

**SWIFT**UPLOAD INTERFACE  
  
  
WEB-SERVICE SUBMISSION  
  
  
  
  
Version 0.1.3  
  
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Submitted by:   


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# VERSION HISTORY

|  |  |  |  |
| --- | --- | --- | --- |
| *Version* | *Date* | *Author* | *Description* |
| 0.1.0 | 6/30/16 | R. Patton | Initial Draft |
| 0.1.1 | 4/3/17 | R. Patton | Harmonized outputs with NIBRS Web Services Submission Working Group where possible |
| 0.1.2 | 4/20/17 | R. Patton | Added Must Generate Proxy with and Change Password Method |

# Introduction

This document is designed to assist law enforcement agencies to upload state crime data in an automated manner into the **SWIFT**REPOSITORY™ using **SWIFT**UPLOAD™ Web services.

# Service Overview

The **SWIFT**UPLOAD Web services has four exposed Web services:

* Upload
* Check Status
* Get EDS
* Change Password

The primary method is **Upload,** which uploads files into the **SWIFT**REPOSITORY system. The loading process is executed in an asynchronous manner so the requester needs to use **Check Status** to check the status of the upload in the system. After processing is complete, the agencies can access the EDS file using **Get EDS**. Finally, the agency can reset the password that it logs in with using the **Change Password** method.

## Purpose

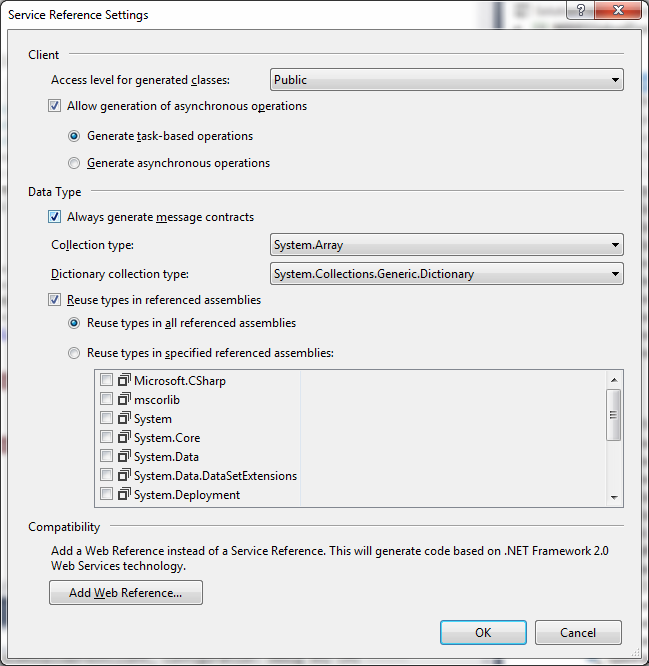
The purpose of this service is to foster machine-to-machine communication for the complex, multi-stage, round-trip business process of submissions.

## Scope

The scope of this service currently matches the functionality of the manual upload GUI within the **SWIFT** Repository.

## Proxy Generation in .NEt

NOTE: The Web service was built using WCF (Windows Communication Foundation) message contracts and developers should click “Always Generate Message Contracts” under advanced when creating service references in .NET.



# Service Model

This section describes the specifications and schemas that define the technical implementation of the services described above. It outlines the specific inputs, outputs and behaviors of each of the actions that correspond to the capabilities listed above. The Service Model is composed of an Information Model and a Behavior Model. Each is described in the following subsections.

## Information Model

The information model is described by the WSDL (Web Service Definition Language) for the services.

### Data Inputs

All inputs are wrapped in SOAP (Simple Object Access Protocol) envelopes and the SOAP header contains an object called SwiftUploadCredentials of type Credentials that has two parameters: UserName and Password. Authorization occurs with each connection. All connections must be made through SSL (Secure Socket Layer) to ensure the privacy of the credentials.

|  |  |  |
| --- | --- | --- |
| Credentials | | |
| Description | |  |
| *Access Credentials in the SOAP Header.*  *NOTE: Because of the inclusion of username and password, the method must be executed in SSL to provide privacy.* | | |
| Field | Type | Description |
| *UserName* | *string* | *A valid user’s login within the* ***SWIFT****Repository System* |
| *Password* | *string* | *A valid user’s password for the login provided within the* ***SWIFT****Repository System* |

All non-credential inputs are wrapped into an object named after the method and appended with the suffix “Request.” For instance, the CheckStatus method would have CheckStatusRequest node/object that would contain all the information that is not part of the credentials. There are four request objects:

* UploadRequest
* CheckStatusRequest
* GetEDSRequest
* ChangePasswordRequest

#### UploadRequest

|  |  |  |
| --- | --- | --- |
| UploadRequest | | |
| Description | |  |
| *The Upload method has one parameter, UploadRequest, designed to facilitate the upload of the fileData.*  *NOTE: If the credentials have more than one Agency associated with them the file will be associated with the credentials’ default agency.* | | |
| Field | Type | Description |
| *fileName* | *string* | *The name of the file uploaded from the user system. Any Windows file name is valid, the system will assign its file name during processing, and this is strictly for the agencies’ bookkeeping.* |
| *fileData* | *Array of Byte* | *The actual file being uploaded into the system.* |

**Sample UploadRequest**

|  |
| --- |
| <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">  <s:Header>  <Action s:mustUnderstand="1" xmlns="http://schemas.microsoft.com/ws/2005/05/addressing/none">http://www.otech.com/SwiftRepository/SwiftUpload/SwiftUpload/Upload</Action>  <h:SwiftUploadCredentials xmlns="http://www.otech.com/SwiftRepository/SwiftUpload" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:h="http://www.otech.com/SwiftRepository/SwiftUpload">  <UserName>KnockKnock99!!</UserName>  <Password>Optimum.Submitter.1</Password>  </h:SwiftUploadCredentials>  </s:Header>  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">  <UploadRequest xmlns="http://www.otech.com/SwiftRepository/SwiftUpload">  <FileName>OHA000000Jan2017.txt</FileName>  <File />  </UploadRequest>  </s:Body>  </s:Envelope> |
|  |

#### CheckStatusRequest

|  |  |  |
| --- | --- | --- |
| CheckStatusRequest | | |
| Description | |  |
| *The CheckStatus method has one parameter (CheckStatusRequest) used to check on the status of a previously uploaded file that the provided credentials have access to.* | | |
| Field | Type | Description |
| *SubmissionID* | *string* | *An ID to a file that the login and password has access to within the* ***SWIFT****REPOSITORY System* |

**Sample CheckStatusRequest**

|  |
| --- |
| <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">  <s:Header>  <Action s:mustUnderstand="1" xmlns="http://schemas.microsoft.com/ws/2005/05/addressing/none">http://www.otech.com/SwiftRepository/SwiftUpload/SwiftUpload/CheckStatus</Action>  <h:SwiftUploadCredentials xmlns="http://www.otech.com/SwiftRepository/SwiftUpload" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:h="http://www.otech.com/SwiftRepository/SwiftUpload">  <UserName>KnockKnock99!!</UserName>  <Password>Optimum.Submitter.1</Password>  </h:SwiftUploadCredentials>  </s:Header>  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">  <CheckStatusRequest xmlns="http://www.otech.com/SwiftRepository/SwiftUpload">  <SubmissionID>13245</SubmissionID>  </CheckStatusRequest>  </s:Body>  </s:Envelope> |

#### GetEDSRequest

|  |  |  |
| --- | --- | --- |
| GetEDSRequest | | |
| Description | |  |
| *The GetEDS method has one parameter (GetEDSRequest) to access the EDS file of a previously uploaded file that the provided credentials have access to.* | | |
| Field | Type | Description |
| *submissionID* | *string* | *An ID to a file that the login and password have access to within the* ***SWIFT****REPOSITORY System* |

**Sample GetEDSRequest**

|  |
| --- |
| <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">  <s:Header>  <Action s:mustUnderstand="1" xmlns="http://schemas.microsoft.com/ws/2005/05/addressing/none">http://www.otech.com/SwiftRepository/SwiftUpload/SwiftUpload/GetEDS</Action>  <h:SwiftUploadCredentials xmlns="http://www.otech.com/SwiftRepository/SwiftUpload" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:h="http://www.otech.com/SwiftRepository/SwiftUpload">  <Password>Optimum.Submitter.1</Password>  <UserName>KnockKnock99!!</UserName>  </h:SwiftUploadCredentials>  </s:Header>  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">  <GetEDSRequest xmlns="http://www.otech.com/SwiftRepository/SwiftUpload">  <SubmissionID>123</SubmissionID>  </GetEDSRequest>  </s:Body>  </s:Envelope> |

#### ChangePasswordRequest

|  |  |  |
| --- | --- | --- |
| ChangePasswordRequest | | |
| Description | |  |
| *The ChangePassword method has one parameter, ChangePasswordRequest, that changes the password for the provided credentials to have access to.* | | |
| Field | Type | Description |
| *NewPassword* | *string* | *The new password must conform to the configured password rules.* |

**Sample ChangePasswordRequest**

|  |
| --- |
| <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">  <s:Header>  <Action s:mustUnderstand="1" xmlns="http://schemas.microsoft.com/ws/2005/05/addressing/none">http://www.otech.com/SwiftRepository/SwiftUpload/SwiftUpload/ChangePassword</Action>  <h:SwiftUploadCredentials xmlns="http://www.otech.com/SwiftRepository/SwiftUpload" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:h="http://www.otech.com/SwiftRepository/SwiftUpload">  <Password>Optimum.Submitter.1</Password>  <UserName>KnockKnock99!!</UserName>  </h:SwiftUploadCredentials>  </s:Header>  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">  <ChangePasswordRequest xmlns="http://www.otech.com/SwiftRepository/SwiftUpload">  <NewPassword>WhosThere01##</NewPassword>  </ChangePasswordRequest>  </s:Body>  </s:Envelope> |

### Data Outputs

All outputs are wrapped in SOAP envelopes and contain two parameters: Operation Status ID and Operation Status Message. All inputs are wrapped into an object with the suffix “Response.” The Operation Status ID has four possible values:

* Success
* Access Denied
* Error
* Malformed Request

Success indicates that the operation was a success in that the credentials have correct permissions (both functional and data), did not encounter an error. and the request was not malformed. The Operation Status Message will be “Success.” Note: just because Success is returned, does not imply that the file has been processed and is error free. It implies that the file was successfully uploaded. The Check Status method provides information about the status of the file.

Access Denied indicates that the credentials did not have permissions in one of the following manners:

* The **SWIFT**UPLOAD Web services are not enabled
* The login was invalid
* The login was valid, but the account was locked
* The login did not have permissions to use the **SWIFT**UPLOAD Web service
* The login did not have permissions to access the agency that the file was uploaded to
* The login did not have the needed permission for the operation
* The login did not have permission to access this specific data.

The Operation Status Message includes more information that informs the requester about the specific reason why Access Denied was returned.

Error implies that there was an error caused in the operation. The Operation Status Message includes more information that may help troubleshoot the error. In addition, all errors are logged to the database.

Malformed Request implies that the request passed to the service was malformed in that a node/object or field was absent that is critical to processing the request. The Operation Status Message may include more information that may help troubleshoot the error.

**Sample Success**

|  |
| --- |
| <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">  <s:Header />  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">  <ChangePasswordResponse xmlns="http://www.otech.com/SwiftRepository/SwiftUpload">  <OperationStatusID>Success</OperationStatusID>  <OperationStatusMessage>SUCCESS</OperationStatusMessage>  </ChangePasswordResponse>  </s:Body>  </s:Envelope> |

**Sample Access Denied**

|  |
| --- |
| <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">  <s:Header />  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">  <ChangePasswordResponse xmlns="http://www.otech.com/SwiftRepository/SwiftUpload">  <OperationStatusID>AccessDenied</OperationStatusID>  <OperationStatusMessage>The credentials provided do not have permission to use the SwiftUpload Service. If this is in error, ask an adminstrator to assign this account a role that has the Swift Upload Web Sevice system function.</OperationStatusMessage>  </ChangePasswordResponse>  </s:Body>  </s:Envelope> |

**Sample Error**

|  |
| --- |
| <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">  <s:Header />  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">  <UploadResponse xmlns="http://www.otech.com/SwiftRepository/SwiftUpload">  <OperationStatusID>Error</OperationStatusID>  <OperationStatusMessage>Unable to finished migrating the data.</OperationStatusMessage>  </UploadResponse>  </s:Body>  </s:Envelope> |

**Sample Malformed Request**

|  |
| --- |
| <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">  <s:Header />  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">  <ChangePasswordResponse xmlns="http://www.otech.com/SwiftRepository/SwiftUpload">  <OperationStatusID>MalformedRequest</OperationStatusID>  <OperationStatusMessage>The request was malformed, please make sure that all the pieces of infomation are included.</OperationStatusMessage>  </ChangePasswordResponse>  </s:Body>  </s:Envelope> |

#### UploadResponse



|  |  |  |
| --- | --- | --- |
| UploadResponse | | |
| Description | |  |
| *UploadResponse is the response from the Upload Web service.*  *The requester has a file by invoking the SubmitRecords Web service method to theSWIFTREPOSITORY; the Web method returns an UploadResponse for the operation to describe the operations status and to return a SubmissionID that the requester can use to query the status of the upload as it proceeds through the SWIFTREPOSITORY.* | | |
| Field | Type | Description |
| *OperationStatusID* | *OperationStatus Enumeration* | *An enumeration that indicates the result of the operation method. The values of this status are:*   * *Success* * *Error* * *AccessDenied* * *MalformedRequest* |
| *OperationStatusMessage* | *String* | *A message that can be returned in conjunction with the OperationStatusID; typically used to inform the requester additional information when the OperationStatusID is Error or AccessDenied* |
| *SubmissionID* | *String* | *The unique identifier for the Submission within the* ***SWIFT****REPOSITORY* |

**Sample UploadResponse Success**

|  |
| --- |
| <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">  <s:Header />  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">  <UploadResponse xmlns="http://www.otech.com/SwiftRepository/SwiftUpload">  <OperationStatusID>Success</OperationStatusID>  <OperationStatusMessage>Success</OperationStatusMessage>  <SubmissionID>1492</SubmissionID>  </UploadResponse>  </s:Body>  </s:Envelope> |

#### CheckStatusResponse



|  |  |  |  |
| --- | --- | --- | --- |
| CheckStatusResponse | | | |
| Description | | |  |
| *CheckStatusResponse is the response from the CheckStatus Web service.*  *The requester has previously submitted data to the SWIFTREPOSITORY and now invokes the CheckStatusResponse Web service method to the SWIFTREPOSITORY to acquire the status of the upload within the process.* | | | |
| Field | | Type | Description |
| *OperationStatusID* | *OperationStatus Enumeration* | | *An enumeration that indicates the result of the operation method. The values of this status are:*   * *Success* * *Error* * *AccessDenied* * *MalformedRequest* |
| *OperationStatusMessage* | *String* | | *A message that can be returned in conjunction with the OperationStatusID; typically used to inform the requester additional information when the OperationStatusID is Error or AccessDenied* |
| *FileStatusID* | *ImportFileStatus Enumeration* | | *An enumeration that indicates status of the upload in the****SWIFT****REPOSITORY. The values of this status are:*   * *Unknown* * *Initial* * *InitialComplete* * ***InitialError*** * ***InitialCanceled*** * *InitialResumed* * *ReadyForProcessing* * *Processing* * ***ProcessingComplete*** * ***ProcessingError*** * ***ProcessingCanceled*** * *ProcessingResumed* * *LoadingIntoDatabase* * *LoadingIntoDatabaseComplete* * ***LoadingIntoDatabaseError*** * ***LoadingIntoDatabaseCanceled*** * *LoadingIntoDatabaseResumed* * *Validating* * *ValidatingComplete* * ***ValidatingError*** * ***ValidatingCanceled*** * ***ValidatingCanceledDuplicate*** * *ValidatingResumed* * *WriteEDSFile* * *WriteEDSFileComplete* * ***WriteEDSFileError*** * ***WriteEDSFileCanceled*** * *WriteEDSFileResumed* * *MigratingToTables* * *MigratingToTablesComplete* * ***MigratingToTablesError*** * ***MigratingToTablesCanceled*** * *MigratingToTablesResumed* * *Reporting* * *ReportingComplete* * ***ReportingError*** * ***ReportingCanceled*** * *ReportingResumed* * *Finishing* * *FinishingComplete* * ***FinishingError*** * ***FinishingCanceled*** * *FinishingResumed* * *QueuedInWindowsService*   **All bolded statii are terminal and include all the Cancelled and Error Statii. The completed successfully status is *ProcessingComplete*** |
| FileStatusDescription | *String* | | *Ancillary descriptive information to provide greater detail about the current status of the file within the system. If the status is ProcessingComplete, the* ***FileStatusDescription*** *will be “Complete”* |
| FileType | *String* | | *The type of file that has been uploaded* |
| CurrentFileName | *String* | | *The name of the file within the system* |
| OriginalFileName | *String* | | *The name of the file when it was uploaded* |
| UnValidatedLinesOrNodes | *Integer* | | *The number of lines/nodes that have not been validated yet* |
| ValidLinesOrNodes | *Integer* | | *The number of lines/nodes that have not been validated and determined to have been valid* |
| InValidLinesOrNodes | *Integer* | | *The number of lines/nodes that have not been validated and determined to have been invalid* |
| ValidButUnMigratedLinesOrNodes | *Integer* | | *The number of lines/nodes that are valid, but have not been migrated to the database yet* |
| MigratedLinesOrNodes | *Integer* | | *The number of lines/nodes that have been migrated to the database* |
| ErrorsInMigrationLinesOrNodes | *Integer* | | *The number of lines/nodes that have not been migrated to the database due to an error(s)* |

**Sample CheckStatusResponse Success**

|  |
| --- |
| <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">  <s:Header />  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">  <CheckStatusResponse xmlns="http://www.otech.com/SwiftRepository/SwiftUpload">  <OperationStatusID>Success</OperationStatusID>  <OperationStatusMessage>Success</OperationStatusMessage>  <FileStatusID>ProcessingComplete</FileStatusID>  <FileStatusDescription>Complete</FileStatusDescription>  <UnValidatedLinesOrNodes>0</UnValidatedLinesOrNodes>  <ValidLinesOrNodes>824</ValidLinesOrNodes>  <InValidLinesOrNodes>13</InValidLinesOrNodes>  <ValidButUnMigratedLinesOrNodes>0</ValidButUnMigratedLinesOrNodes>  <MigratedLinesOrNodes>824</MigratedLinesOrNodes>  <ErrorsInMigrationLinesOrNodes>0</ErrorsInMigrationLinesOrNodes>  <FileType>NIBRS Flat File</FileType>  <CurrentFileName>9bb84866-c9b7-4e08-8acf-b7baf06272ef</CurrentFileName>  <OriginalFileName>V3 Happy Path OHA000000 January 2017 incidents.txt</OriginalFileName>  </CheckStatusResponse>  </s:Body> |

#### GetEDSREsponse



|  |  |  |
| --- | --- | --- |
| GetEDSResponse | | |
| Description | |  |
| *GetEDSResponse is the response from the GetEDS Web service.*  *The requester has previously submitted data to the SWIFTREPOSITORY and has verified that the file has completed processing, and now invokes the GetEDS Web service method to the SWIFTREPOSITORY to acquire the EDS file for the submitted file.* | | |
| Field | Type | Description |
| *OperationStatusID* | *OperationStatus Enumeration* | *An enumeration that indicates the result of the operation method. The values of this status are:*   * *Success* * *Error* * *AccessDenied* * *MalformedRequest* |
| *OperationStatusMessage* | *String* | *A message that can be returned in conjunction with the OperationStatusID; typically used to inform the requester additional information when the OperationStatusID is Error or AccessDenied* |
| *EDSFile* | *Array of Byte* | *The EDS file that represents the errors in the uploaded file for the given SubmissionID.* |

**Sample GetEDSResponse Success**

|  |
| --- |
| <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">  <s:Header />  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">  <GetEDSResponse xmlns="http://www.otech.com/SwiftRepository/SwiftUpload">  <OperationStatusID>Success</OperationStatusID>  <OperationStatusMessage>Success</OperationStatusMessage>  <EDSFile></EDSFile>  </GetEDSResponse>  </s:Body>  </s:Envelope> |

**Sample GetEDSResponse Access Denied**

|  |
| --- |
| <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">  <s:Header />  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">  <GetEDSResponse xmlns="http://www.otech.com/SwiftRepository/SwiftUpload">  <OperationStatusID>AccessDenied</OperationStatusID>  <OperationStatusMessage>Access Denied - The credentials provided do not have access to the agency that uploaded/owns the file.</OperationStatusMessage>  </GetEDSResponse>  </s:Body>  </s:Envelope> |

#### ChangePasswordResponse



|  |  |  |
| --- | --- | --- |
| ChangePasswordResponse | | |
| Description | |  |
| *ChangePasswordResponse is the response from the Change Password Web service* | | |
| Field | Type | Description |
| *OperationStatusID* | *OperationStatus Enumeration* | *An enumeration that indicates the result of the operation method. The values of this status are:*   * *Success* * *Error* * *AccessDenied* * *MalformedRequest* |
| *OperationStatusMessage* | *String* | *A message that can be returned in conjunction with the OperationStatusID; typically used to inform the requester additional information when the OperationStatusID is Error or AccessDenied* |

**Sample ChangePasswordResponse Success**

|  |
| --- |
| <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">  <s:Header />  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">  <ChangePasswordResponse xmlns="http://www.otech.com/SwiftRepository/SwiftUpload">  <OperationStatusID>Success</OperationStatusID>  <OperationStatusMessage>SUCCESS</OperationStatusMessage>  </ChangePasswordResponse>  </s:Body>  </s:Envelope> |

**Sample ChangePasswordResponse Error**

|  |
| --- |
| <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">  <s:Header />  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">  <ChangePasswordResponse xmlns="http://www.otech.com/SwiftRepository/SwiftUpload">  <OperationStatusID>Error</OperationStatusID>  <OperationStatusMessage>The system was unable to reset your password, please review your entries and try once more. The password must be at least 8 characters long.The password requires at least 2 numeric characters; this only had none.The password requires at least 2 characters that are upper case letters; this only had 1.The password requires at least 2 characters that are symbols; this only had none.</OperationStatusMessage>  </ChangePasswordResponse>  </s:Body>  </s:Envelope> |

## Behavior Model

This section details the service actions that can be called to provide the capabilities and produce the real-world effects described above. Together, the Action Model and the Process Model give a complete picture of the intended behaviors.

### Action Model

As described in Section 3, the Upload Services include four Actions, or operations that are available to the service provider:

* Upload
* CheckStatus
* GetEDS
* ResetPassword

#### Upload

|  |  |
| --- | --- |
| Action Name | *Upload* |
| Action Purpose | |
| *The requester submits a file to the SWIFTREPOSITORY.*  *The Use Case is:*   * *Submitting data to the SWIFTREPOSITORY*   *NOTE: Because of the inclusion of username and password, the method must be executed in SSL to provide privacy.* | |
| Action Inputs | Action Outputs |
| *The requester submits a valid submission accepted by the SWIFTREPOSITORY along with valid credentials that have access to upload a file to SWIFTREPOSITORY.* | *Requester receives an UploadResponse SubmissionID used to reference this upload and an OperationStatusID and OperationStatusMessage describing the outcome of the interaction.* |
| Action Provenance | |
| *Incident-report provider* | |

#### CheckStatus

|  |  |
| --- | --- |
| Action Name | *CheckStatus* |
| Action Purpose | |
| *The requester queries the status on status of a submission by SubmissionID.*  *The Use Cases are:*   * *Checking on the status of a submission to the SWIFTREPOSITORY (SWIFTREPOSITORY will process the files asynchronously) using the SubmissionID for a file which the provided credentials have access to.*   *NOTE: Because of the inclusion of username and password, the method must be executed in SSL to provide privacy.* | |
| Action Inputs | Action Outputs |
| *The requester submits a SubmissionID which was acquired from interaction with the Upload web services and valid credentials for that file.* | *Requester receives a CheckStatusResponse* *including an OperationStatusID and OperationStatusMessage describing the outcome of the interaction. If the interaction was Successful, the SubmitRecordsResult will include* *FileStatusID of ProcessingComplete* |
| Action Provenance | |
| *Incident-report provider* | |

#### GetEDS

|  |  |
| --- | --- |
| *Action Name* | *GetEDS* |
| Action Purpose | |
| *The requester obtains the EDS file for a submission by SubmissionID.*  *The Use Cases are:*  *Obtaining the EDS file to the SWIFTREPOSITORY (SWIFTREPOSITORY will process the files asynchronously) using the SubmissionID for a file which the provided credentials have access to.*  *NOTE: Because of the inclusion of username and password, the method must be executed in SSL to provide privacy.* | |
| Action Inputs | Action Outputs |
| *The requester submits a SubmissionID which was acquired from interaction with the Upload Web services and valid credentials for that file.* | *Requester r receives a GetEDSResponse including an OperationStatusID and OperationStatusMessage describing the outcome of the interaction. If the interaction was Successful, an EDS File as specified by the FBI’s technical specifications will be returned as an array of byte.* |
| Action Provenance | |
| *Incident-report provider* | |

#### ChangePassword

|  |  |
| --- | --- |
| *Action Name* | *GetEDS* |
| Action Purpose | |
| *The invoker resets the password for a set of credentials* | |
| Action Inputs | Action Outputs |
| *The requester submits a NewPassword to set for a valid set of credentials* | *Requester receives a ChangePasswordResult including an OperationStatusID and OperationStatusMessage describing the outcome of the interaction. If the interaction was Successful, the password will be updated.* |
| Action Provenance | |
| *Incident-report provider* | |