

ATS Healthcare



**Web Services Shipping Guide
Version 1.04 - November 2016**



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Introduction

Web Services are intended to provide a simple way to integrate your enterprise applications, web sites and other applications with the shipping solutions.

The functions available are:

- Create a Shipment
- VoidShipment
- ShipmentLabel (reprint option)

Create a shipment, which will return label data in a PDF label format encoded as a base64 string.

Also have the ability to void or reprint a shipment, or piece on a shipment (up to the time a manifest is generated).

The Web Services are SOAP based, the system supports SOAP 1.1 and SOAP 1.2.

The Web Services Definition can be retrieved at:

<http://www.flamesoftglobal.com/flamexe2/ats/soap/ats.asmx?WSDL>



ATS Shipment Number Format:

ATS will assign each client a block of shipment numbers (9-12 digits long) e.g. 375300000 to 375399999

Each piece of that particular shipment is incremented on the assigned shipment/tracking number, example for a two piece shipment:

375300001-1
375300001-2

Note: Even though internally you might have two separate processes for LTL and courier style freight processing. ATS treats both LTL and courier freight in the same manner when allocating shipment numbers. Both LTL and courier are treated as 'pieces' of an assigned shipment (number) per consignee delivery. No special paperwork is required for LTL shipments.

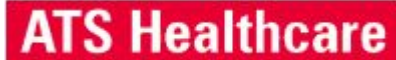
ATS Service Codes and default fallback services:

Complete List:

CODE	DESCRIPTION
By Air:	
AP	Propak By Noon
A9	Next Day By 9:00 AM
A1	Next Day By 10:00 AM
AN	Next Day By Noon
A3	Next Day By 3:00 PM
AD	Second Day
AT	Same Day/Air/SPECIAL DELIVERY
By Ground:	
GP	Propak By Noon
GT	Same Day/Direct Drive/SPECIAL DELIVERY
G9	Ground By 9:00 AM
G1	Ground By 10:00 AM
GN	Ground by Noon
GD	Ground by 5:00
GE	Ground Expedited
TL	Truckload

Fallback services if a selected service is not offered to that destination:

- All air services fall back to A3
- All ground services (plus A3) fall back to GE
- AT special delivery service fall back to GT
- GT special delivery service fall back to GE



Accessorials and Special Handling Instructions:

The following surcharge and accessorial rate values are based on customer specific contract rates.

CODE	DESCRIPTION
-------------	--------------------

Surcharges:

FL	Fuel
AI	Airline Insurance
NC	NavCan

Accessorials:

BD	Back Door Receipt
CS	Chain Of Signature (COS) – one piece per shipment number only
DG	Dangerous Goods
HD	Residential Delivery
HS	Heated Service - shipment transported in a heated vehicle and will not freeze
IS	Freight Insurance
KC	Keep Cool - refrigerated service (do not melt) offered between Apr. 16 and Oct. 14 th
NR	POD waived by Consignee
NS	Shipper Does Not Require POD
PO	Hardcopy POD Required
PT	Appointment (Pre-Booked and Request)
SH	Do Not Deliver Short
TG	Tail Gate Required
TR	Time Release (Deliver On, By, Between, etc.)

Note:

Either PT or TR can be used, but note both (examples on following page)
 Either HS or KC can be used, but not both



Time Release (TR) Details

Appointment (PT) Details:

Request a delivery appointment:

- Include the 'PT' code
- PO Expiry date (or requested appointment date - date and time value separated by a space) - optional

Provide pre-booked appointment details:

- Include the 'PT' code
- Appointment Date and Time (date and time value separated by a space)
- Appointment confirmation number (optional)

Refer to examples at end of document (page 15)

Shipment

The **Shipment** function is used to create a shipment.

Fill in your ATS Account (including docket code), provided by ATS.

Username and Password are the same as your web username and password.

The shipment function creates a shipment and returns a tracking number and label.

The label format returned is a PDF encoded as a base64 string.

Definition

```
<?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>
    <Shipment xmlns="http://flamesoftglobal.com/">
      <ATSAccount>string</ATSAccount>
      <Username>string</Username>
      <Password>string</Password>
      <Docket>string</Docket>
      <ToAccount>string</ToAccount>
      <ToAttention>string</ToAttention>
      <ToName>string</ToName>
      <ToAddress1>string</ToAddress1>
      <ToAddress2>string</ToAddress2>
      <ToCity>string</ToCity>
      <ToProvince>string</ToProvince>
      <ToCountry>string</ToCountry>
      <ToPostalCode>string</ToPostalCode>
      <ToPhone>string</ToPhone>
      <ToEMail>string</ToEMail>
      <SaidToContain>int</SaidToContain>
      <InsuranceValue>float</InsuranceValue>
      <Service>string</Service>
      <Accessorials>string</Accessorials>
```

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```

<Appointment>
  <Date>dateTime</Date>
  <Confirmation>string</Confirmation>
</Appointment>
<TimeRelease>
  <Type>string</Type>
  <Date1>dateTime</Date1>
  <Date2>dateTime</Date2>
</TimeRelease>
<References>
  <Reference>
    <reference>string</reference>
    <po>string</po>
  </Reference>
  <Reference>
    <reference>string</reference>
    <po>string</po>
  </Reference>
</References>
<WeightQualifier>string</WeightQualifier>
<Pieces>int</Pieces>
<Weight>int</Weight>
<Pallets>int</Pallets>
<Packages>
  <Package>
    <length>double</length>
    <width>double</width>
    <height>double</height>
    <weight>double</weight>
  </Package>
  <Package>
    <length>double</length>
    <width>double</width>
    <height>double</height>
    <weight>double</weight>
  </Package>
</Packages>
</Shipment>
</soap:Body>
</soap:Envelope>

```

Refer to examples at end of document (page 15)



Response

```
<?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>
    <ShipmentResponse xmlns="http://flamesoftglobal.com/">
      <ShipmentResult>
        <Status>string</Status>
        <Message>string</Message>
        <Tracking>string</Tracking>
        <Rate>double</Rate>
        <Label>string</Label>
      </ShipmentResult>
    </ShipmentResponse>
  </soap:Body>
</soap:Envelope>
```

VoidShipment

The VoidShipment function is used to void a shipment.

Fill in your ATS Account.

Username and Password are the same as your web username and password.

Fill in the shipment tracking that was returned when the shipment was created.

Shipments can only be voided before they are manifested.

Definition

```
POST /flamexe2/ats/soap/ats.asmx HTTP/1.1
Host: www.flamesoftglobal.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>
    <VoidShipment xmlns="http://flamesoftglobal.com/">
      <Account>string</Account>
      <Username>string</Username>
      <Password>string</Password>
      <Tracking>string</Tracking>
    </VoidShipment>
  </soap12:Body>
</soap12:Envelope>
```

Refer to examples at end of document (page 15)



VoidShipment

Response

```
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>
    <VoidShipmentResponse xmlns="http://flamesoftglobal.com/">
      <VoidShipmentResult>
        <Status>string</Status>
      </VoidShipmentResult>
    </VoidShipmentResponse>
  </soap12:Body>
</soap12:Envelope>
```

ShipmentLabel (reprint option)

Request

```
POST /flamexe2/ats/soap/ats.asmx HTTP/1.1
Host: www.flamesoftglobal.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>
    <ShipmentLabel xmlns="http://flamesoftglobal.com/">
      <Account>string</Account>
      <Username>string</Username>
      <Password>string</Password>
      <Tracking>string</Tracking>
    </ShipmentLabel>
  </soap12:Body>
</soap12:Envelope>
```

Refer to examples at end of document (page 15)



ShipmentLabel

Response

```
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>
    <ShipmentLabelResponse xmlns="http://flamesoftglobal.com/">
      <ShipmentLabelResult>
        <Status>string</Status>
        <Message>string</Message>
        <Label>string</Label>
      </ShipmentLabelResult>
    </ShipmentLabelResponse>
  </soap12:Body>
</soap12:Envelope>
```

Rate

The Rate function is used to rate a shipment.

Fill in your ATS Account.

Username and Password are the same as your web username and password.

Fill in the shipment details..

Rates will be returned..

Definition

```
POST /flamexe2/ats/soap/$ats.asmx HTTP/1.1
Host: localhost
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>
    <Rate xmlns="http://tempuri.org/">
      <Account>string</Account>
      <Username>string</Username>
      <Password>string</Password>
      <Docket>string</Docket>
      <ToAccount>string</ToAccount>
      <ToAttention>string</ToAttention>
      <ToName>string</ToName>
      <ToAddress1>string</ToAddress1>
      <ToAddress2>string</ToAddress2>
      <ToCity>string</ToCity>
      <ToProvince>string</ToProvince>
      <ToCountry>string</ToCountry>
      <ToPostalCode>string</ToPostalCode>
      <ToPhone>string</ToPhone>
      <ToEMail>string</ToEMail>
```

Rate

```

<Pieces>int</Pieces>
<Weight>double</Weight>
<Pallets>string</Pallets>
<SaidToContain>string</SaidToContain>
<Value>string</Value>
<Instructions>string</Instructions>
<Service>string</Service>
<Accessorials>string</Accessorials>
<Ref>string</Ref>
<PO>string</PO>
</Rate>
</soap12:Body>
</soap12:Envelope>
HTTP/1.1 200 OK
Content-Type: application/soap+xml; charset=utf-8
Content-Length: length

```

Rate Response

```

<?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>
    <RateResponse xmlns="http://tempuri.org/">
      <RateResult>
        <Status>string</Status>
        <Rate>double</Rate>
      </RateResult>
    </RateResponse>
  </soap12:Body>
</soap12:Envelope>

```

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Success Code

000 - Successful Web Service Call

010 - Successful Shipment

007 - Service Unavailable, service modified to next available service

- All air services fall back to A3
- All ground services (plus A3) fall back to GE
- AT special delivery service fall back to GT
- GT special delivery service fall back to GE

Error Codes

001 - Unknown

002 - Invalid Login

003 - Invalid Account Number

004 - Cannot rate this shipment - Please verify address and all details

005 - Cannot retrieve rating for shipment (check if rate in contract for this zone)

006 - Invalid Service

008 - Processing Error

009 - User does not have an associated sender

011 - Invalid Accessorial



Field	Mandatory Y/N	Example	Comments
SHIPMENT			
<ATSAccount>string</ATSAccount>	Y		ATS Assigned
<Username>string</Username>	Y		ATS Assigned
<Password>string</Password>	Y		ATS Assigned
<Docket>string</Docket>	Y		ATS Assigned
<ToAccount>string</ToAccount>	N		Your Internal Account/Customer#
<ToAttention>string</ToAttention>	N		
<ToName>string</ToName>	Y		
<ToAddress1>string</ToAddress1>	Y		
<ToAddress2>string</ToAddress2>	N		
<ToCity>string</ToCity>	Y		
<ToProvince>string</ToProvince>	Y		
<ToCountry>string</ToCountry>	Y		
<ToPostalCode>string</ToPostalCode>M	Y		
<ToPhone>string</ToPhone>	N		
<ToEMail>string</ToEMail>	N		
<SaidToContain>int</SaidToContain>	N		Total cartons on a skid
<InsuranceValue>float</InsuranceValue>	N		
<Service>string</Service>	Y	GE	Ground Expedited
<Accessorials>string</Accessorials>	N	HS,TG	Comma separated if multiple
<Appointment>	N	PT	
<Date>dateTime</Date>	Y	YYYYMMDDTHH:MM:SS	If PT utilized for prebooked appt.
<Confirmation>string</Confirmation>	Y	C123456	If PT utilized for prebooked appt.
</Appointment>			
<TimeRelease>	N	TR	
<Type>string</Type>	Y	1 - 4	If TR utilized (Ref. to table on page 6 for code descriptions)
<Date1>dateTime</Date1>	Y	YYYYMMDD	If TR utilized (Ref. to table on page 6 for format)
<Date2>dateTime</Date2>	Y	YYYYMMDD	If TR utilized (Ref. to table on page 6 for format)
</TimeRelease>			



<References>	N		Suggested to include to track shipment by Shipper Ref#
<Reference>			
<reference>string</reference>			
<po>string</po>	N		Suggested to include to track shipment by Customer Ref# (e.g. PO#)
</Reference>			
<Reference>			
<reference>string</reference>			
<po>string</po>			
</Reference>			
</References>			
<WeightQualifier>string</WeightQualifier>	Y	L	L (LBS)/K (Kilo's)
<Pieces>int</Pieces>	Y	4	
<Weight>int</Weight>	Y	16.00 (or 16)	Total weight of all pieces
<Pallets>int</Pallets>	N		
<Packages>	N		
<Package>			
<length>double</length>	Y	15.00 (or 15)	If utilized
<width>double</width>	Y	12.00	If utilized
<height>double</height>	Y	4.00	If utilized
<weight>double</weight>	Y	4.00	If utilized
</Package>			
<Package>			
<length>double</length>	Y		If utilized
<width>double</width>	Y		If utilized
<height>double</height>	Y		If utilized
<weight>double</weight>	Y		If utilized
</Package>			
</Packages>			
</Shipment>			
VOIDSHIPMENT			
<Account>string</Account>	Y		ATS Assigned
<Username>string</Username>	Y		ATS Assigned
<Password>string</Password>	Y		ATS Assigned
<Tracking>string</Tracking>	Y	315050011 (or 315050011-001)	ATS Shipment# (for entire shipment) or ATS Shipment# with piece# count if deleting 1 piece
</VoidShipment>			



SHIPMENTLABEL (label reprint option)			
<Account>string</Account>	Y		ATS Assigned
<Username>string</Username>	Y		ATS Assigned
<Password>string</Password>	Y		ATS Assigned
<Tracking>string</Tracking>	Y	315050011 (or 315050011-001)	ATS Shipment# (for all pieces on the shipment) or ATS Shipment# with piece# count if only require specific label for a piece
</ShipmentLabel>			



Manifesting

Call the web service with an Account, Username and Password as well as a list of tracking numbers to manifest. A manifest will be generated, and the manifest number will be returned. To get the manifest report, call the web service ManifestReport with the manifest number, this will return a url of the manifest PDF report..

Manifest

```
<?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>
    <Manifest xmlns="http://tempuri.org/">
      <ATSAccount>string</ATSAccount>
      <Username>string</Username>
      <Password>string</Password>
      <Tracking>
        <string>string</string>
        <string>string</string>
      </Tracking>
    </Manifest>
  </soap12:Body>
```

Manifest Response

```
<?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>
    <ManifestResponse xmlns="http://tempuri.org/">
      <ManifestResult>
        <Status>string</Status>
        <Message>string</Message>
        <Manifest>int</Manifest>
      </ManifestResult>
    </ManifestResponse>
  </soap12:Body>
</soap12:Envelope>
```



Manifest Report

Call the ManifestReport service with a manifest number to get the Manifest Report PDF.

ManifestReport

```
<?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>
    <ManifestReport xmlns="http://tempuri.org/">
      <ATSAccount>string</ATSAccount>
      <Username>string</Username>
      <Password>string</Password>
      <Manifest>int</Manifest>
    </ManifestReport>
  </soap12:Body>
</soap12:Envelope>
```

ManifestReport Response

```
<?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>
    <ManifestReportResponse xmlns="http://tempuri.org/">
      <ManifestReportResult>
        <Status>string</Status>
        <Message>string</Message>
        <Manifest>string</Manifest>
      </ManifestReportResult>
    </ManifestReportResponse>
  </soap12:Body>
</soap12:Envelope>
```