GFI FaxMaker Online Inbound Web Services

V.1.0

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This is the first edition of this publication.

Version
This document describes the GFI FaxMaker Online Application Developer Interface for inbound web **services.**

Contents

Introduction

This document describes the GFI FaxMaker Online Application Developer Interface for inbound web services.

Overview

With GFI FaxMaker Online Developer Inbound API, developers can use GFI's fax services by developing applications to interact with our new inbound web services. Developers can now choose from a wide variety of platforms to develop their applications.

Our web services are secure since they require transport layer encryption (HTTPS). Note that HTTPS is required.

Getting Started

Before you start developing applications using the GFI FaxMaker Online Developer Inbound API you will need the following –

Internet Access

GFI FaxMaker Online inbound web services require HTTPS access through port 443. The URL for the web service is –

https://iws.gfifax.com/inboundws/v1/inboundws.asmx

Development Tools

A development environment that supports web services is required.

GFI FaxMaker Online Account

An account (with inbound services capability) from GFI is required to use the inbound web services.

API Reference - Core Interface Methods

This section describes the core interface methods.

1.0 GetInboundItemList

Description

Use this method to retrieve the list of received Items. (Item identifiers) You must have Inbound Services enabled on your account for this to work.

Syntax

GetInboundItemListResponse GetInboundItemList(Authentication authentication, GetInboundItemListRequest request)

Parameters

authentication	Authentication	Authentication credentials (User id and PIN)
request	GetInboundItemListRequest	Request object.
response	GetInboundItemListResponse	Response Object (output)

Remarks

- GetInboundItemList should not be called for more than once every 5 minutes.

- The Item identifiers returned by this method can be used in 'GetInboundItemsByID' to retrieve the Items.

- See **Appendix C** for Soap 1.1 Request and Response examples

- See **Appendix A** for definition of complex data types.

2.0 GetInboundItemsByID

Description

Use this method to retrieve Items based on a list of Item IDs. You must have Inbound Services enabled on your account for this to work. You can use this method to retrieve multiple Items.

Syntax

GetInboundItemsByIDResponse GetInboundItemsByID(Authentication authentication, GetInboundItemsByIDRequest request)

Parameters

authentication	Authentication	Authentication credentials (User id and PIN)
request	GetInboundItemsByIDRequest	Request Object
response	GetInboundItemsByIDResponse	Response Object (output)

Remarks

- GetInboundItemsByID retrieves the Item based on the item ids specified.

- User will be able to download only items which he has access to.

- This items will not be deleted from the server after a call to this method. To delete 'RemoveInboundItemsByID' should be called.

- See **Appendix C** for Soap 1.1 Request and Response examples

- See **Appendix A** for definition of complex data types.

3.0 RemoveInboundItemsByID

Description

Use this method to remove Items from the server based on a list of Item IDs. You must have Inbound Services enabled on your account for this to work. This method can be used to remove multiple Items.

Syntax

RemoveInboundItemsByIDResponse RemoveInboundItemsByID(Authentication authentication, RemoveInboundItemsByIDRequest request)

Parameters

authentication	Authentication	Authentication credentials (User id and PIN)
request	RemoveInboundItemsByIDRequest	Request Object
response	GetInboundItemsByIDResponse	Response Object (Output)

Remarks

- RemoveInboundItemsByID removes the Items based on item IDs.

- User will be able to delete only items which he has access to.

- Calling this method will move the item to Archive folder, if DoNotArchive flag is not set. Otherwise the item will be deleted permanently.

- Archived items will be purged based on Account settings and System policy.

- Items will not be available on the system for download for more than 7 days.

- See **Appendix C** for Soap 1.1 Request and Response examples

- See **Appendix A** for definition of complex data types.

Appendix A – Core Interface Structures

1) Authentication

Authentication		
Name	**Type**	**Description**
UserId	String	Authentication user id
Password	String	Authentication PIN

2) WSError

InboundItemsRequest		
Name	**Type**	**Description**
ErrorCode	Int	Error code
ErrorDescription	String	Error description.

3) ItemSecurityRequest – Not Yet Implemented

SecurityRequest		
Name	**Type**	**Description**
DigitallySigned	Bool	Not used
EncryptedItem	Bool	Set to indicate if attachments should be encrypted. Only applicable to DIME attachments.
EncryptionType	String	Encryption type to use. "T" : "TrippleDES"
UseDIME	Bool	Set to indicate if attachments should be transmitted in DIME format (for future support)

4) ItemRequestSettings – Not Yet Implemented

ItemRequestSettings		
Name	Type	Description
DimeSettings	DIMESettings	Not used.
ItemSecurityMode	ItemSecurityRequest	Security settings for DIME documents. (For future use)

5) InboundItem

InboundItem		
Name	Type	Description
UserID	String	Customer Id of the received Item.
ItemDocument	InboundItemDocument	Inbound document containing the inbound data
DimeSettings	DIMESettings	Configuration of the DIME documents for received data. For future use.

6) InboundItemDocument

InboundDocument		
Name	Type	Description
BillingCode	String	Accounting code assigned to the inbound number.
CalledNumber	String	Number to which the Item was sent.
CallerNumber	String	Caller ID.
RemoteCSID	String	Sender CSID
MessageID	String	ID of the Item.
ReceivedTime	Datetime	Date and time the Item was received.
Speed	String	Speed
Duration	String	Duration of the transmission in seconds.
NumPages	String	Number of pages.

Status	String	status (Partial, success, etc)
ContentType	String	Content type (Fax,Voice)
ContentSubType	String	Content Sub Type (application/pdf, application/xps, image/tiff/tiffG4 etc)
Resolution	String	Document Resolution
FileName	String	File Name
FileData	String	Base64 encoded file data

7) GetInboundItemListRequest

GetInboundItemListRequest		
Name	**Type**	**Description**
MaxItems	Int	Maximum number of items to return. Setting a value of 0 will return the full list up to system configured limit.
Dnis	String	Optional Number. If specified, it will only return the Items to this number.
ArchivedItems	Bool	If set Items from archived folder will be returned.
StartDate	Date	Start Date
EndDate	Date	End Date

8) GetInboundItemListResponse

GetInboundItemListResponse		
Name	**Type**	**Description**
InboundItemIDs	string[]	Array of inbound Items IDs returned.
InboundItemCount	Int	Number of Items returned.
Success	Bool	Success/Failure flag
Messages	WSError[]	Error details

9) GetInboundItemsByIDRequest

GetInboundItemsListRequest		
Name	Type	Description
InboundItemIDs	String[]	List of Item IDs to retrieve the Items.
ItemReqSettings	ItemRequestSettings	Request settings. For future use with DIME attachments.

10) GetInboundItemsByIDResponse

GetInboundItemsByIDResponse		
Name	Type	Description
InboundItems	InboundItem[]	Array of inbound Items returned.
InboundItemCount	Int	Number of Items returned.
Success	Bool	Success/Failure
Messages	WSError[]	Error details if any.
FailureCount	Int	Failed operations count.
FailedItemIDs	String[]	Failed Item IDs

11) RemoveInboundItemsByIDRequest

RemoveInboundItemsByIDRequest		
Name	Type	Description
InboundItemIDs	String[]	List of Item IDs to retrieve the Items.
DoNotArchiveItems	Bool	Do not archive items. Setting a value 'true' will delete the items permanently.

12) RemoveInboundItemsByIDResponse

RemoveInboundItemsByIDResponse		
Name	Type	Description
FailedItemIDs	string[]	Array of failed item ids.
FailureCount	Int	Number of items failed.
Messages	WSError[]	Array of status strings.

Success	Bool	Success/Failure flag.

13) DimeSettings – Not Yet Implemented

DimeSettings		
Name	**Type**	**Description**
EncryptedItem	Bool	Set to true to indicate if the document itself is encrypted.
DimeSecretKeys	DIMESecretKey[]	Array of secret keys applied to each document.

14) DimeSecretKey – Not Yet Implemented

DimeSecretKey		
Name	**Type**	**Description**
InitVector	Byte[]	Initialization vector
InitKey	Byte[]	Key

Appendix B – Status Codes

Status Codes	
Status Id	Status Description
0	Success
101	System Error Has Occured
102	Bad Parameters
103	Invalid User
104	Business Layer Error
105	Null or empty parameter

Appendix C – Soap Examples

GetInboundItemList

Retreive list of Item IDs from the server based on the search criteria

SOAP 1.1

The following is a sample SOAP 1.1 request and response. The **placeholders** shown need to be replaced with actual values.

```
POST /inboundws/v1/inboundws.asmx HTTP/1.1
Host: iws.gfifax.com
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "https://iws.gfifax.com/InboundWS/GetInboundItemList"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetInboundItemList xmlns="InboundWS">
      <authentication>
        <UserId>string</UserId>
        <Password>string</Password>
      </authentication>
      <request>
        <MaxItems>int</MaxItems>
        <Dnis>string</Dnis>
        <ArchivedItems>boolean</ArchivedItems>
        <StartDate>dateTime</StartDate>
        <EndDate>dateTime</EndDate>
      </request>
    </GetInboundItemList>
  </soap:Body>
</soap:Envelope>
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetInboundItemListResponse xmlns="InboundWS">
      <GetInboundItemListResult>
        <InboundItemIDs>
          <string>string</string>
          <string>string</string>
        </InboundItemIDs>
        <InboundItemCount>int</InboundItemCount>
        <Success>boolean</Success>
        <Messages>
          <WSError>
            <ErrorCode>int</ErrorCode>
            <ErrorDescription>string</ErrorDescription>
          </WSError>
          <WSError>
            <ErrorCode>int</ErrorCode>
```

```
                <ErrorDescription>string</ErrorDescription>
            </WSError>
          </Messages>
        </GetInboundItemListResult>
      </GetInboundItemListResponse>
   </soap:Body>
</soap:Envelope>
```

SOAP 1.2

The following is a sample SOAP 1.2 request and response. The **placeholders** shown need to be replaced with actual values.

```
POST /inboundws/v1/inboundws.asmx HTTP/1.1
Host: iws.gfifax.com
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <GetInboundItemList xmlns="InboundWS">
      <authentication>
        <UserId>string</UserId>
        <Password>string</Password>
      </authentication>
      <request>
        <MaxItems>int</MaxItems>
        <Dnis>string</Dnis>
        <ArchivedItems>boolean</ArchivedItems>
        <StartDate>dateTime</StartDate>
        <EndDate>dateTime</EndDate>
      </request>
    </GetInboundItemList>
  </soap12:Body>
</soap12:Envelope>
HTTP/1.1 200 OK
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <GetInboundItemListResponse xmlns="InboundWS">
      <GetInboundItemListResult>
        <InboundItemIDs>
          <string>string</string>
          <string>string</string>
        </InboundItemIDs>
        <InboundItemCount>int</InboundItemCount>
        <Success>boolean</Success>
        <Messages>
          <WSError>
            <ErrorCode>int</ErrorCode>
            <ErrorDescription>string</ErrorDescription>
          </WSError>
          <WSError>
```

```
            <ErrorCode>int</ErrorCode>
            <ErrorDescription>string</ErrorDescription>
          </WSError>
        </Messages>
      </GetInboundItemListResult>
    </GetInboundItemListResponse>
  </soap12:Body>
</soap12:Envelope>
```

GetInboundItemsByID

Retreive faxes from the server based on supplied ItemIDs

SOAP 1.1

The following is a sample SOAP 1.1 request and response. The **placeholders** shown need to be replaced with actual values.

```
POST /inboundws/v1/inboundws.asmx HTTP/1.1
Host: iws.gfifax.com
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "https://iws.gfifax.com/InboundWS/GetInboundItemsByID"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetInboundItemsByID xmlns="InboundWS">
      <authentication>
        <UserId>string</UserId>
        <Password>string</Password>
      </authentication>
      <request>
        <InboundItemIDs>
          <string>string</string>
          <string>string</string>
        </InboundItemIDs>
        <ReqSettings>
          <DimeSettings>
            <EncryptedItem>boolean</EncryptedItem>
            <ItemSecretKeys xsi:nil="true" />
          </DimeSettings>
          <ItemSecurityMode>
            <Chunked>boolean</Chunked>
            <DigitallySigned>boolean</DigitallySigned>
            <Ecrypted>boolean</Ecrypted>
            <EncryptionType>string</EncryptionType>
            <UseDIME>boolean</UseDIME>
          </ItemSecurityMode>
        </ReqSettings>
      </request>
    </GetInboundItemsByID>
  </soap:Body>
</soap:Envelope>
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetInboundItemsByIDResponse xmlns="InboundWS">
      <GetInboundItemsByIDResult>
        <InboundItems>
          <InboundItem>
```

```
            <UserID>string</UserID>
            <Document xsi:nil="true" />
            <DimeSettings xsi:nil="true" />
          </InboundItem>
          <InboundItem>
            <UserID>string</UserID>
            <Document xsi:nil="true" />
            <DimeSettings xsi:nil="true" />
          </InboundItem>
        </InboundItems>
        <InboundItemCount>int</InboundItemCount>
        <Success>boolean</Success>
        <Messages>
          <WSError>
            <ErrorCode>int</ErrorCode>
            <ErrorDescription>string</ErrorDescription>
          </WSError>
          <WSError>
            <ErrorCode>int</ErrorCode>
            <ErrorDescription>string</ErrorDescription>
          </WSError>
        </Messages>
        <FailureCount>int</FailureCount>
        <FailedItemIDs>
          <string>string</string>
          <string>string</string>
        </FailedItemIDs>
      </GetInboundItemsByIDResult>
    </GetInboundItemsByIDResponse>
  </soap:Body>
</soap:Envelope>
```

SOAP 1.2

The following is a sample SOAP 1.2 request and response. The **placeholders** shown need to be replaced with actual values.

```
POST /inboundws/v1/inboundws.asmx HTTP/1.1
Host: iws.gfifax.com
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <GetInboundItemsByID xmlns="InboundWS">
      <authentication>
        <UserId>string</UserId>
        <Password>string</Password>
      </authentication>
      <request>
        <InboundItemIDs>
          <string>string</string>
          <string>string</string>
        </InboundItemIDs>
        <ReqSettings>
          <DimeSettings>
            <EncryptedItem>boolean</EncryptedItem>
            <ItemSecretKeys xsi:nil="true" />
```

```
            </DimeSettings>
            <ItemSecurityMode>
              <Chunked>boolean</Chunked>
              <DigitallySigned>boolean</DigitallySigned>
              <Ecrypted>boolean</Ecrypted>
              <EncryptionType>string</EncryptionType>
              <UseDIME>boolean</UseDIME>
            </ItemSecurityMode>
          </ReqSettings>
        </request>
    </GetInboundItemsByID>
  </soap12:Body>
</soap12:Envelope>
HTTP/1.1 200 OK
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <GetInboundItemsByIDResponse xmlns="InboundWS">
      <GetInboundItemsByIDResult>
        <InboundItems>
          <InboundItem>
            <UserID>string</UserID>
            <Document xsi:nil="true" />
            <DimeSettings xsi:nil="true" />
          </InboundItem>
          <InboundItem>
            <UserID>string</UserID>
            <Document xsi:nil="true" />
            <DimeSettings xsi:nil="true" />
          </InboundItem>
        </InboundItems>
        <InboundItemCount>int</InboundItemCount>
        <Success>boolean</Success>
        <Messages>
          <WSError>
            <ErrorCode>int</ErrorCode>
            <ErrorDescription>string</ErrorDescription>
          </WSError>
          <WSError>
            <ErrorCode>int</ErrorCode>
            <ErrorDescription>string</ErrorDescription>
          </WSError>
        </Messages>
        <FailureCount>int</FailureCount>
        <FailedItemIDs>
          <string>string</string>
          <string>string</string>
        </FailedItemIDs>
      </GetInboundItemsByIDResult>
    </GetInboundItemsByIDResponse>
  </soap12:Body>
</soap12:Envelope>
```

RemoveInboundItemsByID

Removes Items from the server based on supplied ItemIDs

SOAP 1.1

The following is a sample SOAP 1.1 request and response. The **placeholders** shown need to be replaced with actual values.

```
POST /inboundws/v1/inboundws.asmx HTTP/1.1
Host: iws.gfifax.com
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "https://iws.gfifax.com/InboundWS/RemoveInboundItemsByID"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <RemoveInboundItemsByID xmlns="InboundWS">
      <authentication>
        <UserId>string</UserId>
        <Password>string</Password>
      </authentication>
      <request>
        <DoNotArchiveItems>boolean</DoNotArchiveItems>
        <InboundItemIDs>
          <string>string</string>
          <string>string</string>
        </InboundItemIDs>
      </request>
    </RemoveInboundItemsByID>
  </soap:Body>
</soap:Envelope>
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <RemoveInboundItemsByIDResponse xmlns="InboundWS">
      <RemoveInboundItemsByIDResult>
        <FailedItemIDs>
          <string>string</string>
          <string>string</string>
        </FailedItemIDs>
        <FailureCount>int</FailureCount>
        <Success>boolean</Success>
        <Messages>
          <WSError>
            <ErrorCode>int</ErrorCode>
            <ErrorDescription>string</ErrorDescription>
          </WSError>
          <WSError>
            <ErrorCode>int</ErrorCode>
            <ErrorDescription>string</ErrorDescription>
```

```
            </WSError>
        </Messages>
      </RemoveInboundItemsByIDResult>
    </RemoveInboundItemsByIDResponse>
  </soap:Body>
</soap:Envelope>
```

SOAP 1.2

The following is a sample SOAP 1.2 request and response. The **placeholders** shown need to be replaced with actual values.

```
POST /inboundws/v1/inboundws.asmx HTTP/1.1
Host: iws.gfifax.com
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <RemoveInboundItemsByID xmlns="InboundWS">
      <authentication>
        <UserId>string</UserId>
        <Password>string</Password>
      </authentication>
      <request>
        <DoNotArchiveItems>boolean</DoNotArchiveItems>
        <InboundItemIDs>
          <string>string</string>
          <string>string</string>
        </InboundItemIDs>
      </request>
    </RemoveInboundItemsByID>
  </soap12:Body>
</soap12:Envelope>
HTTP/1.1 200 OK
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap12:Body>
    <RemoveInboundItemsByIDResponse xmlns="InboundWS">
      <RemoveInboundItemsByIDResult>
        <FailedItemIDs>
          <string>string</string>
          <string>string</string>
        </FailedItemIDs>
        <FailureCount>int</FailureCount>
        <Success>boolean</Success>
        <Messages>
          <WSError>
            <ErrorCode>int</ErrorCode>
            <ErrorDescription>string</ErrorDescription>
          </WSError>
          <WSError>
            <ErrorCode>int</ErrorCode>
```

```
            <ErrorDescription>string</ErrorDescription>
          </WSError>
        </Messages>
      </RemoveInboundItemsByIDResult>
    </RemoveInboundItemsByIDResponse>
  </soap12:Body>
</soap12:Envelope>
```

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