

# TAQ01 V1.0.0 - Backend API Specification

## 1.Document Change Control

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**Project Code:** TAQ01

**Interface Type:** Web Service

**Interface Name:** ReceiveTaricFile

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**Date:** 21.08.2018

**MDG Specification Version:** V0.1

**MDG Specification Status:** **Draft**

**Referred QAM Specification:** CDS128 Quota Allocation - System Design Document.docx

**SDD:** Tariff and Quota Solution Design Document v2.0.pdf

**SDD Crossreference/Feature:** DIT file integration (SDD v2.0 data flow 1, 2 and 3)

### 1.1 Version Control

MDG Specification Version	Change	Updated by	Updated Date
0.1	Initial Creation	Vish	21-Aug-2018

## 2. QAM API Properties

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Property	Value
Service	InboundCommService
Operation	uploadFile
Protocol	https
Response Caching	Disabled
Throttling	Unlimited
Version	1.0.0

**Consumes:** "text/xml"

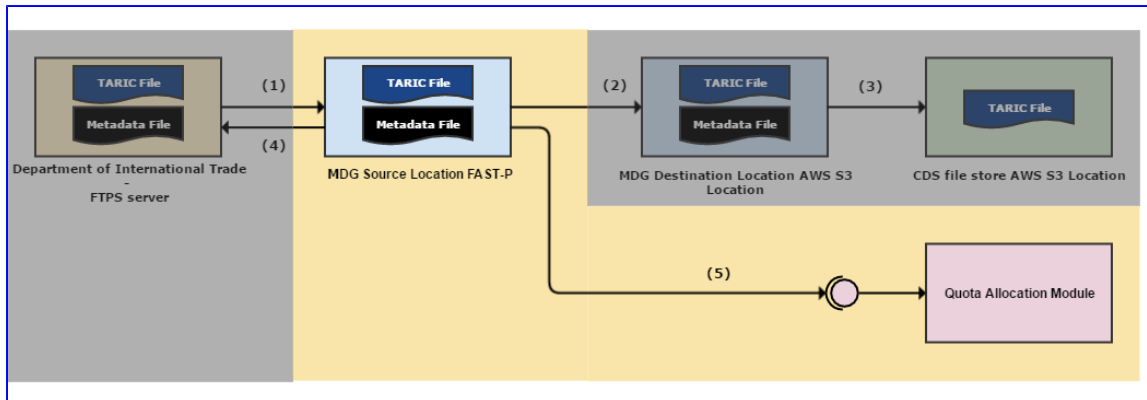
**Produces:** "text/xml"

**Parameters:** All parameters will be ignored

## 3. Objective

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The objective of this interface is to transfer the TARIC file from DIT to Quota Allocation Module. Step 5 in the below block diagram depicts the synchronous HTTPS call to QAM, where TARIC3 file will be sent as a payload in the request.



## 4. Scope

### 4.1 In Scope

1. Pull file from DIT FTP server
2. PUT file to CDS file store AWS S3 bucket
3. Send the TARIC3 file as a payload in a SOAP call to QAM
4. Only Taric XML file is in scope

### 4.2 Out of Scope

1. Guaranteed delivery
2. Tariff response will not be sent to DIT

## 5. Risks, Assumptions, Issues, Dependencies and Decisions

### 5.1 Risks

1. If the design changes in the future (i.e. QAM service operation change etc) then there is a potential risk of MDG rework.  
*Mitigation:* All teams must review MDG API spec and provide confirmation/feedback.

### 5.2 Assumptions

1. It is assumed that the QAM service operation `InboundcommService.uploadFile` will be used to upload the taric file on to QAM.

### 5.3 Issues

None Identified

### 5.4 Dependencies

1. Approved SDD
2. QAM and DIT team to review the SDD and MDG API spec

### 5.5 Decisions

NA

## 6. Validation Requirements

1. MDG to validate the request prior sending to QAM

## 7. Security Requirements

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1. MDG SOAP call will be a HTTPs call
2. MDG will include WS-Security elements in the requests sent to QAM

## 8. Non-functional Requirements

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None Identified

## 9. Return Codes

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HTTP Status Code	Error scenario
200	If the request is processed successful
400	This status code will be returned in case of application error/business functional errors such as incorrect data, incorrect data format, missing parameters etc.
500	In case of a system error such as time out, server down etc, this HTTP status code will be returned

### Note:

1. In cases such as server time out where a valid error code will not be returned by the back end system error code will be same as the HTTP status code ie 500.
2. In case of business error scenario such as "duplicate submission", MDG will respond with errorCode 400 and appropriate errorMessage.
3. Error response structure - [MDG Error Response Structure.pdf](#)

## 10. Referred QAM Request and Response Structure (Backend)

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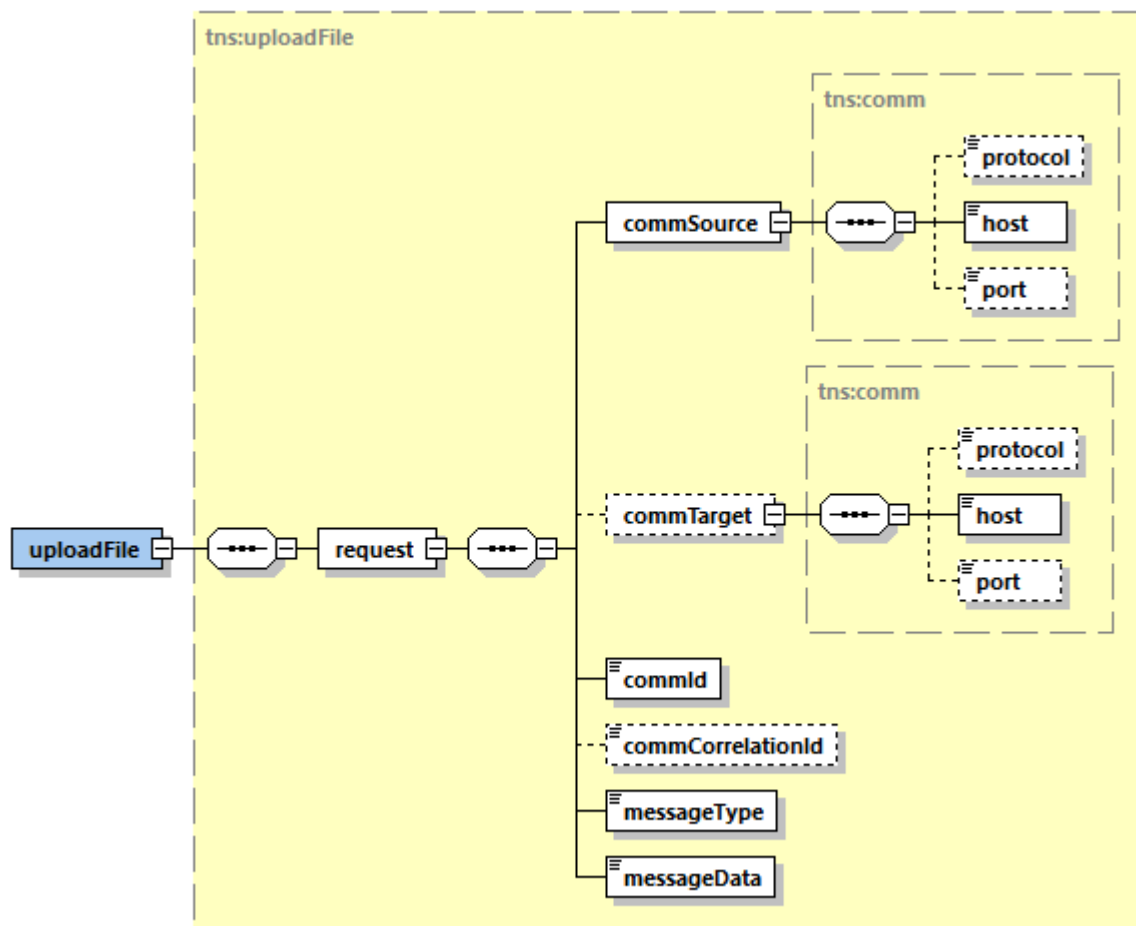
### Content type

QAM Content Type	MDG Content Type
Text/XML (Note: SOAP 1.1)	Text/XML (Note: SOAP 1.1)

### MessageData Request Structure

MDG request will conform to the QAM schema. Hence the below field structure is an exact replica of the QAM request structure.

### Request Structure:



#### Request Structure Details:

Field name	Size	Optional/Mandatory	Field Type	Description
uploadFile		Mandatory	xs:complexType	
request		Mandatory	xs:complexType	
commSource		Mandatory	xs:complexType	
protocol		Optional	xs:string	
host		Mandatory	xs:string	Populate "DIT"
port		Optional	xs:int	
commTarget		Optional	xs:complexType	
protocol		Optional	xs:string	
host		Mandatory	xs:string	Populate "QAM"
port		Optional	xs:int	
commId		Mandatory	xs:string	If messageID is present in the metadata file map messageID if not map correlationID
commCorrelationId		Optional	xs:string	correlationID from the metadata file
messageType		Mandatory	xs:string	"TARIC3" for TAQ01
messageData		Mandatory	xs:string	This element must hold the zip+encoded TARIC3 File

**Note:** Tariff response will not be validated and will be logged on MDG logs.

## 11. QAM Request and Response Schema

### Request and Response Schema

[InboundCommService\\_schema1.xsd](#)

[InboundCommService\\_with\\_policy.wsdl](#)

## 12. Request and Response Examples

### MDG request to QAM

```
<soapenv:Envelope xmlns:all="http://allocation.quota.eurodyn.com/"
  xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header xmlns:wsa="http://www.w3.org/2005/08/addressing">
    <wsse:Security soapenv:mustUnderstand="1"

xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wsse
curity-secext-1.0.xsd"

xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssec
urity-utility-1.0.xsd">
      <wsse:UsernameToken
wsu:Id="UsernameToken-7A196EF35B9E961731154100341267224">
        <wsse:Username>txlogToDitUser</wsse:Username>
        <wsse:Password
Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-t
oken-profile-1.0#PasswordDigest">bBPhFgtSp3j8PhwbBznoXSRmKwA=</wsse:Pass
word>
          <wsse:Nonce
EncodingType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-so
ap-message-security-1.0#Base64Binary">qXF0cz+0NlPUrVEot3Of3w==</wsse:Non
ce>
            <wsu:Created>2018-10-31T16:30:12.672Z</wsu:Created>
          </wsse:UsernameToken>
        </wsse:Security>
      <wsa:Action
soapenv:mustUnderstand="1">http://allocation.quota.eurodyn.com/InboundCo
mm/uploadFile</wsa:Action>
      <wsa:MessageID
soapenv:mustUnderstand="1">uuid:d38d2fda-fe34-42ec-a40f-2005f855df49</ws
a:MessageID>
      <wsa:To
soapenv:mustUnderstand="1">http://tariff-app3.eurodyn.com:8080/InboundCo
mmon/InboundCommService</wsa:To>
    </soapenv:Header>
    <soapenv:Body>
      <all:uploadFile>
        <request>
          <commSource>
            <host>DIT</host>
          </commSource>
          <commTarget>
            <host>QAM</host>
          </commTarget>
```

<commId>2020</commId>  
<messageType>TARIC3</messageType>

<messageData>UESDBBQAAAAIAI2TX02y8p974gEAAKQGAAAbABwAVEdCMjAwMzJfMjAxODEwMzExNTU4MDMueGls

VVQJAAMq2N1bKtjZW3V4CwABBOgDAAAE6AMAAJ1VXW+bQBB8969AvPt82G0TI5vIaqhVKU2qxKna

xz03TU6Cg9yHlfz7Lhw4BIPj1LIfvDszt7u3DIuL5yzldqC0yOXSDwj1PZBJzoV8WPr3m2/jc/8i

GilA7kL8QZoX4CFF6qVvlQwLu01FIng4Di/Xm9Xv+8tws7r9/jX8Ed/drdZxWC1WhJI/SFrH1/Ht

6iqMr3/FVzc/a57gS39K6WzmRyMPP1UZRjGpWWKw4AoQ1Mk9gBUFYUBr9gAHgAqU261TyYQu+/7v

+hwp5T4wjLe17OtrKOSKHybfFuzaJoJHwWLSEx2m032CNwvR7Iw6djs4TNV22wbSmtwJv3u0hieL

qwVE2mwLqulgIDssZwvODBDzUkCj0Q4NE59sbhjh8FdIUQ6sHzoIJ7oc+3xen9mbPkURuwVvtlne

GZ1Pv9B5W7SLOK66Y6ngwrwQbZgypJxENKXBdEwD/DrdPsyJqiD5XvOsV3OPQO6HB1AN9dP558H+

3x/rLk9thrsQNIW5/8dJ1a2xlDRkR+1Ej0tk7FlkNiMFrrAofaRROUwcf0oUnprgsXg7OMY/TqUT

PVHCPCrQj3mKe9WRec30PyK9W93jVq2ntuOrr45UG2vLmCcdZ64NfdJxdHzVTNrvmsgbjf4BUESB

Ah4DFAAAAAgAjZNfTbLyn3viQAAPAYAABsAGAAAAAAAAQAAAKSBAAAAFRHQjIwMDMyXzIwMTgx

MDMxMTU1ODAzLnhtbFVUBQADKtjZW3V4CwABBOgDAAAE6AMAAFBLBQYAAAAAAQABAGEAAAA3AgAA

AAA=</messageData>  
</request>

```
        </all:uploadFile>
    </soapenv:Body>
</soapenv:Envelope>
```

#### QAM Response

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header>
    <Action xmlns="http://www.w3.org/2005/08/addressing"
>http://allocation.quota.eurodyn.com/InboundComm/uploadFileResponse</Act
ion>
    <MessageID xmlns="http://www.w3.org/2005/08/addressing"
>urn:uuid:8a42979a-5810-4e53-887c-0d6a06bc27d4</MessageID>
    <To xmlns="http://www.w3.org/2005/08/addressing"
>http://www.w3.org/2005/08/addressing/anonymous</To>
    <RelatesTo xmlns="http://www.w3.org/2005/08/addressing"
>uuid:d38d2fda-fe34-42ec-a40f-2005f855df49</RelatesTo>
  </soap:Header>
  <soap:Body>
    <ns2:uploadFileResponse
xmlns:ns2="http://allocation.quota.eurodyn.com/">
      <result>
        <status>SUCCESS</status>
        <description>OK</description>
      </result>
    </ns2:uploadFileResponse>
  </soap:Body>
</soap:Envelope>
```