**Service Audit Requirements**

General rule: The called service (i.e. end point) should capture the request it received and response it returned, where possible; if that is not possible (e.g. called a partner service), then the consumer should capture the request it sent and the response it received

GIVEN a <consumer> calls an Ascent service

WHEN the called Ascent service (i.e. end point) receives the service request

THEN the called Ascent service (i.e. end point) saves an audit record for the request from the <consumer> to the called Ascent service with the following information:

- Request Identification

- Request Date

- Request Time

- Request Details

|consumer|

External consumer

Ascent service

GIVEN a <consumer> calls an Ascent service

WHEN the called Ascent service (i.e. end point) responds to the service request

THEN the called Ascent service (i.e. end point) saves an audit record for the response from the called Ascent service to the <consumer> with the following information:

- Request Identification

- Response Date

- Response Time

- Response Details

Note: Request Identification includes naming the actors *if possible* (i.e. calling External Consumer, called Ascent Service Name), and a unique key identifying the unique instance of the request. For the external consumer name, we might have to just write the literal words: “External consumer”

GIVEN a <consumer> calls an Ascent service

WHEN the Ascent service calls a partner service

THEN the Ascent service that made the service call to the partner service saves an audit record for the request from the Ascent service to the partner service with the following information:

- Request Identification

- Request Date

- Request Time

- Request Details

|consumer|

External consumer

Ascent service

GIVEN a <consumer> calls an Ascent service

AND the Ascent service calls a partner service

WHEN the Ascent service receives a partner service response

THEN the Ascent service that made the service call to the partner service saves an audit record for the response from the partner service to the Ascent service with the following information:

- Request Identification

- Response Date

- Response Time

- Response Details

|consumer|

External consumer

Ascent service

Note: Request Identification includes naming the actors *if possible* (i.e. calling Ascent Service Name, called Partner/called Ascent Service Name), and a unique key identifying the unique instance of the request

**Exception Handling Requirements**

GIVEN a <consumer> calls an Ascent service

AND the called Ascent service (i.e. end point) receives the service request

WHEN the called Ascent service (i.e. end point) detects the request JSON Web Token has been tampered

THEN the Ascent service returns Status Code=401 Severity=ERROR, and Text = <**Text**>

GIVEN a <consumer> calls an Ascent service

AND the called Ascent service (i.e. end point) receives the service request

WHEN the called Ascent service (i.e. end point) detects the request JSON Web Token has an <Error>

THEN the Ascent service returns Status Code=401 Severity=ERROR, and Text = <Text>

AND the called Ascent service (i.e. end point) saves an audit record for the request from the <consumer> to the called Ascent service with the following information:

- Request Identification

- Request Date

- Request Time

- Request Details

AND the called Ascent service saves an audit record for the response from the called Ascent service to the <consumer> with the following information:

- Request Identification

- Response Date

- Response Time

- Response Details

|  |  |  |
| --- | --- | --- |
| **Consumer** | **Error** | **Text** |
| External consumer | Is expired | **TBD** |
| External consumer | Is invalid | **TBD** |
| Ascent service | Is expired | **TBD** |
| Ascent service | Is invalid | **TBD** |

GIVEN a <consumer> calls an Ascent service

AND the called Ascent service (i.e. end point) receives the service request

WHEN the called Ascent service (i.e. end point) detects a request Correlation ID has a certain <Condition>

THEN the called Ascent service does not return an error response

AND the called Ascent service does not capture an audit record

AND the request is processed normally

|  |  |
| --- | --- |
| **Consumer** | **Condition** |
| External consumer | Is missing |
| External consumer | Status is not Temporary, Active or Permanent |
| Ascent service | Is missing |
| Ascent service | Status is not Temporary, Active or Permanent |

**Data Retention Requirements**

GIVEN a service audit record has been stored

WHEN the service audit record is >= 0 months old

AND the service audit record is < 12 months old

THEN the service audit record is retained for immediate access

GIVEN a service audit record has been stored

WHEN the service audit record is >= 12 months old

AND the service audit record is < 36 months old

THEN the service audit record retained for access within 7 days

GIVEN a service audit record has been stored

WHEN the service audit record is >= 36 months old

AND the service audit record is < 60 months old

THEN the service audit record is retained for access within 30 days

GIVEN a service audit record has been stored

WHEN the service audit record is >= 60 months old

THEN the service audit record is deleted.

**Report Requirement**

The system shall provide access to reports to view summary and detailed information contained in service audit records.