term-number>2</term-number>
               <total-terms>2</total-terms>
           </term-id>
           <credit>
               <scheme>ects</scheme>
               <value>3</value>
           </credit>
       </component>
       <component status="inserted" reason-text="a custom reason">
           <los-code>032-CAL</los-code>
           <title>Calculus</title>
           <term-id>
               <term-number>2</term-number>
               <total-terms>2</total-terms>
           </term-id>
           <credit>
               <scheme>ects</scheme>
               <value>5</value>
           </credit>
       </component>
   </components-recognized>
   <student> <!-- changes at student data could also be made -->
       <birth-date>1998-01-01
   </student>
   <!-- Commitments -->
   <student-signature>
       <timestamp>2021-01-05T19:32:16+02:00</timestamp>
       <signer-app>Dashboard-OLA
   </student-signature>
   <sending-hei-signature>
       <signer-name>Frank White</signer-name>
       <signer-position>Professor</signer-position>
       <signer-email>frank@system.b.edy</signer-email>
       <timestamp>2021-01-07T11:50:15+02:00</timestamp>
       <signer-app>Dashboard-OLA</signer-app>
   </sending-hei-signature>
</changes-proposal>
```

Ex 18 LA Update Request (acceptance during mobility)

Ex 19 LA GET Response (with <approved-changes />)

```
<ounit-name>Department of Mathematics
   <ounit-id>1234
   <contact-person>
       <given-names>Adams
       <family-name>Baker</family-name>
       <email>adams@example a.edu</email>
   </contact-person>
</receiving-hei>
<receiving-academic-year-id>2020/2021/receiving-academic-year-id>
<student>
   <given-names>Nalty</given-names>
   <family-name>Patel</family-name>
   <qlobal-id>urn:schac:personalUniqueCode:int:esi:example b.edu:85525839/qlobal-id>
   <birth-date>1997-05-05
   <citizenship>GR</citizenship>
   <gender>2</gender>
   <email>nalty@example b.edu
</student>
<start-year-month>2021-02</start-year-month>
<end-year-month>2021-07</end-year-month>
<eqf-level-studied-at-departure>6</eqf-level-studied-at-departure>
<isced-f-code>0541</isced-f-code>
<isced-clarification>just a clarification of the isced</isced-clarification>
<student-language-skill>
   <language>en</language>
   <cefr-level>B2</cefr-level>
</student-language-skill>
<first-version id="4C159B15BAF222F868493C167125FA324-1">
   <components-studied> <!-- Table A -->
       <component>
           <los-code>123-ABC</los-code>
           <title>Advanced Logics for Computer Scientists</title>
           <term-id>
               <term-number>2</term-number>
               <total-terms>2</total-terms>
           </term-id>
           <credit>
               <scheme>ects</scheme>
               <value>3</value>
           </credit>
       </component>
       <component>
```

```
<los-code>456-EFG</los-code>
        <title>Big Data Mining and Processing</title>
        <term-id>
            <term-number>2</term-number>
            <total-terms>2</total-terms>
        </term-id>
        <credit>
            <scheme>ects</scheme>
            <value>4</value>
        </credit>
    </component>
</components-studied>
<components-recognized> <!-- Table B -->
    <component>
        <los-code>843-XYZ</los-code>
        <title>Advanced Logic</title>
        <term-id>
            <term-number>2</term-number>
            <total-terms>2</total-terms>
        </term-id>
        <credit>
            <scheme>ects</scheme>
            <value>3</value>
        </credit>
    </component>
    <component>
        <los-code>542-KML</los-code>
        <title>Big Data</title>
        <term-id>
            <term-number>2</term-number>
            <total-terms>2</total-terms>
        </term-id>
        <credit>
            <scheme>ects</scheme>
            <value>5</value>
        </credit>
    </component>
</components-recognized>
<virtual-components> <!-- Table C -->
    <component>
        <los-code>789HIJ</los-code>
        <title>Introduction to Matlab (lab)</title>
        <credit>
            <scheme>ects</scheme>
            <value>1</value>
        </credit>
        <short-description>A short description about the matlab laboratory course/short-description>
```

```
</component>
   </ri>
    <!-- Commitments -->
   <student-signature>
       <timestamp>2020-12-19T10:43:16+02:00</timestamp>
        <signer-app>Dashboard-OLA</signer-app>
   </student-signature>
   <sending-hei-signature>
        <signer-name>Frank White</signer-name>
       <signer-position>Professor</signer-position>
        <signer-email>frank@system.b.edy</signer-email>
        <timestamp>2020-12-20T12:16:15+02:00</timestamp>
        <signer-app>Dashboard-OLA</signer-app>
   </sending-hei-signature>
   <receiving-hei-signature>
        <signer-name>Ochoa Patel</signer-name>
        <signer-position>Lecturer</signer-position>
        <signer-email>patel@example a.edu</signer-email>
        <timestamp>2020-12-25T10:16:10+01:00</timestamp>
        <signer-app>System A</signer-app>
   </receiving-hei-signature>
</first-version>
<approved-changes id="4C159B15BAF222F868493C167125FA324-4">
   <components-studied> <!-- Table A2 -->
        <component status="deleted" reason-code="language-mismatch">
           <los-code>123-ABC</los-code>
           <title>Advanced Logics for Computer Scientists</title>
            <term-id>
               <term-number>2</term-number>
               <total-terms>2</total-terms>
           </term-id>
           <credit>
               <scheme>ects</scheme>
               <value>3</value>
           </credit>
        </component>
        <component status="inserted" reason-text="a custom reason">
            <los-code>574-MNX</los-code>
           <title>Calculus 201</title>
           <term-id>
               <term-number>2</term-number>
               <total-terms>2</total-terms>
```

```
</term-id>
       <credit>
           <scheme>ects</scheme>
           <value>5</value>
       </credit>
   </component>
</components-studied>
<components-recognized> <!-- Table B2 -->
    <component status="deleted" reason-code="language-mismatch">
       <los-code>843-XYZ</los-code>
       <title>Advanced Logic</title>
       <term-id>
           <term-number>2</term-number>
           <total-terms>2</total-terms>
       </term-id>
       <credit>
           <scheme>ects</scheme>
           <value>3</value>
       </credit>
   </component>
    <component status="inserted" reason-text="a custom reason">
        <los-code>032-CAL</los-code>
       <title>Calculus</title>
       <term-id>
           <term-number>2</term-number>
           <total-terms>2</total-terms>
       </term-id>
       <credit>
           <scheme>ects</scheme>
           <value>5</value>
       </credit>
   </component>
</components-recognized>
<student> <!-- changes at student data could also be made -->
   <birth-date>1998-01-01
</student>
<!-- Commitments -->
<student-signature>
   <timestamp>2021-01-05T19:32:16+02:00</timestamp>
   <signer-app>Dashboard-OLA
</student-signature>
<sending-hei-signature>
   <signer-name>Frank White</signer-name>
   <signer-position>Professor</signer-position>
```

Ex 20 LA Update Request (rejection during mobility)