

# x-banner-events-v1 (Banner Events Experience API)

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## Revision History

SI No	Description	Author	Version	Date	Sign-off
1	Initial Version	@Nisha Roshan	1.0	Jul 7, 2025	DIARG
2	Updated C4E recommendations	@Nisha Roshan	1.1	Jul 14, 2025	DIARG
3	Added POST /events/student-addresses	@Adnan Khan	1.2	Jul 22, 2025	
4	Added POST /events/staged-study-applications	@Hemanjali Sood	1.3	Aug 11, 2025	

**i** Solution Design Template Version: 1.1 (do not remove from design document)

## C4E Approval

SI No	Item	Details
1	DIARG Ticket Number	

## Projects

SI No	Project Name	Link to Project Confluence Page
1	SMST	

## Decision Registry (Optional)

SI No	Decision Item	Options	Chosen Option and Reasoning	Status	Sign Off By

<<If the Decision Registry is a big list, it can be a child page and referenced here>>

## Risk Registry (Optional)

SI No	Risk Item	Description	Mitigation	Status	Sign Off By

<<If the Risk Registry is a big list, it can be a child page and referenced here>>

## API Details

Attribute	Details
-----------	---------

Description	Event API to retrieve modified Banner details
Consumer	
Exchange Page	
RAML Design	
Inbound Security	IP Allowlist (Static IPs: 13.55.189.178 and 13.236.97.14) Client ID Enforcement
vCore Size and number	

### Consumer Specific Requirements(Optional)

<<Any Consumer specific limitations/Specific requirements need to be captured here >>

### Recommended API Policies (Optional)

## API Endpoint Catalogue

	Flow Name	Request	Response
1	POST <code>/events/unitOfLearningAvailability</code>	<pre> 1  [ 2    { 3      "id": "8", 4      "published": "2025-03-27 01:19:40.651268+00", 5      "resource": { 6        "name": "course-section- information", 7        "id": "113ffb41-bcd7-4dbf- 9c44-268010f1ce49", 8        "version": "application/vnd.hedtech.integrat ion.v16.1.0+json" 9      }, 10     "operation": "replaced", 11     "contentType": "resource- representation", 12     "messageType": "change- notification", 13     "content": { 14       "crn": "1", 15       "termCode": "202430", 16       "id": "113ffb41-bcd7-4dbf- 9c44-268010f1ce49", 17 18     }, 19     "publisher": { </pre>	<pre> 1  { 2   "correlationId": "9d2dee33-7803- 485a-a2b1- 2c7538e597ee", 3   "message": "Success" 4 }  </pre>

```

20     "id": "30a25dd7-35c9-439b-
bad5-2ce662da3c38",
21     "applicationName": "Student
API TEST",
22     "tenant": {
23       "id": "4b09dbf7-056d-
4985-81d8-f58aac95cc0b",
24       "alias": "matest",
25       "name": "Monash
University (AUS)",
26       "environment": "Test"
27     }
28   }
29 }
30 ]

```

2 POST:  
/events/student-  
addresses

```

1 {
2   "eventId": "evt-20250704-
00123",
3   "eventType": "studentAddress",
4   "operation": "UPDATE",
5   "timestamp": "2025-07-
04T10:15:30Z",
6   "content": {
7     "studentAddress": {
8       "studentId": "25996991",
9       "lastModifiedDate": "2021-
11-09T11:39:05Z"
10    }
11  }
12 }

```

```

1 {
2 "correlationId":
"e370a0390-42b090-
1109ec-9fe19-
803f90095d04a406",
3 "message": "Event
Received"
4 }

```

3 POST :  
/events/staged-  
study-  
applications

```

1 {
2   "eventId": "evt-20250807-
12345",
3   "eventType":
"stagedStudyApplication",
4   "operation": "UPDATE",
5   "timestamp": "2025-08-
08T12:18:30Z",
6   "content": {
7     "studyApplications": {
8       "applicationStagingId":
"7cadm64d-f5bf-4829-b433-
6e100287edfe",
9       "applicationExternalId":
"10085",
10      "smsApplicationId" :
"23bf2d5c-7968-42ab-9455-
a71eeb79420d" ,
11      "smsApplicationNumber" :
"1",
12      "personManagerId" :
"45bf2d8c-7968-42ab-9455-
a71eeb74570d",
13      "bannerId" : "A1000085",
14      "templateCode" :
"MONASHIMPORTTEMPLATEV8",
15    }
16  }
17 }

```

```

1 {
2 "correlationId":
"9d2dee33-7803-
485a-a2b1-
2c7538e597ee",
3 "message": "Event
Received"
4 }
5

```

```

18     "submissionConfirmationCode":  

19         "my.app",  

20             "transferStatus" : "ERROR"  

OR  

20 "COMPLETE" ,  

21     "Error" : [{  

22         "code" :  

23 "Global.SchemaValidation.Error",  

24             "description" :  

25 "Errors parsing input JSON.",  

26             "message" :  

27 "Another user has updated this  

Admissions Application Details  

Extended Properties while you  

were editing"  

28     } ],  

29         "lastModifiedDate" : "2023-  

05-08T15:39:09Z"  

30     }  

31 }  

32 }  

33

```

## API Endpoint Details

### POST /events/unit-of-learning-availabilities

Type	Description
Description	Experience API to retrieve modified Unit OF Learning Availability (UnitOfferingOptions) Entity events in Banner
Request Attributes/Payload	<pre> 1 [  2   {  3     "id": "8",  4     "published": "2025-03-27  01:19:40.651268+00",  5       "resource": {  6         "name": "course-section-  information",  7           "id": "113ffb41-bcd7-4dbf-9c44-  268010f1ce49",  8             "version":  "application/vnd.hedtech.integration.v16.1  .0+json"  9           },  10          "operation": "replaced",  11            "contentType": "resource-  representation",  12              "messageType": "change-notification",  13                "content": {  14                  "crn": "1", </pre>

```

15         "termCode": "202430",
16         "id": "113ffb41-bcd7-4dbf-9c44-
268010f1ce49",
17     },
18 },
19 "publisher": {
20     "id": "30a25dd7-35c9-439b-bad5-
2ce662da3c38",
21     "applicationName": "Student API TEST",
22     "tenant": {
23         "id": "4b09dbf7-056d-4985-81d8-
f58aac95cc0b",
24         "alias": "matest",
25         "name": "Monash University (AUS)",
26         "environment": "Test"
27     }
28 }
29
30 }
31 ]

```

## Response Entities

```

1 {
2 "correlationId": "9d2dee33-7803-485a-a2b1-
2c7538e597ee",
3 "message": "Success"
4 }

```

## Connectors Used

HTTP Listener

HTTP Connector

Anypoint MQ Publish (For Outbound)

## Assumptions

## Integration Pattern

## Mule API endpoints to invoke

## Queue/Topic to publish

Publish to below Topic:  
<env>-x-banner-events-ula-p-curriculum-
mgmt-events-v2-q

## Implementation Guidelines

1. Transform Banner data to UnitOfLearningAvailability event payload.
  - a. The only field in the content will be **unitOfLearningAvailability Id** which will be derived by in this format

	<pre>payload.content.termCode + “-“ + payload.content.crn .</pre> <p>b. metadata sample is given below and will be as per MIX standards</p> <p>2. Publish the message to queue - "&lt;env&gt;-x-banner-events-ula-p-curriculum-mgmt-events-v2-q"</p>
<b>Data Translation Requirements</b>	N/A
<b>Error Handling</b>	<p>Error should be transformed to the standard error object and passed back to the caller.</p> <p>Error logging should be logged to trace in Log Consolidation tool</p>
<b>Outbound Security</b>	Client ID Enforcement
<b>Complexity</b>	Simple
<b>Sizing Calculation</b>	<p>The following assumptions have been made to estimate the memory used by this flow:</p> <ul style="list-style-type: none"> <li>• Concurrent Transactions: ??</li> <li>• Latency (ms): ?</li> <li>• Payload size</li> </ul>

<b>Link to Field Mapping</b>	<b>Sample Event Payload:</b>
	<pre> 1  { 2    "metadata": { 3      "eventId": "cea5073e-e9c8-4964-8ccb- 4        c3b1afadc3a2", 5        "correlationId": "ea767e72-d088-4d62- 6          b327-78ea324ef1a1", 7          "eventType": "&lt;env&gt;-x-banner-events- 8            ula-p-curriculum-mgmt-events-v2-q", 9            "source": "x-banner-events-v1", 10           "type": "unit-of-learning- 11             availability-event" 12         }, 13       "content": { 14         "unitOfLearningAvailabilityId": "202430-1" 15       } 16     } 17   } 18 }</pre>

  

<b>Approved Integration Pattern</b>	<b>ASYNC-02</b>
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## POST /events/student-addresses

Type	Description
<b>Description</b>	Experience API endpoint which gets the student Address update notification from banner
<b>Request Attributes/Payload</b>	<pre> 1  { 2    "eventId": "evt-20250704-00123", 3    "eventType": "studentAddress", 4    "operation": "UPDATE", 5    "timestamp": "2025-07-04T10:15:30Z", 6    "content": { 7      "studentAddress": { 8        "studentId": "25996991", 9        "lastModifiedDate": "2021-11-09T11:39:05Z" 10      } 11    } 12  }</pre>
<b>Response Entities</b>	<pre> 1  { 2  "correlationId": "e370a0390-42b090-1109ec-9fe19- 3  803f90095d04a406", 4  "message": "Event Received" 5 }</pre>
<b>Connectors Used</b>	HTTP Listener

	<p>HTTP Connector</p> <p>Anypoint MQ Publish (For Outbound)</p>														
<b>Queue configurations</b>	<ol style="list-style-type: none"> <li>1. Queues should be created in <b>Asia Pacific (Sydney)</b></li> <li>2. Message TTL: 14 Days</li> <li>3. Acknowledgment timeout: 2 Minutes</li> <li>4. Encryption: yes</li> <li>5. Dlq: yes</li> <li>6. Delivery attempts: 3</li> </ol> <p><a href="#">Event Messaging - Format &amp; Naming Standards</a></p>														
<b>MQ connector configurations</b>	<table border="1"> <thead> <tr> <th>Configuration Key</th><th>Value</th></tr> </thead> <tbody> <tr> <td><code>anypoint.mq.url</code></td><td><code>https://mq-ap-southeast-2.anypoint.mulesoft.com/api/v1</code></td></tr> <tr> <td><code>anypoint.mq.path</code></td><td><code>organizations/XXX/environments/XXX</code></td></tr> <tr> <td><code>anypoint.mq.reconnection.attempts</code></td><td>2</td></tr> <tr> <td><code>anypoint.mq.frequency</code></td><td>2000</td></tr> <tr> <td><code>anypoint.mq.studentAddressQueue.name</code></td><td><code>&lt;&gt;-x-banner-events-v1-student-address-p-student-admin-events-v2-q</code></td></tr> <tr> <td><code>anypoint.mq.studentAddressQueue.name.prefetchMaxLocalMessages</code></td><td>30</td></tr> </tbody> </table>	Configuration Key	Value	<code>anypoint.mq.url</code>	<code>https://mq-ap-southeast-2.anypoint.mulesoft.com/api/v1</code>	<code>anypoint.mq.path</code>	<code>organizations/XXX/environments/XXX</code>	<code>anypoint.mq.reconnection.attempts</code>	2	<code>anypoint.mq.frequency</code>	2000	<code>anypoint.mq.studentAddressQueue.name</code>	<code>&lt;&gt;-x-banner-events-v1-student-address-p-student-admin-events-v2-q</code>	<code>anypoint.mq.studentAddressQueue.name.prefetchMaxLocalMessages</code>	30
Configuration Key	Value														
<code>anypoint.mq.url</code>	<code>https://mq-ap-southeast-2.anypoint.mulesoft.com/api/v1</code>														
<code>anypoint.mq.path</code>	<code>organizations/XXX/environments/XXX</code>														
<code>anypoint.mq.reconnection.attempts</code>	2														
<code>anypoint.mq.frequency</code>	2000														
<code>anypoint.mq.studentAddressQueue.name</code>	<code>&lt;&gt;-x-banner-events-v1-student-address-p-student-admin-events-v2-q</code>														
<code>anypoint.mq.studentAddressQueue.name.prefetchMaxLocalMessages</code>	30														

	<pre>anypoint.mq.client. id</pre>	XXX
	<pre>anypoint.mq.client. secret</pre>	XXX
<b>Assumptions</b>		
<b>Integration Pattern</b>	Reliability Pattern	
<b>Mule API endpoints to invoke</b>		
<b>Queue/Topic to publish</b>	<p>Publish to below queue:</p> <p><b>&lt;env&gt;-x-banner-events-v1-student-address-p-student-admin-events-v2-q</b></p>	
<b>Implementation Guidelines</b>	<p>Sample Request</p> <pre> 1 { 2   "eventId": "evt-20250704-00123", 3   "eventType": "studentAddress", 4   "operation": "UPDATE", 5   "timestamp": "2025-07-04T10:15:30Z", 6   "content": { 7     "studentAddress": { 8       "studentId": "25996991", 9       "lastModifiedDate": "2021-11-09T11:39:05Z" 10      } 11    } 12 }</pre>	
	<ol style="list-style-type: none"> <li>1. Try to log valuable information like eventId, event type, operation and studentId for better trackability</li> <li>2. Do the following validation and raise custom error           <ul style="list-style-type: none"> <li>a. Incoming <code>eventType</code> must be <code>"studentAddress"</code>, If any other value is received, raise error with the message: <code>"Invalid eventType received. Expected: studentAddress, but received: &lt;eventType&gt;"</code></li> </ul> </li> </ol>	

- b. Incoming operation must be from [CREATE, UPDATE, DELETE], if not then raise the error with message

```
"Invalid operation value. Allowed  
values are: CREATE, UPDATE, DELETE.  
Received: <operation>"
```

▼ Sample error message for bad request

```
1  {  
2    "correlationId": "945e4740-6795-11f0-8f9f-dc4546dcaff0",  
3    "description": "Invalid eventType received. Expected:  
studentAddress, but received: <eventType>",  
4    "errorType": "APP:BAD_REQUEST",  
5    "additionalDetails": "Invalid eventType received.  
Expected: studentAddress, but received: <eventType>"  
6 }
```

3. Transform the incoming payload from **Banner** into the required **event format**.

- Publish the transformed payload to the following queue:

```
"<env>-x-banner-events-v1-student-  
address-p-student-admin-events-v2-q"
```

- This message will be consumed by the target API:

```
"p-student-admin-events-v2"
```

▼ Sample event payload

```
1  {  
2    "metadata": {  
3      "eventId": "evt-20250704-00123",  
4      "correlationId": "e370a0390-42b090-1109ec-9fe19-  
803f90095d04a406",  
5      "source": "x-banner-events-v1",  
6      "receivedOn": "2025-08-27T09:02:15Z"  
7    },  
8    "content": {  
9      "eventType": "<env>-x-banner-events-v1-student-  
address-p-student-admin-events-v2-q",  
10     "objectType": "studentAddress"  
11     "studentAddress": {  
12       "studentId": "25996991",  
13       "lastModifiedDate": "2021-11-09T11:39:05Z",  
14       "event": "UPDATE"  
15     }  
16   }  
17 }
```

4. Give the following response back to the banner API with **202** status

▼ Sample 202 Response

```

1  {
2    "correlationId": "e370a0390-42b090-1109ec-9fe19-
803f90095d04a406",
3    "message": "Event Received"
4  }

```

<b>Data Translation Requirements</b>	N/A																											
<b>Error Handling</b>	<ol style="list-style-type: none"> <li>1. Error should be transformed to the standard error object and passed back to the caller.</li> <li>2. Error logging should be logged to trace in Log Consolidation tool</li> </ol>																											
<b>Outbound Security</b>	Client ID Enforcement																											
<b>Complexity</b>	Simple																											
<b>Sizing Calculation</b>	N/A																											
<b>Link to Field Mapping</b>	<table border="1"> <thead> <tr> <th>Event payload</th> <th>Banner request</th> <th>Data type</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>metadata.event Id</td> <td>eventI d</td> <td>string</td> <td></td> </tr> <tr> <td>metadata.correlationId</td> <td></td> <td>string</td> <td>correlationId</td> </tr> <tr> <td>metadata.source</td> <td>x- banner- events- v1</td> <td>string</td> <td>Api name, we can reffer app.name</td> </tr> <tr> <td>metadata.receivedOn</td> <td></td> <td>Datetime</td> <td>now() &gt;&gt; "UTC"</td> </tr> <tr> <td>content.eventType</td> <td></td> <td>string</td> <td>Queue name</td> </tr> </tbody> </table>				Event payload	Banner request	Data type	Comments	metadata.event Id	eventI d	string		metadata.correlationId		string	correlationId	metadata.source	x- banner- events- v1	string	Api name, we can reffer app.name	metadata.receivedOn		Datetime	now() >> "UTC"	content.eventType		string	Queue name
Event payload	Banner request	Data type	Comments																									
metadata.event Id	eventI d	string																										
metadata.correlationId		string	correlationId																									
metadata.source	x- banner- events- v1	string	Api name, we can reffer app.name																									
metadata.receivedOn		Datetime	now() >> "UTC"																									
content.eventType		string	Queue name																									

				<env>-x- banner-events- v1-student- address-p- student-admin- events-v2-q
	content.object Type		string	" studentAddress "
	content.studentAddress.studentId	content.studentId	string	
	content.studentAddress.lastModified	content.modifiedDate	dateTime	DateTime in UTC
	content.studentAddress.event	operation	string	
Approved Integration Pattern	ASYNC-02			

### POST /events/staged-study-applications

Type	Description
------	-------------

<b>Description</b>	Experience API endpoint to update the study Applications records from Ellucian APS to unicrm
<b>Request Attributes/Payload</b>	<b>Sample input payload with transferStatus="COMPLETE"</b>
	<pre> 1  { 2    "eventId": "evt-20250807-12345", 3    "eventType": "stagedStudyApplication", 4    "operation": "UPDATE", 5    "timestamp": "2025-08-08T12:18:30Z", 6    "content": { 7      "studyApplication": { 8        "applicationStagingId": "7cadm64d- f5bf-4829-b433-6e100287edfe", 9        "applicationExternalId": "10085", 10       "smsApplicationId" : 11 "23bf2d5c-7968-42ab-9455-a71eeb79420d" , 12       "smsApplicationNumber" : "1", 13       "personManagerId" : "45bf2d8c-7968- 42ab-9455-a71eeb74570d" , 14       "bannerId" : "A1000085", 15       "templateCode" : 16 "MONASHIMPORTTEMPLATEV8", 17       "submissionConfirmationCode": 18       "my.app", 19       "transferStatus" : "COMPLETE" , 20       "errors" : [] , 21       "lastModifiedDate" : "2023-05- 089T15:39:09Z" 22     } 23   } 24 }</pre>
	<b>Sample Input Payload for transferStatus = "ERROR" :</b> <pre> 1  { 2    "eventId": "evt-20250807-12345", 3    "eventType": "stagedStudyApplication", 4    "operation": "UPDATE", 5    "timestamp": "2025-08-08T12:18:30Z", 6    "content": { 7      "studyApplication": { 8        "applicationStagingId": "7cadm64d- f5bf-4829-b433-6e100287edfe" , 9        "applicationExternalId": "10085", 10       "smsApplicationId" : 11 "23bf2d5c-7968-42ab-9455-a71eeb79420d" , 12       "smsApplicationNumber" : "1" , 13       "personManagerId" : "45bf2d8c-7968- 42ab-9455-a71eeb74570d" ,</pre>

```

14         "bannerId" : "A1000085",
15         "templateCode" :
16 "MONASHIMPORTTEMPLATEV8",
17         "submissionConfirmationCode":
18             "my.app",
19             "transferStatus" : "ERROR",
20             "errors" : [
21                 {
22                     "code" :
23 "Global.SchemaValidation.Error",
24                     "description" :
25 "Errors parsing input JSON.",
26                     "message" :
27 "Another user has updated this Admissions
Application Details Extended Properties
while you were editing"
28                 }
29             ],
30             "lastModifiedDate":
31 "2023-05-08T15:39:09Z"
32         }
33     }
34

```

## **Response Entities**

Sample Success Response with HTTP Status  
Code : 202

```

1  {
2   "correlationId": "9d2dee33-7803-485a-a2b1-
2c7538e597ee",
3   "message": "Event Received"
4 }
5

```

## **Connectors Used**

HTTP Listener

HTTP Connector

Anypoint MQ Publish (For Outbound)

## **Assumptions**

## **Integration Pattern**

Reliability Pattern

## **Mule API endpoints to invoke**

## **Queue/Topic to publish**

Publish to below Topic:  
<env>-x-banner-events-v1-study-
applications-t

## **Queue configurations**

1. Queues should be created in **Asia Pacific (Sydney)**

2. Message TTL: 14 Days

3. Acknowledgment timeout: 2 Minutes
4. Encryption: yes
5. Dlq: yes
6. Delivery attempts: 3

[!\[\]\(bca648a02c0d02050f0227f48db0fc75\_img.jpg\) Event Messaging - Format & Naming Standards](#)

### MQ connector configurations

Configuration Key	Value
anypoint.mq.url	https://mq-ap-southeast-2.anypoint.mulesoft.com/api/v1
anypoint.mq.path	organizations/XXX/environments/XXX
anypoint.mq.reconnection.attempts	2
anypoint.mq.frequency	2000
anypoint.mq.studyApplication.name	<>-x-banner-events-v1-study-application-t
anypoint.mq.studyApplication.name.preferenceMaxLocalMessages	30

<code>anypoint.mq.client.id</code>	XXX
<code>anypoint.mq.client.secret</code>	XXX

## Implementation Guidelines

1. Do the following validation and raise custom error “ APP:BAD\_REQUEST ” with **400** HTTP Status code

a. Incoming `eventType` must be `"stagedStudyApplication"`, If any other value is received, raise error with the message:

`"Invalid eventType received. Expected: stagedStudyApplication, but received: <eventType>"`

- b. Incoming operation must be from [UPDATE], if not then raise the error with message

`"Invalid operation value. Allowed value is: UPDATE. Received: <operation>"`

▼ Sample error message for bad request

```

1 {
2   "correlationId": "945e4740-6795-
11f0-8f9f-dc4546dcff0",
3   "description": "Invalid eventType
received. Expected:
stagedStudyApplication, but received:
<eventType>",
4   "errorType": "APP:BAD_REQUEST",
5   "additionalDetails": "Invalid
eventType received. Expected:

```

```
    stagedStudyApplication, but received:  
    <eventType>"  
6 }
```

2. Transform the data received from Ellucian  
APS to Study Applications event payload.
3. Publish the event payload to queue "**<env>-x-banner-events-v1-study-applications-t**"

#### Sample Event payload :

```
1 {  
2   "metadata": {  
3     "eventId": "91216a66-328b-4c09-b1c7-  
f689e6f71d4a",  
4     "correlationId": "91216a66-328b-  
4c09-b1c7-f689e6f71d4a",  
5     "source": "x-banner-events-v1",  
6     "receivedOn": "2025-07-04T10:15:30Z"  
7   },  
8   "content": {  
9     "eventType": "UPDATE",  
10    "objectType": "studyApplication",  
11    "studyApplication": {  
12      "studyApplicationId": "10085",  
13      "studyApplicationUniqueIDs": [ {  
14        "smsApplicationId": "7cadb64d-  
f5bf-4829-b433-6e100287edfe",  
15        "smsApplicationNumber": "1",  
16        "applicationStagingId" :  
"7cada4fd-f5bf-4829-b433-6e100287edb"  
17      },  
18      "applicantUniqueIDs": [ {  
19        "smsPersonId": "45bf2d8c-7968-  
42ab-9455-a71eeb74570d"  
20      },  
21      "applicantId": "A00013477",  
22      "templateCode":  
"MONASHIMPORTTEMPLATEV8",  
23      "transferStatus": "ERROR",  
24      "applicationSource": "my.app",  
25      "errors": [  
26        {  
27          "code":  
"Global.SchemaValidation.Error",  
28          "description": "Errors parsing  
input JSON.",  
29          "message": "Another user has  
updated this Admissions Application  
Details Extended Properties while you  
were editing"  
30        }  
31      ],  
32      "lastModifiedDate": "2021-11-  
09T11:39:05Z"  
33    }
```

```

34    }
35  }
36

```

Sample Success Response with HTTP Status  
Code : 202

```

1  {
2   "correlationId": "9d2dee33-7803-485a-
a2b1-2c7538e597ee",
3   "message": "Event Received"
4  }
5

```

<b>Data Translation Requirements</b>	N/A
<b>Error Handling</b>	<p>Error should be transformed to the standard error object and passed back to the caller.</p> <p>Error logging should be logged to trace in Log Consolidation tool</p>
<b>Outbound Security</b>	Client ID Enforcement
<b>Complexity</b>	Simple
<b>Sizing Calculation</b>	<p>The following assumptions have been made to estimate the memory used by this flow:</p> <ul style="list-style-type: none"> <li>• Concurrent Transactions: ??</li> <li>• Latency (ms): ?</li> <li>• Payload size</li> </ul>
<b>Link to Field Mapping</b>	See Mapping Details in the below table
Approved Integration Pattern	ASYNC-02

#### Mapping Details:

Event payload	Banner request	Data type	Comments
metadata.eventId		string	correlationId
metadata.correlationId	eventId	string	if eventId != correlationId then

			eventId else correlationId
metadata.source	x-banner-events-v1	string	Api name
metadata.receivedOn		Datetime	now() >> "UTC"
content.eventType		string	Operation performed: Hardcode as "UPDATE"
content.objectType		string	"studyApplication"
content.studyApplication.studyApplicationId	content.studyApplication.application.ExternalId	string	
content.studyApplication.studyApplicationUniqueIDs.smsApplicationId	content.studyApplication.smsApplicationId	string	
content.studyApplication.studyApplicationUniqueIDs.applicationStagingId	content.studyApplication.application.StagingId	string	
content.studyApplication.studyApplicationUniqueIDs.smsApplicationNumber	content.studyApplication.smsApplicationNumber	number	

content.studyApplication.applicantUniqueIDs.smsPersonId	content.studyApplication.personManagerId	string	
content.studyApplications.applicantId	content.bannerId	string	
content.studyApplication.templateCode	content.studyApplication.templateCode	string	
content.studyApplication.transferStatus	content.studyApplication.transferStatus	string	
content.studyApplication.applicationSubmissionConfirmationCode	content.studyApplication.submissionConfirmationCode	string	
content.studyApplication.errors[0].code	content.studyApplication.errors[0].code	string	
content.studyApplication.errors[0].description	content.studyApplication.errors[0].description	string	

<code>content.studyApplication.errors[].message</code>	<code>content.studyApplication.errors[].message</code>	string	
<code>content.studyApplication.lastModified</code>	<code>content.studyApplication.lastModified</code>	datetime	

## Messaging Publish/Subscribe Details

SI No	Queue/Topic Name	Queue/Topic Type	Publish/Subscribable Type	MQ Interaction reason
1	<code>&lt;env&gt;-x-banner-events-v1-ula-p-curriculum-mgmt-events-v2-q</code>	Queue	Publish	<b>Publish Unit of Learning Availability Event to Queue</b>
2	<code>&lt;env&gt;-x-banner-events-v1-student-address-p-student-admin-events-v2-q</code>	Queue	Publish	<b>Publish Student Address Event to Queue</b>
3	<code>&lt;env&gt;-x-banner-events-v1-study-applications-t</code>	Topic	Publish	<b>Publish Study Applications Event to Topic</b>

## **Additional references (optional)**

Documentation	Link	Comments
Lucid Folder		
Lucid Page		