Amazon MWS Fulfillment Inventory API Section Reference (Version 2010-10-01)

Contents

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What you should know about the Fulfillment Inventory API section

The Fulfillment Inventory API section of Amazon Marketplace Web Service (Amazon MWS) can help you stay up-to-date on the availability of your inventory in the Amazon Fulfillment Network. The Fulfillment Inventory API section reports real-time availability information for your Amazon Fulfillment Network inventory regardless of whether you are selling your inventory on Amazon's retail web site or through other retail channels.

The following operations are included in the Fulfillment Inventory API section:

Operation	Short description
ListInventorySupply	Returns information about the availability of a seller's inventory.
ListInventorySupplyByNextToken	Returns the next page of information about the availability of a seller's inventory using the **NextToken** parameter.
GetServiceStatus	Returns the operational status of the Fulfillment Inventory API section.

ListInventorySupply

Returns information about the availability of a seller's inventory.

Description

The `ListInventorySupply` operation returns information about the availability of inventory that a seller has in the Amazon Fulfillment Network and in current inbound shipments. You can check the current availabilty status for your Amazon Fulfillment Network inventory as well as discover when availability status changes.

This operation does not return availability information for inventory that is:

• Unsellable
• Bound to a customer order

Throttling

The `ListInventorySupply` operation has a **maximum request quota** of 30 and a **restore rate** of two requests every second. For definitions of throttling terminology and for a complete explanation of throttling, see "Throttling: Limits to how often you can submit requests" in the Amazon MWS Developer Guide.

Request parameters

Name	Description	Required	Values
SellerSkus	A list of seller SKUs for items that you want inventory availability information about.	Yes, if **QueryStartDateTime** is not specified. Specifying both **QueryStartDateTime** and **SellerSkus** returns an error.	Seller SKUs for items that you have shipped to an Amazon fulfillment center. Maximum: 50 Type: xs:string
QueryStartDateTime	A date used for selecting items that have had changes in inventory availability after (or at) a specified time, in ISO 8601 format.	Yes, if **SellerSkus** is not specified. Specifying both **QueryStartDateTime** and **SellerSkus** returns an error.	Type: xs:dateTime
ResponseGroup	Indicates whether or not you want the `ListInventorySupply` operation to return the **SupplyDetail** element.	No	**ResponseGroup** values: • *Basic* - Does not include the **SupplyDetail** element in the response • *Detailed* - Includes the **SupplyDetail** element in the response Default: *Basic* Type: xs:string

Response elements

Name	Description
NextToken	A generated string used to pass information to your next request. If **NextToken** is returned, pass the value of **NextToken** to `ListInventorySupplyByNextToken`. If **NextToken** is not returned, there is no more inventory availability information to return.

Name	Description
	Optional Type: xs:string
InventorySupplyList	A structured list of items that are or soon will be available for fulfillment by the Amazon Fulfillment Network. Each item is either currently in the Amazon Fulfillment Network or is in an inbound shipment to an Amazon fulfillment center. SKU, ASIN, condition, quantity, and availability information is included with each item. Type: List of [InventorySupply](#)

Examples

Example query request

```
https://mws.amazonservices.com/FulfillmentInventory/2010-10-01
  ?Action=ListInventorySupply
  &Version=2011-03-01
  &AWSAccessKeyId=AKIAJGUEXAMPLEE2NVUA
  &MWSAuthToken=amzn.mws.4ea38b7b-f563-7709-4bae-87aeaEXAMPLE
  &SignatureVersion=2
  &SignatureMethod=HmacSHA256
  &Signature=ZRA9DR5rveSuz%2F1D18AHvoipg2BAev8yblPQ1BbEbfU%3D
  &Timestamp=2010-10-01T02:40:36Z
  &SellerId=A2NKEXAMPLEF53
  &SellerSkus.member.1=SampleSKU1
  &SellerSkus.member.2=SampleSKU2
  &ResponseGroup=Basic
```

Example response

```
<?xml version="1.0"?>
<ListInventorySupplyResponse xmlns="http://mws.amazonaws.com/
FulfillmentInventory/2010-10-01">
  <ListInventorySupplyResult>
    <InventorySupplyList>
      <member>
        <SellerSKU>SampleSKU1</SellerSKU>
        <ASIN>B00000K3CQ</ASIN>
        <TotalSupplyQuantity>20</TotalSupplyQuantity>
        <FNSKU>X0000000FM</FNSKU>
        <Condition>NewItem</Condition>
        <SupplyDetail/>
        <InStockSupplyQuantity>15</InStockSupplyQuantity>
        <EarliestAvailability>
          <TimepointType>Immediately</TimepointType>
        </EarliestAvailability>
      </member>
      <member>
        <SellerSKU>SampleSKU2</SellerSKU>
        <ASIN>B00004RWQR</ASIN>
        <TotalSupplyQuantity>0</TotalSupplyQuantity>
        <FNSKU>X00008FZR1</FNSKU>
        <Condition>UsedLikeNew</Condition>
        <SupplyDetail/>
        <InStockSupplyQuantity>0</InStockSupplyQuantity>
      </member>
    </InventorySupplyList>
  </ListInventorySupplyResult>
  <ResponseMetadata>
    <RequestId>e8698ffa-8e59-11df-9acb-230ae7a8b736</RequestId>
```

```
      </ResponseMetadata>
</ListInventorySupplyResponse>
```

Example query request

```
http://mws.amazonaws.com/FulfillmentInventory/2010-10-01/
   ?Action=ListInventorySupply
   &Version=2010-10-01
   &AWSAccessKeyId=1QZHP81N5R44N89PFAKE
   &MWSAuthToken=amzn.mws.4ea38b7b-f563-7709-4bae-87aeaEXAMPLE
   &SignatureVersion=2
   &SignatureMethod=HmacSHA256
   &Signature=VY6sqvdk01VEG0V+h4oj3FBFAKE=
   &Timestamp=2010-10-01T02:40:36Z
   &SellerId=1234567890
   &QueryStartDateTime=2011-05-03T06%3A00%3A00Z
   &ResponseGroup=Detailed
```

Example response

```
<?xml version="1.0"?>
<ListInventorySupplyResponse xmlns="http://mws.amazonaws.com/
FulfillmentInventory/2010-10-01/">
   <ListInventorySupplyResult>
   <NextToken>H4sIAAAAAAAAADXQzW6CMAAA4FcxXD3AgE5J5pLSiBTQ8Sc
SblCB0Ap2LSL49O6y7xGr05WbPW8ip3SlDdZK6t3CmuKTH8d9B/0mhCR7gcV
E3gpuDaR8850n239tjC17Z3Gg2PmsZJNa14izwUtQAMYp6tOH4NHl/gN492S
YVU0P5F0OYwUwmYI0d/YHnMSgDPUF0mvxTPNofZkXr6ww39SIBYJUTlUMNwI
WaduUNr/MZYmaySPqugvxiQaTs2Rxgs1gFENKcUV7Ry/8BSUECjcj2sQ7bLT
nBvYPd9/ksLbmV5ydt+HUWFx1QMQgD7O5Ey96mZzNZypKo7V9nBUtPNp/Azt
F/X4Di21K/SkBAAA=</NextToken>
      <InventorySupplyList>
        <member>
          <SellerSKU>SampleSKU3</SellerSKU>
          <ASIN>BT008FQ92Q</ASIN>
          <TotalSupplyQuantity>18</TotalSupplyQuantity>
          <FNSKU>X0000000EY</FNSKU>
          <Condition>NewItem</Condition>
          <SupplyDetail>
            <member>
              <EarliestAvailableToPick>
                <TimepointType>Immediately</TimepointType>
              </EarliestAvailableToPick>
              <Quantity>5</Quantity>
              <LatestAvailableToPick>
                <TimepointType>Immediately</TimepointType>
              </LatestAvailableToPick>
              <SupplyType>InStock</SupplyType>
            </member>
            <member>
              <EarliestAvailableToPick>
                <TimepointType>DateTime</TimepointType>
                <DateTime>2011-05-04T23:00:00Z</DateTime>
              </EarliestAvailableToPick>
              <Quantity>13</Quantity>
              <LatestAvailableToPick>
                <TimepointType>DateTime</TimepointType>
                <DateTime>2011-05-04T23:00:00Z</DateTime>
              </LatestAvailableToPick>
              <SupplyType>InStock</SupplyType>
            </member>
          </SupplyDetail>
```

```
            <InStockSupplyQuantity>4</InStockSupplyQuantity>
          </member>
        </InventorySupplyList>
    </ListInventorySupplyResult>
    <ResponseMetadata>
      <RequestId>e26d8d21-8e5c-11df-9acb-230ae7a8b736</RequestId>
    </ResponseMetadata>
</ListInventorySupplyResponse>
```

Related topics

[What you should know about the Fulfillment Inventory API section](#)

[ListInventorySupplyByNextToken](#)

ListInventorySupplyByNextToken

Returns the next page of information about the availability of a seller's inventory using the **NextToken** parameter.

Description

The `ListInventorySupplyByNextToken` operation returns the next page of information about the availability of a seller's inventory using the **NextToken** value that was returned by your previous request to either `ListInventorySupply` or `ListInventorySupplyByNextToken`. If **NextToken** is not returned, there are no more pages to return.

Throttling

The `ListInventorySupply` and `ListInventorySupplyByNextToken` operations together share a **maximum request quota** of 30 and a **restore rate** of two requests every second. For definitions of throttling terminology and for a complete explanation of throttling, see "Throttling: Limits to how often you can submit requests" in the Amazon MWS Developer Guide.

Request parameters

Name	Description	Required	Values
NextToken	A string token returned in the response of your previous request to either `ListInventorySupply` or `ListInventorySupplyByNextToken`.	Yes	Type: xs:string

Response elements

Name	Description
NextToken	A generated string used to pass information to your next request. If **NextToken** is returned, pass the value of **NextToken** to `ListInventorySupplyByNextToken`. If **NextToken** is not returned, there is no more inventory availability information to return. Optional Type: xs:string
InventorySupplyList	A list of items that are or soon will be available for fulfillment by the Amazon Fulfillment Network. Each item is either currently in the Amazon Fulfillment Network or is in an inbound shipment to an Amazon fulfillment center. SKU, ASIN, condition, quantity, and availability information is included with each item. Type: List of [InventorySupply](#)

Examples

Example query request

```
http://mws.amazonaws.com/FulfillmentInventory/2010-10-01/
  ?Action=ListInventorySupplyByNextToken
  &Version=2010-10-01
  &AWSAccessKeyId=1QZHP81N5R44N89PFAKE
  &MWSAuthToken=amzn.mws.4ea38b7b-f563-7709-4bae-87aeaEXAMPLE
  &SignatureVersion=2
```

```
&SignatureMethod=HmacSHA256
&Signature=VY6sqvdk01VEG0V+h4oj3FBFAKE=
&Timestamp=2010-10-01T02:40:36Z
&SellerId=1234567890
&NextToken=2YgYW55IGNhcm5hbCBwbGVhc3VyZS4=
```

Example response

```xml
<?xml version="1.0"?>
<ListInventorySupplyByNextTokenResponse xmlns="http://mws.amazonaws.com/
FulfillmentInventory/2010-10-01/">
  <ListInventorySupplyByNextTokenResult>
    <NextToken>2YgYW55IGNhcm5hbCBwbGVhc3VyZS4=</NextToken>
    <InventorySupplyList>
      <member>
        <SellerSKU>SampleSKU5</SellerSKU>
        <ASIN>B00008UI0R</ASIN>
        <TotalSupplyQuantity>0</TotalSupplyQuantity>
        <FNSKU>B00008UI0R</FNSKU>
        <Condition/>
        <SupplyDetail/>
        <InStockSupplyQuantity>0</InStockSupplyQuantity>
      </member>
      <member>
        <SellerSKU>SampleSKU6</SellerSKU>
        <ASIN>B00000K3CQ</ASIN>
        <TotalSupplyQuantity>5259</TotalSupplyQuantity>
        <FNSKU>X0000000FM</FNSKU>
        <Condition>NewItem</Condition>
        <SupplyDetail/>
        <InStockSupplyQuantity>5259</InStockSupplyQuantity>
        <EarliestAvailability>
          <TimepointType>Immediately</TimepointType>
        </EarliestAvailability>
      </member>
    </InventorySupplyList>
  </ListInventorySupplyByNextTokenResult>
  <ResponseMetadata>
    <RequestId>b3a020ac-8e5e-11df-9acb-230ae7a8b736</RequestId>
  </ResponseMetadata>
</ListInventorySupplyByNextTokenResponse>
```

Related topics

What you should know about the Fulfillment Inventory API section

ListInventorySupply

GetServiceStatus

Returns the operational status of the Returns the operational status of the Fulfillment Inventory API section.

Description

The `GetServiceStatus` operation returns the operational status of the Fulfillment Inventory API section of Amazon Marketplace Web Service. Status values are *GREEN*, *GREEN_I*, *YELLOW*, and *RED*.

The `GetServiceStatus` operation has a **maximum request quota** of two and a **restore rate** of one request every five minutes. For definitions of throttling terminology, see [What you should know about the Fulfillment Inventory API section](#).

Request parameters

None.

Response elements

Name	Description
Status	The following list shows possible values returned by the `GetServiceStatus` operation:
	GREEN — The service is operating normally.
	GREEN_I — The service is operating normally. Additional information is provided.
	YELLOW — The service is experiencing higher than normal error rates or is operating with degraded performance. Additional information may be provided.
	RED — The service is unavailable or experiencing extremely high error rates. Additional information may be provided.
	Type: xs:string
Timestamp	Indicates the time at which the operational status was evaluated. Type: xs:dateTime
MessageId	An Amazon-defined message identifier. Type: xs:string
Messages	The parent element of one or more **Message** elements.
Message	The operational status message. The parent element of the following child elements (both child elements are type: xs:string): • **Locale** • **Text**

Examples

Example query request

```
http://mws.amazonaws.com/FulfillmentInventory/2010-10-01/
  ?AWSAccessKeyId=0PB842EXAMPLE7N4ZTR2
  &Action=GetServiceStatus
```

```
&MWSAuthToken=amzn.mws.4ea38b7b-f563-7709-4bae-87aeaEXAMPLE
&SellerId=A1XEXAMPLE5E6
&Signature=ZQLpf8vEXAMPLE0iC265pf18n0%3D
&SignatureVersion=2
&SignatureMethod=HmacSHA256
&Timestamp=2010-11-01T18%3A12%3A21.687Z
&Version=2010-10-01
```

Example response

```
<?xml version="1.0"?>
<GetServiceStatusResponse xmlns="http://mws.amazonaws.com/
FulfillmentInventory/2010-10-01/">
  <GetServiceStatusResult>
    <Status>GREEN_I</Status>
    <Timestamp>2010-11-01T21:38:09.676Z</Timestamp>
    <MessageId>173964729I</MessageId>
    <Messages>
      <Message>
        <Locale>en_US</Locale>
        <Text>We are experiencing high latency in UK because of heavy
 traffic.</Text>
      </Message>
    </Messages>
  </GetServiceStatusResult>
  <ResponseMetadata>
    <RequestId>d80c6c7b-f7c7-4fa7-bdd7-854711cb3bcc</RequestId>
  </ResponseMetadata>
</GetServiceStatusResponse>
```

Related topics

What you should know about the Fulfillment Inventory API section

Inventory Datatypes

The following datatypes are used in the response elements of the Amazon Marketplace Web Service (Amazon MWS) Fulfillment Inventory API section:

Datatype	Description
InventorySupply	General information about the availability of inventory for a single SKU.
InventorySupplyDetail	Specific information about the availability of inventory for a single SKU, including the number of units that are in an Amazon fulfillment center, in an inbound shipment, or being transferred between Amazon fulfillment centers.
Timepoint	Indicates whether inventory is immediately available for picking, whether inventory availability is unknown, or whether inventory is expected to be available for picking by a specific date.

InventorySupply

General information about the availability of inventory for a single SKU.

Operations

The `InventorySupply` datatype is used in a response element of the following operations:

- ListInventorySupply
- ListInventorySupplyByNextToken

Datatype content

The following table shows the elements of the `InventorySupply` datatype:

Name	Description	Required	Values
SellerSKU	The Seller SKU of the item.	No	Type: xs:string
FNSKU	The Fulfillment Network SKU (FNSKU) of the item. The **FNSKU** is a unique identifier for each inventory item stored in an Amazon fulfillment center.	Yes	Type: xs:string
ASIN	The Amazon Standard Identification Number (ASIN) of the item.	No	Type: xs:string
Condition	The condition of the item.	No	**Condition** values: • *NewItem* • *NewWithWarranty* • *NewOEM* • *NewOpenBox* • *UsedLikeNew* • *UsedVeryGood* • *UsedGood* • *UsedAcceptable* • *UsedPoor* • *UsedRefurbished*

Name	Description	Required	Values
			• *CollectibleLikeNew* • *CollectibleVeryGood* • *CollectibleGood* • *CollectibleAcceptable* • *CollectiblePoor* • *RefurbishedWithWarranty* • *Refurbished* • *Club* Type: xs:string
TotalSupplyQuantity	The total item quantity in the Amazon Fulfillment Network supply chain. This includes item quantity currently in an Amazon fulfillment center, item quantity currently in an inbound shipment, and item quantity being transferred between Amazon fulfillment centers in the Amazon Fulfillment Network.	Yes	Type: xs:int
InStockSupplyQuantity	The item quantity available for fulfillment. This does not include item quantity currently in an inbound shipment or item quantity being transferred between Amazon fulfillment centers in the Amazon Fulfillment Network.	Yes	Type: xs:int
EarliestAvailability	The earliest date that your inventory is expected to be available for picking.	No If the value of **TotalSupplyQuantity** is zero, then the **EarliestAvailability** element is not returned.	Type: Timepoint
SupplyDetail	Detailed information about the availability of inventory for a specific item and its current location in the Amazon Fulfillment Network supply chain.	No	Type: List of InventorySupplyDetail

InventorySupplyDetail

Specific information about the availability of inventory for a single SKU, including the number of units that are in an Amazon fulfillment center, in an inbound shipment, or being transferred between Amazon fulfillment centers.

Operations

The InventorySupplyDetail datatype is used in a response element of the following operations:

- ListInventorySupply
- ListInventorySupplyByNextToken

Datatype content

The following table shows the elements of the `InventorySupplyDetail` datatype:

Name	Description	Required	Values
Quantity	The quantity of inventory for a specific item.	Yes	Type: xs:int
SupplyType	The current location, in the Amazon Fulfillment Network supply chain, of inventory for a specific item.	Yes	**SupplyType** values: • *InStock* - Inventory is in an Amazon fulfillment center • *Inbound* - Inventory is in an inbound shipment to an Amazon fulfillment center • *Transfer* - Inventory is being transferred from one Amazon fulfillment center to another **Note:** *InStock* inventory items might not be immediately available for picking. For example, inventory in a reserve location in an Amazon fulfillment center might take up to 12 hours to become available for picking. Type: xs:string
EarliestAvailableToPick	The earliest date that your inventory is expected to be available for picking, in ISO 8601 format.	Yes	Type: Timepoint
LatestAvailableToPick	The latest date that your inventory is expected to be available for picking, in ISO 8601 format.	Yes	Type: Timepoint

Timepoint

Indicates whether inventory is immediately available for picking, whether inventory availability is unknown, or whether inventory is expected to be available for picking by a specific date.

Operations

The `Timepoint` datatype is used in a response element of the following operations:

- ListInventorySupply
- ListInventorySupplyByNextToken

Datatype content

The following table shows the elements of the `Timepoint` datatype:

Name	Description	Required	Values
TimepointType	Indicates whether inventory is immediately available for picking, whether inventory availability is unknown, or whether inventory is expected to be available for picking by a specific date.	Yes	**TimepointType** values: • *Immediately* - The seller's inventory is immediately available for picking. • *DateTime* - The seller's inventory is expected to be available for picking

Name	Description	Required	Values
			at a specific date, represented by the **DateTime** element. • *Unknown* - The seller's inventory is expected to be available for picking at some point in the future, but it is not known with confidence when that will be. Type: xs:string
DateTime	The date and time by which inventory is expected to be available for picking, in ISO 8601 format.	No If the value of the **TimepointType** element is **DateTime**, then the **DateTime** element is required.	If the value of the **TimepointType** element is *Immediately* or *Unknown*, then the value of the **DateTime** element is null. Type: xs:dateTime

Related topics

What you should know about the Fulfillment Inventory API section

Client library updates

The following tables describe the most recent updates to the Fulfillment Inventory API section client libraries:

PHP

Release date	Description
2014-10-20	Fixed the following bugs in the client library: • Added accessors for **ProxyUsername** and **ProxyPassword**. • Corrected the name of the **headers** variable to **$headers**. • Fixed strong-type comparison bug when comparing a string to an integer.
2014-09-30	Added support for the **MWSAuthToken** request parameter.
2013-02-01	Fixed an issue where an exception, thrown as a result of an error message returned by Amazon MWS, could contain incomplete information about the error.

C#

Release date	Description
2014-09-30	Added support for the **MWSAuthToken** request parameter.
2010-10-01	Initial release of the Fulfillment Inventory API section.

Java

Release date	Description
2014-09-30	Added support for the **MWSAuthToken** request parameter.
2012-10-11	Further strengthened the security and reliability of the client libraries.