# Retrieve Document Service Documentation

## 1. Service Description

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| Service Name | Description |
| Retrieve Document | This service allows applications to retrieve a document by GUID via API-C to AWS. The document is fetched from S3, and its metadata is retrieved from DynamoDB. |

## 2. Service Use Cases

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| Use Case | Description |
| Retrieve Existing Document | An existing document is retrieved using its GUID. The document content is fetched from S3, and its metadata is retrieved from DynamoDB. |
| Failed Retrieval Handling | If retrieval fails, retry mechanisms are triggered. If retries fail, an error is logged for manual intervention. |

## 3. Service Request Catalog Path by Environment

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| Environment | Catalog Path |
| Development | /dev/documents/{guid} |
| Testing | /test/documents/{guid} |
| Staging | /staging/documents/{guid} |
| Production | /prod/documents/{guid} |

## 4. Order of Processing for "Retrieve" (Fetch Document by GUID)

1. 1. Application → Sends an HTTPS request to API-C (on-premises) with the document GUID.
2. 2. API-C (On-Premises) → Forwards the request via Direct Connect to AWS API Gateway.
3. 3. AWS API Gateway → Routes the request to the Retrieve Lambda function.
4. 4. AWS Lambda (Retrieve Service):
5. - Fetches metadata from DynamoDB using GUID.
6. - Retrieves the document from S3.
7. 5. Lambda → API Gateway → Returns document content & metadata.
8. 6. API Gateway → API-C → Sends the response back to API-C.
9. 7. API-C → Application → Application receives document content & metadata.