Amazon Associates Web Service

Developer Guide

API Version 2008-06-26

amazon
web services™

Amazon Associates Web Service: Developer Guide: Formerly known as Amazon E-Commerce Service (ECS)

This book was last updated 2008-07-10.

Table of Contents

What's New

This What's New is associated with the 2008-06-26 version of the Amazon Associates Web Service. This guide was last updated on 2008-07-10.

The following table describes the important changes since the last release of the *Amazon Associates Web Service Developer Guide*.

Change	Description	Release Date
Format change	The URL format of the DetailPageURL has changed.	2008-06-23
New response groups	The `BrowseNodeLookup` operation can now use two new response groups: MostGifted, MostWishedFor. Both of these response groups return up to ten items ranked accordingly, i.e., the ten items sent the greatest number of times as a gift, and the ten items that are on the greatest number of wishlists, respectively.	2008-06-23
Correction	If you set `IsOmitPurchasedItems`=1 in a ListLookup request, items on a wishlist that have been purchased will not be returned in the response. The items omitted, however, were still counted in the total number found. Therefore, with that parameter set, it was not possible to return the number of items reported as the total number found. The value for Total now represents the total found minus those omitted because of the `IsOmitPurchasedItems` parameter.	2008-06-23
New search index in JP	You can now use the Beauty search index in the JP locale. Items in this search index include, for example, cosmetics and hair styling products.	2008-06-23
Add items to registries and wishlists	The Small response group now includes links that enable you to add an item to a customer's Baby Registry, Wedding Registry, and Wishlist. , Wedding Registry, or WishList. The links also enable you to display Tell a Friend, All Reviews, and All Offers. All response groups, such as Medium and Large, that are parents of Small also include these links. This is the first time that the Amazon Associates Web Service has enabled customers to add items to lists, display reviews separately, and recommend items to frieinds.	2008-06-23

Welcome

Topics

- Audience
- How This Guide Is Organized
- Related Resources

This is the *Amazon Associates Web Service Developer Guide*. This section describes who should read this guide, how the guide is organized, and other resources related to Amazon Associates Web Service.

The Amazon Associates Web Service will occasionally be referred to within this guide as simply "AAWS"; all copyrights and legal protections still apply.

Audience

This guide is intended for developers who want to build an e-commerce storefront that sells items listed on www.amazon.com, or an application that helps others build e-commerce storefronts.

Required Knowledge and Skills

Use of this guide assumes you are familiar with the following:

- XML (For an overview, go to the *W3 Schools XML Tutorial*)
- Basic understanding of web services (For an overview, go to the *W3 Schools Web Services Tutorial*)

How This Guide Is Organized

This guide is organized into several major sections described in the following table.

Information	Relevant Sections
Describes the changes in this document since its last publication.	What's New
General information about the Amazon	Introduction to Amazon Associates Web Service

Information	Relevant Sections
Associates Web Service	
Conceptual information about the Amazon Associates Web Service	Terminology and Basic Concepts
Programming Reference--Provides task-oriented descriptions of how to use and implement Amazon Associates Web (Amazon Associates Web Service) operations.	Programming Reference
API Reference--A reference that describes Amazon Associates Web Service operations, response groups, locales, and parameter constraints.	API Reference
Typographic and symbol conventions	Document Conventions

Related Resources

The following table lists related resources that you'll find useful as you work with this service.

Resource	Description
Amazon Associates Web Service Developer Guide	The Developer Guide provides a detailed discussion of the service. It includes an architectural overview, programming reference, and API reference.
Amazon Associates Web Service Release Notes	The Release Notes give a high-level overview of the current release. They specifically note any new features, corrections, and known issues.
AWS Developer Resource Center	A central starting point find documentation, code samples, release notes, and other information to help you build innovative applications with AWS.
Amazon Associates Web Service information	The primary web page for information about Amazon Associates Web Service.
Discussion Forums	A community-based forum for developers to discuss technical questions related to Amazon Web Services.
E-mail address for questions related to your AWS account: `<webservices@amazon.com>`	This e-mail address is *only* for account questions. For technical questions, use the Discussion Forums.

Introduction to the Amazon Associates Web Service

Topics
- Overview of Amazon Associates Web Service
- Architectural Overview of Amazon Associates Web Service

This introduction to Amazon Associates Web Service gives you a detailed summary of this web service. After reading this section, you should have a good idea of what it offers and how it can fit in with your business.

Overview of Amazon Associates Web Service

Amazon has spent over ten years and hundreds of millions of dollars developing a world-class web service that millions of customers use every day. As a developer, you can build Amazon Associates Web Service applications that leverage this robust, scalable, and reliable technology. You get access to much of the data that is used by Amazon, including the items for sale, customer reviews, seller reviews, as well as most of the functionality that you see on www.amazon.com, such as finding items, finding similar items, displaying customer reviews, and product promotions. In short, Amazon Associates Web Service operations open the doors to Amazon's databases so that you can take advantage of Amazon's sophisticated e-commerce data and functionality. Build your own web store to sell Amazon items or your own items.

Best of all, Amazon Associates Web Service is free. By signing up to become a Amazon Associates Web Service developer, you join the tens of thousands of developers who are already realizing financial gains by creating Amazon Associates Web Service-driven applications and web stores. In 2006, Amazon Associates Web Service developers sold well over $600 million worth of items. Would you like a percentage of that revenue?

Business Model

E-commerce is the practice of conducting business over the Internet. This guide explains in detail how you can use Amazon Associates Web Service operations to create storefronts in which you enable Internet customers to search for your items, see pictures of them, find related items, get customer reviews, and purchase items.

With e-commerce, the barrier of distance between the shopper and the store goes away: the local video store must compete with stores across the country. E-commerce levels the playing field: the web site of an individual seller can appear as sophisticated and intoxicating as that of a major retailer. Amazon Associates Web Service is your opportunity to enter the world market where patronage is not limited by the size of your storefront, foot traffic or locality. Welcome to the world of Amazon Associates Web Service e-commerce.

Architectural Overview of Amazon Associates Web Service

How Amazon Associates Web Service works

1	Your application uses the Amazon Associates Web Service to supply item descriptions and images, and customer and seller reviews, which you present to your customers.
2	Customers shop on your web site.
3	When the customer is ready to purchase the items in their e-commerce shopping cart, your application sends an HTML form to Amazon Associates Web Service and Amazon completes the purchase by getting purchase information, such as payment method and shipping address, and then Amazon fulfills the order by shipping the items.

Customer gets a shopping cart and adds items to it   Customer adds or removes items   Customer purchases the items

Programming Guide

The Programming Guide provides task-oriented descriptions of how to use and implement Amazon Associates Web (Amazon Associates Web Service) operations. For a complete description of Amazon Associates Web Service operations, refer to the API Reference.

The following table describes the sections in the programming guide.

Section	Description
Getting Set Up	Describes the tasks you must complete before using Amazon Associates Web Service.
E-Commerce and Web Services	Introduces technologies central to Amazon Associates Web Service, such as e—commerce, WSDL, and schemas.
Amazon Associates Web Service Terminology and Basic Concepts	Introduces terms and concepts central to Amazon Associates Web Service.
Visual Introduction to Amazon Associates Web Service	Introduces Amazon Associates Web Service functionality by visually comparing it to functionality seen on Amazon's retail web site.
Organization of Items for Sale on Amazon	Describes how items are organized in Amazon databases.
Requests	Introduces you to making Amazon Associates Web Service requests and processing Amazon Associates Web Service responses.
Finding Items to Buy	Describes the operations and response groups required to find items to buy.
Motivating Customers to Buy	Describes the operations and response groups required to motivate customers to buy. Topics include displaying images, customer review, and seller reviews.
Returning Price And Availability Information	Describes the operations and response groups required to get pricing and availability information of the items for sale.
Working With Remote	Describes the operations and response groups required to create a shopping

Section	Description
Shopping Carts	cart, add items to it, and modify the number of items in the cart.
Purchasing the Items in a Remote Shopping Cart	Describes the operations and response groups required to purchase the items in a shopping cart.
Tracking Transactions	Describes the operations and response groups required to track the fulfillment of purchases.
Handling Errors and Troubleshooting Applications	Describes errors returned by Amazon Associates Web Service.
Best Programming Practices	Provides programming tips to maximize your Amazon Associates Web Service application's functionality.
Locale Considerations	Addresses locale—specific issues.

Getting Set Up

Topics

- Getting Registered
- Reading Amazon's Licensing Agreement

Before you make your first Amazon Associates Web Service request, there are several preliminary steps you must take to get set up. The following sections explain what to do.

Getting Registered

Topics

- Becoming an Amazon Associates Web Service Developer
- Registering with Amazon Payments
- Becoming an Associate
- Becoming a Seller
- Becoming a Marketplace Pro Merchant
- Becoming an Amazon Advantage Seller

To make money using Amazon Associates Web Service, you need to register to be an Amazon Associates Web Service developer and then register as the kind of vendor you want to be: Associate, seller, or Marketplace Pro Merchant.

Becoming an Amazon Associates Web Service Developer

Topics

- AWS Access Key ID
- Secret Access Key
- AWS Access Key ID Use

All Amazon Associates Web Service developers must register to obtain an AWS Access Key ID.

To register as an Amazon Associates Web Service developer

- Go to http://www.amazon.com/gp/aws/registration/registration-form.html.

  AWS returns an AWS Access Key ID. This ID works in all locales and must be used in all Amazon Associates Web Service requests.

If you are already an Amazon Associates Web Service 4.0 developer and have a Subscription ID, you will be assigned an Access Key ID automatically.

To View Your Access Key ID

1. Go to http://aws.amazon.com.
2. Click the **Your Web Services Account** button.

   Your Access Key ID and Secret Access Key display.

AWS Access Key ID

The AWS Access Key ID is an alphanumeric token distributed by Amazon that uniquely identifies a request sender. This ID must be included in every request using the *AWSAccessKeyId* parameter, as follows.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[Access Key ID]&
Operation=ItemLookup&
ItemId=[ASIN]
```

Note

Before the introduction of the AWS Access Key ID, Amazon Associates Web Service used the Subscription ID for a similar purpose. If you have a Subscription ID, you can use its value with the `AWSAccessKeyId` parameter. You cannot, however, use an AWS Access Key ID with the `SubscriptionId` parameter.

Secret Access Key

A Secret Access Key is a shared secret between you and Amazon. The key identifies you as a request sender and will be used in the future to authenticate requests. Currently, as an Amazon Associates Web Service developer, you have no need to use the Secret Access Key. However, you should carefully guard this key. Never put it into an Amazon Associates Web Service request. Do not use it as the value for your Access Key ID. If you ever suspect that the secrecy of this number has been compromised, email Amazon immediately at webservices@amazon.com and you will be assigned a new Secret Access Key.

There is never a case in which you should share your Secret Access Key, even in an encrypted form.

AWS Access Key ID Use

If you include your AWS Access Key ID in the applications you create and distribute, you must maintain a way of contacting your customers in case your AWS Access Key ID changes. It might

change, for example, if your Secret Access Key is compromised. An alternative strategy is to require your customers to register with Amazon Associates Web Service so that they use their own AWS Access Key ID in their requests.

Registering with Amazon Payments

Any vendor or Associate using Amazon Associates Web Service must register with Amazon Payments. It enables you to receive money from Amazon for items that you sell. This account is similar to a checking account. When a customer purchases one of your items, Amazon charges the customer for the purchase and applies the net profit to your Amazon account. Sellers and Associates are not charged a fee for setting up an Amazon account; Pro Merchants are charged.

To register with Amazon Payments

- Go to http://s1.amazon.com/exec/varzea/register/login/ .

Becoming an Associate

An Associate is someone who uses their web site to refer sales to www.amazon.com. An Associate does not have their own items to sell. Nor are they required to stock or mail items. They act strictly as a middle man.

To become an Associate

1. Register with Amazon Payments .
2. Go to http://associates.amazon.com/exec/panama/associates/apply.

The Associate ID enables you to receive commissions for referring customers to buy from www.amazon.com. This ID works only in the locale in which you register. If you want to be an Associate in more than one locale, you must register in all relevant locales.

For more information about becoming an Associate, refer to one of the following web sites, depending on locale:

Locale	Website
CA	http://www.amazon.ca/associates
DE	http://www.amazon.de/partner
FR	http://www.amazon.fr/partenaires
JP	http://affiliate.amazon.co.jp/gp/associates/join
UK	http://www.amazon.co.uk/associates

Becoming a Seller

After you register, you receive a seller ID. Many Amazon Associates Web Service operations use this ID. For example, `SellerListingLookup` enables you to lookup the items sold by a specified seller. This ID is valid in all locales.

To become a seller

1. Register with Amazon Payments.
2. Go to https://s1.amazon.com/exec/varzea/register/process-login.

Becoming a Marketplace Pro Merchant

A Marketplace Pro Merchant is a vendor that sells their own items in a storefront in the Amazon marketplace.

To learn more about becoming a Marketplace Pro Merchant

1. Register with Amazon Payments.
2. Go to http://s1.amazon.com/exec/varzea/subscription-signup.

The ID you receive after registering is valid in all locales.

Becoming an Amazon Advantage Seller

An Amazon Advantage seller is a vendor that sells their own items but does not have a storefront in the Amazon marketplace.

To learn more about becoming an Amazon Advantage Seller

1. Register with Amazon Payments.
2. Go to one of the following links, depending on your locale:

CA	http://advantage.amazon.com/gp/vendor/public/join
DE	http://www.amazon.de/advantage
FR	http://advantage.amazon.fr/gp/vendor/public
JP	http://advantage.amazon.co.jp/gp/vendor/public/join
UK	http://www.amazon.co.uk/advantage
US	http://www.amazon.com/advantage

Reading Amazon's Licensing Agreement

Topics

- Maximum Request Rate
- Amazon Data
- Do Not Resell the Amazon Associates Web Service API
- Use of Images
- Publicizing Your Use of Amazon Associates Web Service

When you sign up to be an Amazon Associates Web Service developer, you are presented with a licensing agreement, which you can reread at a later time.

To read Amazon's licensing agreement

• Go to http://www.amazon.com/aws-licensing-agreement.

You need to agree to those terms to receive an AWS Access Key ID, which is required in all Amazon Associates Web Service requests. It is important to read the entire document. The following sections highlight a small subset of the licensing terms and conditions. These sections, however, should not be construed as replacing or contradicting the licensing agreement. The licensing agreement is regularly updated. For that reason, you should consult the complete document on the web site mentioned.

Maximum Request Rate

The maximum number of requests that you can make is one per second per IP address. You can make requests every second, every day all year but not at a rate greater than one per second. If you do, you will receive a 503 error that tells you that your application has exceeded the maximum request rate.

Note

In later chapters, you will see how to run batch requests so that one request can actually execute multiple requests.

Amazon Data

If you store data from Amazon on your server, you must refresh the data periodically.

You may store the following Amazon item attributes for up to 1 month: URL, ASIN, Product Name, Catalog, Artists, Authors, MPN, Starring, ISBN, Directors, Manufacturer, Media Distributor, Release Date, Publisher, Num Media, UPC, Reading Level, Theatrical Release Date, Platforms, MpaaRating, EsrbRating, AgeGroup, and Encoding.

If you display pricing or availability information on or within your application, you must refresh the information by making a call to Amazon Web Services at least once every 24 hours and re-display the information and refresh your Applications contents immediately after the call.

Additionally, you must include the following disclaimer either adjacent to the pricing or availability information, or provide it via a hyperlink, pop up box, scripted pop up, or other similar method: "Price is accurate as of the date/time indicated. Prices and product availability are subject to change. Any price displayed on the Amazon web site at the time of purchase will govern the sale of this product."

Do Not Resell the Amazon Associates Web Service API

You may not sell, resell, redistribute, sub license or transfer all or any portion of the Amazon Properties, or Applications that are built using Amazon Amazon Associates Web Service. If you wish to sell, resell, redistribute, sub license or transfer any Amazon Properties in connection with your Application (including displaying the Amazon Properties in connection with an Application for which you are charging a fee), or Applications that are built using Amazon Amazon Associates Web Service you must contact Amazon at aws@amazon.com for approval.

Use of Images

Amazon may make available to you certain small graphic images, trademarks, trade names, service marks or logos owned or licensed by Amazon or its affiliates ("Marks") that you may use in conjunction with the display of the Amazon Properties and for the purpose of indicating that your Application was created using Amazon Web Services. You may not use the Marks in any manner that disparages Amazon, its affiliates or its licensors, or that otherwise dilutes the Mark. Other than your limited right to use the Marks as provided in this Agreement, Amazon, its affiliates and their licensors retain all right, title and interest in and to the Marks.

For more information on using Amazon logos, go to http://developer.amazonwebservices.com/connect/entry.jspa?externalID=385#logoprogram.

Publicizing Your Use of Amazon Associates Web Service

You may generally publicize your use of Amazon Web Services, however you may not issue any press release with respect to Amazon Web Services or the Amazon Associates Web Service Agreement without Amazon's prior written consent.

E-Commerce and Web Services

Topics

- What is E-Commerce?
- What is a Web Service?
- What is XML?
- What is a WSDL?
- What is a Schema?

This chapter is for readers who are new to the concepts of e-commerce and web services. If you are familiar with these topics, proceed to the next chapter.

This chapter provides an overview of e-commerce, web services and associated technologies.

What is E-Commerce?

E-commerce (Electronic Commerce) is the practice of using computers to buy, sell, and market goods and services across a network, such as the Internet.

This book assumes that you have at least some familiarity with buying or selling items over the Internet. If this is not the case for you, go to www.amazon.com, find an item to buy and proceed a few steps into the purchase procedure. For a basic understanding of e-commerce, go to www.amazon.com.

In Amazon Associates Web Service, e-commerce is facilitated by web services.

What is a Web Service?

This book assumes that you are familiar with the notion of using your computer (the client) to request that some other computer (the server's) perform some task and respond over the Internet. The work a server does is called a service. The service might be returning a weather forecast, or, in the case of Amazon Associates Web Service, returning information about items for sale on Amazon. Some of these request and response interactions over the Internet are considered web services provided by a web server.

A web service is any piece of software that uses REST and/or a standardized XML messaging system, described by a WSDL (Web Service Definition Language) (pronounced "wiz-dal"), to exchange data

between applications or systems. A web service must have some simple mechanism for interested parties to locate the service and its public interface using standard network protocols, such as, but not limited to, SOAP over HTTP. Software applications written in various programming languages and running on various platforms can use web services transparently to exchange data over computer networks, like the Internet, because the WSDL serves as the definition of the language used by the computers.

In Amazon Associates Web Service:

* Requests and responses occur across the Internet
* Client and server use REST, SOAP, or XML as the means of communication
* Client and server agree on the grammar and syntax used in the requests and responses by specifying a WSDL
* Requests and responses are not tied to a single operating system or programming language.

A simple example is an Amazon Associates Web Service request is one that uses the operation, `ItemSearch` . This request asks Amazon's web servers to find descriptions of items in its data bases. The web servers carry out their service by finding the item descriptions and then sending those back to the requester.

All Amazon Associates Web Service requests are based on REST or SOAP and all of the responses are based on XML.

Note

For more information about REST, see REST Requests.

What is XML?

XML (Extensible Markup Language) is a standard defined by the World Wide Web Consortium (W3C). XML uses tags (identifiers enclosed in brackets, for example, <para>) to label content in text documents. These tags, collectively called the "markup," can be read by humans and computers. XML tags, like SGML tags, encode not only the meaning of the content but also its structure.

XML looks like HTML but XML has nothing to do with the display of the content, which is the central focus of HTML. The following XML tags label the content they enclose as a paragraph.

```
<para>This is a paragraph.</para>
```

The <para> tag has nothing to do with the display of the sentence. The tag, for example, does not take attributes such as font, size, or style.

Unlike HTML, there is not a single set of tags used in all XML documents. XML enables designers to create their own set of tags that are appropriate to their business. For example, Amazon Associates Web Service encodes its APIs using an XML document called a WSDL. Other companies create their own XML tags to define their APIs. The tags in these two WSDLs most likely would be completely different. The syntax and rules by which the XML elements are defined in the WSDL, however, are the same. Because a web server handles multiple requests that implement multiple WSDLs, each request must specify the WSDL it is using..

XML Syntax

XML tools enforce XML syntax. XML syntax is very similar to HTML syntax, except, like XHTML, the syntax is strictly enforced. The syntax is:

- Tags are enclosed within angle brackets, for example, <para>
- Opening tags must be paired with closing tags, for example, <para>Sentence</para>
- Opening and closing tags must be nested correctly, for example, the following example is well formed

```
<note><para>Sentence</para></note>
```

The following example is not well formed

```
<note><para>Sentence</note></para>
```

If these syntax rules are followed, the XML document is said to be well formed. That does not mean, however, that the tags in the XML document are necessarily the ones defined in the associated WSDL. If, for example, the WSDL defines <para>, an XML document that uses <Para> would cause an error because "Para" is not defined in the WSDL. When an XML document is well formed and the tags it uses conform to tags defined in the WSDL, the document is said to be valid. Amazon Associates Web Service responses always contain valid XML.

XML Structures

Some data in XML documents are one dimensional, for example, <para>Sentence</para>. Some data, however, is structured, as shown in the following XML snippet.

```
<SubTotal>
  <Amount>2998</Amount>
  <CurrencyCode>USD</CurrencyCode>
  <FormattedPrice>$29.98</FormattedPrice>
</SubTotal>
```

This example shows that the subtotal is comprised of three pieces of data: *Amount*, *CurrencyCode*, and *FormattedPrice*. The example also shows that there can be a hierarchy of tags. In this example, Amount is a child tag of Subtotal. These structures represent arrays of values.

Using XML

So, what do you do with the XML response? The good news is that Amazon Associates Web Service returns a well-defined set of tags for each kind of request. That means that you can use parsing mechanisms to pull out of the XML responses the data that you would like to submit in a second request, or, display on a web page. For instance, in the preceding example, you might parse the XML document to find FormattedPrice so that you could display the $29.98 on a web page that shows an item for sale.

XML is not only used to create requests and responses, it is also used to create a WSDL, which defines the XML tags.

What is a WSDL?

Topics
- Restricted Parts of the WSDL
- Anatomy of a WSDL
- WSDL Locations

The goal of this section is to give you enough information so that you can read and use the Amazon Associates Web Service WSDL. You typically read a WSDL to understand value types, operation definitions, and request and response formats.

A WSDL (Web Service Description Language) is an XML document that defines the operations, parameters, requests, and responses used in web service interactions. You can think of a WSDL as the contract that defines the language and grammar used by web service clients and servers. When you look at the Amazon Associates Web Service WSDL, for example, you find in it all of the Amazon Associates Web Service operation names, parameters, request and response structures.

There is not a single WSDL. Amazon Associates Web Service, for example, has many different versions of its WSDL—the latest one and all of its previous versions. Not only can one company use different versions of a WSDL, every company can use its own WSDL based on its own APIs or business metrics. For that reason, web service requests must identify the WSDL they use so the web servers know how to interpret the requests.

In practice, Amazon Associates Web Service developers use the same version of the Amazon Associates Web Service WSDL in every request in a session. Over time, they might send requests to the latest Amazon Associates Web Service WSDL. The Amazon Associates Web Service WSDL is upgraded regularly.

Restricted Parts of the WSDL

The WSDL defines all Amazon Associates Web Service operation requests and responses. The majority of the WSDL is generic. There are, however, some small portions of the WSDL that are partner specific. That is, the use of some Amazon Associates Web Service operations is restricted to specific Amazon partners. Those operations are marked as restricted by a notation similar to the following.

```
<xs:element name="ECSVehiclePartSearch" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:appinfo>
      <aws-se:restricted>
        <aws-se:excludeFrom>public</aws-se:excludeFrom>
        <aws-se:excludeFrom>partner</aws-se:excludeFrom>
      </aws-se:restricted>
    </xs:appinfo>
  </xs:annotation>
```

If you try to use a restricted operation and you are not the Amazon partner, Amazon Associates Web Service returns an error message.

Anatomy of a WSDL

Topics

- Definitions
- Request Definitions
- Response Definitions
- Binding
- Service

Typically, the Binding and Service segments do not change from one WSDL release to the next. In the Definitions segment, only the WSDL version changes. For that reason, when you read a WSDL, you will typically spend most of your time reading the Request and Response Definitions segments.

Definitions

Topics

- Namespaces
- Versioning

The Definitions section of the WSDL defines the namespaces used throughout the WSDL, and the name of the service, as shown in the following snippet of the Amazon Associates Web Service WSDL.

```
<?xml version="1.0" encoding="UTF-8" ?>
<definitions
  xmlns="http://schemas.xmlsoap.org/wsdl/"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:tns="http://ecs.amazonaws.com/
  AWSECommerceService/2006-09-13"
  targetNamespace="http://ecs.amazonaws.com/
  AWSECommerceService/2006-09-13">
```

This example shows that the:

- Default namespace is xmlns="http://schemas.xmlsoap.org/wsdl/"
- SOAP namespace used is xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
- Schema used is xmlns:xs="http://www.w3.org/2001/XMLSchema"
- Amazon Associates Web Service WSDL namespace is "http://ecs.amazonaws.com/AWSECommerceService/2006-09-13"

  The date at the end is the version number. It is the date the WSDL became public.

- TargetNamespace is "http://ecs.amazonaws.com/AWSECommerceService/2006-09-13"

  The TargetNamespace is an XML schema convention that enables the WSDL to refer to itself (as the target). The TargetNamespace value is the Amazon Associates Web Service WSDL namespace

Namespaces

Namespaces are collections of parameters and operations in which their names are unique. The advantage of using namespaces is that the WSDL can define terms, like string, just by referring it its namespace, xs. Also, prepending the namespace to a parameter ensures that there is no danger of name collisions.

Each namespace declaration starts with "xmlns:" (XML namespace:) and is followed by the abbreviation for the namespace. For example, in the following namespace declaration, xs becomes the abbreviation for the URL of the schema.

```
xmlns:xs="http://www.w3.org/2001/XMLSchema"
```

Throughout the remainder of the WSDL you will see parameters defined in terms of namespace abbreviations, for example:

```
type="xs:string"
ref="tns:HTTPHeaders"
```

These abbreviations provide the namespace in which the parameters are defined.

Versioning

Amazon Associates Web Service enables you to specify the version of the WSDL you want to use. This functionality ensures that future enhancements and changes to Amazon Associates Web Service WSDLs will not be intrusive to your applications. For example, when Amazon Associates Web Service adds new elements to its WSDL, applications that validate against an older Amazon Associates Web Service WSDLs will not be affected.

Amazon Associates Web Service WSDL version names are based on the date that they become active.

The version of the WSDL is specified in the Amazon Associates Web Service WSDL namespace declaration. In the preceding example, the version of the WSDL is 2006-09-13.

```
xmlns:tns="http://ecs.amazonaws.com/
  AWSECommerceService/2006-09-13"
```

In reality, the date, here, is the WSDL's file name.

The *AWSECommerceService* directory contains all of the Amazon Associates Web Service WSDL versions. You use the *Version* parameter in REST requests to specify the version of the WSDL you want to use. The default version is 2005-10-05. If you want to use a different WSDL version, including the latest, you must specify it in each request, for example, in REST.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService
&AWSAccessKeyId=[AWS Access Key ID]
&Operation=ItemSearch&
SearchIndex=Books&
Author=Steve%20Davenport&
Version=2006-09-13
```

Note

This version of the *Amazon Associates Web Developer Guide* describes all of the functionality of the WSDL as of the guide's publication date. To read about older WSDLs, including the default WSDL, refer to the older versions of this guide listed in the AWS Resource Center. Go to http://aws.amazon.com/resources.

SOAP requests always specify a namespace, which includes the WSDL version. To avoid problems due to future WSDL changes, be sure to specify a WSDL version in your SOAP application.

Request Definitions

The Request Definitions segment of the WSDL defines Amazon Associates Web Service operation requests, as shown in the following WSDL snippet.

```
<xs:complexType name="ItemSearchRequest">
  <xs:sequence>
  <xs:element name="Actor" type="xs:string" minOccurs="0" />
  <xs:element name="Artist" type="xs:string" minOccurs="0" />
  <xs:element name="Availability" minOccurs="0">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="Available" />
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element ref="tns:AudienceRating" minOccurs="0" maxOccurs="unbounded" />
```

This snippet shows some of `ItemSearch` 's input parameters, including *Actor*, *Artist*, *Availability*, and *AudienceRating*. The element declarations specify that these parameters are valid in an `ItemSearch` request. Most of the parameters in this example are strings. The type of one, however, *Availability*, is a variation on the base class, string. In this case, the variation puts a restriction on the strings that can be valid values for *Availability*. For that reason, the restriction keyword is used. The restriction is that the valid values for *Availability* are defined by an enumeration. The enumeration, however, has only one valid value, "Available," which means that the parameter, *Availability* can be set to only one value.

minOccurs refers to the minimum number of times the parameter must appear in an ItemSearch request. If the value is zero, the associated parameter is optional. If the value is 1, the associated parameter is required to be included once in every request involving that operation. The default value is 1, that is, if *minOccurs* is not included in an element declaration, *minOccurs* is 1.

maxOccurs defines the maximum number of times the parameter can appear in a request. The default is 1, that is, if *maxOccurs* is not included in an element declaration, *maxOccurs* is 1 and the parameter can only appear once in a request. In the preceding example, *maxOccurs* is "unbounded," which means that the *AudienceRating* parameter can appear any number of times in an ItemSearch request.

In the preceding example, the parameter types are declared to be simpleTypes. A simple type cannot have child elements or attributes. Complex types can. In practice, any parameter that can take multiple values, such as an array, must be defined as a complex type.

The following snippet shows an example of a complex type.

```
<xs:element name="
            ItemSearch
          ">
  <xs:complexType>
  <xs:sequence>
    <xs:element name="MarketplaceDomain" type="xs:string" minOccurs="0" />
    <xs:element name="AWSAccessKeyId" type="xs:string" minOccurs="0" />
    <xs:element name="SubscriptionId" type="xs:string" minOccurs="0" />
```

This definition snippet shows three of the parameters that can be part of an ItemSearch request.

Response Definitions

The response section defines the responses returned by default by each operation. The following snippet shows some of the specifications of an ItemSearch response.

```
<xs:element name="ItemSearchResponse">
  <xs:complexType>
    <xs:sequence>
    <xs:element ref="tns:OperationRequest" minOccurs="0" />
    <xs:element ref="tns:Items" minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

The response section shows that an ItemSearch response contains two optional (*minOccurs*=0) elements, *OperationRequest* and Items. Both of these elements are references (*ref=*), which means that they are defined further down in the WSDL.

Further down in the WSDL, *OperationRequest* is defined, as follows.

```
<xs:element name="OperationRequest">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="tns:HTTPHeaders" minOccurs="0" />
      <xs:element name="RequestId" type="xs:string" minOccurs="0" />
      <xs:element ref="tns:Arguments" minOccurs="0" />
      <xs:element ref="tns:Errors" minOccurs="0" />
      <xs:element name="RequestProcessingTime" type="xs:float" minOccurs="0"
maxOccurs="1" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

This definition also contains several references. One is *Arguments*, which is defined further down in the WSDL. To fully understand the definition of the parts of a request, you keep digging down through

the layers of refs. You know that you have reached the end of the definition hierarchy when you no longer have "ref" in the element's definition. Instead, the element definition will have a "name," the name of the element, and "type," which specifies the element's type. The type will be a base type, such as, string, which is defined in the schema (xs:), for example:

```
<xs:element name="RequestId" type="xs:string" minOccurs="0" />
```

This line defines *RequestId* to be of type string, which is defined by the W3C schema.

When you look at a sample response, shown in the following example, you can see how the definition of *RequestId* is carried out.

```
<ItemSearchResponse xmlns="
http://ecs.amazonaws.com/AWSECommerceService/2006-09-13">
...
  <OperationRequest>
  ...
    <RequestId>0VFY0HFBRTJGRE6KES74</RequestId>
```

First, you see that the value for *RequestId* is string. Secondly, the name of the element is *RequestId*. Third, you can see, in the XML hierarchy, how the definition of *RequestId* is nested inside the *OperationRequest* element, which is nested inside of *ItermSearchResponse*. Remember, it was the "ref" keyword that created the nesting in the WSDL.

Response Group Definitions

Response groups, except in the case of a request error, always form part of a response. Each response group is defined in the WSDL. The following snippet from the WSDL shows the definition of the Images response group.

```
<xs:complexType name="Image">
  <xs:sequence>
    <xs:element name="URL" type="xs:string" />
    <xs:element name="Height" type="tns:DecimalWithUnits" />
    <xs:element name="Width" type="tns:DecimalWithUnits" />
    <xs:element name="IsVerified" type="xs:string" minOccurs="0" />
  </xs:sequence>
  </xs:complexType>
```

As you can see, the Image response group returns the elements *URL*, *Height* (height of the image), *Width*, and *IsVerified*. All are required in the response except *IsVerified*, which is optional (*minOccurs*=0). You can see how these elements are displayed in a response.

```
<MediumImage>
  <URL>http://ec1.images-amazon.com/images/P/
    B00005TNFV.01._SCMZZZZZZZ_.jpg</URL>
  <Height Units="pixels">140</Height>
  <Width Units="pixels">99</Width>
```

This example shows how *URL*, *Height*, and *Width* are child elements.

PortType

The association between operation names and their request and response definitions is created by the PortType element in the WSDL, for example:

```
<portType name="AWSECommerceServicePortType">
...
  <operation name="ItemSearch">
    <input message="tns:ItemSearchRequestMsg" />
    <output message="tns:ItemSearchResponseMsg" />
  </operation>
```

In this example, the operation, ItemSearch, is associated with its request and response definitions, *ItemSearchRequestMsg* and *ItemSearchResponseMsg*. The keywords, input and output, identify the operation's request and response definitions, respectively.

Binding

The binding segment of the WSDL specifies how operation requests and responses, defined in *PortType*, are actually transmitted over the wire using underlying transport protocols. While this is an interesting portion of the WSDL, it is a section that rarely changes so you need not pay much attention to it.

Binding values include HTTP GET, HTTP POST, and SOAP. SOAP is not tied to a specific transport. SMTP, FTP, HTTP are just some of the options that can transport a SOAP request. HTTP, however, is most commonly used. While both HTTP GET and HTTP POST are allowed, HTTP POST is preferred because many servers place character limits on HTTP GET requests.

Amazon Associates Web Service uses SOAP, as shown in the following Amazon Associates Web Service WSDL snippet.

```
<binding name="AWSECommerceServiceBinding"
  type="tns:AWSECommerceServicePortType">
...
  <operation name="ItemSearch">
    <soap:operation soapAction="http://soap.amazon.com" />
    <input>
      <soap:body use="literal" />
    </input>
    <output>
      <soap:body use="literal" />
    </output>
  </operation>
```

This binding shows that Amazon Associates Web Service uses two SOAP extensions: soap:operation and soap:body.

The soap:operation element specifies that the Amazon Associates Web Service operation, ItemSearch, in this case, is bound to a specific SOAP implementation. The soapAction attribute specifies that the SOAPAction HTTP header is used to identify the Amazon Associates Web Service service, which is the URI value of soapAction, http://soap.amazon.com.. soapAction enables Amazon web servers to determine the intent of the SOAP request without having to examine the message portion of the SOAP payload. Specifying this URI is required to access Amazon Associates Web Service web servers.

The soap:body element specifies the input and output details. The value in the Amazon Associates Web Service WSDL is "literal," which means that instead of encoding the input and output as a SOAP struct, a literal XML document is used. You have seen that Amazon Associates Web Service responses are XML documents.

Service

The Service segment of the WSDL specifies the web service used, which, in this case, is Amazon Associates Web Service, as shown in the following WSDL snippet:

```
<service name="AWSECommerceService">
  <port name="AWSECommerceServicePort"
    binding="tns:AWSECommerceServiceBinding">
    <soap:address location= "http://soap.amazon.com/onca/soap?Service=
AWSECommerceService" />
  </port>
</service>
```

This information changes very rarely and so you need not pay much attention to it.

Every Amazon Associates Web Service request includes this service declaration, for example,

```
http://ecs.amazonaws.comonca/xml?
Service=AWSECommerceService&
Operation=ItemSearch&
SearchIndex=Books&
Keywords=Saving%20Miss%20Oliver's
```

WSDL Locations

Amazon Associates Web Service publishes its API through its WSDL. WSDL documents are available by version and by locale. The following table shows the location of the latest Amazon Associates Web Service WSDL by locale. These URIs can be used in SOAP requests.

Locale	URL
US	http://ecs.amazonaws.com/AWSECommerceService/2008-06-26/AWSECommerceService.wsdl
UK	http://ecs.amazonaws.com/AWSECommerceService/2008-06-26/UK/AWSECommerceService.wsdl
DE	http://ecs.amazonaws.com/AWSECommerceService/2008-06-26/DE/AWSECommerceService.wsdl
JP	http://ecs.amazonaws.com/AWSECommerceService/2008-06-26/JP/AWSECommerceService.wsdl
FR	http://ecs.amazonaws.com/AWSECommerceService/2008-06-26/FR/AWSECommerceService.wsdl
CA	http://ecs.amazonaws.com/AWSECommerceService/2008-06-26/CA/AWSECommerceService.wsdl

To access an older WSDL

- Insert the WSDL version between the last two path elements

  For example, to retrieve the 2006-06-28 WSDL, use the following URI:
  `http://ecs.amazonaws.com/AWSECommerceService/2006-06-28/AWSECommerceService.wsdl.`
  If a version is omitted, the latest WSDL is returned by default.

The specification in this example would be for the 2006-06-28 version of the US WSDL. For the WSDL used in a different locale, insert the locale name after the version number. For example, to retrieve the 2006-06-28 JP WSDL, use the following URL:

```
ht
tp://ecs.amazonaws.com/AWSECommerceService/2006-06-28/JP/AWSECommerceService.
wsdl
```

If a locale is omitted, the US WSDL is used by default.

What is a Schema?

A schema is similar to a WSDL in that both are XML documents. Whereas the WSDL defines the web service language used by computers to converse, the schema defines the data types used in the WSDL.

You do not have to create schemas to use Amazon Associates Web Service. Those have already been created. It is helpful, however, to understand schemas so that you can determine the data types returned in responses.

The W3C defines the base data types, which include, for example, int, string, and float. While these data types are useful, they are not very descriptive. For example, defining every occurrence of text in an XML document as being of type string hides the differences between text that is, for example, a paragraph and a note. In such an application where paragraphs and notes are used, a schema would contain an extension of the string base class so that paragraph (<para>) and note (<note>) could be used as tags in XML documents.

Schemas enable you to create your own data types for the purpose of identifying the content in an XML document. All data types that you create must be based on the base data types defined by the W3C. This is the schema namespace defined in the WSDL example:

```
xmlns:xs="http://www.w3.org/2001/XMLSchema"
```

The data types that can be created are either simple or complex. Complex types can have sub elements and attributes; simple types cannot.

In the WSDL section of this chapter, you saw that complex types are declared as complexType. In the following example, the element, SearchBinSet, is defined as having two child elements, Bin and NarrowBy.

```
<xs:element name="SearchBinSet">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="tns:Bin" minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
    <xs:attribute name="NarrowBy" type="xs:string" use="required" />
  </xs:complexType>
</xs:element>
```

The NarrowBy attribute is defined in terms of a base type, string. The Bin parameter, however, is not. That means that Bin is defined elsewhere in the schema. Schema syntax, like WSDL syntax, calls for using the keyword "ref" if the element is defined elsewhere in a schema.

The next step in understanding Bin would be to see its definition in the schema. It might be that all of Bin's sub elements are defined by base types. In that case, the research would be over; you would have the full definition of SearchBinSet and it's child elements. If, however, Bin contains more "ref's," you would repeat the search for the child elements until you reached element type definitions that used base types, such as,

```
name="BinItemCount" type="xs:string"
```

Schema Locations

Amazon Associates Web Service provides schemas for validating the XML in SOAP requests and for specifying item attribute types in responses. XML schemas are available by version and by locale. The following table shows the location of the latest Amazon Associates Web Service XML schema, by locale.

Locale	URL
US	http://ecs.amazonaws.com/AWSECommerceService/AWSECommerceService.xsd
UK	http://ecs.amazonaws.com/AWSECommerceService/UK/AWSECommerceService.xsd
DE	http://ecs.amazonaws.com/AWSECommerceService/DE/AWSECommerceService.xsd
JP	http://ecs.amazonaws.com/AWSECommerceService/JP/AWSECommerceService.xsd
FR	http://ecs.amazonaws.com/AWSECommerceService/FR/AWSECommerceService.xsd

Locale	URL
CA	http://ecs.amazonaws.com/AWSECommerceService/CA/AWSECommerceService.xsd

To access an older schema

*   Insert the schema version between the last two path elements.

    For example, to retrieve the 2006-06-28 schema, use the following URI:
    `http://ecs.amazonaws.com/AWSECommerceService/2006-06-28/AWSECommerceService.xsd`.
    This specification would be for the 2006-06-28 version of the US schema. For the schema used in a
    different locale, insert the locale name after the version number. For example, to retrieve the
    2006-06-28 JP schema, use the following URI:
    `http://ecs.amazonaws.com/AWSECommerceService/2006-06-28/JP/AWSECommerceService.xsd`
    If the locale is omitted, the US schema is used by default.

Amazon Associates Web Service Terminology and Basic Concepts

Topics

This chapter introduces you to Amazon Associates Web Service terminology and concepts. Many of the
concepts introduced in this chapter are explored in greater depth in later chapters. The concepts are
briefly presented here so that you have a broad understanding of Amazon Associates Web Service and
have a context in which you can place the specifics that are presented in later chapters.

The Marketplace

Amazon started in a two-bedroom house in Seattle. The location was chosen because of its proximity to
Ingram, a book wholesaler and because of the wealth of talented programmers in the area. In the garage
of that house, Jeff Bezos, the CEO of Amazon, stockpiled books and set up three Sun Microsystems
computers to take book orders online. In 1995, Jeff opened his online bookstore to the public. At that
time, there was only one kind of seller, in fact, there was only one seller, Jeff . He only sold one type of
product: books. Soon after the start of Amazon, the garage became too small to run the business.

Since 1995, the number of sellers has grown, the types of sellers have grown, and the product offerings
have grown. All of these sellers come together to sell their items on www.amazon.com, in what is called
the "marketplace."

Individual sellers cannot have their own storefront in the marketplace. Pro Merchant Sellers and Merchant@ vendors can. Individual sellers can, however, set up their own storefronts outside of the marketplace. These storefronts can be accessed through www.amazon.com. Amazon refers to these stores as zShops.

Amazon Associates Web Service requests cannot access zShops. This usually has little impact on product searches because zShop owners can also list their items for sale in the Amazon marketplace.

What Is the Amazon Associates Web Service?

The Amazon Associates Web Service gives you much of the functionality that you see in action on Amazon's retail web site, *http://www.amazon.com*. That functionality includes:

- Finding items to buy.

  These items are for sale by Amazon or other merchants.

- Finding information about those items.

  This item information includes such things as the titles of tracks on a CD, the rating of a movie, the kind of metal used in a piece of jewelry, accessories that go with an item, the author of a book, or the composer of a piece of music.

- Getting customer reviews of items.

  Show customers what others think about the items on sale.

- Create a fully-functional shopping cart.

  Add items that are immediately available or ones that will become available in the future, such as in a pre-sale of a book.

- Adding, removing, and otherwise modifying the items in the shopping cart.

  Have full control over the contents of their shopping cart.

- Getting information about the company selling the item.

  Show customers what others think about the merchant selling the item.

- Finding similar items for sale.

  Generate additional sales by suggesting other items similar to the ones the customers are buying.

- Purchasing the items in the shopping cart.

  Once the customer decides to buy the contents in their shopping cart, Amazon takes care of the shipping, payment, and order fulfillment, or notifies you to take care of the same.

- Find items on a friend's wishlist, wedding registry or baby registry and purchase those items.

Amazon Associates Web Service offers you the tools to create a complete, rich online shopping experience for customers.

How Do I Make Money Using Amazon Associates Web Service?

You can use Amazon Associates Web Service to make money for you in the following ways:

- Sell your items using an Amazon Associates Web Service-driven web site
- Put links on your web site that enable customers to purchase items for sale on Amazon
- Create utilities that enable other developers to become sellers or Associates

For more information about sellers, see Sellers. For more information about Associates, see Associates.

International Locales

Amazon Associates Web Service hosts multiple locales so that developers around the world can take advantage of Amazon's multi-language support. Each locale uses the language, customs, and formats, such as date, time, and money formats, particular to that locale. You can see how this plays out by viewing the homepages for Amazon's different locales:

- Canada—www.amazon.ca
- Germany—www.amazon.de
- France—www.amazon.fr
- Japan—www.amazon.co.jp
- UK—www.amazon.co.uk
- US—www.amazon.com

Vendors on Amazon

Topics
- Associates
- Sellers
- Merchants

Amazon has, over time, added many different kinds of vendors for different reasons. Some vendors were invited to become part of Amazon to increase the breadth of products offered. These vendor types are called Merchants@. Other vendor types were added, essentially, as middlemen to increase the sale of items on www.amazon.com. These vendor types are called Associates.

The accumulation of all of these types of vendors has made the picture a little complex and the terminology for those vendors a bit tricky.

This section describes all of the vendor types on Amazon. This information is important for several reasons. First, you might want to become a vendor on Amazon. This section will help you decide which type of vendor to become. Second, the terms used for vendors, such as "sellers" and "merchants" are used liberally in the Amazon Associates Web Service API. Understanding the vendor types will help you understand the purpose of the Amazon Associates Web Service operations and help you interpret the results.

On a high level, vendors can be divided into three groups, as shown in the following figure.

These vendors are differentiated in the following ways:

Vendors

- **Associates**—Individuals or companies that do not sell their own items
  Instead, they earn sales commissions by using their own web site to persuade customers to buy items that are for sale on.
- **Sellers**—Individuals or companies that sell their own items
  Most, but not all of these sellers warehouse their inventory and fulfill their purchase orders.
- **Merchants**—Companies invited by Amazon to sell their items through *www.amazon.com*.
  These companies warehouse their own inventory and fulfill their purchase orders. Amazon, itself, is a merchant. An individual or company cannot apply to become a merchant. They can, however, apply to be a Seller.

Keep in mind that anyone can become one of the vendors on the left half of the circle. That is not the case with the right half of the circle. To become an Associate or one of the sellers, see the chapter, see Getting Set Up or the *Amazon Associates Web Service Getting Started Guide*.

The picture gets a little more complicated and the terms get a bit more convoluted when different types of sellers and merchants are added.
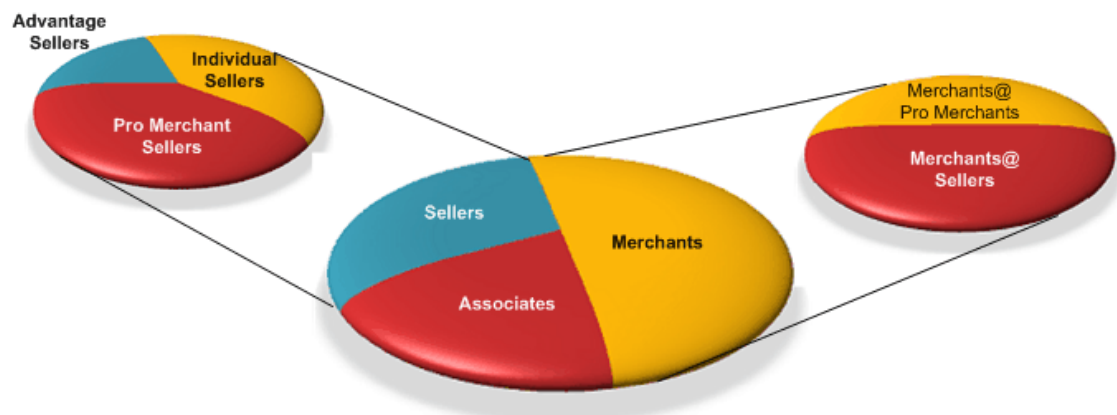
The following sections explain in detail all of these vendor types. Amazon Associates Web Service is able to access the items sold by all of these vendors.

Associates

Topics

- Compensation Details

An Associate advertises items sold by Amazon and the Associate puts links on their web site that enable customers to purchase those items. When the customer uses that link to purchase an item, the Associate receives a commission varying from 4% to 8.5% of the sales price.

Being an Associate is an interesting business proposition. As an Associate, you don't have to own any items, warehouse items, package and mail the items, or handle the purchase and order conformation messages. You don't even have to pay to be an Associate. All you have to do is build a web site that refers customers to Amazon.

In the Amazon Associates Web Service API, the *AssociateTag*. parameter holds the Associate's ID. You get this ID after signing up to become an Associate, which is explained in see Getting Set Up. Putting your Associate ID in Amazon Associates Web Service cart requests ensures that you receive a commission for your referrals.

Compensation Details

Referral fees are paid on a quarterly basis. Approximately thirty days following the end of each calendar quarter, Amazon either:

- Sends you a check for the referral fees earned
- Sends you a gift certificate good for purchase of Products through the www.amazon.com, subject to our standard terms or conditions
- Deposits the referral fees earned directly into your bank account

Amazon offers Associates a choice between two compensation plans, the Classic Fee Structure and the Performance Fee Structure. Associates may select either structure at any time during the quarter. The deadline for making a selection is 11:59 PM (Pacific Time) on the last day of the quarter. At the end of the quarter, your most recent selection will be used to calculate your fees for the whole quarter. You will remain enrolled in the plan for the following quarter unless you choose otherwise. New Associates are automatically be enrolled in the Performance Fee Structure plan.

The following sections describe each compensation plan. For a full description of the terms and conditions of being an Associate, go to *http://affiliate-program.amazon.com/gp/associates/agreement*.

Performance Fee Structure Plan

The Performance structure enables you to earn referral fees that are commensurate with the volume of referrals you generate. The higher your referrals, the greater your earnings. The only exception to that rule is the sale of computers, both laptop and desktop. Those referral fees are always 4%.

Under the Performance Fee Structure, the referral rate ranges from 4% to 8.5%. The rate is based on the total number of shipped items during a quarter from both Amazon and third-party sellers. The same rate applies equally to Amazon and third-party items. The following table shows how the rates change by the volume of referrals. Note that these fees can change without notice.

Total Items Shipped	Referral Fee Rate
1-20	4.00%
21-90	6.00%

Total Items Shipped	Referral Fee Rate
91-330	6.50%
331-940	7.00%
941-1880	7.50%
1881-4700	8.00%
4700-9400	8.25%
9401+	8.5%

Classic Fee Structure Plan

The Classic Fee Structure plan uses a fixed referral rate. Associates earn a 4% referral fee on items offered by Amazon or by third parties. The only exception are the sales of computers, both laptop and desktop. Those referral fees are capped at $25. No other product lines have their referral fees capped.

Sellers

Topics
- Amazon Advantage Sellers
- Individual and Pro Merchant Sellers
- Individual Sellers
- Pro Merchant Sellers

Sellers are individuals or companies that sell their own items. For most sellers, the items they sell must already be for sale on Amazon. The exception is the Amazon Advantage seller, who sells items that are not on Amazon.

There are three categories of sellers, as shown in the following figure.
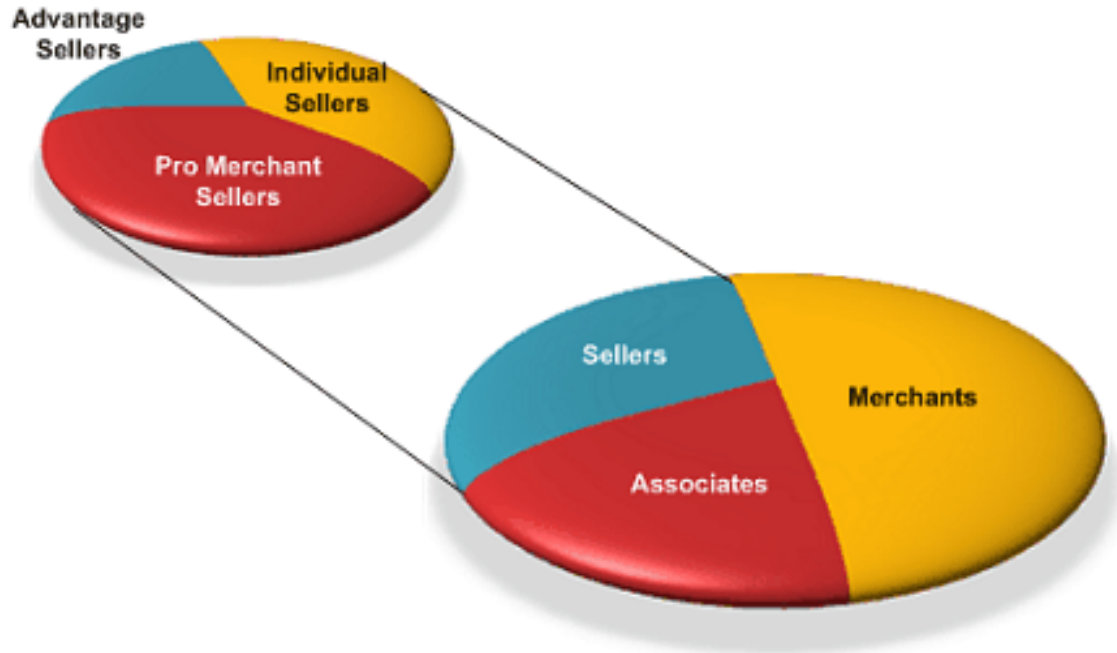
The following sections describe each seller type.

Amazon Advantage Sellers

Amazon Advantage sellers partner with Amazon to sell their items. These sellers are individuals or manufacturers that are selling items that are not sold by Amazon. For example, if you are an author, you might want to advertise your book to the millions of registered Amazon customers.

Vendors admitted into Advantage place their inventory into Amazon's warehouses. Amazon handles customer fulfillment, account management, online order receipt and confirmation, and provides customer service seven days a week. Items are available to ship to customers within 24 hours. Advantage sellers can log in to their online account to confirm purchase orders, add titles, and review sales reports. For these services, Amazon charges 55% of the sales price.

To become an Amazon Advantage seller, see Getting Set Up

Individual and Pro Merchant Sellers

Topics
- Individual and Pro Merchant Seller Fees
- Seller Closing Fees

Sellers and Pro Merchant sellers can be individuals or companies. Both sell items that are for sale on *www.amazon.com* The differences between the two are:

- Pro Merchant sellers sell in greater volume than individual sellers
- Pro Merchant sellers are offered other tools beside the Amazon Associates Web Service API to manage their sales and inventory. These tools are not covered in this guide. For more information, go to http://www.amazon.com/gp/help/customer/display.html/104-6403093-2058325?ie=UTF8&nodeId=1161306.
- The fees for doing business differ between sellers and Pro Merchant sellers.

Individual and Pro Merchant Seller Fees

Some of the fees that Individual Sellers and Pro Merchant Sellers pay are different:

- Individual Sellers pay a per-transaction fee of $0.99. Pro Merchant Sellers do not.
- Pro Merchant Sellers pay a monthly subscription fee. Individual Sellers do not.

Some fees Individual and Pro Merchant Sellers pay are the same:

- Commission of 6 to 15 percent of the sales price
- Variable closing fee

Amazon collects from a buyer the price of the item plus the shipping charges, subtracts all appropriate fees, and automatically transfers the earnings to the seller's checking account every fourteen days.

Seller Commission Fees

Commission fees are based on the product category.

Commission Fee	Product Category
6%	Computers
8%	Camera & Photo, Cell Phones & Service, and Electronics items
10%	Items in the Everything Else Store
12%	Musical Instruments
15%	All other product categories

Seller Closing Fees

Closing fees are based on shipping costs and the product category.

To view the most updated list of closing fees

- Go to: http://www.amazon.com/gp/help/customer/display.html?nodeId=1161240.

Individual Sellers

Selling your pre-owned and new items at Amazon.com is fast, easy, and doesn't cost a penny until the item sells.If an item does not sell within 60 days, the listing is closed and an e-mail is sent notifying you that your listing has ended. The e-mail describes how to relist your item

Amazon offers many forums for sellers to discuss issues and get tips for being successful.

To read seller forums

- Go to http://www.amazonsellercommunity.com/forums/index.jspa.

To sell items

1. Register to become an individual seller.
2. Find the item you are selling on www.amazon.com.

   Note

   If the item you are selling is not on www.amazon.com, you cannot be an Individual Seller. You can, however, be an Amazon Advantage seller.

3. On the www.amazon.com. web page that shows your item, click **Sell yours here** , as shown in the following figure.

   Clicking this button opens the first of several web pages that you must fill out. They ask you to specify the condition and price of your item.

4. Confirm your listing by going back to the item's web page on www.amazon.com and click the "used and new" link, as shown in the following figure.

   The sellers displaying the item for sale are displayed on the web page, as shown in the following figure. Make sure your seller ID is displayed.

5. Ship your item to a buyer when Amazon notifies you, by e-mail, that your item has sold.

Pro Merchant Sellers

Individuals or companies that sell in high volume benefit from becoming a Pro Merchant Seller. Deciding whether to upgrade from an Individual Seller to a Pro Merchant Seller comes down to doing the math. If you are not selling in high volume, it is more economical to pay the fees for an Individual Seller. High volume sellers save money by being Pro Merchant Sellers. To calculate the breakpoint, use your sales statistics with the fee structures outlined in the previous section, "Individual and Pro Merchant Seller Fees."

Becoming a Pro Merchant gives you access to the powerful Inventory Reports tool that enables you to view orders, sold listings, and current open listings. Pro Merchants also have access to the Inventory Loader tool that enables you to list and manage dozens—even thousands—of listings at once. Finally, Pro Merchants are welcome to sell an unlimited number of items in Amazon's marketplace and in Amazon.com stores.

Upgrading from an Individual Seller to a Pro Merchant Seller is easy. For more information, see Getting Set Up.

Pro Merchant tools are not discussed in this guide. For more information, go to http://www.amazon.com/gp/help/customer/display.html/104-6403093-2058325?ie=UTF8&nodeId=1161306

Merchants

Topics

- Merchants@ Pro Merchants
- Merchants@ Sellers
- Amazon

A merchant is a company that sells their items on www.amazon.com and handles their own order fulfillment, returns, and customer service. The only exception is Amazon, which is also a merchant.

Individuals and companies cannot apply to become a merchant. They are selected by Amazon to increase the breadth of offerings on www.amazon.com. Although most companies are not eligible to be a merchant, this section briefly describes merchants because Amazon Associates Web Service operations access items sold by merchants. In fact, the vast majority of items sold on Amazon are sold by merchants.

There are two kinds of merchants, as shown in the following figure.
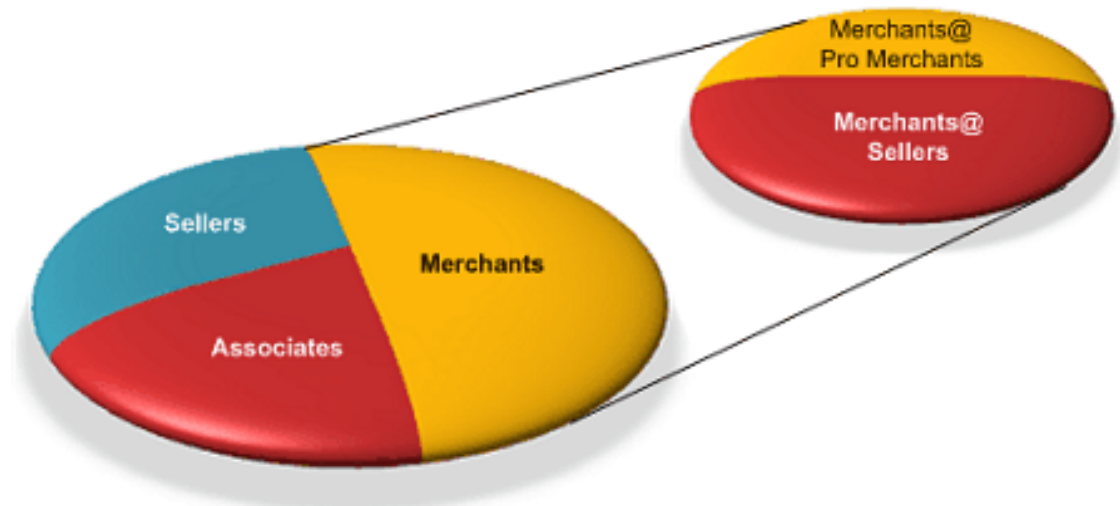
Merchants@ sellers are so-called because they appear on Amazon's retail web site. They use Amazon's Seller Central to create their own detail pages, configure their own store front, and create their own promotions. For more information about SellerCentral, go to http://sellercentral.amazon.com.

Merchants@ Pro Merchants

The business relationship between Merchants@ Pro Merchants and Amazon is very similar to that used by Pro Merchant Sellers. Fees are based on subscription prices, commission and closing fees. The difference is that Merchants@ Pro Merchants can use SellerCentral tools to create and modify product pages.

Merchants@ Sellers

This class of sellers is the most elite. Membership is restricted to some of the largest companies in the world. Examples include Nordstrom, Pete's Coffee & Tea, Circuit City (both from a drop ship and in-store pickup point of view) and Ingram Micro (PC Store).

Merchants@ Sellers can create web pages that are displayed by www.amazon.com. They use SellerCentral to manage their inventory. Their business relationship with Amazon is specified in

customized contracts.

Amazon

The largest seller on www.amazon.com is Amazon. It is considered a merchant. Its merchant ID is the default value for the Amazon Associates Web Service operation parameter, *MerchantId*, which means that if you do not specify another merchant or seller, search results will return items sold by Amazon.

Amazon's merchant ID varies by locale.

Locale	MerchantId Value	Domain Name
US	ATVPDKIKX0DER	www.amazon.com
CA	A3DWYIK6Y9EEQB	www.amazon.ca
DE	A3JWKAKR8XB7XF	www.amazon.de
FR	A1X6FK5RDHNB96	www.amazon.fr
JP	AN1VRQENFRJN5	www.amazon.co.jp
UK	A3P5ROKL5A1OLE	www.amazon.co.uk

Silver, Gold and Platinum Merchants

Topics

- Silver Merchant
- Gold Merchant
- Platinum Merchant

Amazon offers merchants three levels of service: silver, gold, and platinum.

Silver Merchant

A silver merchant is a partner who sells items on www.amazon.com using the Merchants@ technology platform. Silver merchants:

- Pay a monthly fee
- Do not sign a contract
- Share a merchant attributes file: us-stores/merchants/silver.awobs
- Have the ability to create new ASINs
- Have the ability to win the buy box
- Do not have a storefront on www.amazon.com

A silver merchant does not get as many features as a Gold Merchant or a Platinum Merchant.

There is a SilverMerchant search index, which is used to return items only sold by Silver Merchants. This search index is a subset of the Merchant index, which is typically used instead. With the Merchant index, you can search using any *MerchantId*. With the SilverMerchant index, you can only use a *MerchantId* that belongs to a Silver Merchant.

Gold Merchant

Gold merchants have everything silver merchants have, plus a customizable storefront. Gold merchants choose a primary product line. Their storefront gets the browse structure and the look, feel, colors, and tab of that product line.

Gold merchants have written, multi-year contracts.

Platinum Merchant

Platinum merchants have everything gold merchants have, plus the means to create their own browse tree and provide a fully customized look and feel, including a supertab, subnav, custom color, and eyebrows.

Platinum merchants have written, multi-year contracts.

Items for Sale

www.amazon.com lists hundreds of thousands of items for sale. Most of these items are warehoused and sold by Amazon or other large merchants, such as Nordstrom. All of these items are part of the Amazon marketplace.

In addition to large merchants selling items, individuals and companies also sell items that can be found using www.amazon.com. Some of these sellers have their own storefront on Amazon and their items can only be found in their store. Most sellers, however, list their items in the Amazon marketplace as well as in their stores.

Amazon Associates Web Service operations only enable you to retrieve items that are stored by Amazon. Amazon Associates Web Service does not enable you to add items for sale to Amazon. Sellers, such as Amazon Advantage sellers, who do add items to Amazon's catalog do so under a separate agreement.

Item Identifiers

All items for sale on www.amazon.com have identifiers. There are four major kinds. The first two identify items regardless of whether or not they can be purchased:

- **ASIN**—Amazon Standard Item Number
  An alphanumeric token that uniquely identifies items in the Amazon marketplace.

  All items in the marketplace have an ASIN. This is, by far, the most common identifier. ASINs are used by the majority of Amazon Associates Web Service operations.

- **ListingId**—An alphanumeric token that uniquely identifies items in a Pro Merchant Seller's store, called a zShop, or a Merchant@'s store
  Listing IDs are much rarer. They are assigned to items sold by Pro Merchant Sellers who sell items in their own stores.

The second two identifiers identify items that can actually be purchased:

- **OfferListingId**—An alphanumeric token that uniquely identifies items in the Amazon marketplace that can be purchased
  All items in the marketplace that can be purchased have an OfferListingId. This is, by far, the most common identifier for items that can be purchased.

- **ExchangeId**—An alphanumeric token that uniquely identifies items for sale in a Pro Merchant

Seller's zShop, or a Merchant@'s store that can be purchased
ExchangeIds are much rarer than OfferListingIds because few items on *www.amazonn.com* are only
available in a seller's store.

Other Item Identifiers

Amazon has other item identifiers but these are rarer and they can be used in fewer Amazon Associates
Web Service operations:

- **UPC**—Universal Product Code
  A 12-digit item identifier used in the US and CA locales. The UPC is identifier used in barcodes.

- **EAN**—European Article Number
  A 13-digit equivalent of the UPC that is used in Europe for products and barcodes.

- **JAN**—Japanese Article Number
  The equivalent of the EAN that is used in Japan for products and barcodes.

- **ISBN**—International Standardized Book Number
  An alphanumeric token that uniquely identifies a book. A book's EAN is typically set equal to the
  book's ISBN.

- **SKU**—Stock Keeping Unit
  A merchant-specific identifier for a purchasable good, like a shirt or chair. Amazon's version of the
  SKU is the ASIN.

  Amazon assigns items with SKUs an ASIN. If you had to search by SKU only, you would have to
  search each merchant's items independently because SKUs are not unique across all merchants.
  Several Amazon Associates Web Service operations enable you to search by SKU but the merchant
  must also be identified in the same request.

All items in the Amazon marketplace have an ASIN even if they also have one of the preceding
identifiers. Only a few Amazon Associates Web Service operations can use these identifiers. That
functionality is presented as a convenience function. You would typically only use one of these
identifiers if you knew it but did not know the item's ASIN.

The validity of these identifiers varies by search index, as shown in the following table.

Search Index	UPC	EAN	SKU
Apparel	Y	Y	Y
Automotive	Y	Y	Y
Automotive	Y	Y	Y
Baby	Y	Y	Y
Beauty	Y	Y	Y
Books	Y	Y	Y
Classical	Y	Y	Y
DigitalMusic	Y	N	N
DVD	Y	Y	Y
Electronics	Y	Y	Y

Search Index	UPC	EAN	SKU
HealthPersonalCare	Y	Y	Y
HomeGarden	Y	Y	Y
Industrial	Y	Y	Y
Jewelry	Y	Y	Y
Kitchen	Y	Y	Y
Magazines	N	Y	Y
Merchants	N	N	Y
Miscellaneous	Y	Y	Y
Music	Y	Y	Y
MusicalInstruments	Y	Y	Y
MusicTracks	N	N	N
OfficeProducts	Y	Y	Y
OutdoorLiving	Y	Y	Y
PCHardware	Y	Y	Y
PetSupplies	Y	Y	Y
Photo	Y	Y	Y
Software	Y	Y	Y
Tools	Y	Y	Y
Toys	Y	Y	Y
VHS	Y	Y	Y
Video	Y	Y	Y
Watches	Y	Y	Y

The following table shows the valid identifiers by locale.

Locale	Valid Item Identifiers
CA	ASIN, EAN, SKU
DE	ASIN, EAN, SKU
FR	ASIN, SKU, UPC
JP	ASIN, EAN, JAN, SKU
UK	ASIN, SKU, UPC
US	ASIN, ISBN, SKU, UPC

The default value of *IdType* is ASIN. For non-ASIN searches, including searches by ISBN, JAN, SKU, UPC, and EAN, a variety of additional parameters become mandatory, including a value for *IdType*.

Summary of Amazon Associates Web Service Operations

Topics

In Amazon Associates Web Service, the term "operation" is synonymous with the terms function and method. Amazon Associates Web Service operations are included in every request and they cause Amazon Associates Web Service web servers to take some action, for example, to find items in Amazon's databases or to find similar items. Think of each Amazon Associates Web Service operation as a different means of querying Amazon's databases for information. Amazon Associates Web Service does not offer any operations that place information on Amazon databases.

The following sections provide an overview of Amazon Associates Web Service operations.

Find Items

Use the following Amazon Associates Web Service operations to return a list of items that satisfy your search criteria.

Amazon Associates Web Service Operation	Description
ItemSearch	Find items that are sold on www.amazon.com by merchants and most sellers.
SellerListingSearch	Find items that are only in a seller's store.
ListSearch	Find customer-created lists in which customers specify items they would like to receive as presents.
SimilarityLookup	Find items that are similar to ones you've already found..
TagLookup	Customers can tag items with descriptive words. This operations enables you to find items tagged with specified words, for example, "Carol's Favorite Cookbook."

Find Out More About Specific Items

Once you use the Amazon Associates Web Service operations in the previous section to get a list of items that match your search criteria, you can use the following Amazon Associates Web Service operations to return additional information about specific items.

Amazon Associates Web Service Operation	Description
ItemLookup	Returns descriptions of specified items.
ListLookup	Returns descriptions of the items on a customer's list.
SellerListingLookup	Returns descriptions of specified items in a seller's store.

Shopping Cart

Once customers find items they want to purchase, they put them in a shopping cart. The following Amazon Associates Web Service operations enable you to implement a fully-featured e-commerce shopping cart.

Amazon Associates Web Service Operation	Description
CartCreate	Create a shopping cart and add an item(s).
CartAdd	Add items to the shopping cart
CartModify	Add to or remove items that are already in a shopping cart.
CartClear	Remove all of the items from a shopping cart
CartGet	Retrieve the contents of a shopping cart with updated price and availability information.

Customer Content

Amazon encourages customers to participate in the Amazon community, for example, by submitting reviews of sellers and items for sale, and by creating birthday lists, wedding registry lists, and baby registry lists that others can use as a guide for purchasing presents. Use the following Amazon Associates Web Service operations to find customer IDs and all of the information that they have chosen to make public.

Amazon Associates Web Service Operation	Description
CustomerContentSearch	Search for customers.
CustomerContentLookup	Look up information about a specific customer, such as their wishlists, which the customer has made public.

Seller Information

Many sellers on Amazon are unknown to the buyer. The following Amazon Associates Web Service operation returns customer feedback and other information about sellers.

Amazon Associates Web Service Operation	Description
SellerLookup	Returns information about a specific seller.

Other Operations

The remaining operations cover a miscellany of functions.

Amazon Associates Web Service Operation	Description
BrowseNodeLookup	Amazon uses browse nodes as a means of organizing the millions of items in their inventory. One browse node, for example, might be "Carving Knives." All items associated with this browse node would have something to do with carving knives. This browse node might be the child of a more general browse node, "Cutlery." BrowseNodeLookup enables you to find a browse node, its ancestors and progeny.
Help	Returns information about Amazon Associates Web Service operations and response groups.
TransactionLookup	Returns information about a customer's purchase.

Amazon Associates Web Service Developer Community

There are many thousands of people developing applications using Amazon Associates Web Service. That means that there is a wealth of knowledgeable people who can help you with questions you might have. To facilitate that kind of discussion, Amazon sponsors a number of online support forums that you can take advantage of.

The best place to start is at http://developer.amazonwebservices.com. On this web page you'll find the AWS Resource Center, Links to the Discussion Forums, and a Solutions Catalog.

The Resource Center provides links to Amazon Associates Web Service release notes, the Amazon Associates Web Service Developer Guide that you're reading now, code samples, developer tools, Amazon Associates Web Service-related articles, tutorials and books.

The Discussion Forums provide Amazon Associates Web Service developers a place to share their experiences and questions. Choose the Amazon Web Services link. The next page gives you the chance of linking to the Amazon Associates Web Service Developer Forum.

There's also a link under this heading for forums that take place in Japanese and German.

The Solutions Catalog provides answers to specific questions.

For another good source of information is the Amazon Associates Web Service blog, go to http://aws.typepad.com/. For the Japanese version of the blog, go to http://aws.typepad.com/aws_jp/.

Example Amazon Associates Web Service Web Sites

Sometimes, the best way to get a feel for a new API is to see the final product. Take a look at the following web site that is powered by Amazon Associates Web Service to see some of the interesting things Amazon Associates Web Service enables you to do:

• Thrift_Books

Amazon Associates Web Service Developer Aids

Topics
• Store Builders
• Amazon Marketplace Management Software
• Integration Software Services

Amazon Associates Web Service has been around along enough that some developers have created tools that make the job of creating your online, Amazon Associates Web Service-driven store easier to build. The following sections provide links to some of those web sites.

Store Builders

Store builder applications create part or all of a web site for an Amazon Associate, Marketplace Seller, or Merchant. Store builders make it easy for less technical vendors or web site owners to create a customized web experience for their customers. The following sites offer store builders or tools that help you enhance your store:

• Associate Engine: http://www.c3scripts.com/amazon
• Amazon Products Feed: http://www.mrrat.com/aws/index.html
• Associates Shop: http://www.associatesshop.filzhut.de/
• Active Circle: http://www.activecircle.com
• Mr. Rat: http://www.mrrat.com

Amazon Marketplace Management Software

Sellers who sell in large volume need the help of inventory management tools. The following web sites offer such tools:

• Seller Engine: http://www.sellerengine.com
• Monsoon Retail: http://www.monsoonworks.com
• Scout Pal: http://www.scoutpal.com

Integration Software Services

Perhaps you want to work with a company to help integrate Amazon Associates Web Service into your online stores. The following development groups offer this service:

• Mercent: http://www.mercent.com
• Monsoon Retail: http://www.monsoonretail.com

Visual Introduction to Amazon Associates Web Service

Topics

- Tools to Find Items
- Tools to Find Out More About an Item
- Tools to Get Seller Information
- Tools to Implement a Shopping Cart

The previous chapter gave an overview of all Amazon Associates Web Service operations. Sometimes it is helpful to see them in action. Amazon Associates Web Service functionality is implemented on www.amazon.com. This chapter provides a series of screenshots from www.amazon.com. The parts of the web pages that demonstrate Amazon Associates Web Service functionality are labeled.

The labels show three kinds of implementations:

- Operations
- Response groups
- Elements in the response

Amazon Associates Web Service only provides data; it does not provide HTML. 'We show one way of displaying Amazon Associates Web Service on our retail web site, www.amazon.com. You might find a better way.

Tools to Find Items

Typically, the first task a customer undertakes is searching for an item. The following web page from www.amazon.com shows the implementation of this task using, in particular, `ItemSearch` and ItemLookup requests.

1	ItemSearch SearchIndex parameter	**9**	Images response group
2	ItemSearch Keywords parameter	**10**	CustomerReviews response group
3	BrowseNodeLookup	**11**	Availability element returned by ItemsSearch Availability parameter
4	ItemLookup	**12**	SearchBins response group
5	Author ItemSearch parameter	**13**	AlternateVersions response group
6	Offers response group	**14**	ItemSearch Title parameter
7	ItemSearch Sort parameter	**15**	ItemSearch Condition parameter
8	Child Browsenodes		

The top entry fields show a drop down menu equal to search indices, and a text entry box for a keyword. Both of these parameter values are required for an `ItemSearch` request. The result, shown in this page, displays many of the elements returned by the ItemAttributes response group.

The following figure shows the functionality not supported by Amazon Associates Web Service.
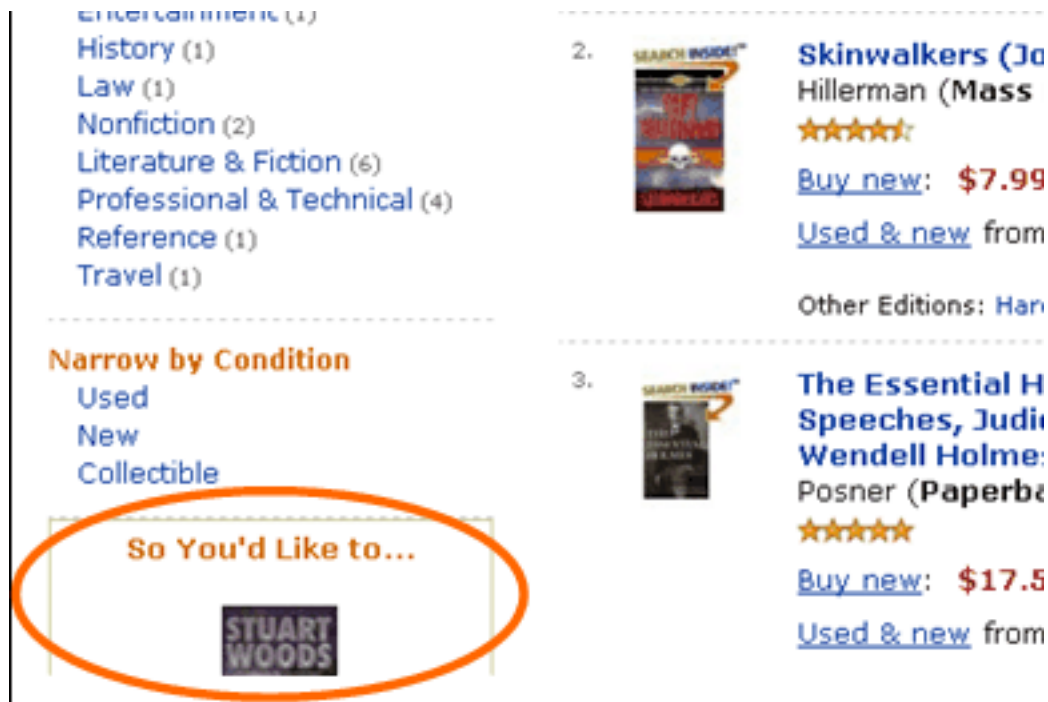
Tools to Find Out More About an Item

If the customer clicks on the first image in the previous screenshot, the equivalent of an Amazon Associates Web Service `ItemLookup` request is sent. The following page shows the elements returned by such a request and some of the functionality implemented to move the customer to the next stage, such as getting seller information and adding the item to an Amazon Associates Web Service remote shopping cart.

1	MediumImage element	**6**	Availability element
2	Title element	**7**	ItemLookup with Images response group
3	Author element	**8**	TotalItems element
4	FormattedPrice element	**9**	SmallImage element
5	CartAdd operation	**10**	SimilarityLookup

The following figure shows the functionality not supported by Amazon Associates Web Service.
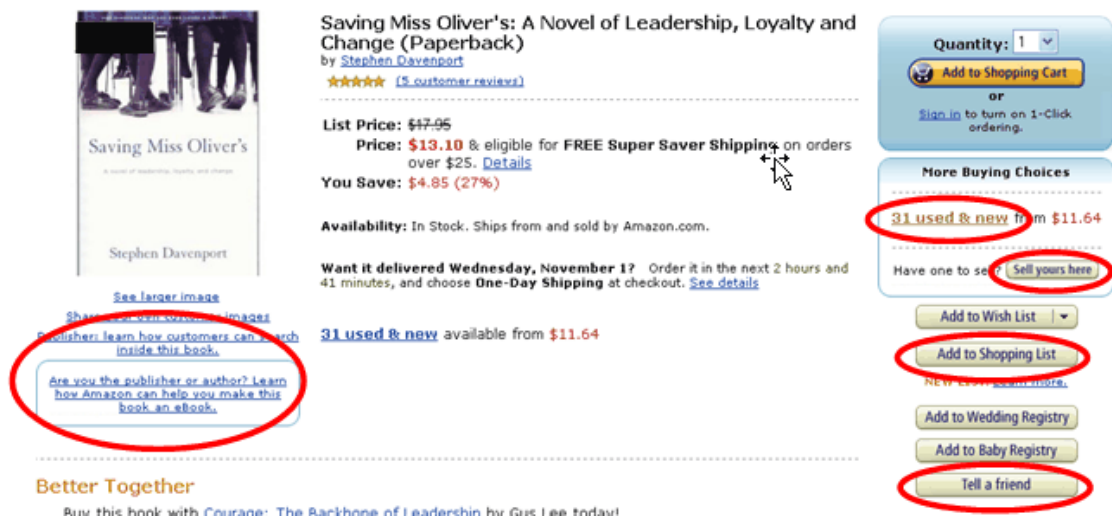
Tools to Get Seller Information

If the customer clicked on the link, "31 used and new" in the previous screenshot, the following information is displayed about vendors selling the item. Because the customer is deciding at this point whom to buy the item from, much of the functionality implemented on the following web page has to do with getting to know the seller better.

1	SearchBins response group	**5**	Seller response group
2	OfferSummary response group, LowestNewPrice element	**6**	CartAdd
3	Condition element	**7**	SellerRating element
4	SellerLookup		

Tools to Implement a Shopping Cart

If the customer clicked the "Add to Cart" button in the previous screenshot, their cart would be displayed, as shown in the following figure. Most of the functionality on this page deals with modifying (`CartModify`) the items in the cart.
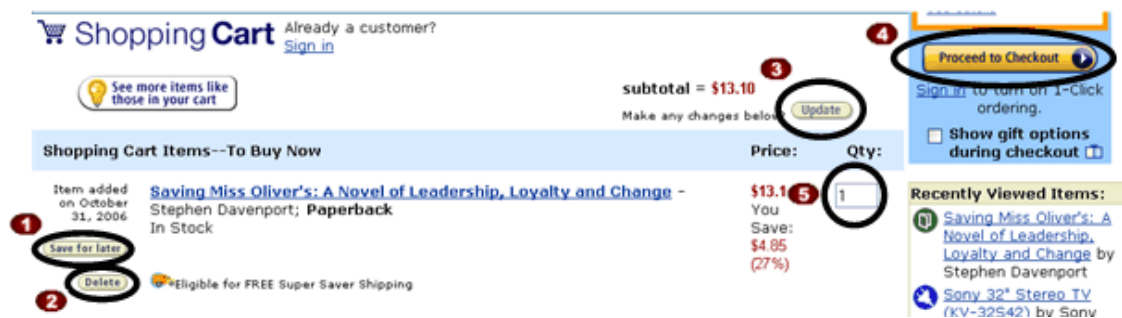
1	CartModify, Action=SaveForLater	**4**	PurchaseURL
2	CartModify, Quantity=0	**5**	CartModify, Quantity=1
3	CartModify		

The following figure shows the functionality not supported by Amazon Associates Web Service.
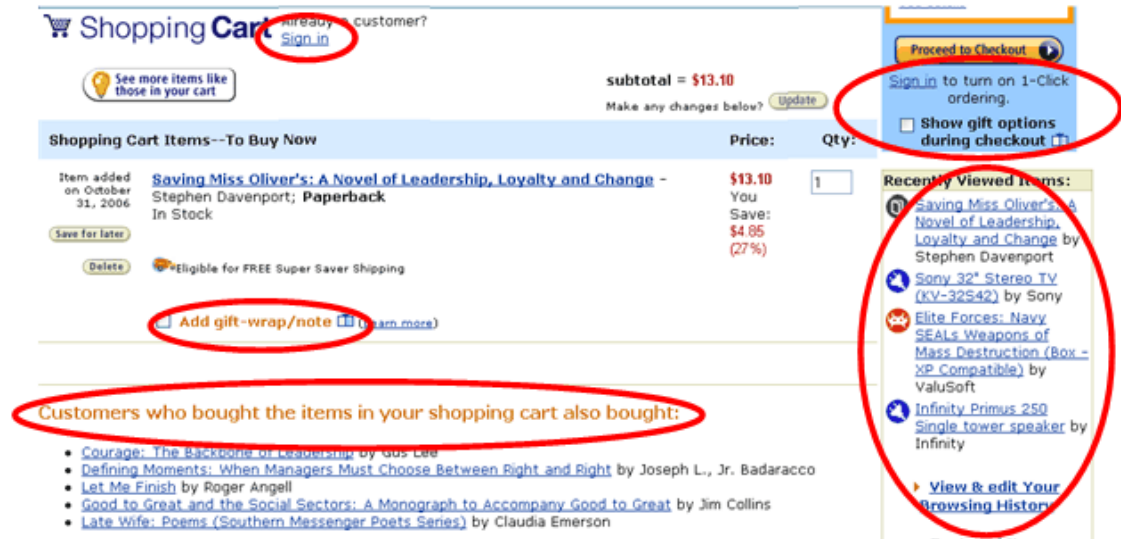
Organization of Items for Sale on Amazon

Topics
- Item Organization
- Browse Nodes
- Search Indices
- Variations
- Collections
- Tags
- Lists
- Accessories
- Related Items

For a vast majority of customers, their first task when coming to an e-commerce web site is finding something to buy. They might want to buy a camera, a book, or a piece of jewelry. If you were to walk into a store with relatively few items for sale, the task of finding what you want might be easy. If, however, the store you walk into has thousands of shelves and hundreds of thousands of items for sale, finding what you want presents its own challenge. In such a store, a good store owner would arrange items in a way that would help customers quickly find the items they want to buy. Such is the case with Amazon.

Amazon has literally hundreds of thousands of items for sale. Amazon Associates Web Service operations and response groups give you the tools you need to find the items in the store that you want quickly. Before understanding the search mechanisms that Amazon Associate Web Service operations provide and the filtering mechanisms that Amazon Associates Web Service response groups provide, it is important to first understand the way in which Amazon groups items for sale.

Item Organization

The mechanisms used to organize items for sale in Amazon are:

Topics

☞ **Note**

You will sometimes see in responses another organizing tool called `ProductGroup`. This is an older concept in Amazon's database design and it has been superseded by browse nodes and search indices. None of the Amazon Associates Web Service operations use `ProductGroup` as an input parameter

Browse Nodes

Topics

- Browse Node Properties
- Browse Nodes and Items
- Browse Node IDs
- Browse Nodes and Search Indices
- Finding Browse Nodes

Amazon uses a hierarchy of nodes to organize its items for sale. Each node represents a collection of items for sale, such as Harry Potter books, not the items themselves. Amazon Associates Web Service calls the nodes, browse nodes because the customer can browse through the nodes to find the collection of items that interests them. For example, the customer might be interested in the browse nodes Literature & Fiction, Medicine, Mystery & Thrillers:, Nonfiction:, or Outdoors & Nature.

Browse nodes are related in a hierarchical structure; each browse node can be a leaf node or a parent node. A leaf node has no children nodes, a parent node does, as shown in the following figure.
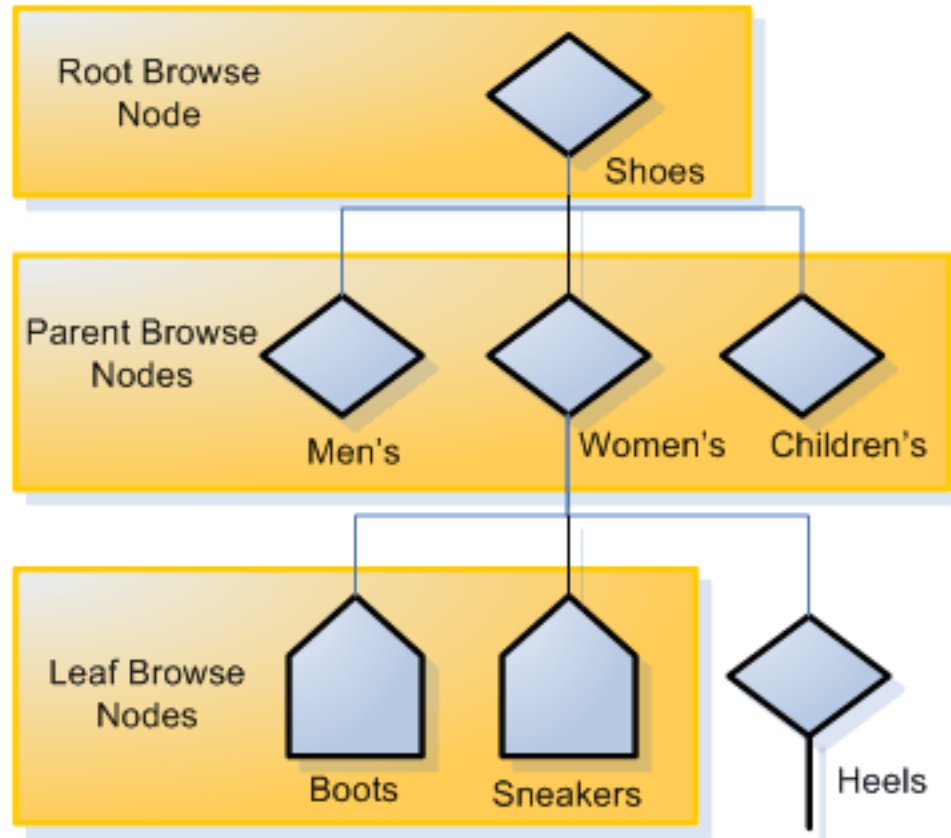
☞   **Note**

   The figure is representational in nature and should not be construed to be the real browse
   node hierarchy used by Amazon.

As you can see in this example, the different levels of the hierarchical tree of nodes provides an
organizational principle that is used to catalog and find items. The nodes progress from general to
specific. For example, a top level browse node might be "Shoes." It's child browse nodes might be
"Men's Shoes," "Women's Shoes," and "Children's Shoes." Child browse nodes are subsets of the
parent's product category. Navigating down the tree refines the search for items from the general to the
specific. Going up the tree generalizes the search from the child browse node toward the root node.

Browse Node Properties

Browse nodes properties

- **Name**—Describes the items associated with the browse node, such as "Mystery & Thrillers."
- **ID**—A positive integer, for example, Literature & Fiction: (17), Medicine: (13996), Mystery &
  Thrillers: (18), Nonfiction: (53), Outdoors & Nature: (290060)
- **Child nodes**—Nodes that are subsets of the current node.
- **Parent nodes**—Nodes that are supersets of the current node.

For example, the following XML response shows a browse node whose ID is 163357 and name is
"Comedy."

```
<BrowseNode>
  <BrowseNodeId>163357</BrowseNodeId>
  <Name>Comedy</Name>
  <Children>
    <BrowseNode>
      <BrowseNodeId>599826</BrowseNodeId>
      <Name>Boxed Sets</Name>
    </BrowseNode>
    <BrowseNode>
      <BrowseNodeId>538712</BrowseNodeId>
      <Name>African American Comedy</Name>
    </BrowseNode>
  </Children>
  <Item>
    <Ancestors>
      <BrowseNode>
        <BrowseNodeId>549726</BrowseNodeId>
        <Name>Performing Arts</Name>
      </BrowseNode>
    </Ancestors>
  </Item>
</Item>
```

In this example, the Comedy browse node has two child browse nodes, "Boxed Sets" and "African American Comedy," and one parent node, "Performing Arts."

Root Category

Search results can return with items listed under multiple browse nodes. Some nodes, however, are more relevant that others. The *IsCategoryRoot* response tag identifies which browse node is the most relevant for an item in a specific marketplace. This functionality helps vendors classify items for sale.

The element applies to the marketplace specified in the request. So, it is possible for the *IsCategoryRoot* value to be different across marketplaces.

☞ **Note**

> The *IsCategoryRoot* value is not useful in the Books search index.

Browse Nodes and Items

Browse nodes are categories into which items for sale are organized. A single node might have many items associated with it, as shown in the following figure.
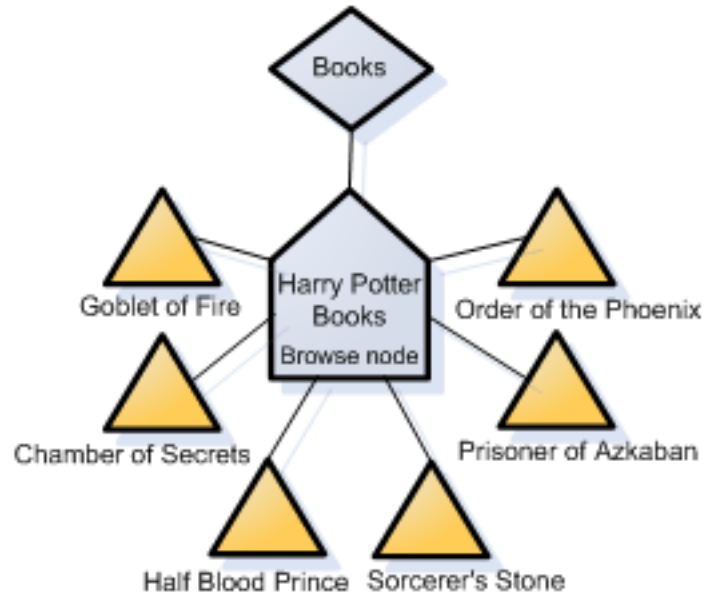
In this example, six items (Harry Potter book titles) are associated with the browse node: Harry Potter Books. This node is a leaf node and a child of the Books parent node. As the figure shows, many items can be associated with a single browse node. What all of the items have in common is described by the name of the browse node

On the other hand, a single item can belong to more than one browse node, for example, a book might belong to the Books and TopSellers browse nodes.
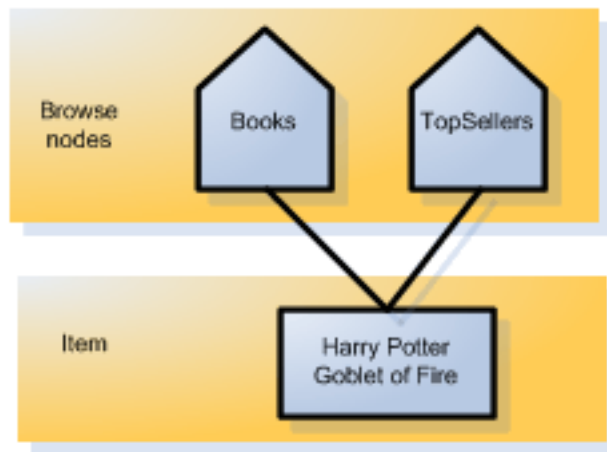
At a later time, when the book comes off of the top sellers list, the book will be removed from its association with the TopSellers browse node. In this way, you can see that the association between items and browse nodes is dynamic.

Browse nodes are created and deleted as items demand. When, for example, a new toy or group of books starts selling briskly, a node would be created for it. For example, when pet rocks were popular, a node would have been created for pet rock items. When the sales of pet rocks declined significantly, the node would have been deleted. As you can see, some nodes are volatile by nature. For example, the items associated with the browse node, "Top Sellers," change frequently according to sales figures. Other browse nodes, such as Pet Rocks, exist only for a brief time.

Some browse nodes, however, are much longer lived. Top level nodes, for example, "Books" and

"Apparel," have remained unchanged for years. So are the browse nodes associated with cities, as shown in the following table.

City	Browse Node
Boston	917982
Chicago	917984
New York	917976
San Francisco	917980
Seattle	917978
Washington, D.C.	917986

Browse Node IDs

Browse node IDs are positive integers that uniquely identify product collections, for example, Literature & Fiction: (17), Medicine: (13996), Mystery & Thrillers: (18), Nonfiction: (53), Outdoors & Nature: (290060). Amazon uses over 120,000 browse node IDs in the US locale alone.

While top level browse node values tend to remain the same, the values of others change often. Browse nodes are created and eliminated without notification. For that reason, it is advisable not to hard code browse node IDs into applications.

Browse node IDs are unique in one locale only, that is, the same browse node ID might be used in two locales but the names and purposes of those browse nodes might be unrelated.

Browse node IDs are assigned internally by Amazon. There are no general rules for number assignments. You cannot assume, for example, that all IDs in the 2000's are related in any way.

If you have a browse node ID, you can find the name of the browse node by putting the ID into one of the following URLs, depending on the locale:

- http://www.amazon.com/exec/obidos/tg/browse/-/[Browse Node ID]
- http://www.amazon.com.ca/exec/obidos/tg/browse/-/[Browse Node ID]
- http://www.amazon.com.uk/exec/obidos/tg/browse/-/[Browse Node ID]
- http://www.amazon.com.fr/exec/obidos/tg/browse/-/[Browse Node ID]
- http://www.amazon.com.de/exec/obidos/tg/browse/-/[Browse Node ID]
- http://www.amazon.com.co.jp/exec/obidos/tg/browse/-/[Browse Node ID]

Browse Nodes and Search Indices

A search index is a more general classification than a browse node. For example, one search index is Books; a browse node within that search index might be Harry Potter Books.
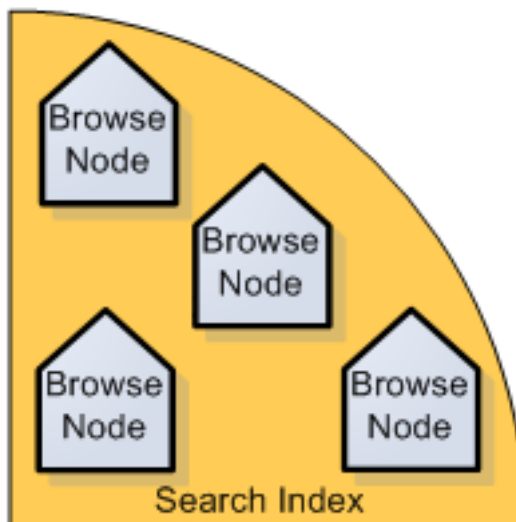
As you can imagine, there can be many browse nodes within each search index. Some Amazon Associates Web Service search operations require a search index to limit the scope of the search. Specifying a browse node in addition to a search index returns more targeted search results. For example, a search operation, ItemSearch, that looked in the Books search index for book titles and descriptions that contained the word "dragon," would return thousands of titles. The same ItemSearch request with the Harry Potter browse node specified would return only those Harry Potter books that had dragons in them.

Finding Browse Nodes

Amazon Associates Web Service offers several means of finding browse node IDs:

- `BrowseNodes` response group
- `BrowseNodeInfo` response group

The `BrowseNodes` response group returns the browse node that an item belongs to as well as the ancestry of that browse node. The following response shows the ancestral browse nodes of High School. As you read down the response, the browse nodes ascend the browse node hierarchy. The last browse node, Books, in the response is the root browse node.

```
<Item>
  <ASIN>0976925524</ASIN>
  <BrowseNodes>
    <BrowseNode>
      <BrowseNodeId>69825</BrowseNodeId>
      <Name>High School</Name>
      <Ancestors>
        <BrowseNode>
          <BrowseNodeId>10605</BrowseNodeId>
          <Name>Education</Name>
          <Ancestors>
            <BrowseNode>
            <BrowseNodeId>53</BrowseNodeId>
            <Name>Nonfiction</Name>
            <Ancestors>
              <BrowseNode>
              <BrowseNodeId>1000</BrowseNodeId>
              <Name>Subjects</Name>
              <Ancestors>
                <BrowseNode>
                <BrowseNodeId>283155</BrowseNodeId>
                <Name>Books</Name>
```

There is, however, one caveat. When a node has more than one parent node, the BrowseNodes response group only returns one of the parents. There is no logic that determines which of the parent nodes it follows up the ancestral tree. Running the request multiple times, therefore might return a different set of ancestors for a node.

You can use the `BrowseNodes` response group with `ItemLookup`, `ItemSearch`, `ListLookup`, and `SimilarityLookup`.

The `BrowseNodeInfo` response group returns browse node names, IDs, children and parent browse nodes, as shown in the following response snippet.

```
<BrowseNodeId>11232</BrowseNodeId>
<Name> Social Sciences</Name>
<Ancestors>
   <BrowseNode>
      <BrowseNodeId>53</BrowseNodeId>
      <Name>Nonfiction</Name>
      <Ancestors>
         <BrowseNode>
            <BrowseNodeId>1000</BrowseNodeId>
            <Name>Subjects</Name>
            <Ancestors>
               <BrowseNode>
                  <BrowseNodeId>283155</BrowseNodeId>
                  <Name>Books</Name>
               </BrowseNode>
            </Ancestors>
         </BrowseNode>
      </Ancestors>
   </BrowseNode>
</Ancestors>
<Children>
   <BrowseNode>
      <BrowseNodeId>11233</BrowseNodeId>
      <Name>Anthropology</Name>
   </BrowseNode>
   <BrowseNode>
      <BrowseNodeId>11242</BrowseNodeId>
      <Name>Archaeology</Name>
   </BrowseNode>
   <BrowseNode>
      <BrowseNodeId>3048861</BrowseNodeId>
      <Name>Children's Studies</Name>
   </BrowseNode>
</Children>
```

This response shows that the Social Sciences browse node has three child browse nodes: Anthropology, Archaeology, and Children's Studies, and an ancestry that starts with the parent node, Nonfiction and ends with the root browse node, Books.

You can use this response group only with `BrowseNodeLookup`. Typically use use `BrowseNodeLookup` to navigate the browse node tree. With every response, you use the browse node IDs returned to refine your search until you reach the desired browse node. You might, for example, navigate down the tree to refine a search or retrieve the root browse node to return, for example, the top sellers in the product category. To do that, you would use the ID of the root browse node found in the BrowseNodeInfo response as the value for the *BrowseNode* parameter in an **ItemSearch** request. That request would include the TopSellers response group so that the top sellers of the product category are returned..

Note: If a browse node has multiple ancestors, only one of them is returned in the response.

In contrast, `BrowseNodeLookup` only returns child browse nodes that are the direct descendant of the browse node in the request. You could use any of the browse node IDs to either find additional, related

browse nodes by using another `BrowseNodeLookup` request, or to focus an `ItemSearch` request.

Use `ItemSearch` and `ItemLookup` and specify the BrowseNodes response group.

Find a browse node ID that is similar to the one you want and use `BrowseNodeLookup` to investigate its child and ancestor browse nodes.

Related Topics

- BrowseNodes Response Group

Search Indices

Topics
- Search Indices and Locales
- Combined Search Indices

One of the reasons that customers enjoy shopping on Amazon is that Amazon has hundreds of thousands of items for sale—far more than any one store could contain. On Amazon, you can find just about anything—from a book to a $100,000 piece of jewelry. Ironically, the job of finding the items you want to buy is made more difficult by having so many items for sale. Returning too many items in a response is almost as bad as returning no items at all. Amazon addresses this difficulty by placing every item it sells into a product category, called a search index.

You can think of search indices as dividing into groups everything for sale on Amazon, as shown in the following figure.
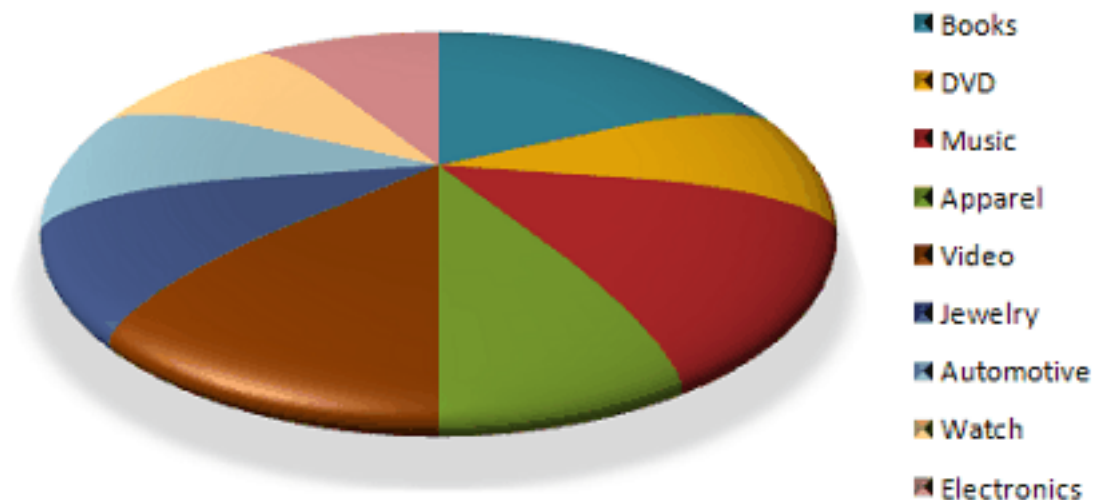
By selecting one slice in a request , you avoid returning items in all of the other slices. This functionality makes requests more targeted and reduces search times. For example, when looking for a specific book, it is best to specify the Books search index in the request.

```
SearchIndex=Books
```

Titles and keywords used to find items often occur in multiple search indices. For example, if you were searching using "Harry%20Potter" as your keyword, you would get results in many search indices, including Books, DVD, Video, and Music.By specifying the search index you are interested in, your

request becomes much better targeted.

Specifying the wrong search index leads to no results or results that do not meet the customer's search criteria. For example, if your keyword was carburetor and the search index was Kitchen, you might not get any items that match the search criteria. Change the search index to Automotive and you'd get many matches.

Amazon uses the following search indices to divide up all of the items for sale:

• All	• Hobbies	• PCHardware
• Apparel	• HomeGarden	• PetSupplies
• Automotive	• Industrial	• Photo
• Baby	• Jewelry	• SilverMerchant
• Beauty	• KindleStore	• Software
• Blended	• Kitchen	• SoftwareVideoGames
• Books	• Magazines	• SportingGoods
• Classical	• Merchants	• Tools
• DigitalMusic	• Miscellaneous	• Toys
• DVD	• MP3Downloads	• VHS
• Electronics	• Music	• Video
• ForeignBooks	• MusicalInstruments	• VideoGames
• GourmetFood	• MusicTracks	• Watches
• Grocery	• OfficeProducts	• Wireless
• HealthPersonalCare	• OutdoorLiving	• WirelessAccessories

Search Indices and Locales

Some search indices work in all locales; some search indices do not. Supported search indices in a locale often changes over time. For example, a search index, such as Automotive, that works in the US locale can be added to the JP locale.

Support for search indices varies by locale often because of the data that Amazon does or does not have. For example, the search index, Grocery, is currently supported in the US locale only because grocers in other countries have not yet teamed up with Amazon to provide grocery items for sale. As the data grows over time, more and more search indices will be supported in all locales.

When you specify a search index in a request, make sure it is supported in the locale of interest. For a list of the search indices supported in different locales, see Search Index Support by Locale

Combined Search Indices

As a convenience, some of the search indices are combinations of other search indices, for example:

• **All**—Searches through all search indices. Only five pages of items can be returned where each page contains up to five items.
• **Blended**—Combines the following search indices: DVD, Electronics, Toys, VideoGames, PCHardware, Tools, SportingGoods, Books, Software, Music, GourmetFood, Kitchen, and Apparel search indices.
• **Merchants**—Returns the items across all search indices for a merchant who is specified by a value

for MerchantId.

- **Music—**Combines Classical, DigitalMusic, and MusicTracks search indices
- **Video—**Combines DVD and VHS search indices

These search index combinations are helpful when you are not sure which search index to specify. The downside of using one of these combined search indices is that they might return quite a few items in the response.

More commonly, you will specify individual search indices in requests, for example,

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
Condition=All&
ResponseGroup=Images&
SearchIndex=Books&
Title=Harry%20Potter
```

Topics
- All Search Index
- Merchants Search Index

All Search Index

You can use the All search index to do an `ItemSearch` search through all search indices. There are, however, a number of restrictions placed on this request. The only parameter that you can use in the request is `Keywords`. You cannot, for example, sort results. Results are restricted to the first five pages of results. Each page can have up to five results.

☞ **Note**

The list of all available search indexes by locale can be found on the search indexes page.

Merchants Search Index

The Merchants search index is especially valuable when you want to find the items sold by a single merchant and that merchant has items for sale in many search indices. Without the Merchants search index, to find all of a merchant's items, you would have to issue an `ItemSearch` request multiple times and use a different search index each time.

Because the Merchants search index bases its search on a specific merchant, the request must include a value for `MerchantId`, as shown in the following request.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
SearchIndex=Merchants& MerchantId=A363XKZVKSMVXW&
Keywords=the&
Version=2006-09-13
```

The following response snippet shows items returned from different search indices.

```
<Item>
  <ASIN>B000DZJNRS</ASIN>
```

```
  ...
  <ItemAttributes>
    <Manufacturer>SportVideos.com</Manufacturer>
    <ProductGroup>DVD</ProductGroup>
    <Title>Play Better Volleyball: Setting</Title>
  </ItemAttributes>
</Item>
<Item>
  <ASIN>B00006A6W0</ASIN>
  ...
  <ItemAttributes>
    <Manufacturer>Bennett Media Corpor</Manufacturer>
    <ProductGroup>Video</ProductGroup>
    <Title>Garmin Rino 110/120 GPS/ 2 Way Radio Instructional Video</Title>
  </ItemAttributes>
</Item>
```

Variations

Topics

- Variation Parents
- Returning Variations
- Variation Dimensions

Often, an item comes in a variety of sizes and colors. A shirt, for example, might come in four different sizes and six different colors.

Each color and size combination is called a variation. Each variation, such as a medium, blue shirt, is an item that a customer can buy. For that reason, each variation has its own ASIN. For example, if a shirt came in four sizes and six colors, there would be twenty-four variations and twenty-four corresponding ASINs..

Variation Parents

The abstraction of the variations is called the variation parent. The title element of the variation parent names the variations, for example, "Long Sleeve Classic Pocket Tee." Because the parent ASIN is an abstraction, it cannot be purchased, that is, it is not associated with an offer. The following request uses the Offers response group in an `ItemLookup` of a parent variation.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemLookup&
```

```
ItemId=B00006XYAB&
IdType=ASIN&
MerchantId=All&
Condition=All
ResponseGroup=ItemAttributes,Offers
```

As you can see in the following response snippet, no offers are returned.

```
<Item>
  <ASIN>B00006XYAB</ASIN>
<DetailPageURL>http://www.amazon.com/gp/redirect.html%3FASIN=B00006XYAB%26tag
=ws%26lcode=xm2%26cID=2025%26ccmID=165953%26location=/o/ASIN/B00006XYAB%253FS
ubscriptionId=1V9M7E1ZATWETZDS6W82</DetailPageURL>
  <ItemAttributes>
    <Binding>Apparel</Binding>
    <Brand>Eddie Bauer</Brand>
    <Department>mens</Department>
    <FabricType>leather</FabricType>
    <Feature>Cotton.</Feature>
    <Feature>Single chest pocket.</Feature>
    <Feature>Side seamed to prevent twisting.</Feature>
    <Feature>Coverstitched seams add strength.</Feature>
    <ProductGroup>Apparel</ProductGroup>
    <Title>LongSleeve Classic Pocket Tee</Title>
  </ItemAttributes>
  <OfferSummary>
    <TotalNew>0</TotalNew>
    <TotalUsed>0</TotalUsed>
    <TotalCollectible>0</TotalCollectible>
    <TotalRefurbished>0</TotalRefurbished>
  </OfferSummary>
  <Offers>
    <TotalOffers>0</TotalOffers>
    <TotalOfferPages>0</TotalOfferPages>
  </Offers>
</Item>
```

Returning Variations

By default, ItemSearch only returns parent variations.

To return the associated variations and their images

• Include in the request the Variations and VariationImages response groups.

For example, when you add Variations to the preceding request, the response includes, in addition to what is shown, variations and their offers, as shown in the following response snippet.

```
<Offer>
  ...
  <OfferListing>
<OfferListingId>4L2h0ymPZs3lDap8fU9Kw8hmKiPs5qVknFiifrviXAkRDZivZpZsSfTe0YMLt
bo6MVWHTCzyKjT9UZI%2BpvF8Ax%2BFeSG29QGqQ4eF6ZspRD5fdxj8zmRp%2Bw%3D%3D</OfferL
istingId>
  ...
</Offer>
<Offer>
  ...
  <OfferListing>
<OfferListingId>PCOIjALkrkCts8UYi3pqf%2BqBaH5xbmJfikoaB5fNhlF7yRMeh19NJxBEBBN
z9GDFMMYtH0EI06Y1Vbar7raOf6ieUnzzST94RN8wwiXpEn2jaWmZ%2F%2BYc7Q%3D%3D</OfferL
istingId>
```

Each of these offers is associated with an Item element and each of these items is a variation. The

following snippet, which comes from the same response, shows how each variation is differentiated by size.

```
<ItemAttributes>
  <Brand>Eddie Bauer</Brand>
  <ClothingSize>Small Regular</ClothingSize>
  ...
<ItemAttributes>
  <Brand>Eddie Bauer</Brand>
  <ClothingSize>Medium Regular</ClothingSize>
  ...
<ItemAttributes>
  <Brand>Eddie Bauer</Brand>
  <ClothingSize>Large Regular</ClothingSize>
  ...
<ItemAttributes>
  <Brand>Eddie Bauer</Brand>
  <ClothingSize>X-Large Regular</ClothingSize>
  ...
```

Returning Variation Dimension Information Only

The Variations and VariationSummary response groups return a great deal of information about each item in the response.

To see the values of the variation dimensions

• Use the VariationMatrix response group in an `ItemSearch` request.

```
<Item>
  <ASIN>B0008G23PQ</ASIN>
  <Variations>
  <VariationDimensions>
    <VariationDimension>ClothingSize</VariationDimension>
    <VariationDimension>Color</VariationDimension>
  </VariationDimensions>
<Item>
  <ASIN>B0008EOA9U</ASIN>
  <ItemAttributes>
    <ClothingSize>29W x 30L</ClothingSize>
    <Color>Grey</Color>
  </ItemAttributes>
</Item>
<Item>
  <ASIN>B0008EO9J6</ASIN>
  <ItemAttributes>
    <ClothingSize>29W x 30L</ClothingSize>
    <Color>Navy</Color>
  </ItemAttributes>
</Item>
```

This response snippet shows that the VariationMatrix response group returns the names of the dimensions along with their values for each returned item. For more information, see VariationMatrix Response Group.

Related Topics

• Variations Response Group

• VariationSummary Response Group

• VariationMatrix Response Group

Variation Images

Each variation has its own set of images and those images are returned by the VariationImages response group, for example:

```
<SmallImage>
  <URL>  http://images.amazon.com/images/P/B99999999A.01._SCTHUMBZZZ_.jpg
  </URL>
  <Height Units="pixels">60</Height>
  <Width Units="pixels">60</Width>
</SmallImage>

<MediumImage>
  <URL> http://images.amazon.com/images/P/B99999999A.01._SCMZZZZZZZ_.jpg
  </URL>
  <Height Units="pixels">140</Height>
  <Width Units="pixels">140</Width>
</MediumImage>
```

These images are small and medium size images of the same child variation. For more information about image sets and and variation images, see Motivating Customers to Buy.

Variation Dimensions

Variations can differ from one another in a variety of ways. Size and color are common ways for apparel variations to differ. The ways in which variations differ are called dimensions. Parent variations relay that information with the following response elements:

- VariationDimensions
- VariationDimension

The values encapsulated by these elements in the parent variation response specify the variation dimensions for the child variations, for example:

```
<VariationDimensions>
    <VariationDimension>ClothingSize</VariationDimension>
    <VariationDimension>Color</VariationDimension>
</VariationDimensions>
```

The following response snippet from one of the associated child variations shows that the dimensions specified in the parent variation are used as item attributes in the child variation.

```
<Item>
   ...
   <ItemAttributes>
      ...
      <ClothingSize>Large</ClothingSize>
      <Color>Black</Color>
      ...
   </ItemAttributes>
   ...
</Item>
```

The number of variation dimensions grows as Amazon Associates Web Service matures. The current set of dimensions includes:

• Color	• MetalType
• ClothingSize	• Model

- FlavorName
- GemType
- GolfClubFlex
- GolfClubLoft
- HandOrientation
- HardwarePlatform
- PackageQuantity
- ItemDimensions/Length
- ItemDimensions/Width
- MaterialType
- MaximumWeightRecommendation

- OperatingSystem
- ProductTypeSubcategory
- RingSize
- ScentName
- ShaftMaterialType
- Size
- Style
- TotalDiamondWeight
- TotalGemWeight

Collections

Topics
- Parent and Child Collection Items
- Variations and Collections are Different

A collection is a group of items that are related thematically. For example, all of the linens that go into a bedroom might be associated in a bedding linens collection.
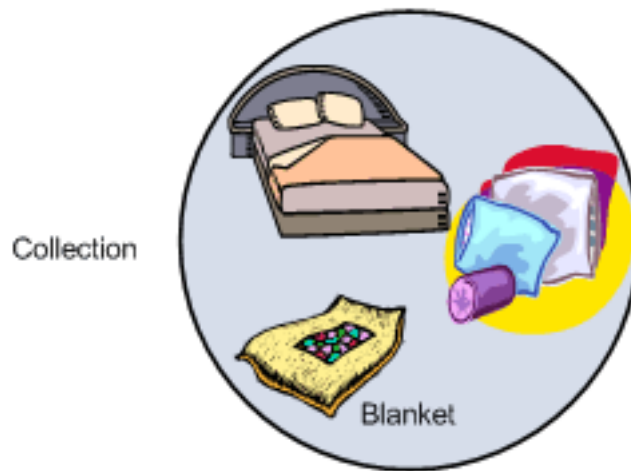
The Collections response group returns all of the items in a collection. You can use `ItemLookup`, `ItemSearch`, `ListLookup`, and `SimilarityLookup` with the Collections response group to return collections. If, for example, `ItemSearch` returns four items and each of them are in a collection, the Collections response group returns the ASINs and titles of all the items in all four collections (even if some are duplicates), for example:

```
<Collections>
  <Collection>
    <CollectionParent>
      <ASIN>B0006PLAOE</ASIN>
      <Title>Fieldcrest® Classic Bedding Collection GarnetIvory</Title>
    </CollectionParent>
    <CollectionItem>
```

```
      <ASIN>B00067IV8U</ASIN>
      <Title>Fieldcrest® Classic Solid Sheets Garnet</Title>
</CollectionItem>
    <CollectionItem>
      <ASIN>B000673NE2</ASIN>
      <Title>Fieldcrest® Classic Solid Pillowcases Set of 2 Garnet</Title>
    </CollectionItem>
    <CollectionItem>
      <ASIN>B00065WTJY</ASIN>
      <Title>Fieldcrest® Classic Dobby Pillowcases Set of 2 Garnet</Title>
    </CollectionItem>
  </Collection>
</Collections>
```

This response snippet shows that there are four items in this collection: the collection name, Fieldcrest®
Classic Bedding Collection GarnetIvory, and the items in the collection that are for sale: solid sheets,
solid pillowcases, and Dobby pillowcases.

Amazon Associates Web Service does not offer a means of creating a collection. Collections are created
internally by Amazon only.

Related Topics

- Collections Response Group

Parent and Child Collection Items

In the preceding response, one of the items is the Collection Parent. All collections have one parent item
(CollectionParent) and one or more child items (CollectionItem). The parent item has an ASIN and title
but cannot be purchased. The title of the parent item names the collection. For example, in the previous
response snippet, the collection is named, "Fieldcrest® Classic Bedding Collection GarnetIvory."

Child items usually can be purchased. The only exception is when a child item is a variation parent
ASIN. For more information about variation parents, see Variations.

Variations and Collections are Different

At first, collections might seem to be the same as variations but there are important differences. Items
that are variations of one another are essentially the same item but in a slightly different form. For
example, the variation of a blue, large shirt would be the same shirt in a different size or color. Items in a
collection are fundamentally different from one another, for example, bed sheets and pillow cases could
belong to the same collection, as shown in the following figure.
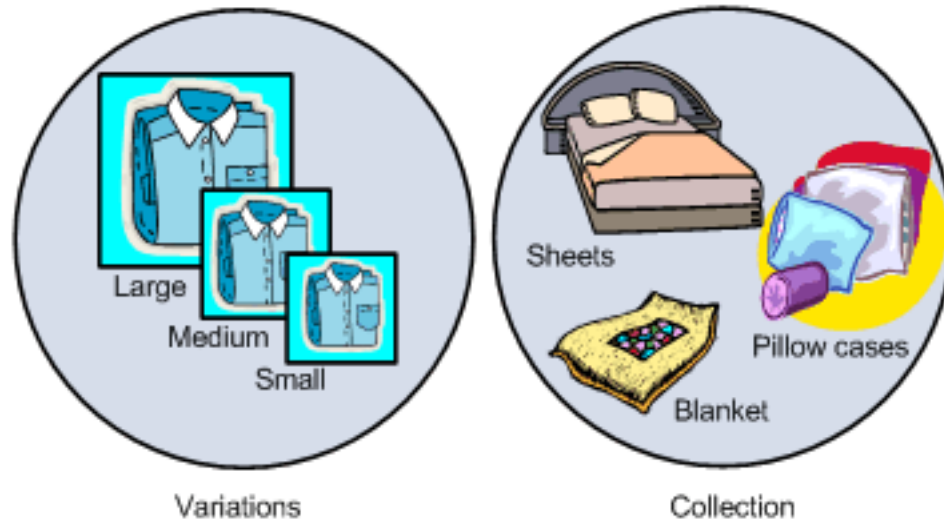
Tags

Tags are words that Amazon customers use to label entities on Amazon. Entities can be items for sale, Listmania lists, people, guides, images, and so forth. Tags enable customers to create their own organization of items. For example, a customer might tag many items as "PresentsForMom," or "WorkItems," or "DigitalCameras." Customers tag items using user interface tools located on Amazon's retail web site.

Tags can be as generic or as personal as the customer wants. For example, different customers might label the same book, "Romantic fiction," or "JohnSmith's pick." Each entity can aggregate as many non-repetitive tags as customers supply.

Tags can be:

- **Public**—Accessible by anyone and the tagger's name is displayed
- **Anonymous**—Accessible by anyone but the tagger's name is not displayed
- **Private**—Accessible only by the tagger and friends. The tagger's name is displayed

A customer can search on a tagger's name to find items they tagged as, for example, good, bad, or interesting. In this way, a customer can use a tagger for recommendations.

Customers can also share their tagging with friends for a variety of reasons, for example, to suggest gifts: "ForMyBirthday," "JohnnysGraduationPresent," and so forth.

To find items according to their tags, use the TagLookup operation with, optionally, one of the tag response groups:

- **TaggedGuides**—Returns all guides labeled by a specified tag
- **TaggedItems**—Returns all items labeled by a specified tag
- **TaggedListmaniaLists**—Returns all Listmania lists labeled by a specified tag
- **Tags**—Returns extensive information about an items tags, including the first time an item was tagged, the last time an item was tagged, the number of times an item was tagged, and so on
- **TagsSummary**—Returns all entities labeled with a specified tag

In the tag-related response groups, Tags and TagSummary specify the amount of informtion returned.

The other tag-related response groups, TaggedGuides, TaggedItems, and Tagged ListmaniaLists, specify the kind of entity tagged.

For example, the following request searches for entities tagged with the word, "GeorgesBestBooks."

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[Access Key ID]&
AssociateTag=[Associate Tag]&
Operation=TagLookup&
ItemId=0545010225&
ResponseGroup=Tags&
Marketplace=us&
Version=2008-06-26&
TagName=GeorgesBestBooks
```

Related Topics

- TaggedGuides Response Group

- TaggedItems Response Group

- TaggedListmaniaLists Response Group

- Tags Response Group

- TagsSummary Response Group

Lists

Topics
- Adding Items to Lists
- List Access Restrictions
- Amazon Associates Web Service Operations and Lists
- URLs for Lists
- Finding List IDs

Lists are collections of items for sale. Customers create lists and they apply their own logic for the items they place on the list. Customers create lists using the list creation tools on their Your Account page, which is found on www.Amazon.com.. Amazon Associates Web Service does not provide an operation to enable a customer to create a list.

`ListSearch` supports the following list types:

List	Description
BabyRegistry	Baby registries contain items that expectant parents want . Gift givers can find baby registries created on Amazon or other stores.
WeddingRegistry	Wedding registries contain items that a wedding couple wants.
WishList	Wish lists contain items for birthdays, anniversaries or any other special day. These lists help others know what the wishlist creator wants.

These lists are public by default after the user creates them. A user can, however, make the lists private

using the "Your Account" page, which is accessed as a tab on www.amazon.com. In those cases, the lists cannot be accessed by `ListSearch`.

The following Amazon lists are not supported by `ListSearch`:

• Purchase Sharing
• So You'd Like To...

Adding Items to Lists

The Small response group, and parent groups of it, return links that enable customers to add items to their baby registry, wedding registry, and wishlist.. For example, when you send an `ItemLookup` request and use the Small response group, the links included in the response will add the item to the appropriate list. The links look similar to the following:

• Add To Baby Registry
  `http://www.amazon.com/gp/registry/baby/add-item.html%3Fasin.0%3DB000IHL51S%26SubscriptionI`

• Add To Wedding Registry
  `http://www.amazon.com/gp/registry/wedding/add-item.html%3Fasin.0%3DB000IHL51S%26Subscript`

• Add To Wishlist
  `http://www.amazon.com/gp/registry/wishlist/add-item.html%3Fasin.0%3DB000IHL51S%26Subscript`

List Access Restrictions

On their Your Account web page, for each list, Amazon customers can set list access restrictions to one of the following values:

• **Public**—Lets everyone access the list
• **Private**—GLets only the list creator access the list
• **Shared**—Lets people designated by the list creator access the list.
  Amazon Associates Web Service functionality for the "Shared" value, however, is different. In Amazon Associates Web Service, only the list creator can access shared lists.

Wedding and baby registries are, by nature, meant to be public. For that reason, those lists are public by default, WishList and Listmania, however, are private by default. Customers can change the default settings using the Your Account web page.

Amazon Associates Web Service Operations and Lists

Amazon Associates Web Service operations take advantage of customer-created lists of items for sale. For example, you can find the list ID of a friend's list using `ListSearch` . Then use the list ID in `ListLookup` to view the items on their lists.

For more information about finding items on lists, see Finding Items on Lists.

URLs for Lists

Lists are displayed on a web page. The URL for the web page is returned by list-related response groups. For example, the following snippet is from a response formed by the ListInfo response group.

```
<ListId>BR4444442H77</ListId>
<ListURL>
  http://www.amazon.com/gp/registry/BR4444442H77
</ListURL>
```

As you can see in this response, the URL for a list has a common end point, http://www.amazon.com/gp/registry. The list ID is appended to create the full URL.

The end point varies by locale and list type. The following sections show the URLs you can use to display lists in all locales once you know the list ID. This shortcut enables you to avoid using a `ListLookup` request to return the list. The list URLs are also returned in the ListURL element in the ListInfo response group.

URLs for WishLists

If you know the WishList ID, you can display the list immediately by substituting the ID into one of the following URLs, depending on the locale:

- http://www.amazon.com/gp/registry/wishlist/*[ID]*
- http://www.amazon.co.uk/gp/registry/wishlist/*[ID]*
- http://www.amazon.de/gp/registry/wishlist/*[ID]*
- http://www.amazon.co.jp/gp/registry/wishlist/*[ID]*
- http://www.amazon.fr/gp/registry/wishlist/*[ID]*
- http://www.amazon.ca/gp/registry/wishlist/*[ID]*

URLs for Listmania Lists

If you know the Listmania ID, you can display the list immediately by substituting the ID into one of the following URLs, depending on the locale:

- http://www.amazon.com/exec/obidos/tg/listmania/list-browse/-/*[ID]*
- http://www.amazon.co.uk/exec/obidos/tg/listmania/list-browse/-/*[ID]*
- http://www.amazon.de/exec/obidos/tg/listmania/list-browse/-/*[ID]*
- http://www.amazon.co.jp/exec/obidos/tg/listmania/list-browse/-/*[ID]*
- http://www.amazon.fr/exec/obidos/tg/listmania/list-browse/-/*[ID]*
- http://www.amazon.ca/exec/obidos/tg/listmania/list-browse/-/*[ID]*

URLs for WeddingRegistry and BabyRegistry Lists

If you know the WeddingRegistry or BabyRegistry list ID, you can display the list immediately by substituting the ID into the following URL:

- http://www.amazon.com/exec/obidos/registry/*[ID]*

Finding List IDs

To find a list ID

- Use one of the following response groups with ListSearch:
  - ListFull

- Listinfo
- ListItems
- ListmaniaLists
- ListMinimum

The following request shows how to find a list ID.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ListSearch&
ListType=WishList&
Name=John%20Smith&
ResponseGroup=ListInfo
```

The following is a snippet from the response to this request: The list ID is returned on the second line. The response also shows how the list ID is part of the list's URL, as shown in the value of the ListURL element.

```
<List>
  <ListId>BR4444442H77</ListId>
  <ListURL>
    http://www.amazon.com/gp/registry/BR4444442H77
  </ListURL>
  <ListType>WishList</ListType>
  <TotalItems>70</TotalItems>
  <TotalPages>7</TotalPages>
  <DateCreated>1999-10-06</DateCreated>
  <CustomerName>John Smith</CustomerName>
</List>
```

Accessories

Some items for sale have associated accessories. For example, a camera might have, as accessories, a camera case, flash card, and battery, as shown in the following figure.

Each of these accessories has an item ID, such as an ASIN, as shown in the following response snippet. In this example, the main item, B00008OE6I, the camera, returned in the response comes with two accessories, B00003G1RG, a compact flash card, and B00004WCCT, a leather camera case.

```
<Item>
  <ASIN>B00008OE6I</ASIN>
  <Accessories>
    <Accessory>
      <ASIN>B00003G1RG</ASIN>
      <Title>Viking 128 MB CompactFlash Card (CF128M)</Title>
    </Accessory>
    <Accessory>
```

```
    <ASIN>B00004WCCT</ASIN>
    <Title>Canon Soft Leather Case for Canon Digital ELPH Camer
as(Black)</Title>
  </Accessory>
```

The following figure shows those items.

As you can see in this example, Amazon groups accessories with the main item for sale. Amazon Associates Web Service makes it easy to retrieve all of the accessories associated with a main item by using the Accessories response group in an **ItemLookup** or **ItemSearch** request. As you can see in the previous response snippet, each accessory listed in the response includes the accessory's title and item identifier, such as an ASIN.

☞   **Note**

When you have the item ID of the main item, the Accessories response group returns the item's accessories. The reverse, however, is not true, that is, if you have the item ID of an accessory, you cannot use the Accessories response group to return the main item or the other accessories associated with the main item.

Related Items

The *RelatedItems* response group returns information about items related to the one specified in an ItemLookup request. The item is specified in an ItemLookup request. Digital items include downloadable music (search index: MP3Downloads), downloadable video (search index: UnboxVideo), and digital books (search index: KindleStore). A related item could be, for example, all of the shows in a TV series that are available separately, or, for example, all of the songs on a CD.

The basis upon which the item(s) are related is specified by the *RelationshipType* parameter. The *RelatedItems* response group requires that you include in the ItemLookup request the *RelationshipType* parameter. Sample values include Episode, Season, Tracks, and Variation. For a complete list of values, see ItemLookup.

Each ItemLookup request can return, at most, ten related items. To return additional items, use the *RelateditemsPage* parameter. A value of 2, for example, returns the second set of ten related

items.For more information, go to the `ItemLookup`. page.

Requests

Topics

The Amazon Associates Web Service web service supports REST requests for remotely calling Amazon Associates Web Service operations hosted by Amazon servers. REST requests are simple HTTP requests, using either the GET method with parameters in the URL, or the POST method with parameters in the POST body. The response is an XML document that conforms to a schema.

You might use REST requests because they are more intuitive than their SOAP counterpart or because a SOAP toolkit is not available for your platform. The example requests used throughout this guide are in REST.

Anatomy of a REST Request

Amazon Associates Web Service REST requests are URLs, for example,

```
ht
tp://ecs.amazonaws.com/onca/xml?Service=AWSECommerceService&Operation=ItemSea
rch&AWSAccessKeyId=[Access Key D]&
AssociateTag=[ID]&SearchIndex=Apparel&Keywords=Shirt
```

If you substituted real IDs in this request and put the entire example in a browser, you would be sending Amazon Associates Web Service a request.

Although the preceding example is in the form you'd enter the request into a browser, it is difficult to read. For that reason, this guide would present the same request as follows:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
Operation=ItemSearch&
AWSAccessKeyId=[Access Key ID]&
AssociateTag=[ID]&
SearchIndex=Apparel&
Keywords=Shirt
```

General Request Format

Part of every Amazon Associates Web Service request is the same, the other part of the request changes according to the parameters used in the request, as shown in the following figure.

Request Terms that Remain the Same

The first two lines in the preceding example contain the endpoint, *http://ecs.amazonaws.com/onca/xml*, and the service name, AWSECommerceService.

Amazon hosts many web services in addition to Amazon Associates Web Service, including Mechanical Turk and S3. The service name in the request specifies that the request should be sent by the web servers to Amazon Associates Web Service. This line is always the same in every Amazon Associates Web Service request, regardless of locale:

```
Service=AWSECommerceService&
```

The endpoint value varies by locale but there are only two endpoints per locale. One endpoint in a locale is the secure version of the other endpoint. The following table lists the endpoints to use in Amazon Associates Web Service requests.

Locale	Endpoint
CA	http://ecs.amazonaws.ca/onca/xml https://aws.amazonaws.ca/onca/xml
DE	http://ecs.amazonaws.de/onca/xml https://aws.amazonaws.de/onca/xml
FR	http://ecs.amazonaws.fr/onca/xml https://aws.amazonaws.fr/onca/xml
JP	http://ecs.amazonaws.jp/onca/xml https://aws.amazonaws.jp/onca/xml
UK	http://ecs.amazonaws.co.uk/onca/xml https://aws.amazonaws.co.uk/onca/xml
US	http://ecs.amazonaws.com/onca/xml https://aws.amazonaws.com/onca/xml

The endpoint remains the same for all Amazon Associates Web Service requests, for example:

```
http://ecs.amazonaws.com/onca/xml
```

The third and fourth lines identify the request submitter. The AWSAcessKey Id is required; it helps identify the request submitter. You receive an AWS Access Key ID when you sign up with Amazon Associates Web Service.

Also included in every request is a signature. This is an SHA-1 encrypted value created using the developer's Secret Access Key, which given to every developer once they sign up to become an Associate. Because the AWS Access Key ID is sent in the clear, it cannot be used as the sole identity for authenticating the request. Instead, the AWS Access Key ID is used by the Amazon Associates Web Service to look up the Secret Access Key associated with it. If that value matches the one encrypted in the request's *signature* parameter, the request is processed.

The other identifier, *AssociateTag*, is optional. It is an ID for an Associate. If you are an Associate, you must include your Associate tag in each request to receive a referral fee for a customer's purchase.

Request Terms that Change

The remaining terms in the request vary significantly according to the operation chosen. The terms, however, follow a pattern, as shown in the next figure.
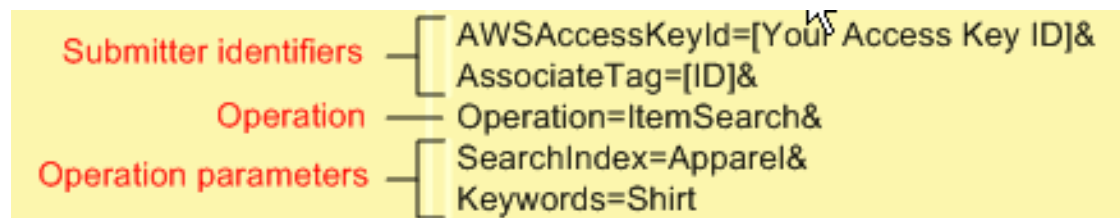
The *Operation* parameter is required. Its value is one of the Amazon Associates Web Service operations. These operations are described throughout this guide and in the *Amazon Associates Web Service API Reference Guide*.

The last lines, operation parameters, are representative of parameters that the operation requires, and optional parameters that the operation can use. Requests can contain zero or more operation (up to ten) parameters. These parameters are described in the discussion of each operation in the *Amazon Associates Web Service API Reference Guide*.

Response Groups

A special parameter that is optional for all Amazon Associates Web Service operations is *ResponseGroup*. Response groups control the kind of information returned by the request. For example, the Large response group returns a great deal of information about the items included in a response, whereas the Medium and Small response groups return less.

Besides these generic response groups, there are very specific ones. For example, if you want to return images of the items included in a response, you would include the Image response group in the request. If you wanted pricing information, you would include the Offer response group in the request. To get browsenode information, you'd include the BrowseNode response group. The specificity of the response groups enables you to return only the information you want.

Each Amazon Associates Web Service operation can only work with a subset of all Amazon Associates Web Service response groups. The valid response groups that each Amazon Associates Web Service operation can use is listed in the *Amazon Associates Web Service API Reference Guide*.

All Amazon Associates Web Service operations use some response group by default. So, specifying additional response groups is optional. Every Amazon Associates Web Service operation uses the Request response group, which echoes operation name and the input parameters sent in the request. The other response groups used by default vary by the operation. For example, `CartCreate`, `CartAdd`, and `CartModify` use, by default, the Cart response group, which provides detailed information about the items in a cart. The *API Reference Guide* lists the default response groups used by each operation.

Now, when you read requests in this guide, your eye should jump to the `Operation` parameter and all of the required and optional parameters associated with the specified Amazon Associates Web Service operation.

Request Limitations

Some Amazon Associates Web Service operations have many parameters and, as you will learn in a future section, you can combine multiple single requests in one, longer batch request. The upper limit is bounded by the maximum number of characters that can be in a request. The maximum number differs by browser. For example, the limit for a URL in Microsoft's Internet Explorer is a little more than 2000 characters. It would be unusual to have a request that approached this upper boundary.

REST Syntax

Topics

- Spaces in Requests
- Separator Characters
- Setting Parameter Values

One of the values of using REST is that its syntax is simple, which makes REST requests easy to read. This section summarizes all of the REST syntax rules that you must keep in mind when creating a REST request.

Spaces in Requests

Because a REST request is a URL, there can be no spaces between the parts of a request. A browser will stop reading when it runs across the first space. For example, if the last parameter read, `Keywords=Blue Shirts`, the request would end on "Blue." "Shirts" would never be read. If you have key words, such as names, that do have spaces in them, you must URL-encode the space using %20. For the preceding example to work, you would include a URL-encoded space, as follows.

```
Keywords=Blue%20Shirts
```

The same problem occurs if you put spaces between the parameters in a request, for example,

```
SearchIndex=Apparel& Keywords=Shirt
```

In this example, the request would end with "Apparel&." Often, this kind of mistake returns an error because parameters required by the operation are not read. So, make sure to remove all spaces within a request.

Separator Characters

The question mark (?) and ampersand (&) separate the terms in a REST request. The first term in the request must always be the endpoint, which, in the preceding example, is,*http://ecs.amazonaws.com/onca/xml*. A question mark always follows the endpoint. The question

mark tells the Amazon Associates Web Service web servers to start parsing the request for parameters.

Ampersands separate all of the other parameter name-value pairs in the request. The order of the parameter name-value pairs is inconsequential, as long as they all occur after the question mark.

Setting Parameter Values

Topics
- Parameter Names and Values are Case Sensitive
- Compound Parameters

Request parameter values are set using the format:

```
ParameterName=value
```

The following example is a parameter/value pair.

```
Operation=ItemSearch
```

Parameter values must be URL-encoded. There are some characters, such as an asterisk or space, that cannot go into a URL. There are equivalents of these characters that you use in requests instead. For example, the URL encoded equivalent of a space is %20. So, instead of writing `Name=John Smith` you would write `Name=John%20Smith`

Parameter Names and Values are Case Sensitive

Parameter names and values are case sensitive. For example, the following declaration is fine.

```
SearchIndex=Apparel
```

The following examples return errors because the capitalization is incorrect.

```
Searchindex=Apparel
SearchIndex=apparel
```

As you can see in these examples, parameter names and values start with capitals. If the name or value is a compound word, the beginning of each new word is capitalized, for example, in the parameter name, SearchIndex, the "I" is capitalized.

Compound Parameters

The vast majority of parameters can be specified in a REST request using just the name of the parameter and an appropriate value, with the value URL-encoded to make the request a valid URL, for example:

```
Author=Steve%20Davenport
```

Some parameters, however, can be repeated in a request. In that case, the parameter names are differentiated by adding a period (.) after the parameter name and then a sequence number, for example:

```
Item.1=1234&
Item.2=2345
```

Other parameters can be repeated but, in addition, have associated parameters. These parameters extend the preceding example by adding another period and the associated parameter name, for example:

```
Item.1.ASIN=3456789123&
Item.1.Quantity=2
```

In this example, the item being added to a shopping cart has an identifier, the ASIN, and a quantity value. The equivalent expression in an XML document is, for example:

```
<Item>
   <ASIN>3456789123</ASIN>
   <Quantity>2</Quantity>
</Item>
```

The sequence number associates the identifier and its quantity value. The following example shows two compound parameters.

```
Item.1.ASIN=3456789123&
Item.1.Quantity=2&
Item.2.ASIN=123456&
Item.2.Quantity=1
```

The sequence numbers associate the ASIN and quantity values. This means that the compound parameters can be written in a different order without causing a problem.

```
Item.1.ASIN=3456789123&
Item.2.ASIN=123456&
Item.1.Quantity=2&
Item.2.Quantity=1
```

SOAP Requests

Amazon Associates Web Service supports the SOAP message protocol for calling Amazon Associates Web Service operations over an HTTP connection. The easiest way to use the SOAP interface with your application is to use a SOAP toolkit appropriate for your platform. SOAP toolkits are available for most popular programming languages and platforms.

The service's Web Services Definition Language (WSDL) file describes the operations and the format and data types of their requests and responses. Your SOAP toolkit interprets the WSDL file to provide your application access to the operations. For most toolkits, your application calls a service operation using routines and classes provided or generated by the toolkit.

For more information, see WSDL Locations.

The Structure of a SOAP Request

A SOAP request is an XML data structure generated by a SOAP toolkit that is sent to a web service. The root element of this structure is named after the operation and contains the values for the operation's parameters.

The root element of every request must contain:

- A value for AWSAccessKeyId to authenticate the request.
  For more information, see AWS Access Key ID.

- An endpoint, which is the destination for the request.
  For more information, see Request Terms That Remain the Same.

- A request element, which contains the values for the operation's parameters.

The API Reference describes all of the Amazon Associates Web Service operations and their parameters. The Amazon Associates Web Service WSDL shows how the operation parameters appear in the XML request generated by your toolkit.

SOAP Endpoints

SOAP requests use endpoints in their requests. The endpoint value varies by locale but there are only two endpoints per locale. One endpoint in a locale is the secure version of the other endpoint. The following table lists the endpoints to use in Amazon Associates Web Service SOAP requests.

Locale	Endpoint
CA	http://ecs.amazonaws.ca/onca/soap https://aws.amazonaws.ca/onca/soap
DE	http://ecs.amazonaws.de/onca/soap https://aws.amazonaws.de/onca/soap
FR	http://ecs.amazonaws.fr/onca/soap https://aws.amazonaws.fr/onca/soap
JP	http://ecs.amazonaws.jp/onca/soap https://aws.amazonaws.jp/onca/soap
UK	http://ecs.amazonaws.co.uk/onca/soap https://aws.amazonaws.co.uk/onca/soap
US	http://ecs.amazonaws.com/onca/soap https://aws.amazonaws.com/onca/soap

The XML Message for an ItemSearch SOAP Request

The following example is the XML for a SOAP message that calls the ItemSearch operation. While you will probably not be building the SOAP message for a service request manually, it is useful to see what your SOAP toolkit produces when provided with the appropriate values. Many SOAP toolkits require that you build a request data structure similar to the XML to make a request.

The *ItemSearch* element contains the parameters common to all requests. The *Request* element contains the ItemSearch parameters, SearchIndex and Keywords.

```
<?xml version="1.0" encoding="UTF-8" ?>
<soapenv:Envelope
    xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <ItemSearch        xm
lns="http://ecs.amazonaws.com/AWSECSCommerce/onca/soap">
```

```
        <AWSAccessKeyId>0PAP1H1P8JJVZEXAMPLE</AWSAccessKeyId>
        <Request>
          <SearchIndex>Books</SearchIndex>
          <Keywords>Harry%20Potter</Keywords>
        </Request>
      </ItemSearch>
    </soapenv:Body>
</soapenv:Envelope>
```

Batch and Multiple Operations Requests

Topics
- Batch Requests
- Multiple Operation Requests

The requests presented so far contain only one operation. Amazon Associates Web Services enables you to improve performance by submitting more than one request at the same time. There are three ways to do this:

- **Batch request**—A request that uses one operation with up to two sets of parameters.
- **Multiple operations request**—A request contains more than one operation. This kind of request can combine simple and batch requests.
- **Multiple ItemIds**—In an `ItemLookup` request, you can include up to ten comma-separated values for `ItemId`.

Batch Requests

Topics
- Parameters That Differ
- Shared Parameters
- Performing Multiple ItemLookups in One Request

There might be times when you want to use the same operation in two requests, each one using different input parameters. For example, you might want to run an `ItemLookup` request several times, each time looking up a different item. To accomplish this task, you can submit two requests or one batch request.

The following figure shows how two simple requests can be combined into one batch request.
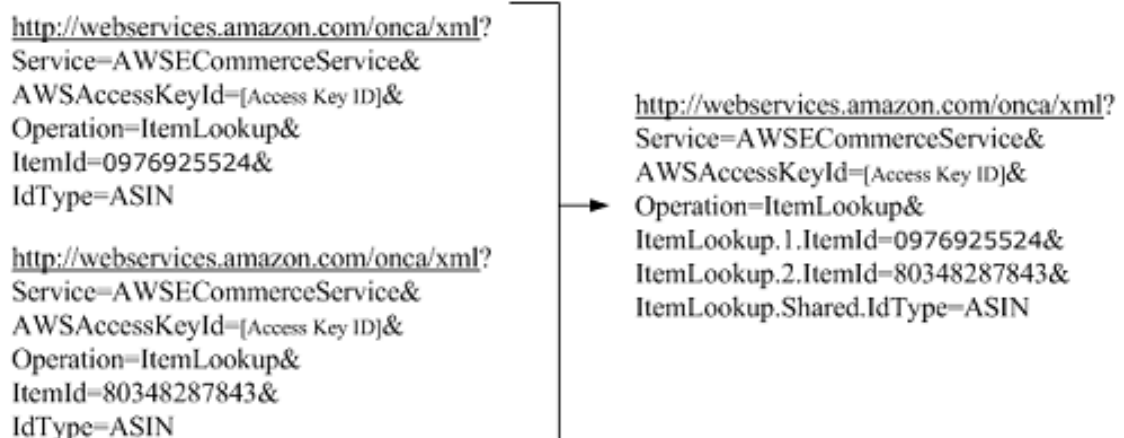
The new syntax introduced in the batch request centers on the ways in which the operation parameters are defined. Either the parameter values are different or they are shared between the simple requests in the batch request.

Batch requests can contain up to two sets of parameters.

☞ **Note**

> The Amazon Associates Web Service supports `ItemLookup` batch requests only when the *ItemType* is an EAN (European Article Number), ISBN (International Standard Book Number), or ASIN (Amazon Standard Item Number).

Parameters That Differ

Parameters that differ between the simple requests in a batch request are identified by a reference number. The following parameter declaration syntax shows where the reference number goes.

```
OperationName.ReferenceNumber.Parameter=Value
```

The following request snippet shows an example of a reference number, 1.

```
ItemLookup.1.ItemId=0976925524
```

The *ReferenceNumber* is a positive integer that associates the parameters in the simple request. For example, the following parameters are part of the same simple request because they use the same reference number.

```
ItemLookup.1.ItemId=0976925524&
ItemLookup.1.ResponseGroup=Images
```

These parameters might be different from a second simple request, which is part of the same batch request.

```
ItemLookup.2.ItemId=0485935524&
ItemLookup.2.ResponseGroup=Collections
```

So, if the previous two request snippets were part of one batch request, the `ItemLookup` operation would be executed twice, each time with a different *ItemId* and *ResponseGroup*.

In one batch request, you can have up to two different reference numbers. For example, the following request snippet exceeds the number of allowed reference numbers in one batch request.

```
ItemLookup.1.ItemId=0976925524&
ItemLookup.2.ItemId=0485935524&
ItemLookup.3.ItemId=0792335535&
```

Shared Parameters

There are times when the parameter values for the simple requests in a batch request are the same, for example, `ItemType=ASIN`. In this case, instead of using a ReferenceNumber for each simple request, you can substitute the special value, "Shared," for example:

```
ItemLookup.Shared.ItemType=ASIN
```

The following parameter declarations show the equivalent of the preceeding declaration.

```
ItemLookup.1.ItemType=ASIN&
ItemLookup.2.ItemType=ASIN
```

Both forms of the request work but using the special value, Shared, reduces the amount of typing required. Generally, you only use the Shared value with required parameters. Optional parameters do not need to be included in the request and their default values, if any, are assumed and thus shared across the simple requests in the batch request.

Performing Multiple ItemLookups in One Request

The other way to execute multiple `ItemLookup` requests in one request is to use a comma-separated list of *ItemIds*, for example:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemLookup&
ItemId=B00008OE6I,B35987036I,B0002546I,B25468OE6I,B09788OE6I,B00453OE6I&
IdType=ASIN&
ResponseGroup=OfferFull&
Condition=All&
MerchantId=All
```

The preceding example shows six *ItemId*s in the request, which means `ItemLookup` will be executed six times, one for each *ItemId*. You can specify up to ten *ItemId*s.

> **Tip**
>
> Be careful not to introduce spaces before or after the commas in the comma-separated list of *ItemId*s.

Multiple Operation Requests

Amazon Associates Web Service requests can include up to two operations. These requests, called multiple operations requests, can be a combination of any number of simple and/or batch requests. The following figure shows how two simple requests can be combined into one multiple operations request, as follows:
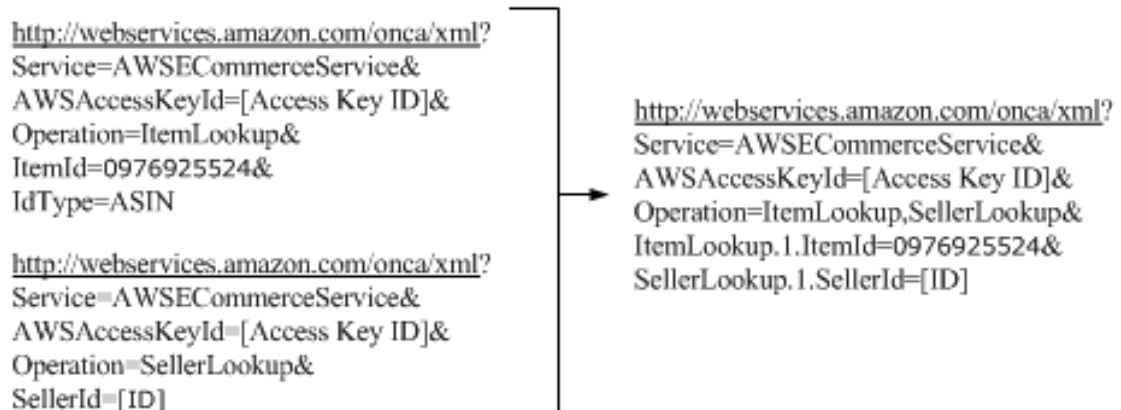
The syntax to declare parameters in a multiple operations request is the same as it is in a batch request.

A multiple operations request differs from a batch request in the definition of the Operation parameter. In a multiple operations request, the value of Operation is set to two, comma-separated operations.

Multiple operations requests can have only two different operations. One operation in the request, however, can be used as a batch operation so that it is used more than once. Extending the previous example, a valid multiple operations request could be as follows:

```
http://webservices.amazon.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[Access Key ID]&
Operation=ItemLookup,SellerLookup&
ItemLookup.1.ItemId=0976925524&
ItemLookup.2.ItemId=123456789&
ItemLookup.Shared.IdType=ASIN&
SellerLookup.1.SellerId=[ID]
```

In this request, `ItemLookup` is called twice and `SellerLookup` is called once.

Parameters Common to All Amazon Associates Web Service Requests

Topics

- Required Parameters
- General, Optional Parameters
- XSL Parameters
- XML-Encoding Parameters
- Debugging Parameters
- Help with Operations and Response Groups

Amazon Associates Web Service operations use a variety of required and optional parameters. The API Reference Guide describes the parameters that each operation can use.

There are, however, a number of parameters that all operations can use. These parameters can be grouped into types.

The following sections describe these parameter types.

Required Parameters

The parameters in the following table are required in every request.

Parameter	Value	Description
Service	AWSECommerceService	Specifies the Amazon Associates Web Service service
AWSAccessKeyId	Your Amazon-assigned Access Key ID	To register for an Access Key ID from the Amazon Web site, go to http://aws.amazon.com. Every Amazon Associates Web Service 4.0 request must contain either an Access Key ID or a Subscription ID but not both.

Parameter	Value	Description
SubscriptionId	Your Amazon-assigned subscription ID	Every Amazon Associates Web Service 4.0 request must contain either an Access Key ID or a Subscription ID but not both. Starting with version 2005-10-05, Amazon Associates Web Service stopped distributing Subscription IDs. If you already have one, it will continue to work.
Operation	Operation you wish to perform, for example, `ItemLookup`	One of the Amazon Associates Web Service operation types.

Related Topics

- Operations

General, Optional Parameters

The parameters in the following table can be used optionally in any Amazon Associates Web Service request.

Parameter	Value	Description
AssociateTag	An Amazon-assigned Associate ID	The `AssociateTag` enables product URLs returned by Amazon Associates Web Service to be tagged as originating from your Associates Web site. To receive a referral credit for a sale, you must include an AssociateTag value in a `CartCreate` request. Be sure to specify the value correctly; no error is generated for incorrect values.
MerchantId	An alphanumeric token assigned by Amazon to a merchant.	`MerchantId` can have three settings: All, in which all merchants are included in the response, an alphanumeric identity that specifies a single merchant, or "FeaturedBuyBoxMerchant," which returns the merchant identified as the "Buy Box Winner" on a specific detail page. The "Buy Box Winner" is the merchant associated with the sale of the item listed in the Buy Box, which is the box on an item's detail page that enables you to add an item to a shopping cart. The default value for MerchantId is "Amazon."
ResponseGroup	Various	Specifies what subset of data to return. The API Reference Guide specifies the response groups that can be used with each operation..
Version	Various	Version of the Amazon Associates Web Service 4.0 WSDL. The default is 2005-10-05. If you want another version, including the latest, you must specify it in your request.

XSL Parameters

If you are using an XSL stylesheet to specify the output returned by Amazon Associates Web Service, you may need to include some or all of the following (optional) parameters:

Parameter	Value	Description
Style	"XML", the default, or the URL of an XSL stylesheet	The *Style* parameter applies to REST requests only. Use the *Style* parameter to control the format of the data returned by Amazon Associates Web Service. Set this parameter to "XML" to generate a pure XML response. Set this parameter to the URL of an XSL stylesheet to have Amazon Associates Web Service transform the XML response to another format you specify.
ContentType	"text/xml", the default, or "text/html"	The *ContentType* parameter is valid for REST requests only. The *ContentType* set in your request is returned as the content type in the HTTP headers of the response that Amazon Associates Web Service returns. Generally *ContentType* should only be changed when it is being used in conjunction with an XSLT stylesheet specified with the *Style* parameter. When you use a stylesheet to transform your Amazon Associates Web Service response to HTML, set this parameter to text/html.

For more information, go to Transforming Amazon Associates Web Service Responses into HTML Using XSLT

XML-Encoding Parameters

Another optional parameter is provided, that you may need in some environments:

Parameter	Value	Description
XMLEscaping	"Single", the default, or "Double"	*XMLEscaping* specifies whether responses are XML-encoded in a single pass or a double pass. By default, *XMLEscaping* is "Single," and Amazon Associates Web Service responses are encoded only once in XML. For example, if the response data includes an ampersand character (&), the character is returned in its regular XML encoding (&). If *XMLEscaping* is "Double," the same ampersand character is XML-encoded twice (&). The Double value for *XMLEscaping* is useful in some clients, such as PHP, that do not decode text within XML elements.

Debugging Parameters

To debug a request or application

- Use the *Validate* parameter described in the following table.

Parameter	Value	Description
Validate	"False", the default, or "True"	Use the *Validate* parameter to have Amazon Associates Web Service test your request without actually executing it. When present, *Validate* must equal "True." If the request is valid, the response will contain an element called IsValid with a value of True. If the request is invalid, the response will contain 1) an element called IsValid with a value of False and 2) the errors that would be returned if the request were actually executed. Notes: Since the request is not actually executed, only a subset of the errors for the request may be returned. This is because some errors (e.g., no_exact_matches) are only generated during execution of a request.

We also recommend that you include the *Request* response group for help with debugging. The Request response group echoes back the parameters used to generate the response and allows you to verify that your request was received correctly.

Help with Operations and Response Groups

The Amazon Associates Web Service operation, Help, returns all of the required and optional input parameters for Amazon Associates Web Service operations, and all of the item attributes returned by Amazon Associates Web Service response groups. For example, to see the parameters for **CartAdd**, use the following request.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=Help&
HelpType=Operation&
About=CartAdd
```

A snippet from the response shows the operation's parameters.

```
<OperationInformation>
  <Name>
         CartAdd
      </Name>
  <RequiredParameters>
    <Parameter>AssociateTag</Parameter>
    <Parameter>CartId</Parameter>
    <Parameter>HMAC</Parameter>
    <Parameter>Items</Parameter>
  </RequiredParameters>
  <AvailableParameters>
    <Parameter>AWSAccessKeyId</Parameter>
    <Parameter>ContentType</Parameter>
    <Parameter>Marketplace</Parameter>
    <Parameter>MarketplaceDomain</Parameter>
    <Parameter>MergeCart</Parameter>
    <Parameter>Style</Parameter>
    <Parameter>Validate</Parameter>
    <Parameter>Version</Parameter>
    <Parameter>XMLEscaping</Parameter>
  </AvailableParameters>
```

HelpType is either "Operation" or "ResponseGroup." The *About* parameter is set to an Amazon Associates Web Service operation or response group.

Responses

In response to a request, the Amazon Associates Web Service web service returns an XML document that contains the results of the call in an XML data structure. This data conforms to a WSDL and schema.

For REST requests, this data structure is simply the body of the HTTP response. You can use a data binding method for REST responses, or use an XML parser directly to process the information.

For SOAP requests, the data structure is the SOAP message body of the response. SOAP toolkits typically convert the response data into structures for use with your programming language, or allow you to specify your own data bindings.

Other than the use of a message envelope in the SOAP response, REST and SOAP responses are identical. Both conform to the Amazon Associates Web Service schema. The SOAP WSDL imports an XSD file to define the response messages. REST users can access the XSD file directly. For more information, see WSDL Location.

Anatomy of a Response

Amazon Associates Web Service responses vary according to the operations and parameters submitted in the request. There are, however, segments of the response that are common across all responses, as shown in the following figure.

```
<?xml version="1.0" encoding="UTF 8" ?>
<ItemLookupResponse xmlns="http://webservices.amazon.com/
  AWSECommerceService/2006-09-13">
<OperationRequest>
 <HTTPHeaders>
  <Header Name="UserAgent" Value="Mozilla/4.0 (compatible; MSIE 6.0;
    Windows NT 5.1; SV1; .NET CLR 1.1.4322; .NET CLR 2.0.50727)" />
 </HTTPHeaders>
 <RequestId>1Z7F948WCDAWRW1T6CFH</RequestId>
 <Arguments>
  <Argument Name="Operation" Value="ItemLookup" />
  <Argument Name="Service" Value="AWSECommerceService" />
  <Argument Name="AWSAccessKeyId"
    Value="1V9M7E1EXAMPLE" />
  <Argument Name="ItemId" Value="0976925524" />
  <Argument Name="IdType" Value="ASIN" />
 </Arguments>
 <RequestProcessingTime>0.0174400806427002</RequestProcessingTime>
</OperationRequest>
<Items>
 <Request>
  <IsValid>True</IsValid>
  <ItemLookupRequest>
   <IdType>ASIN</IdType>
   <ItemId>0976925524</ItemId>
  </ItemLookupRequest>
 </Request>
 <Item>
  <ASIN>0976925524</ASIN>
  <DetailPageURL>http://www.amazon.com/gp/redirect.html%3
    FASIN=0976925524%26tag=ws%26lcode=xm2%26cID=2025%26
    ccmID=165953%26location=/o/ASIN/0976925524%253F
    AWSAccessKeyId=1V9M7E1EXAMPLE
  </DetailPageURL>
  <ItemAttributes>
   <Author>Stephen Davenport</Author>
   <Manufacturer>H.H. Bonnell</Manufacturer>
   <ProductGroup>Book</ProductGroup>
   <Title>Saving Miss Oliver's: A Novel of Leadership, Loyalty and Change</
Title>
  </ItemAttributes>
 </Item>
</Items>
</ItemLookupResponse>
```

- Versioning Information
- HTTP Header Information
- Request Echoed
- Arguments In Request
- Request Validation
- Item Attributes

The following sections describe each segment in this response.

Version Information Segment

The first two lines of every response contain version information. The first line details the XML version used, which, in this example, is 1.0. The first line also includes the character encoding, which, in this example, is UTF-8.

The second line of every response contains the name of the response, which is named after the operation in the request. In this example, the `ItemLookup` operation returns a response element named

`ItemLookup`Response

The second line also contains the version of Amazon Associates Web Service used to create the response. In this example, the version number is 2006-09-13. If a version is not specified in a request, Amazon Associates Web Service uses the default version, 2005-10-05. Make sure to specify the latest version number if you want the latest Amazon Associates Web Service functionality.

Operation Request Segment

The second segment of a response is always the Operation Request. For the most part, it returns the operation's parameters, called arguments, that were used in the request. There is, however, some additional information. The first large subsection is the HTTPHeader section, which specifies the network agent used to send the request. Typically, the agent, called the user agent, is a web browser and the information returned describes that browser, such as its name, version, and the operating system of its host.

The second large subsection contains the arguments, or operation parameters, used in the request. These values are unprocessed echoes of the values submitted in the request. This information is echoed for the benefit of troubleshooting requests.

Finally, interspersed around the large subsections in the Operation Request segment is Amazon Associates Web Service processing information, including the Request ID and the time it took to process the request. This is interesting information for troubleshooting. You will not, however, have to use either the Request ID or the processing time in future requests.

Request Validation Segment

The segments described so far are typically less interesting than the ones that follow. The Request Validation segment contains error information if there was an error in the request. It is also the last segment that Amazon Associates Web Service returns in a response if there was an error.

In the preceding example, the request was valid, as shown in the IsValid element:

`<IsValid>True</IsValid>`

The IsValid element pertains only to the validity of the request. It reports whether all of the required elements of a request are present, whether parameter restrictions and constraints have been obeyed, and whether parameter values are legal. IsValid does not assure that a valid request will be processed by Amazon Associates Web Service. For example, an *ItemId*, such as, 1234ABCD, is in the correct form, but no items in Amazon's catalog match that *ItemId*, so, the request would be valid but would return an error.

There are many reasons why a request can fail, as described in the following table.

Problem	Description
Incorrect parameters supplied	The request is missing parameters that an operation requires, or the combination of parameters is not allowed, or the Service parameter was omitted.
	In this case, the IsValid value is "False" and the request is not processed by Amazon Associates Web Service. Common mistakes that cause these errors are spaces in the URL that prevent Amazon Associates Web Service from reading the entire request, or misspelled and mis-capitalized parameter names or values.
	If you inadvertently enter a space in a request,

Problem	Description
	your browser automatically enters the URL-encoded form of a space: %20. For example, if you paste, ItemId= B12345, into your browser as part of a request, the URL field in the browser shows, ItemId=%20B12345.
Invalid values	The request might be syntactically correct but the values for one or more parameters might be invalid. For example, you might supply an ItemId value that does not match any item sold on Amazon.
	In this case, the IsValid value is "True" but an error message is returned that says that the value is "not a valid value for ItemId. Please change this value and retry your request."
Empty result	The request is valid but there is no data that matches the search criteria. In this case, the IsValid value is "True." Remember that parameter names and values are case sensitive.
Network or processing error	The request is valid but a network outage or processing failure has caused Amazon Associates Web Service to return an empty response. In this case, the IsValid value is "True."
Partial request errors	Amazon Associates Web Service returns as much information as possible. For example, if you use a batch request and Amazon Associates Web Service finds items for one request but not the other, Amazon Associates Web Service returns all of the information for the found item and an error message for the other request.

When one of these errors occurs, the IsValid value is False and Amazon Associates Web Service returns an error element in the Request Validation segment. The error element includes:

• Error code—The title of the error.

• Error message—A brief description of the error condition.

The following example shows an error message.

```
<Errors>
  <Error>
    <Code>missing_service_parameter</code>
    <message>Your request is missing the Service parameter. Please add the
Service parameter to your request and retry. Valid values for the Service
parameter include AWSEcommerceService.</message>
  </Error>
</Errors>
```

The more difficult error to assess is a request that is valid, that is processed, but contains an error in logic. For example, a request might use default values such that only items in new condition are returned when the requester meant to return items in all conditions.

The remainder of the Request Validation segment is a subsection named after the operation used in the request. In this example, the subsection is named `ItemLookup`Request. This subsection echoes the parameter values used in the request. These values are returned for the purpose of troubleshooting the request.

Item Attributes Segment

Assuming that your request is valid, the final segment of the response that contains the item attributes is typically the part of the response that contains the most value. This segment contains all of the descriptive information about the items that satisfied the request. In the preceding example, one item was found that satisfied the search criteria. Many attributes are returned that describe that item, including, the title, "Saving Miss Oliver's: A Novel of Leadership, Loyalty and Change."

The item attributes returned in a response vary according to the response group used and the items found. Merchants do not always provide Amazon with a single set of item attributes. For example, one merchant might supply the name of a book's publisher, another might not. A response contain both of these books would therefore contain a different set of item attributes. Item attributes that do not have values are not returned. The API Reference Guide describes the item attributes that can be returned by each response group.

Paging and Sorting Through Responses

Topics
- Paging Through Results
- Sorting Results

The only drawback of having so many items at your fingertips is the possibility of receiving too many in a response. Amazon Associates Web Service handles this problem in several ways:

- Results are returned on page, generally, up to ten results per page
- The Sort parameter orders results

Paging Through Results

It is possible to create a request that returns many thousands of items in a response. This is problematic for several reasons. Returning all of the item attributes for those items would dramatically impact the performance of Amazon Associates Web Service in a negative way. Also, posting a thousand responses on a web page is impractical.

For that reason, Amazon Associates Web Service developed the strategy of returning results a little at a time. The good news is that you can return any page of results. For example, the first request can return the last of results. To do that, you have to specify the desired page of results using one of the parameters that enable you to return result pages.

To page through results

- Use the appropriate paging parameter in the request. Operations have their own paging parameters. For example, the following `ItemSearch` request uses ItemPage to ask for the fourth page of results.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
Keywords=Potter&
SearchIndex=Books&
ItemPage=4
```

The following snippet of the response shows that the fourth page of results has been returned.

```
<ItemSearchRequest>
  <ItemPage>4</ItemPage>
  <Keywords>Potter</Keywords>
  <SearchIndex>Books</SearchIndex>
</ItemSearchRequest>
</Request>
<TotalResults>9729</TotalResults> <TotalPages>973</TotalPages>
```

This example shows that 9729 items matched the search criteria. Also, it shows that those results are on 973 (~9729/10) pages. You might try putting in an *ItemPage* value over 400. If you do, Amazon Associates Web Service returns the following error:

```
<Error>
  <Code>AWS.ParameterOutOfRange</Code>
  <Message>The value you specified for ItemPage is invalid. Valid values must
be between 1 and 400.</Message>
</Error>
```

So, how do you get that 973rd page? You cannot. A better approach is to submit a new request that is more targeted and yields fewer items in the response.

Maximum Number Of Returned Pages

The last example showed that Amazon Associates Web Service returns only so many pages for any one request. This is because performance must be optimized for the tens of thousands of Amazon Associates Web Service developers and customers. For that reason, many Amazon Associates Web Service operations have pagination parameters and associated maximum values, as shown in the following table.

Operation	Parameter Name	Maximum Page Number
ItemLookup	VariationPage	150
ItemLookup	ReviewPage	20
ItemLookup	OfferPage	100
ItemSearch	ItemPage	400
ListLookup	ProductPage	30
ListSearch	ListPage	20
CustomerContentLookup	ReviewPage	10
CustomerContentSearch	CustomerPage	20

These parameters are defined in the section of the API reference that describes the associated operation.

Sorting Results

The following Amazon Associates Web Service operations have a *Sort* parameter that arranges results:

- `ItemSearch`
- `ListLookup`
- `SellerListingSearch`

To Sort Results

1. Consult the appendix, APPNDX_SortValuesArticle Sort Values, to determine available sort values. Available sort values vary by locale and search index.

2. Add the Sort parameter to a request that uses one of the preceding operations.

For example, the following request returns books with "Harry Potter" in their title or description in alphabetical order.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=1MEXAMPLEZBG2&
Operation=ItemSearch&
Keywords=Harry%20Potter&
SearchIndex=Books&
Sort=titlerank&
ItemPage=29&
Version=2006-09-13
```

A small snippet of the response shows that the book titles are returned in alphabetical order.

```
<Title>Aventuras de Harry Potter, Las</Title>
...
<Title>Beacham's Sourcebook For Teaching Young Adult Fiction: Exploring Harry
Potter</Title>
...
<Title>Beatrix Potter to Harry Potter: Portraits of Children's
Writers</Title>
```

Amazon Associates Web Service provides many different sorting criteria, for example, price (high to low, or low to high), salesrank (best to worst selling, or worst to best selling), publication date, review rank, and release date. Valid sort parameters vary by search index, for example, the DigitalMusic search index can be sorted by UploadedDate. That value for *Sort* would not make sense in the Automotive search index, for example. Sort parameters also differ by locale.

For more information about sort values by locale and search index, see the appendix, ItemSearch Sort Values By Locale

Default Sort Values

There are many sort values. The majority are not applied unless the *Sort* parameter is included in the request. There are two sort values, however, that are used by default.

- For `ItemSearch` requests that do not use the *BrowseNode* parameter, results are sorted by Relevance
- For `ItemSearch` requests that do use the *BrowseNode* parameter, results are sorted by BestSeller ranking

Transforming Amazon Associates Web Service Responses into HTML Using XSLT

Topics

- XSLT Service URLs
- Creating an XSL Style Sheet

Perhaps you want to use a different set of tags in Amazon Associates Web Service responses than those that are returned by default. For example, because you want to display responses on a web page, you want to turn the responses into HTML. You have two choices: you can receive the default Amazon Associates Web Service response and then transform it into HTML (or another set of XML tags) or you can tell Amazon Associates Web Service to do the transformation for you so that the result is ready for you to use. To make Amazon Associates Web Service do the work for you, you just need to reference an XSL stylesheet in your Amazon Associates Web Service request.

Amazon Associates Web Service provides an XSLT (Extensible Stylesheet Language Transformation) service to ensure that even novice developers can produce rich content without complex parsing or programming. XSL is an XML-based language for transforming XML tags into HTML or any other set of XML tags. To use the Amazon Associates Web Service XSLT service, the request must be in REST, and the XSL style sheet must be referenced using the Style input parameter.

To transform the response

- Include the *Style* parameter in your request.

  The referenced stylesheet must be publically accessible.

For example, the following `ItemSearch` request specifies the XSLT stylesheet *http://ecs.amazonaws.com/xsl/aws4/item-search.xsl*.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemLookup&
IdType=ASIN&
ItemId=B00008OE6I&
ResponseGroup=Large&
Style=http://ecs.amazonaws.com/xsl/aws4/item-search.xsl
```

XSLT Service URLs

For security reasons, Amazon Web Services use a different set of domains for processing XSLT requests. XSLT requests sent to the standard domains (for example, *http://ecs.amazonaws.com*) are re-directed. If your web client does not support re-directs, you must send your XSLT requests directly to one of the domains, as shown in the following table.

Locale	URL
CA	xml-ca.amznxslt.com
DE	xml-de.amznxslt.com
FR	xml-fr.amznxslt.com
JP	xml-jp.amznxslt.com

Locale	URL
UK	xml-uk.amznxslt.com
US	xml-us.amznxslt.com

Creating an XSL Style Sheet

It is beyond the scope of this book to explain in detail how to create an XSL style sheet. To see a sample style sheet, go to http://ecs.amazonaws.com/xsl/aws4/item-search.xsl .

You use "xmlns" to define a namespace prefix at the top of the style sheet. You may name the namespace prefix anything, however, the namespace URL must match the namespace URL that is returned in the Amazon Associates Web Service response. The preceding example uses "aws" as the namespace prefix, as follows:

```
xmlns:aws="http://xml.amazon.com/AWSECommerceService/2006-09-13">
```

Once you have created a namespace prefix, use it to match elements in the Amazon Associate Web Service response. For example, if you are trying to match an element called "ItemLookupResponse," and your prefix is "aws," the matching string would be aws:ItemLookupResponse.

The following example shows how and where the namespace prefix should be used.

```
<xsl:template match="/">
  <xsl:apply-templates select="aws:Items/aws:Item"/>
</xsl:template>
<xsl:template match="aws:Items/aws:Item">
  <tr>
    <td style="border-bottom:C0C0C0 dotted 1px;padding:10px">
      <table cellpadding="0" cellspacing="0" style="width: 90%;padding:5px">
        <tr>
          <xsl:if test="aws:SmallImage/aws:URL">
            <td valign="top" width="50">
              <img>
                <xsl:attribute name="src">
                  <xsl:value-of select="aws:SmallImage/aws:URL" />
                </xsl:attribute>
                <xsl:attribute name="border">0</xsl:attribute>
              </img>
            </td>
          </xsl:if>
          <td valign="top">
            <xsl:value-of select="aws:ItemAttributes/aws:Title" />
            <br />
            <span style="font-size:10px">
              <xsl:if test="aws:ItemAttributes/aws:Author">
                by <xsl:value-of select="aws:ItemAttributes/aws:Author" />
              </xsl:if>
              <xsl:if test="aws:ItemAttributes/aws:Artist">
                by <xsl:value-of select="aws:ItemAttributes/aws:Artist" />
              </xsl:if>
              <xsl:if test="aws:ItemAttributes/aws:Director">
                by <xsl:value-of select="aws:ItemAttributes/aws:Director" />
              </xsl:if>
              <xsl:if test="aws:ItemAttributes/aws:Composer">
                by <xsl:value-of select="aws:ItemAttributes/aws:Composer" />
              </xsl:if>
              <xsl:if test="aws:ItemAttributes/aws:Manufacturer">
                from <xsl:value-of se
lect="aws:ItemAttributes/aws:Manufacturer" />
              </xsl:if>
            </span>
            <br />
```

```
            <br />
            <span style="font-size:11px;">
              List Price: <xsl:value-of
                select="aws:ItemAttributes/aws:ListPrice/aws:FormattedPrice"
/>
            </span>
          </td>
        </tr>
      </table>
    </td>
  </tr>
</xsl:template>
```

Related Topics

- http://msdn.microsoft.com/library/default.asp?url=/library/en-us/dnexxml/html/xml05202002.asp
- http://msdn.microsoft.com/msdnmag/issues/01/07/xml/

Finding Items to Buy

Topics

- Search Operations
- Items You Cannot Buy
- Items Sold by Merchants
- Power Searches
- Using Search Bins to Find Items
- Finding Items Sold by Sellers
- Finding Items Using Browse Nodes
- Finding Items on Lists
- Finding Customer Information

In the previous chapter, you learned how Amazon groups and catalogs items for sale. In the following sections, you learn how to use Amazon Associates Web Service operations to find those items.

Search Operations

The following table describes the Amazon Associates Web Service operations that find items.

Operation	Description
ItemSearch	To find items sold by merchants and sellers. This operation is the one used most often to find items for sale.
SellerListingSearch	To find items sold by sellers. Although `ItemSearch` returns information about a seller's items (if they are for sale in the Amazon marketplace), `SellerListingSearch` returns far more information about a seller's items.
ListSearch	To find a customer's list and then the items on that list.
BrowseNodeLookup	To find items associated with browse nodes by navigating through the browse node hierarchy. This operation does not return items directly, only the browsenodes associated with items.

If you do not know whether an item is for sale by a merchant or seller, search first using `ItemSearch` for two reasons:

- Most of the items sold on Amazon are sold by merchants.
- Sellers often list their items for sale in Amazon's marketplace as well as in their own stores. Anything sold in the marketplace can be found by `ItemSearch`.

Items You Cannot Buy

You might assume that any item returned by one of Amazon Associates Web Service's search operations is for sale. This, however, is not the case. Some items, such as Variation parents and Collection parents, are never for sale. Before presenting items to customers, you must make sure the items can be purchased.

Amazon Associates Web Service provides several ways to determine if an item can be purchased, for example, `ItemSearch` has an *Availability* parameter, which specifies whether an item is available for purchase. The best way, however, to determine whether or not an item can really be purchased is by using one of the following response groups in a request:

- Offers Response Group
- OfferFull Response Group
- Large Response Group

> **Note**
>
> Large is a parent of the Offers response group

All of the search operations listed, except `BrowseNodeLookup`, can use these response groups. These response groups return an OfferListingId element for each item that can be purchased. Items that do not have an OfferListingId cannot be purchased.

The following response snippet shows that an item can be purchased because the response contains an OfferListingId.

```
<Item>
  ...
  <Offer>
    ...
    <OfferListing>
      <OfferListingId>g7CWSnBZmVESKy%2BCNS</OfferListingId>
      <ExchangeId>Y01Y4038850Y8583882</ExchangeId>
      <Price>
        <Amount>625</Amount>
        <CurrencyCode>USD</CurrencyCode>
        <FormattedPrice>$6.25</FormattedPrice>
      </Price>
      <Availability>Usually ships in 1-2 business days
      </Availability>
    </OfferListing>
  </Offer>
</Item>
```

This response shows how the OfferListingId element is a child of the Item element.

The Availability element in the preceding example is not a reliable means of determining whether or not

an item is truly available for purchase. Its message concerns how quickly an item can ship when it is in stock. A value returned for Availability does not guarantee that the item is in stock.

> **Tip**
>
> The next chapter talks about adding items to a customer's shopping cart. While it is possible to add an item to a cart using an ASIN, the preferred means of adding an item is by specifying an OfferListingId because an OfferListingId, not an ASIN, guarantees that an item can be purchased.

Availability Parameter

The *Availability* parameter filters out of ItemSearch results those items that are unavailable. The availability of an item can change rapidly. There is typically a discrepancy between an item's availability as reported by ItemSearch and the item's true availability, as reported by Amazon's web site. For this reason, the availability of items reported by ItemSearch and by Amazon's web site will be slightly different. Items that are "available" are classified on Amazon's retail web site as:

- Currently for sale
- Pre-orders
- Special orders
- New releases
- E-mail me when items become available
- Items available for in-store pickup
- Items for sale by third parties

Parameter Restrictions for Availability

The following table describes the ItemSearch parameters that must be included to return available items (only).

ItemSearch Parameter	Description
Availability	Must be set to "Available." When the Availability parameter is not set, ItemSearch returns available and unavailable items. "Available" is the only valid value for *Availability*. Setting it to another value returns an error message. Parameter values are case sensitive. When the Availability parameter is set to "Available," the Condition parameter cannot be set to "New."
Condition	Must be set to "All". The default value is "New." When the Availability parameter is set to "Available," the Condition parameter cannot be set to "New."
MerchantId	Alphanumeric token that uniquely identifies a merchant. Valid values are "Amazon," "All," or a specific merchant ID. When the *Availability* parameter is used and *MerchantId* is set to "Amazon," the availability results for Amazon,

ItemSearch Parameter	Description
	Toys R Us, and Target are merged.

The following search indices do not work with the *Availability* parameter:

- Items available for in-store pickup
- Items for sale by third parties

In both cases, because Amazon does not warehouse the items for sale, Amazon cannot determine the availability of them.

Items Sold by Merchants

Topics

By far, most items on Amazon are sold by merchants. Amazon itself is one. For that reason, ItemSearch is one of the most heavily used Amazon Associates Web Service operations. Because there are so many items for sale on Amazon, ItemSearch has many input parameters that help target a request. ItemSearch requests can also use many response groups, which can tailor the type of information returned with each item..

At first, the number of ItemSearch input parameters might seem overwhelming. This section explains the parameters most commonly used. By mastering these, you can create highly targeted requests. For a description of all of the ItemSearch parameters, see ItemSearch.

Required ItemSearch Parameters

ItemSearch can potentially return any item sold by a merchant and most sellers. Because there are so many items, ItemSearch requires that you specify a search index and at least one additional parameter, for example,

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
SearchIndex=Books&Keywords=Saving%20Miss&20Oliver's
```

In this request, ItemSearch looks for "Saving Miss Oliver's" in the titles and descriptions of all of the items in the Books search index. The response would include all matches.

The previous example used the *Keywords* parameter as the second parameter, which is one of the most popular parameters to use. The following list shows all of the ItemSearch parameters that you could have used instead:

- Actor
- Artist
- AudienceRating
- Author
- Brand
- BrowseNode
- City

- Composer
- Conductor
- Director
- Keywords
- Manufacturer
- MusicLabel

- Neighborhood
- Orchestra
- Power
- Publisher
- TextStream
- Title

A cursory look at the list of parameters shows you that most are very specific, which makes it easy to determine whether or not they should be used in a request. The Publisher parameter, for example, is used only to specify the publisher of a book. Once you know the item you are looking for, choosing which parameter to use becomes easy.

Parameter Support by Search Index

Each search index supports only a subset of all `ItemSearch` parameters. For example, in the US locale, when you specify the Blended search index, you can only use one parameter: *Keywords*, in a request. Using any of the other parameters in that request would return an error.

All other search indices support multiple parameters. For example, when you specify the Beauty search index, in the US locale, you can include one or more of the following parameters in the request:

- Brand
- BrowseNode
- Condition

- ItemPage
- Keywords
- Manufacturer
- MaximumPrice

- MerchantId
- MinimumPrice
- Sort
- Title

The search index—parameter combinations, for the most part, make sense. For example, if you use the Automotive search index, the `Author` parameter is invalid in the request. This restriction makes intuitive sense. So, in general, it is not the case that you need to memorize all of the parameters that can be used in each search index.

Search Indices, Parameters, and Locales

There is one further restriction on the use of parameters in an `ItemSearch` request. The search index values that can be used in an ItemSearch request vary by locale. For example, the Baby and Beauty search indices are available in the US but not in the UK locale. An error is returned if you use a search index value that is not supported in a locale. The limitations on the use of search indices by locale therefore also limits the use of `ItemSearch` parameters.

For a complete list of `ItemSearch` parameters supported in each search index and in each locale, see the Search Index and ItemSearch Parameter Combinations.

Common ItemSearch Parameters

Topics

Once you decide on a search index value and check Search Index and ItemSearch Parameter Combinationsto determine what ItemSearch input parameters are valid for that search index, you should set values for as many valid parameters as you can to increase the accuracy of the search results.

The most commonly used input parameters are the ones that can be used with the most search indices, including:

- Availability—Specifies that the item must be available for purchase. The only valid value for the parameter is "Available."
- BrowseNode—Enables you to search a specified browse node for associated items.
- Condition—Enables you to specify the condition of an item. Valid values are "All," "New," "Used," "Collectible," and "Refurbished." The default is "New." Condition does not restrict the total number of items returned. It does, however, restrict the offers returned to those items that are in the specified condition.
- Keywords—A word or phrase (words separated by xml-encoded spaces, %20) used as a search criteria. The titles and descriptions of items are searched for keywords.
- MaximumPrice—The maximum price that an item can cost.
- MerchantId—An alphanumeric token that uniquely identifies a merchant.
- MinimumPrice—The minimum price that an item can cost.
- Title—A word or phrase (words separated by xml-encoded spaces, %20) used as a search criteria. The titles of items are searched for these words..

The definitions for all `ItemSearch` parameters are in the API Reference. The following sections describe in greater detail some of the commonly-used parameters.

Returning Only Available Items

`ItemSearch` returns available and unavailable items. Unavailable items are, for example, items that are temporarily out of stock. By setting the *Availability* parameter to "Available," `ItemSearch` can filter out most of the items that are unavailable. The following `ItemSearch` request returns shirts that are available.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
MerchantId=All&
Condition=All&
Availability=Available&
SearchIndex=Apparel&
Keywords=Shirt
```

"Available" is the only valid value for the parameter. Setting it to any other value returns an error message. By default, the value is not set.

Items that are "available" are classified on Amazon's retail web site as:

- Currently for sale
- Pre-orders
- Special orders
- New releases
- E-mail me when items become available
- Items available for in-store pickup
- Items for sale by third parties

The availability of an item can change rapidly. There is typically a discrepancy between an item's availability as reported by `ItemSearch` and the item's true availability, as reported by Amazon's web site. For this reason, the availability of items reported by `ItemSearch` and by Amazon's web site can be slightly different. These differences are most evident for items, such as software, whose availability changes often.

☞ **Note**

> Do not confuse the *Availability* parameter with the return element, Availability. The latter is an element in a response that describes how soon an item can be shipped, such as, "Ships in 48 hours." While this is a helpful value to display, it does not guarantee that an item is truly available to be purchased. For that determination, test for an OfferListingId, which is provided by the Offers, OfferFull, and Large response groups.

Inaccurate Availabilities

The *Availability* parameter does a good job of filtering out of the response items that are unavailable. The parameter, however, is not foolproof. It is possible for an item to be unavailable for purchase even if:

- The item is returned in a response
- The response has been filtered using the *Availability* parameter
- The Availability element in the response says the item can be shipped in twenty-four hours

For example, some items, including Variations parents and Collections parents, are never available for purchase because they do not represent real items; they are abstractions. These parent items, however, are often returned as being available. The following request returns a Collection parent item even though the *Availability* parameter is used.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemLookup&
ItemId=B0006PLAOE&
Availability=Available&
MerchantId=All&
ResponseGroup=ItemAttributes,Offers&
Condition=All
```

A snippet of the response shows that the Collection parent item is returned, so you might assume that it is available. However, the item is not associated with any offers, so it cannot be purchased.

```
<Item>
  <ASIN>B0006PLAOE</ASIN>
  ...
  <Offers>
    <TotalOffers>0</TotalOffers>
```

The contradiction of an item being available but not something you can buy shows that the *Availability* parameter is helpful but not the final arbiter in determining what items a customer can actually purchase. Instead, as was mentioned at the beginning of this chapter, a better test for availability is whether or not an item has an OfferListingId. Also, in the preceding example, you can see that you can test the value of TotalOffers to determine if an item has an offer.

Use the following procedure to determine an item's availability.

1	Include in an ItemSearch request `Availability = Available`.
2	Include in the request `ResponseGroup = Offers`.
3	Test to see that the value in the response for `TotalOffers` is greater than zero.

Even though the `Availability` parameter is not foolproof, it does have value. The advantage gained by using the parameter is that it prevents the return of items that certainly do not have an OfferListingId. This filtering reduces the amount of testing you need to do to make sure the returned items have an OfferListingId.

Availability Parameter Restrictions and Constraints

The *Availability* parameter carries with it a restriction and some constraints. The restriction is that the `Availability` parameter cannot be used with the Blended search index. The constraints are that, when you use the `Availability` parameter, you must also set the following parameters described in the following table.

Parameter	Description
Condition	Must be set to "All".
MerchantId	Must be defined. *MerchantId* is an alphanumeric token that uniquely identifies a merchant. Valid values are "Amazon," "All," or a specific merchant ID. The default is "Amazon."

Searching Across Indices

`ItemSearch` requests require that you specify a search index. This is because searching across the millions of products in Amazon databases would take too long. AAWS does, however, enable you to search across multiple search indices using the All or Blended search indices.

All Search Index

You can use the All search index to do an `ItemSearch` search through all search indices. There are, however, a number of restrictions placed on this request: the only parameter that you can use in the request is `Keywords`, and you cannot, for example, sort results.

> **Note**
>
> You cannot use the All search index in an `ItemLookup` request.

Blended Searches

`ItemSearch` searches through a specified search index, or `SearchIndex` can be set to "Blended." A blended search always searches through the following search indices (only):

• Apparel	• Kitchen	• SportingGoods
• Automotive	• Music	• Tools
• Books	• PCHardware	• Toys

• DVD	• PetSupplies	• VHS
• Electronics	• Software	• VideoGames
• GourmetFood	• SoftwareVideoGames	

Power Searches

Topics
- Power Search Syntax
- Searching Using TextStream

`ItemSearch`'s *Power* parameter, which can only be used when the search index equals Books, enables you to use simple or complex queries to perform book searches. A simple power search would be to return all books written by a specified author. While this query is valuable, it does not offer anything more than a similar search using the *Author* parameter in an `ItemSearch` request.

The true value of power searches comes in the ability to specify multiple criteria to search for books. For example, you could create a query that returned all books by a specific author, published during a specified year, in a specified language, and printed in a specified format.

Power Search Syntax

The individual parts of a power search query are of the form:

```
key:value
```

For example, the following query string searches for books authored by Davenport.

```
author:Davenport
```

Values are not case sensitive. So, "Davenport" returns the same books as "davenport."

The individual parts of a power search query are linked together using a variety of operators. The following example searches for all books authored by Davenport that were published during 2006.

```
author:Davenport and pubdate:during 2006
```

Other operators, such as parentheses, can be used to create additional specificity. For example, a query of `subject:history and (spain or mexico) and not military and language:spanish` would return a list of books in the **Spanish** language on the **subject** of either **Spanish** or **Mexican history**, excluding all items with **military** in their description.

These parameter values would be part of an `ItemSearch` request that used the *Power* parameter, for example:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[ID]&
Operation=ItemSearch&
Power=subject:history%20and%20(spain%20or%20mexico)%20and%2
SearchIndex=Books&0not%20military%20and%20language:spanish
```

Note that spaces must be URL-encoded (%20) as shown.

Power Search Keywords

Power search queries are created using one or more keyword:value pairs. The keywords you can use in a power search include:

Keyword	Description
after	Restricts the results to books published after the specified date. This keyword is used with pubdate, for example, pubdate:after 2006.
ASIN	An alphanumeric token that uniquely identifies a book.
author	Book's author.
author-begins	Author's name begins with this value.
author-exact	Authors name is exactly this value.
binding	Searches for books with the specified binding. Values for binding include abridged and large print.
during	Searches for books that were published during the time period specified. This keyword is used with pubdate, for example, pubdate:during 2006.
ISBN	International Standard Book Number of the book.
keywords	Words that can be found in the title or description of a book.
keywords-begin	Search for all words tat begin with this value.
language	Language, such as Spanish, that the book is written in.
pubdate	Book's publication date.
publisher	Name of the book's publisher.
subject	Find books with the specified word in their subject description.
subject-begins	Find books whose subject description begins with this word or character.
subject-words-begin	Find books whose subject description begins with these words
title	Title of the book.
title-begins	Title of the book begins with this value exactly. This value does not mean "begins with," it means "begins." For the example, if the value is "I", the book, "I Lied," would be returned; the book, "Isabel," would not be returned.
title-words-begin	Title of the book begins with this word.

Power Search Operators

The following table describes the Power search queries operators that you use to build queries.

Header 1	Header 2
not	Excludes the following parameter from the results, for example, subject:history and not military, excludes military history in the results.

Header 1	Header 2
and	Specifies that both values must be true to be selected. For example, subject:history and (Spanish and Mexican), requires that the books selected contain both Spanish and Mexican history.
or	Exclusive or which means one of either item but not both. For example subject:history and (Spanish or Mexican), means the subject matter can be about the history of Spain or Mexico, but not both.
colon (:)	Used as an equals sign, for example, subject:history, searches for books whose subject matter is history.
parenthesis	Groups terms to clarify operations, for example, `subject: history and (spain or mexico)` Without the parentheses, you would search for books about Spanish history or Mexico. With parentheses, you search for books about Spanish history and Mexican history.
asterisk (*)	Stands for zero or more alphanumeric characters, for example, `keywords:high%20tech*` Some of the keywords used in a search would be "high tech," "high technology," and "high technologies." Use the asterisk to generalize your search.
Quotation marks (" ")	Specifies an exact match of the word(s) within the quotes, for example, `keywords:"Saving Miss Oliver's"`

Example Power Searches

The following five Power Search examples demonstrate many of the key words and operators.

```
author: ambrose and binding: (abridged or large print) and pubdate: after
11-1996
subject: history and (Spain or Mexico) and not military and language: Spanish
(subject: marketing and author: kotler) or (publisher: harper and subject:
"high technology")
keywords: "high tech*" and not fiction and pubdate: during 1999
isbn: 0446394319 or 0306806819 or 1567993850
```

Power Search Tips

Topics
- Exact Matches
- Discarded Search Words

The following tips help you avoid common problems when using power search key words.

Exact Matches

title-begins require exact matches. So, the following examples return completely different results.

```
title-begins:I
title-begins:I*
```

The first example would return the book, "I Lied," but it would not return the book, "Isabel." The second example would return both books. This behavior also applies to:

- author
- author-begins
- author-exact
- title
- title-words-begin

Discarded Search Words

The search engine automatically discards small words, such as "A" and "The." So, for example, if you created queries using either of the following key:value pairs.

```
title-begins:A
title-begins:The
```

you would get zero results because the search engine discards those words when searching through titles. This behavior is also true for:

- author
- author-begins
- author-exact
- title
- title-words-begin

Searching Using TextStream

There are times when a block of text can uniquely identify an item. Perhaps it is a line of text from a product description or a title.

To find an item using a block of text

- Use the *TextStream* parameter in an `ItemSearch` request, for example:

```
TextStream=It%20was%20the%20best%20of%20times%20and%20the%20worst%20of%20ti
mes
```

The search engine picks out of the text block up to ten keywords and uses those as search criteria. A TextStream request returns up to ten items that match those keywords. Only one page of results can be returned.

Using Search Bins to Find Items

Topics

- NarrowBy Attribute
- Search Bin Example
- NarrowBy Values
- Results Refined by Repeating ItemSearch Requests
- ItemSearch Request Tips

Up to this point, you have seen how you can use operation input parameters and response groups to filter out unwanted responses. The SearchBins response group provides a different means of refining results. It enables you to filter results based on values returned in a response.

The SearchBins response group categorizes the items returned by ItemSearch into groups, called bins. The grouping is based on some criteria, depending on the search index. For example, a set of bins can be based on a set of price ranges for an item. In the case of women's shoes, for example, SearchBins might return a bin that contains ASINs for shoes that cost between $0 and $50, a second bin for shoes that cost $50 to $100, and a third bin for shoes that cost more than $100.
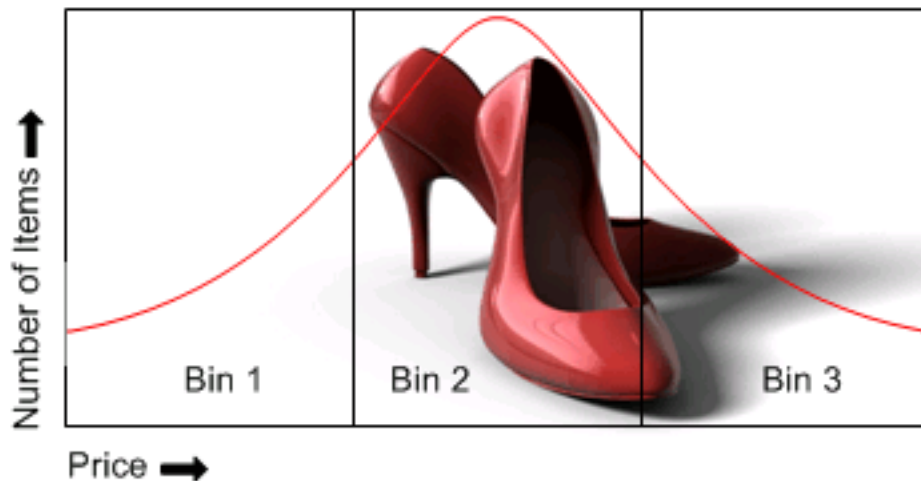
The advantage of using search bins is that the response group divides the items into bins without you having to return or parse item attributes. You can then submit a second ItemSearch request and return only the items in one bin.

You cannot create bins nor can you specify the criteria used to divide the items into groups. The SearchBins response group does that automatically.

Some search indices support more than one kind of bin. For example, apparel items can be divided in to bins according to price range and brand. In this case, the response would return multiple sets of bins, called SearchBinSets, in which the items would be divided according to different criteria.

The criteria used to divide the returned items into bins is called the NarrowBy value.

☞ **Note**

Search bins are only available in the US locale.

Related Topics

- SearchBins Response Group

NarrowBy Attribute

The basis on which returned items are split into bins is specified by the *NarrowBy* attribute in the SearchBinSet element. In the following example, the NarrowBy attribute shows that the bins are based on price range.

```
<SearchBinSet NarrowBy="PriceRange">
```

For another product category, the *NarrowBy* attribute might be different, for example:

```
<SearchBinSet NarrowBy="BrandName>
```

You cannot specify *NarrowBy* values nor can you specify the values they encompass. When the SearchBins response group is included in a request, `ItemSearch` automatically divides the `ItemSearch` results into bins.

Search Bin Example

The following request uses the SearchBins response group to return search bins.

```
Service=AWSECommerceService&
AWSAccessKeyId=[Access Key ID]&
Operation=ItemSearch&
SearchIndex=Baby&
Keywords=pants&
Availability=Available&
MerchantId=All&
Condition=All&
ResponseGroup=SearchBins
```

The following xml is a snippet from the response.

```
<SearchBinSets>
  <SearchBinSet NarrowBy="PriceRange">
  <Bin>
    <BinName>$0$24</BinName>
    <BinItemCount>1645</BinItemCount>
    <BinParameter>
      <Name>MinimumPrice</Name>
      <Value>0</Value>
    </BinParameter>
    <BinParameter>
      <Name>MaximumPrice</Name>
      <Value>2499</Value>
    </BinParameter>
  </Bin>
  <Bin>
    <BinName>$25$49</BinName>
    <BinItemCount>647</BinItemCount>
    <BinParameter>
      <Name>MinimumPrice</Name>
      <Value>2500</Value>
    </BinParameter>
    <BinParameter>
      <Name>MaximumPrice</Name>
      <Value>4999</Value>
    </BinParameter>
  </Bin>
  <Bin>
    <BinName>$50$99</BinName>
```

```
    <BinItemCount>173</BinItemCount>
    <BinParameter>
      <Name>MinimumPrice</Name>
      <Value>5000</Value>
      </BinParameter>
    <BinParameter>
      <Name>MaximumPrice</Name>
      <Value>9999</Value>
    </BinParameter>
  </Bin>
```

This response snippet shows the first three bins in the response. The NarrowBy value shows that the items were divided up based on price range. The BinName element names the bin. The names are descriptive of the price ranges that each bin represents. For example, the BinName, $50$99, contains items that cost between $50 and $99.99, which you can see by the values returned for MinimumPrice and MaximumPrice in that bin.The BinItemCount element shows how many items are in each bin, for example, there are 173 items in the last bin

The BinParameter/Value elements show the values used to create the bins. In this example, the parameters are the minimum and maximum prices of the items in that bin. For example, in the last bin, the minimum price of an item in that bin is $50.00 and the maximum value is $99.99.

The BinParameter/Name value, such as MaximumPrice, is an ItemSearch parameter name. This means that you can use the <Value> as the value for the parameter named by <Name> in a subsequent ItemSearch request. In this example, *MinimumPrice* is the ItemSearch parameter and, in the last bin, the value is 5000. By submitting a second request using ItemSearch's parameters, *MinimumPrice* and *MaximumPrice* , you could return the item attributes for only the items in that bin.

As you can see from this example, the SearchBins response group enables you to narrow your search without you having to parse through item attributes.

NarrowBy Values

The following table describes the NarrowBy values.

NarrowBy Values	Description
BrandName	Brands, such as Levi's, Reebok, and Nike, that create the item. Use the name of a brand to filter out similar items made by other companies.
Merchant	All merchants selling an item. This bin returns all merchants even if MerchantId is set to a single merchant in the ItemSearch request. In the response, the ASINs returned will be specific to the MerchantId specified in the request. The merchants listed in the Merchant bin can be used to list other merchants that sell the same ASIN. There are some items sold by only one merchant. In that case, the Merchant bin returns with only that merchant.
PriceRange	Minimum and maximum prices for a bin of items. Use the minimum and maximum price values in each bin to filter out items outside of the price range you want.
SpecialSize	Uncommon sizes an item comes in. Examples are "Plus Size & Tall," "Misses," "Maternity," "Husky," "Petites," and "Big & Tall."
Subject	BrowseNode IDs of all topics related to items returned by ItemSearch. For example, searching for books about dogs returns, in the Subject bins, BrowseNodes for "Home & Garden," "Animal Care & Pets," "Dogs," and "Educational."

All search indices return the Subject bin. Most return all of the bins.

NarrowBy Values Per Search Index

The following table shows which NarrowBy values are returned by each search index:

Search Index	NarrowBy
Apparel	Subject, BrandName, PriceRange, SpecialSize, Merchant
Baby	Subject, BrandName, PriceRange, SpecialSize, Merchant
Beauty	Subject, BrandName, PriceRange, SpecialSize, Merchant
Blended	Not supported
Books	Subject
Classical	Subject
DVD	Subject
Electronics	Subject, BrandName, PriceRange, SpecialSize, Merchant
Garden	Subject, BrandName, PriceRange, SpecialSize, Merchant
GourmetFood	Subject, BrandName, PriceRange, SpecialSize, Merchant
HealthPersonalCare	Subject, BrandName, PriceRange, SpecialSize, Merchant
Jewelry	Subject, BrandName, PriceRange, SpecialSize, Merchant
Kitchen	Subject, BrandName, PriceRange, SpecialSize, Merchant
Magazines	Subject
Marketplace	Subject
Merchants	Subject, BrandName, PriceRange, SpecialSize, Merchant
Miscellaneous	Subject, BrandName, PriceRange, SpecialSize, Merchant
Music	Subject
MusicalInstruments	Subject, BrandName, PriceRange, SpecialSize, Merchant
OfficeProducts	Subject, BrandName, PriceRange, SpecialSize, Merchant
PCHardware	Subject, BrandName, PriceRange, SpecialSize, Merchant

Search Index	NarrowBy
Photo	Subject, BrandName, PriceRange, SpecialSize, Merchant
Showtimes	Theater
Software	Subject, BrandName, PriceRange, SpecialSize, Merchant
SportingGoods	Subject, BrandName, PriceRange, SpecialSize, Merchant
Theatrical	Subject
Tools	Subject, BrandName, PriceRange, SpecialSize, Merchant
Toys	Subject, BrandName, PriceRange, SpecialSize, Merchant
Travel	Subject
VHS	Subject
Video	Subject
VideoGames	Subject, BrandName, PriceRange, SpecialSize, Merchant
Wireless	Subject
WirelessAccessories	Subject

Results Refined by Repeating ItemSearch Requests

One value of using search bins is that you can divide items into groups according to criteria without having to parse item attributes. Based on the search bins returned, you can then submit a second request using the `ItemSearch` parameter value that helps target your results, but how?

The names of bins and the parameters that describe the bins vary according to the bin. The following sample shows a bin based on price.

```
<SearchBinSetNarrowBy="PriceRange">
<Bin>
  <BinName>$0$24</BinName>
  <BinItemCount>1645</BinItemCount>
  <BinParameter>
    <Name>MinimumPrice</Name>
    <Value>9</Value>
  </BinParameter>
  <BinParameter>
    <Name>MaximumPrice</Name>
    <Value>2499</Value>
  </BinParameter>
</Bin>
```

The response shows the minimum and maximum price for items in the bin, $0$24, and the number of items in it, 1645.

Other NarrowBy values name bins differently. The following example shows a response snippet when

NarrowBy is "Merchant." In this case, the BinParameter name is merchant ID.

```
<SearchBinSet NarrowBy="Merchant">
<Bin>
  <BinName>Sports"R"Us</BinName>
  <BinItemCount>860</BinItemCount>
  <BinParameter>
    <Name>MerchantId</Name>
    <Value>A363XKZVKSMVXW</Value>
  </BinParameter>
</Bin>
<Bin>
  <BinName>Target</BinName>
  <BinItemCount>8</BinItemCount>
  <BinParameter>
    <Name>MerchantId</Name>
    <Value>A1VC38T7YXB528</Value>
  </BinParameter>
</Bin>
</SearchBinSet>
```

As you can see from these examples, BinParameter names are the same as `ItemSearch` input parameter names. This correspondence means that you can create a second `ItemSearch` request using the search bin results as values for `ItemSearch` parameter values. For example, *MinimumPrice* and *MaximumPrice* are returned in search bins based on *PriceRange*. You could take the values of the search bin and put them directly into `ItemSearch` parameters. Using the preceding PriceRange example, you could write the following `ItemSearch` request to retrieve items only in the first search bin.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
SearchIndex=Baby&
Keywords=pants&
Availability=Available&
Condition=All&
MinimumPrice=0& MaximumPrice=2499&
ResponseGroup=SearchBins
```

`ItemSearch` divides the results of this request into another set of search bins because the SearchBins response group was used again. This means that the price range of the first search bin in the first response is split into multiple search bins in the response to the second request. The second response enables you to present more granularity in price ranges. For example, from the first response, you could return all items that cost between $0 and $24.99. In the second response, you are able to provide a much smaller price interval, for example, $10 to $14.99.

To refine search results using SearchBin

1. Include the SearchBins response group in an ItemSearch request.

   The response includes the narrowby value and results grouped by bins.

2. Use related ItemSearch parameters to send a second request to return results related to only those items within the specified bin.

   For example, if the *NarrowBy* value is *PriceRange*, the related `ItemSearch` parameters are *MinimumPrice* and *MaximumPrice*.

3. If you want to refine the results further, use the SearchBins response group in a second request and repeat the procedure.

The process of using search bin results for `ItemSearch` parameter values can be iterative. You can, for example, submit a third request using the SearchBins response group to divide one search bin into more search bins. This process can be repeated until the level of granularity you desire is reached. At that point, you can send a last request using other response groups of your choosing.

Alternatively, you could refine the search results in a different way. Some search indices return more than one set of search bins. In those cases, you can use the values from more than one set of search bins in an `ItemSearch` request. Using the preceding example, if the response also included a search bin based on BrandName, which is the NarrowBy value, you could use brand and price range values in an `ItemSearch` request.

```
Brand=Levi's&
MinimumPrice=0&
MaximumPrice=2499&
```

The response would then only include shirts by Levi's that cost under $25. You could continue to drill down by adding additional parameters to the request.

ItemSearch Request Tips

Here are some tips to help you create accurate ItemSearch requests:

The default value of the Condition parameter is "New."

If you do not get satisfactory results and you have not specified a Condition, set the parameter to "All." This value returns all Conditions. If you change the value to something besides the default, New, you must also set the MerchantId parameter to "All." If you do not, you will get the same results. The reason is that the default value of MerchantId is Amazon. Because Amazon only sells new items, the response can only contain new items, which was the case when Condition was New, the default value. Setting MerchantId to "All" enables the response to contain merchants that sell items in all conditions.

The default value of the `MerchantId` parameter is "Amazon."

If you want to find items sold by other merchants or items that are not in "New" condition (Amazon only sells new items), either specify the merchant using MerchantId, or, to search all merchants, set the parameter to "All."

The `Keywords` parameter searches for word matches in an item's title and description.

If you know a word is part of the title of an item, use the Title parameter because, in this case, it often returns fewer but more accurate results than the Keywords parameter.

Use the `TextStream` parameter to search using a block of text.

For more information, see `ItemSearch`.

To use boolean values, such as AND, NOT, or OR, in an `ItemSearch` request, use the Power parameter.

You can create relatively sophisticated search criteria using this parameter. For more information, see ItemSearch.

Finding Items Sold by Sellers

Merchants always sell new or collectible items. To purchase items that are used, refurbished, or out of stock in merchant's inventories, you must purchase from sellers.

Sellers also can sell new and collectible items. Customers sometimes like what specific sellers have for

sale. For that reason, it is a good idea to enable customers to find items sold by sellers.

To find items sold by sellers

• Use the `SellerListingSearch` operations

You cannot use `SellerListingSearch`. to return items sold by merchants. You can `ItemSearch` to find some items sold by sellers. `SellerListingSearch`, however, returns far more information about seller's items.

Using SellerListingSearch

`SellerListingSearch` enables you to return all of the items sold by a seller. Optionally, you can filter results by specifying the title of an item or its status.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=SellerListingSearch&
SellerId=[A Seller ID]&
Keywords=crystal%20ball&
Sort=+price
```

This request returns the crystal balls sold by the specified seller. The results are sorted by price.

Word order in the title does not matter and case is not significant. For example, searching for Crystal%20balls is the same as searching for Balls%20Crystal.

☞ **Note**

Amazon Associates Web Service does not offer an operation that searches for a specific item across all sellers.

Finding Seller IDs

To find your seller ID

1. Go to *http://www.amazon.com*.
2. Click the **Your Account** tab.

   Your Account web page displays.
3. Click the **Your Seller Account** link.

To find someone else's seller ID

1. Go to *http://www.amazon.com*.
2. In the **Search** field, enter a keyword to search for an item sold by a seller.
3. On the web page that displays the results of the search, click the **Used and New** link.
4. Click a seller's name.

   In the address field of the browser, a URI is displayed. The seller parameter specifies the seller ID.

```
ht
tp://www.amazon.com/gp/help/seller/at-a-glance.html/ref=olp_offerlisting_1/
seller=A365
103-3016905-4117412?ie=UTF8&asin=0976925524&marketplaceSeller=1&7B0KL9ZR59
```

Searching for Out of Stock Items

By default, `SellerListingSearch` retrieves only products that are available.

To search for discontinued, out of stock, or unavailable products

• Set the `SellerListingSearch` parameter, *OfferStatus*, to "Closed."

For example, if you wanted to see all offers for a video game, you might use a `SellerListingSearch` request similar to the following.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[ID]&
Operation=SellerListingSearch&
SellerId=[Seller ID]&
Title=[GameTitle]&
OfferStatus=Closed
```

Returning Historical Pricing

A seller has to determine how much to charge for their items. One way to do that is to look at what similar items have sold for in the past. `ItemSearch` can return similar items currently for sale. When the seller's item is more like an item that is no longer for sale, the `SellerListingSearch` operation can be used with OfferStatus equaling "Closed" to return discontinued items and their prices.

Alternatively, Amazon provides a for-pay service called Amazon Historical Pricing. This service provides historical pricing information for the past three years.

Finding Items Using Browse Nodes

Topics
• Traversing the Browse Node Hierarchy
• Finding a Node to Start Your Search
• Understanding BrowseNode Results When Drilling Down

Browse nodes form an organizational hierarchy in which Amazon places items for sale. As the name suggests, the hierarchy of nodes is designed to ease and speed up the task of browsing through all of the items for sale. Zero or more items for sale are associated with each browse node.

Each browse node has an ID, which is a positive integer, and a name. All items associated with a node have something to do with the name of the node. For example, a node whose name is "Books about Ancient Greece," would be books whose subject is ancient Greece.

This hierarchy of nodes is dynamic as are the items associated with each node., that is, items can be associated and disassociated with browse nodes at any time, and nodes themselves can either be added to, subtracted from, or moved within the node hierarchy.

The value of the hierarchy is that it groups similar items and relates items in an intuitive way. As you progress down the hierarchy, you progress from parent to child nodes where child nodes are subsets of the parent node's product category, as shown in the following figure.
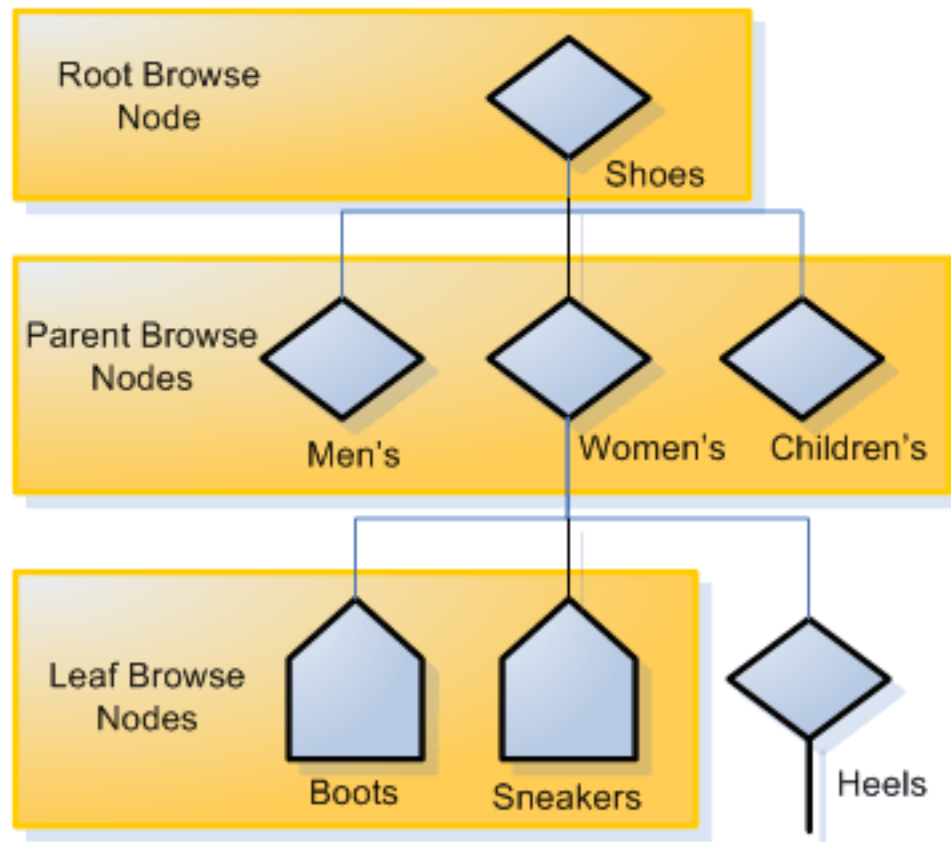
As you can see in this figure, as you go down the hierarchy, you refine then number of items that can be returned. In this very small, representative sample of the browse node hierarchy, the Shoes category has as a subset, Women's Shoes. It has two child nodes, Boots and Sneakers.

ItemSearch returns all of the items associated with a node and all of the nodes below it. For that reason, you can see that a search at the level of Women's Shoes will return all of the items related to Women's Boots and Women's Sneakers. If the customer was really only interested in women's boots, the response would contain a lot of uninteresting results—all of the items that are women's sneakers. A more targeted search would have specified the Boots browse node using `ItemSearch`'s BrowseNode parameter. For example, if the browse node ID of Women's Boots is 123456, a targeted request would be a follows.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
Keywords=tall&
SearchIndex=Apparel&
BrowseNode=123456
```

Traversing the Browse Node Hierarchy

As we have seen, you traverse down the hierarchy to make your search more targeted. You might also traverse up the tree to find, for example, the root category of a product. For example, if you have an

item, such as a carving knife, you might find the node it is associated with and go up the hierarchy to find the root product category of knives and then, in another request, use the TopSellers response group to return the top sellers in the product category. These top sellers might be of interest to your customer.

BrowseNodeLookup operation is the most direct way of traversing the the browse node hierarchy. When you supply it a browse node ID, it returns the name of the browse node as well as its direct descendants and a lineage of ancestors. Look at the response to the following request.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[Access Key ID&
Operation=BrowseNodeLookup&
BrowseNodeId=11232&
ResponseGroup=BrowseNodeInfo
```

A snippet of its response follows.

```
<Item>
<ASIN>0131856340</ASIN>
<BrowseNodes>
  <BrowseNode>
  <BrowseNodeId>11232</BrowseNodeId>
  <Name> Social Sciences</Name>
  <Ancestors>
    <BrowseNode>
      <BrowseNodeId>53</BrowseNodeId>
      <Name>Nonfiction</Name>
      <Ancestors>
        <BrowseNode>
          <BrowseNodeId>1000</BrowseNodeId>
          <Name>Subjects</Name>
          <Ancestors>
            <BrowseNode>
              <BrowseNodeId>283155</BrowseNodeId>
              <Name>Books</Name>
            </BrowseNode>
          </Ancestors>
        </BrowseNode>
      </Ancestors>
    </BrowseNode>
  </Ancestors>
  <Children>
    <BrowseNode>
      <BrowseNodeId>11233</BrowseNodeId>
      <Name>Anthropology</Name>
    </BrowseNode>
    <BrowseNode>
      <BrowseNodeId>11242</BrowseNodeId>
      <Name>Archaeology</Name>
    </BrowseNode>
    <BrowseNode>
      <BrowseNodeId>3048861</BrowseNodeId>
      <Name>Children's Studies</Name>
    </BrowseNode>
  </Children>
</BrowseNodes>
```

Traversing down the tree is easy enough: select the browse node ID that is relevant and repeat the BrowseNodeLookup operation until you descend to the appropriate browse node.

Traversing up the tree is similar. Although the BrowseNodeLookup operation, by default, returns the complete ancestral lineage of the subject browse node, there is a limitation: the request only returns one parent browse node for each node. That is, if a node has more than one parent, the response will only show one of the parent nodes. Which one it returns is arbitrary. For that reason, you might want to

traverse up the browse node hierarchy one level at a time.

Related Topics

- BrowseNodes Response Group

Finding a Node to Start Your Search

Traversing up or down the browse node hierarchy is easy enough. The question is, where do you start? In the US locale alone, there are over 120,000 nodes and those nodes are changing constantly. Fortunately, there are multiple ways to find the browse node where you can start your search:

- Many high level browse nodes are listed in the Browse Nodes Values section of the Amazon Associates Web Service API Reference.
- The BrowseNodes response group returns browse nodes. You can use this response group with the following operations: ItemSearch, ListLookup, and SimilarityLookup.
- On www.amazon.com, search for an item that is similar to the one you want and then copy the browse node out of the URL.

As an example, let's see how you might find listings for a horse bridle. None of the top product categories (search indices) relate directly to horses. So, let's use `ItemSearch` and the BrowseNodes response groups to find a browse node that is associated with horse bridles.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&amp;
AWSAccessKeyId=[AWS Access Key ID]&amp;
Operation=ItemSearch&amp;
Keywords=horse,bridle&amp;
SearchIndex=PetSupplies,SportingGoods
```

This request looks in the PetSupplies and SportingGoods search indices for anything related to horses or bridles. The following XML is a snippet of the response.

Related Topics

- BrowseNodes Response Group

Understanding BrowseNode Results When Drilling Down

BrowseNodes are related in a hierarchy where one BrowseNode can have zero or more ancestor and child BrowseNodes, as shown in the following figure.
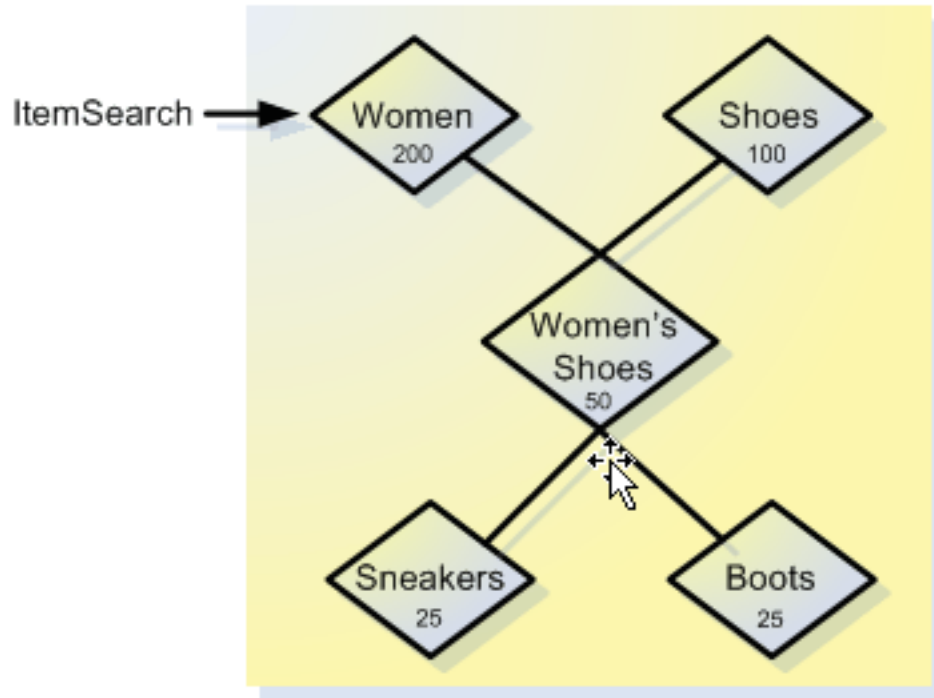
This diagram shows five BrowseNodes and their hierarchy. Node A might be, for example, Shoes. Node B might be Women. Node C, a child of BrowseNodes A and B, might be Women's Shoes.

The number inside each node represents the number of items in the BrowseNode when `ItemSearch` is called on Node A. BrowseNode C is a subset of BrowseNode A and a subset of BrowseNode B. Perhaps fifty of the items in BrowseNode C are also in BrowseNode A. When `ItemSearch` was run on BrowseNode A, the operation returned that BrowseNode A has 200 items. When `ItemSearch` is repeated using a BinParameter Name value that was returned in the first `ItemSearch` request, it is the same as running `ItemSearch` on a child of BrowseNode A, which, in this case, is BrowseNode C. By narrowing the search to only those values found in BrowseNode C, `ItemSearch` returns only those items in BrowseNode A that are also in BrowseNode C. As shown in the following figure, the number of common items is 35.
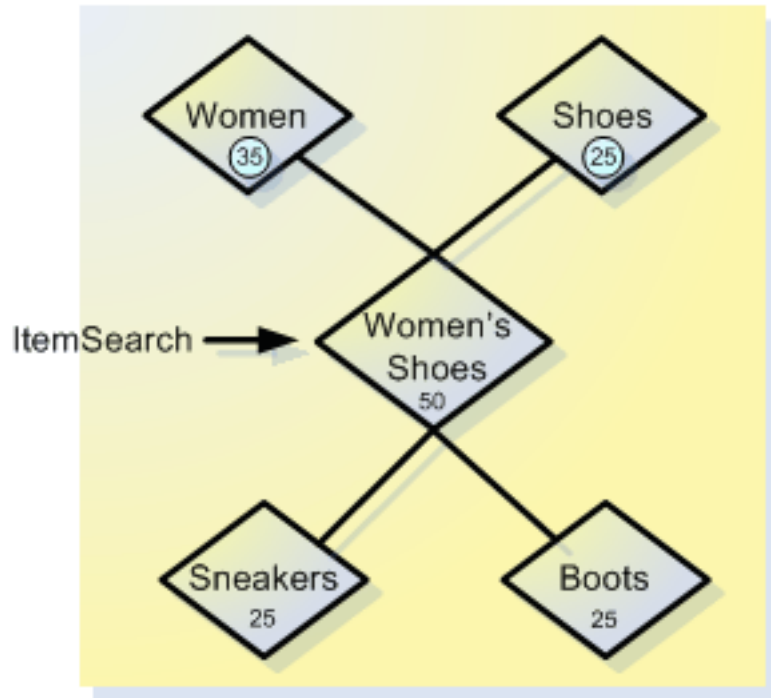
As a result, `ItemSearch` returns that BrowseNode A now only contains 35 items. While the change in the item count in BrowseNode A might, at first, be confusing, understanding that `ItemSearch` is returning only the intersection of BrowseNodes A and C explains why the number of items in BrowseNode A changes. Notice that the item counts in other BrowseNodes can also change.

Because the number of items in surrounding BrowseNodes can change with each new drill down using `ItemSearch`, the BrowseNodes that contain the greatest number of items can change dramatically. In the previous discussion, for example, the number of items in BrowseNode A changed from 200 to 35 on successive `ItemSearch` requests. Because `ItemSearch` returns only the top ten BrowseNodes that contain the most items, the identity of the top ten BrowseNodes can change with each `ItemSearch`.

Finding Items on Lists

Topics

- Finding the Customer's List ID
- Finding Items Using a Customer ID

Customers create lists using "Your Account," which is a tab on *www.amazon.com*, as shown in the following figure..

Customers can create a variety of lists, including:

List Types

- **Wedding registry**—Items the couple would like for their wedding.
  You can add items to your wedding registry using data returned in the Small response group. For

more information, see Adding Items to Lists.

- **Baby registry**—Items wanted for a baby shower.
  You can add items to your baby registry using data returned in the Small response group. For more information, see Adding Items to Lists.

- **Listmania**—Items wanted that have a customer-specified theme

- **Wishlists**—Items wanted for any occasion, such as a birthday or anniversary.
  You can add items to your wishlist using data returned in the Small response group. For more information, see Adding Items to Lists.

Each list that a customer creates has a list ID, which is a positive integer. List IDs are unique by list type, that is, each Listmania list ID is guaranteed to be unique among all Listmania IDs. A Listmania ID could, for example, have the same value as a WishList ID.

To find items on a customer's list

1. Find the customer's list ID by supplying that customer's name or e-mail address in the ListSearch operations.

2. Use the list ID you find in the ListLookup operation to find the items on the customer's lists.

Finding the Customer's List ID

Given a customer's e-mail address or name, the ListSearch operation returns, among other things, the list IDs of a customer's public lists. Typically, entering an e-mail address yields more targeted results than entering the customer's name because e-mail addresses are unique. Often, however, a customer's e-mail address is not known so their name is used in the operation.

To find the customer's list ID

- Use a customer's e-mail address or name in an ListSearch request

The following ListSearch request returns the list ID for John Smith.

```
http://ecs.amazonaws.com/onca/xml?
  Service=AWSECommerceService&
  AWSAccessKeyId=[Access Key ID]&
  Operation=ListSearch&
  ListType=WishList&
  Name=John%20Smith
```

Notice that the blank space between the first and last names is URL-encoded as %20.

The following is a snippet of the XML response to the sample request.

```
<List>
  <ListId>BB4444444477</ListId>
  <ListURL>http://www.amazon.com/gp/registry/BB4444444477</ListURL>
  <ListType>WishList</ListType>
  <TotalItems>70</TotalItems>
  <TotalPages>7</TotalPages>
  <DateCreated>1999-10-06</DateCreated>
  <CustomerName>John Smith</CustomerName>
</List>
```

The response contains the list ID, list type, date the list was created, the URL of the list, as well as the number of items on the list. Notice that the preceding response contains the ListURL element. You can paste this URL in a browser and see the items on the customer's list. The URL for each list type is the same with the exception of the last value, which is the list ID. That means that whenever you have a list ID, you can display it immediately. For more information, see Lists.

To find out more about the items on the list, use the ListId value in ListLookup.

Finding Items Using a Customer ID

If you just want to display the items on a list, you can use the URL returned. If, however, instead of just displaying the list, you want to return the list item's ASINs and ListItemIds, which you need to add the list items to a remote shopping cart, you must use the list ID in a ListLookup request. ListSearch can only use a few response groups, which means that the information returned about the items on the list is minimal. ListLookup, on the other hand, can use many response groups, which means that you can return a great deal of information about the items on a list.

To find items using a customer ID

- Use the `ListId` in a `ListLookup` request to return list item ASINs and `ListItemIds`.

The following URL is a sample `ListLookup` request.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[Access Key ID]
Operation=ListLookup&
ListType=WishList&
ListId=BB4444444477
```

Notice that the `ListLookup` request requires a `ListType` as well as a `ListId` because `ListId` are not unique across all lists.

The following XML shows a snippet of the response.

```
<ListItem>
  <ListItemId>98989898989898</ListItemId>
  <DateAdded>2002-01-27</DateAdded>
  <QuantityDesired>1</QuantityDesired>
  <QuantityReceived>0</QuantityReceived>
  <Item>
   <ASIN>0865874069</ASIN>
   <ItemAttributes>
     <Title>Confined Space Entry : Complying with the Standard</Title>
   </ItemAttributes>
  </Item>
</ListItem>
```

Notice that the response includes the ListItemId element. To add a list item to a remote shopping cart, you must include in the <parameter>CartCreate or <parameter>CartAdd request the item's ASIN and ListItemId. For more information, see Modifying the Items in a Remote Shopping Cart.

This response includes only one item attribute, the title of the item. By specifying more response groups in the request, you can return more information about the items on a list.

Finding Customer Information

Topics

- CustomerContentSearch
- CustomerContentLookup

Amazon's customers can enter a great deal of information into the Amazon community, such as reviews of items, and lists of items they'd like as presents. Amazon Associates Web Service does not provide operations that enable customers to input this information. Amazon Associates Web Service does, however, provide two operations that enable you to retrieve this information.

Getting customer information

1	Use CustomerContentSearch to determine a customer ID.
2	Use CustomerContentLookup to return customer information.

CustomerContentSearch

To find out about an Amazon customer, the first task is to find their customer ID. To do that, you must know either their name or e-mail address. E-mail addresses are guaranteed to be unique; names are not. So, use the customer's e-mail address if possible. If you don't know it, use their name.

To find out about an Amazon customer

- Use a customer's e-mail (preferably) or name in a `CustomerContentSearch` request.

The following request looks up the customer ID for (a fictitious person) Joe Schmo:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=CustomerContentSearch&
Name=Joe%20Schmo
```

The following snippet from the response shows Joe's customer ID and nickname.

```
<Customer>
  <CustomerId>A3EXAMPLEX53</CustomerId>
  <Nickname>SmokinJoe</Nickname>
</Customer>
```

The customer ID provides the input necessary to find out information about Joe.

CustomerContentLookup

Now that you know Joe's customer ID, you can use `CustomerContentLookup` to find our more about Joe, depending on the response group used in the request.

The response groups include

- **CustomerInfo (Default)**—Customer's name, city, and state
- **CustomerReviews—**;Product reviews the customer has written
- **CustomerLists**—List IDs of the lists created by the customer

• **CustomerFull**—All of the preceding

The following request returns Joe's reviews.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=CustomerContentLookup&
CustomerId=A2KEKKJ9CAC2KC&
ResponseGroup=CustomerLists
```


The following snippet of the response shows one of Joe's reviews.

```
<Customer>
  <CustomerId>A2EXAMPLEKC</CustomerId>
  <List>
    <ListId>BR4444442H77</ListId>
    <ListURL>http://www.amazon.com/gp/registry/BR4444442H77
      </ListURL>
    <ListType>WishList</ListType>
    <TotalItems>70</TotalItems>
    <TotalPages>7</TotalPages>
    <DateCreated>1999-10-06</DateCreated>
    <CustomerName>Joe Schmo</CustomerName>
  </List>
```


This response gives you the list ID for a wish list Joe created. Using the list ID in the `ListLookup` request would give you the items would like as a present.

Use the other response groups in the request to find out other information about Joe. The amount of information that can be returned is restricted by what Joe chose to make publicly accessible.

Related topic

• `ListSearch`

Motivating Customers to Buy

Topics
- Images
- Promotions
- Customer and Seller Reviews
- Suggesting Other Items Sold by the Seller
- Suggesting Similar Items to Buy
- Recommending Other Items Sold by the Same Seller
- Recommending Items To Others
- Top Sellers
- New Releases
- Returning New Releases From Shopping Cart Items
- Sorting by Popularity, Price, or Condition
- Suggesting Items on a Customer's Wish List
- Shipping Options

Motivating customers to buy products through your web site is vital to the health of your business. Many Amazon Associates Web Service operations and response groups provide ways to pique a customer's interest and help drive sales. All of the sections in this chapter explain ways to enhance the selling potential of your web site.

Images

Topics

An image is said to be worth a thousand words. In e-commerce, this is almost always true. The downside of e-commerce is that customers cannot try on clothes or handle items they might like to buy. Providing customers with great images helps overcome that hurdle.

Images Supplied by the Amazon Associates Web Service

Amazon catalogs millions of product images. These images reside on a series of servers dedicated to serving images, as you can see from the URL of one image:

```
http://images.amazon.com/images/P/B000BNM5OA.01_SL110_.jpg
```

All image URLs have a common structure.

URL Portion	Description
Endpoint	URL of the image server. For all images it's *http://images.amazon.com/images/P/*.
Alphanumeric token	An ID that uniquely identifies an image, for example, B000BNM5OA.01.SWCH. The 01 is a country code. Country codes are important because the language in the figures varies by locale. The following list shows the country code values. • 01 - US, CA • 02 - UK • 03 - DE • 08 - FR • 09 - JP
Suffix	Specifies the size of the image returned. Possible suffix values are: • Large size : _SL500_.jpg • Medium size: ._SL160_.jpg • Small size: ._SL110_.jpg • Thumbnail size: ._SL110_.jpg • Tiny: ._SL75_.jpg • Very small (swatch) size: _SL30_.jpg

URL Portion	Description

👉 **Note**

The small and thumbnail sizes are the same.

Looking at the suffixes, you can see that the numerical values refer to the maximum number of pixels on the longest side of the image. Generally, Amazon images will be exactly the number of pixels specified in the filename, that is, a _SL500_.jpg image will be 500 pixels long on its longest side. Images that do not come from Amazon will not necessarily be 500 pixels exactly. The image returned will be the largest available image that is equal to or less than the image size specified in the image's filename. For example, an _SL500_.jpg image might only be 400 pixels on its longest side.

There are 96 pixels per inch.

The following figure shows the relative sizes of Large, Medium, and Small images.
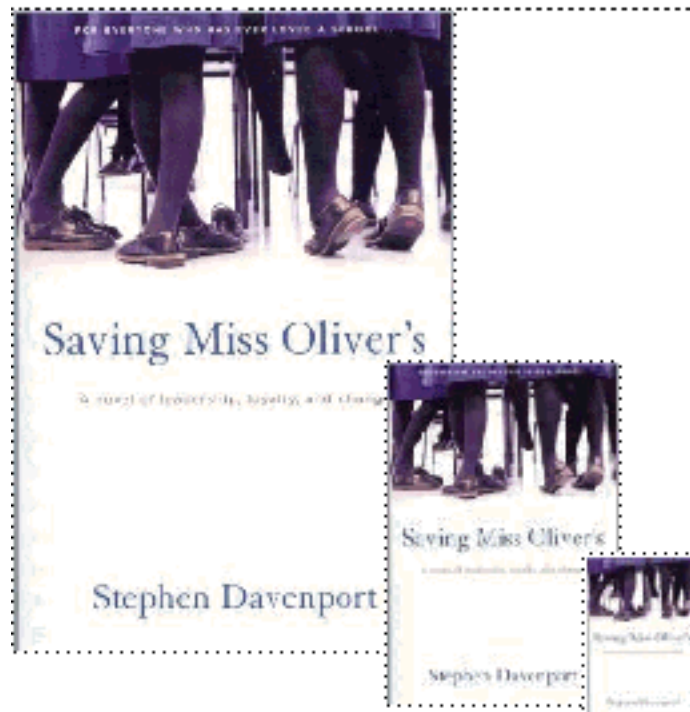
Notice that all of the images are the same, just in different sizes. This corresponds to the image ID being the same for all of the preceding images, just the suffixes, which indicate size, are different. Each image is about half the size of the next larger size.

Hard coding image URLs into applications is not recommended because images come and go. Using the Images or VariationImages response groups to return images guarantees up-to-date image URLs. Once you retrieve the image URLs, you can manipulate just the suffixes of the the image name to display the different sizes of the image. This technique saves you from having to send separate requests for each image size.

Related Topics

- VariationImages Response Group
- Images Response Group

Image Details

The Amazon Associates Web Service returns images in two ways:

- Under <Item> in the <SmallImage> , <MediumImage> , and <LargeImage> elements.
- Under <ImageSets> where the image sizes are specified by the _SLXXX_ modifier, where XXX is the number of pixels on the longest side of the image. A medium size image, for example, has 160 pixels on its longest side.

The following response snippet shows the first way in which the image is returned.

```
<Item>
  <ASIN>B000Q678OO</ASIN>
    <SmallImage>
<URL>http://ecx.images-amazon.com/images/I/51YL4rlI%2B9L._SL75_.jpg</URL>
      <Height Units="pixels">75</Height>
      <Width Units="pixels">58</Width>
    </SmallImage>
    <MediumImage>
<URL>http://ecx.images-amazon.com/images/I/51YL4rlI%2B9L._SL160_.jpg</URL>
      <Height Units="pixels">160</Height>
      <Width Units="pixels">124</Width>
    </MediumImage>
    <LargeImage>
      <URL>http://ecx.images-amazon.com/images/I/51YL4rlI%2B9L.jpg</URL>
      <Height Units="pixels">500</Height>
      <Width Units="pixels">389</Width>
    </LargeImage>
```

Notice that each image is associated with an item identifier, which, in the preceding example, is an ASIN. The image details include the following:

- Image's size, which is captured in the elements <SmallImage> , <MediumImage> , and <LargeImage>
- URL of the image on Amazon's image server
- Image's height and width measurements in pixels to aid in displaying the images

  The standard resolution is 24 bit color and 96 pixels per inch

The following response snippet shows the second way in which the image is returned.

```
<ImageSets>
  <ImageSet Category="primary">
    <SwatchImage>
<URL>http://ecx.images-amazon.com/images/I/51YL4rlI%2B9L._SL30_.jpg</URL>
      <Height Units="pixels">30</Height>
      <Width Units="pixels">23</Width>
    </SwatchImage>
    <SmallImage>
<URL>http://ecx.images-amazon.com/images/I/51YL4rlI%2B9L._SL75_.jpg</URL>
      <Height Units="pixels">75</Height>
      <Width Units="pixels">58</Width>
    </SmallImage>
    <ThumbnailImage>
<URL>http://ecx.images-amazon.com/images/I/51YL4rlI%2B9L._SL75_.jpg</URL>
      <Height Units="pixels">75</Height>
```

```
        <Width Units="pixels">58</Width>
    </ThumbnailImage>
    <TinyImage>
<URL>http://ecx.images-amazon.com/images/I/51YL4rlI%2B9L._SL110_.jpg</URL>
        <Height Units="pixels">110</Height>
        <Width Units="pixels">86</Width>
    </TinyImage>
    <MediumImage>
<URL>http://ecx.images-amazon.com/images/I/51YL4rlI%2B9L._SL160_.jpg</URL>
        <Height Units="pixels">160</Height>
        <Width Units="pixels">124</Width>
    </MediumImage>
    <LargeImage>
        <URL>http://ecx.images-amazon.com/images/I/51YL4rlI%2B9L.jpg</URL>
        <Height Units="pixels">500</Height>
        <Width Units="pixels">389</Width>
    </LargeImage>
 </ImageSet>
</ImageSets>
```

The sizes of the images under <ImageSets> are specified by the _SLXXX_ suffix in the URL, where XXX is the number of pixels on the longest side of the image. A medium size image, for example, has 160 pixels on its longest side so it has the suffix _SL160_. This is the preferred way to reference images.

The ImageSets element attribute, Category, is set to Primary. Primary images are the same images that appear in the <Item> section.

Multiple Images Versus Variation Images

Amazon images are associated in the following ways:

• Size

• View

• Variation

Amazon Associates Web Service makes every image available in three or four different sizes. One item is presented in multiple views and each of the views is presented in three or four different sizes. The following images show the same item in two different views. Both images are medium sized.

One item has one or more variations. The images returned show the same item in its multiple variations

and each variation is presented in three or four different sizes. The following images show two variations of the same item.

Amazon groups items as variations of one another when the items are identical except for one or two properties. In the preceding figure, the same shirt is shown in two different colors. Each variation shown is called a child item. The parent item is what associates all of the child items and their images, as shown in the following figure.
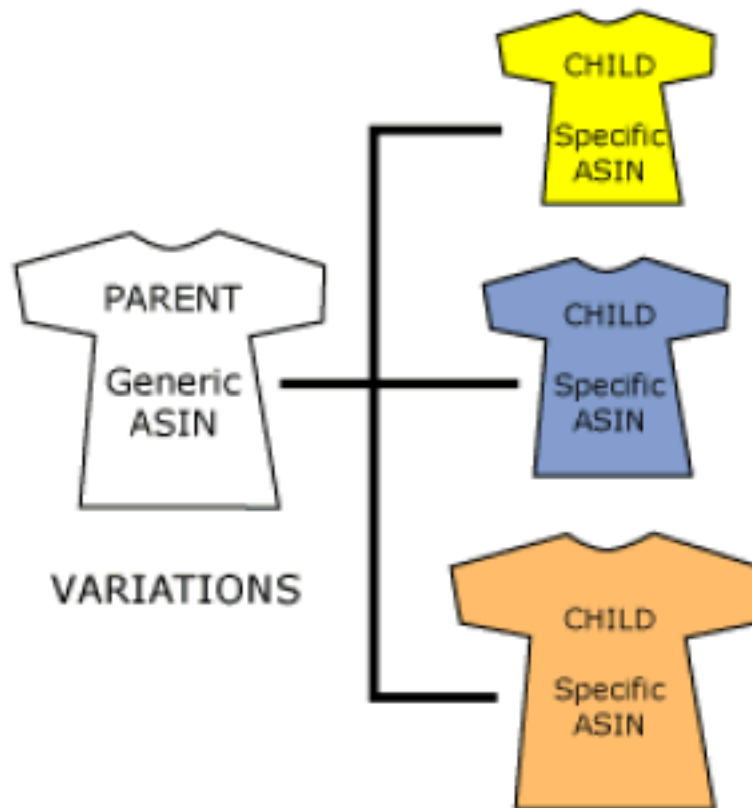
In this example, the parent item comes in three different colors. Each color is a separate variation, and each variation has its own item identifier, such as a ASIN. Typically, the parent item does not have an image associated with it because it is an abstraction of all of its child items. If a parent ASIN is included in a request, Amaazon Associates Web Service typically tries to return the image of a child ASIN.

In the XML responses, the image URLs are grouped according to these associations within the ImageSet element.

Image Sets

An image set groups together related images. Those images can be related by size, item, or variation. The following image set shows images grouped according to size.

```
<ImageSets>
 <ImageSet Category="primary">
  <SmallImage>
  ...
  </SmallImage>
  <MediumImage>
  ...
  </MediumImage>
  <LargeImage>
  ...
  </LargeImage>
 </ImageSet>
</ImageSets>
```

If the images were variations of the primary image, the image set would include a fourth image, the swatch size image.

```
<SwatchImage>
 ...
</SwatchImage>
```

If multiple views of the same item were returned, you would have multiple *ImageSet* elements within an *ImageSets* element, where each *ImageSet* represented a different view, as follows.

```
<ImageSets>
  <ImageSet>
   ...
  </ImageSet>
  <ImageSet>
   ...
  </ImageSet>
<ImageSets>
```

In an *ImageSet*, then, you have one view of an image presented in three or four sizes. So, if Amazon has five different images of an item, Amazon Associates Web Service would return three or four sizes of each image, totaling fifteen or twenty image URLs.

Typically, XML responses include multiple ImageSets, which are returned within the *ImageSets* element.

ImageSet Categories

In your XML response, you might get as many as thirty image URLs. Which one or ones should you display? Image name suffixes specify the size of the image. Choosing a size narrows the possible images to display. Still, you must choose which image set to use.

Amazon Associates Web Service takes the guess work out of such situations by adding an attribute to the *ImageSet* element called Category. The following XML response snippet shows an example of a "primary" Category ImageSet.

```
<ImageSets>
  <ImageSet Category="primary">
```

The following tavle shows *Category* values and their potential uses.

Category Value	Description
primary	Use the images in this image set for the first image a customer sees of an item.
variant	Use images in this image set to display other views of the same item or to present variations of the primary item.
swatch	Use images in this image set to get four sizes of the swatch image.

The following image shows an example of an image from the primary *ImageSet*.

The following image shows the variant image associated with the primary from the variant *ImageSet*.
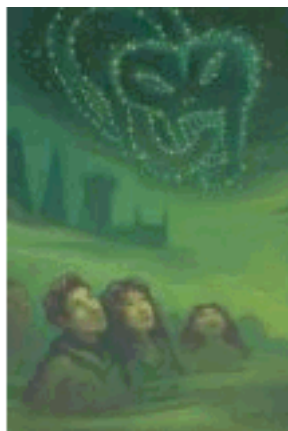
This image is the back cover of the same book. Displaying multiple views of the same item helps give customers a better sense of what they are buying. For that reason, providing customers with the opportunity to display "variant" image sets in addition to the "primary" image set helps drive sales.

Retrieving Images

Images are returned by two response groups:

- Images
- VariationImages

These response groups are also included in the Medium and Large response groups.

The Images response group can be used with the following Amazon Associates Web Service operations:

- `ItemLookup`
- `ItemSearch`
- `ListLookup`
- `SimilarityLookup`

The *Images* response group does not return images of child items; it only returns an image of the parent item, if there is one. To return the images of the child items, use the *VariationImages* response group, which can only be used with the `ItemLookup` operation.

Conversely, *VariationImages* only returns images of child items. If you use this response group with items that are not child items, `ItemLookup` does not return any images.

Some items do not have images or have images that are missing, for example, the large size of an image might be missing. If an item does not have an associated image, either the image is missing or the item is a parent item. Often parent items do not have associated images because they are abstractions of all of the child items. Amazon Associates Web Service sometimes returns the image of a child item for a parent item so that something can be displayed.

If the item in the request, such as a parent item, does not have images associated with it, the *ImageSet* and *ImageSets* elements are not included in the response

Manipulating Image URLs

In previous sections, you saw how you could manipulate the suffix of the image URL to display the same image in different sizes (if they exist on the Image server). There are some additional manipulations you can perform using the URL and achieve image effects that are not offered by Amazon Associates Web Service operations.

Adding Discount Icons

Discounts are often a sales driver for products. Amazon Associates Web Service can display discount icons by appropriately manipulating the image URL.

To display discount icons

- To add a 20% off icon, add "_PE20" (PE stands for "percent") to the URL right after the image identifier, as follows:

```
http://images.amazon.com/images/P/0976925524.01._PE20_SCMZZZZZZZ_.jpg
The following figures shows the addition of the discount icon.
```
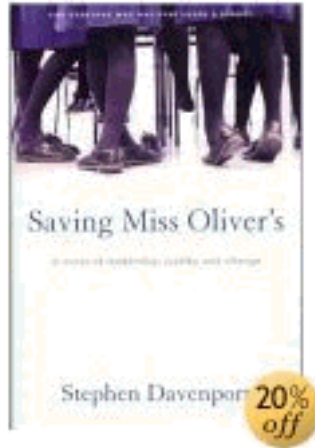
Change the percent off by changing the numerical value. For example, to make the discount icon 30%, use _PE30.

Adding Additional Views

Previous sections discussed how items can be associated with many figures, each offering a different view of the item. Sometimes, you can manipulate the image URL to produce those images. For example, if you add to the URL PTnn, where *nn* is a two-digit integer, you can display alternate views of the image. For example, if you add _PT20 to the preceding URL, you get the following:
`http://images.amazon.com/images/P/0976925524.01._PE20_PT20_SL75_.jpg`. The corresponding image is:

Rotating the image is the default behavior for items that do not have alternate views.In other examples where there are alternate views, you get an entirely different view of an item. For example, the URL, `http://images.amazon.com/images/P/B000AYGDIO.01._SL75_.jpg` returns the following image.

By adding PT02 (part 2) to the URL,
`http://images.amazon.com/images/P/B000AYGDIO.01.PT02._SL75_.jpg` the image changes
to the following.

By adding PT03 (part 3) to the URL,
`http://images.amazon.com/images/P/B000AYGDIO.01.PT03._SL75_.jpg` the image changes
to the following:

Using these extensions increases performance because you are not making Amazon Associates Web
Service requests to retrieve the images. On the other hand, not all images have alternate views, and those
that do do not have the same number of alternate views. When you enter a PT*nn* value that does not
reference an image, the Image server returns a .gif image that is 1 by 1 pixel large. So, to display all of
the different views of an item, you can increment, in the image URL, the PT*nn* value until a 1 by 1 pixel
image is returned.

Spinning Images

The PT*nn* value gets even more interesting as you increase its value. As you increase the value of *nn*
from 1 to 90, the image rotates, correspondingly, to 90 degrees. As the number increases, the image
spins and shrinks disappearing around a value of 130. The following figure shows PT*nn* values of 100,
105, 110, and 115.

100 105 110 115

To continue the rotation but grow the image from 0 to full size, increment the PT*nn* value from 325 (no image) to 360, at which point the image is full sized and upright, as shown in the following figures.

330 340 350 360
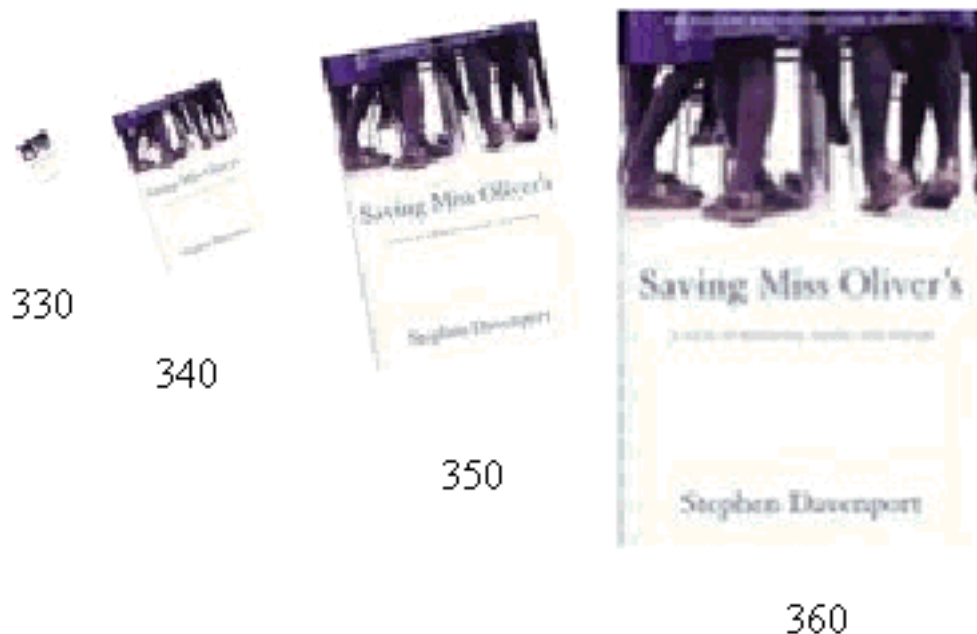
Amazon also supplies similar, rotated, scaled images between 130 and 325.

Promotions

Topics
- Promotion Categories
- Benefit and Eligible Items
- Typical Response Elements Used
- RSS Feeds for Promotions

Giving customers the opportunity to buy items at discounted prices is a great way to drive sales. You can determine whether or not an item has an associated promotion by including the PromotionDetails or PromotionSummary response group in your request.

The *PromotionSummary* response group returns most if not all of the information you need to display promotional information on a web site, as shown in the following figure.

Product Promotions

Buy 4 eligible items in the 4-for-3 promotion offered by Amazon.com and get 1 of them free. Here's how (restrictions apply)

The *PromotionDetails* response group offers additional information. Most of the information you want to display to customers, however, is provided by *PromotionSummary*.

Promotions are only available with items that have offers. Items that do not have offers are, for example, Collection and Variation parent ASINs. For that reason, when you use either of the promotion response groups, you must also use, in the same request, a response group that returns an offer, including:

- *Large*
- *OfferFull*
- *Offers*

You can use the following operations to get promotion information because these operations can return offers:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Amazon Associates Web Service operations do not enable you to create promotions for items. The promotional response groups only enable you to return promotional information.

Related Topics

- PromotionDetails Response Group
- PromotionSummary Response Group

Promotion Categories

There are many different kinds of promotions associated with items for sale. Amazon Associates Web Service fully supports the following promotion categories.

Category	Description
FreeShipping	The item is shipped free of charge.
BuyQuantityXGetAmounOffX	If you buy at least the specified number of items, the cost of the next item is discounted. For example, if a customer buys three shirts, the fourth shirt is discounted by 50%..
ForEachQuantityXGetAmountOffX	Each item is discounted by a specified amount or by a percentage of the sales price. For example, all shirts are 30% off.
BuyAmountXGetAmountOffX	For a specified dollar amount you receive a discount off

Category	Description
	the purchase. For example, buy three shirts and get 10% off.
BuyAmountXGetAmountOffY	For a specified dollar amount you receive a discount off another item.. For example, buy three balls and get 25% off of a baseball glove.
BuyAmountXGetPercentOffX	For a specified dollar amount you receive a percentage discount off the purchase. For example, spend more than $100 and receive a 10% discount.
BuyAmountXGetPercentOffY	For a specified dollar amount you receive a percentage discount off another item.. For example, spend more than $100 and receive a 10% discount off of a shirt.
BuyAmountXGetQuantityFreeGiftCard	For a specified dollar amount you receive a gift card that entitles you to a free item. For example, spend more than $100 and receive a free gift card.
BuyAmountXGetQuantityFreeY	For a specified dollar amount you receive a free item. For example, spend more than $100 and receive a free shirt.
BuyAmountXGetShippingFreeX	For a specified dollar amount you receive free shipping. For example, spend more than $100 and get free shipping.
BuyAmountXGetSimpleShippingFreeX	For a specified dollar amount you receive free simple shipping.
BuyQuantityXGetPercentOffX	When you purchase a specified number of items, you get a percentage discount. For example, purchase three shirts and get a 50% discount off of a fourth shirt.
BuyQuantityXGetPercentOffY	When you purchase a specified number of items you get a percentage discount off of another item. For example, purchase three shirts and get a 50% discount off of a pair of pants.
BuyQuantityXGetQuantityFreeGiftCard	When you purchase a specified number of items you receive a gift card that entitles you to a free item. For example, purchase three shirts and get a gift card.
BuyQuantityXGetQuantityFreeX	When you purchase a specified number of items you receive a specified number of the same item for free. For example, buy one shirt get one free.
BuyQuantityXGetQuantityFreeY	When you purchase a specified number of items you receive a specified number of a different item for free. For example, purchase three shirts and get a free pair of pants.
BuyQuantityXGetShippingFreeX	When you purchase a specified number of items you receive free shipping. For example, purchase three shirts and get them shipped for free.
BuyQuantityXGetSimpleShippingFreeX	When you purchase a specified number of items you receive free simple shipping.

Category	Description
DiscountAverageNofM	When you purchase two items, the discount is the average of the two discounts.
DiscountCheapestNofM	When you purchase two items, the cost of each item equals the cost of the least expensive item. For example, purchase two dinners and be charged twice the price of the cheaper meal.
ForEachQuantityXGetAmountOffX	When you purchase a specified number of items you receive a reduced price for each item. For example, for every six dozen eggs you buy, receive a 10% discount.
ForEachQuantityXGetAmountOffY	When you purchase a specified number of items you receive a reduced price for a different item. For example, for every six dozen eggs you buy, receive a $10 discount on a frying pan.
ForEachQuantityXGetPercentOffQuantityY	When you purchase a specified number of items you receive a percentage discount off of a different item. For example, for every six dozen eggs you buy, receive a 10% discount on a frying pan.
ForEachQuantityXGetQuantityFreeGiftCard	When you purchase a specified number of items you receive a gift card. For example, for every six dozen eggs you buy you get a gift card free.
ForEachQuantityXGetQuantityFreeX	When you purchase a specified number of items you receive some number of the same items for free. For example, for every six dozen eggs you buy you get a dozen eggs free.
ItemSubtotal	Subtotal of one or more of the same items.

☞ **Note**

Other promotion categories return only partial information about a promotion.

These promotional categories are returned by two response elements, depending on the response group:

- Category, in *PromotionSummary* responses
- PromotionCategory, in *PromotionDetails* responses

Benefit and Eligible Items

Items returned by one of the promotions response groups are related to the promotion in one of the following ways:

- **Benefit**—The item is part of the promotional reward.
  For example, in a buy one camera and get a camera case free promotion, the camera case is the benefit item.
- **Eligible**—The item is what the customer must purchase to qualify for the promotion.
  For example, in a buy one camera and get a camera case free promotion, the camera is the eligible

item

- **Both**—It is possible for an item to be both the benefit and eligible item.
  For example, in a buy two shirts get the third shirt half off promotion, the shirt is both the benefit and the eligible item.

The promotions response groups specify whether an item is the benefit or eligible item by using the elements *IsInBefefitSet* and *IsInEligibilitySet*.

```
<IsInBenefitSet>true</IsInBenefitSet>
<IsInEligibilityRequirementSet>true</IsInEligibilityRequirementSet>
```

The value type for both of these elements is boolean. When "true," the item is part of that set. For example, if *IsInBenefitSet* is "true," the item is one of the benefits of the promotion.

If *IsInBenefitSet* is "true," the response also contains the element "BenefitDescription," which describes the benefit item, for example:

```
<BenefitDescription>Save $25.00 when you spend $125.00 or more on Kitchen &
Housewares or Bed & Bath products offered by Amazon.com. Enter code AUGSAVER
at checkout.</BenefitDescription>
```

If IsInEligibilitySet is "true," the response will contain the element, "EligibilityDescription," which describes the eligible item.

Typical Response Elements Used

The promotion response groups provide a wealth of information about specific items. It is almost always a good idea to include one or both of the promotion response groups in requests that also ask for offers. Among all of the response elements returned by PromotionSummary, the following are typically used in the display of promotion information.

Response Element	Description
BenefitDescription	Describes the benefit, which is the item(s) that the customer receives as a result of the promotion. This element will not be present if the item is not part of the promotional benefits.
EligibilityDescription	Describes the items the customer must purchase to qualify for the promotion. This element will not be present if the item does not qualify the customer to receive the promotional benefit.
TermsAndConditions	Specifies the terms and conditions of the promotion.

The following response snippet shows the values for these elements.

```
<BenefitDescription>Save $25.00 when you spend $125.00 or more on Kitchen &
Housewares or Bed & Bath products offered by Amazon.com. Enter code AUGSAVER
at checkout.</BenefitDescription>
<TermsAndConditions><STRONG>To receive the Best Value discount:</STRONG> <OL>
<LI>Add $125 of qualifying Kitchen & Housewares or Bed & Bath products to
your Shopping Cart via the <STRONG>Add to Shopping Cart</STRONG> button on
each respective product information page. …
</TermsAndConditions>
```

These three elements are meant to be read by people. For that reason, they are returned in HTML.

The other response elements in PromotionDetails are really designed for further processing of the promotion. The following elements from PromotionDetails are helpful:

Response Element	Description
ComponentType	Specifies what the promotion applies to, for example, Shipping, ItemPrice, Subtotal.
CouponCombinationType	Specifies the kinds of promotional coupons that can be combined, for example, Unrestricted, Preferential, and Exclusive, where: • *Unrestricted*—Can be used with any other promotions • *Preferential*—Can be used with some other promotions • *Exclusive*—Cannot be used with any other promotions
FormattedPrice	The price formatted for display.
IsInBenefitSet	A boolean value. When True, the associated ASIN is what the customer receives as part of the promotion.
IsInEligibilityRequirementSet	A boolean value. When "true," the associated ASIN is what the customer must purchase to qualify for the promotion.

The following response snippet shows the values for these elements.

```
<ComponentType>ItemPrice</ComponentType>
<CouponCombinationType>Unrestricted</CouponCombinationType>
<IsInBenefitSet>true</IsInBenefitSet>
<IsInEligibilityRequirementSet>true</IsInEligibilityRequirementSet>
```

These values show that the promotion is based on discounting the price of the item ("ItemPrice"), that the promotion can be combined with any others ("Unrestricted"), and that the item is both what needs to be bought and what is awarded ("True").

For full responses, see: PromotionDetails and PromotionSummary response groups.

Related Topics

- [PromotionDetails Response Group](#)
- [PromotionDetails Response Group](#)

RSS Feeds for Promotions

Amazon sends RSS feeds that give you the latest promotions offered by Amazon. The RSS feeds are free and come in XML so the data can be customized for display on a web site. Use any RSS reader to receive the feeds.

The following example shows a snipped from an RSS feed.

```
<rss version="2.0">
  <channel>
  <title>Dollar Off Promotion</title>
  <link>http://www.amazon.com</link>
  <description>Dollar Off Promotion</description>
  <pubDate>Thu, 07 Sep 2006 08:01:13 GMT</pubDate>
```

```
   <dc:date>2006-09-07T08:01:13Z</dc:date>
   <image>
     <title>Amazon.com—Earth's Biggest Selection</title>
     <url>http://images.amazon.com/images/G/01/rcm/logo2.gif</url>
     <link>http://www.amazon.com</link>
   </image>
   <item>
   <title> Save $20 on Katadyn Water Filters</title>
     <link>
ht
tp://www.amazon.com/s/ref=nb_ss_sg/002-1272578-9248007?url=node%3D3400371&fie
ld-keywords=soldbyamazon+katadyn&tag=rssfeeds-20&campaign_id=212301
     </link>
     <description>
       Save $20 on Katadyn Water Filters *** Starting from Fri Sep 01 00:00:00
PDT 2006 to Sun Oct 01 23:59:59 PDT 2006 ***
     </description>
     <guid>
ht
tp://www.amazon.com/s/ref=nb_ss_sg/002-1272578-9248007?url=node%3D3400371&fie
ld-keywords=soldbyamazon+katadyn&tag=rssfeeds-20&campaign_id=212301
     </guid>
</item>
```

Customer and Seller Reviews

Topics

- Getting Customer Reviews
- Getting Editorial Reviews
- Getting Seller Feedback

One of the great benefits of shopping on Amazon is the wealth of customer reviews of both items and sellers. Reading positive customer feedback about an item or a seller can give the customer the extra nudge they need to purchase an item.

Amazon Associates Web Service and Amazon encourage a customer community. Customer reviews are one aspect of the community. Other aspects include WishList, WeddlingRegistry, BabyRegistry, in which customers supply the items they'd like to receive as presents.

All of these features, in Amazon Associates Web Service, are read-only, that is, it is possible to retrieve customer reviews and various customer lists using Amazon Associates Web Service operations but not possible to create new customer reviews or lists. Customers create reviews and lists using the Amazon web site and their customer account.

Getting Customer Reviews

There are two ways of returning customer reviews: using the *CustomerReviews* response group and by getting a link to it from the *Small* response group. The *Small* response group and all of its parent response groups return a customer reviews link similar to the following:

```
ht
tp://www.amazon.com/review/product/B000IHL51S%3FSubscriptionId%3D1C36YNE9WHA6
T34ADPR2%26tag%3Dws%26linkCode%3Dxm2%26camp%3D2025%26creative%3D386001%26crea
tiveASIN%3DB000IHL51S
```

To return customer reviews using the CustomerReviews response group

- Use the CustomerContentLookup operation with the CustomerReviews response group, as

follows.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=CustomerContentLookup&
CustomerId=[ID]&
ResponseGroup=CustomerReviews
```

☞ **Note**

The CustomerReview response group is valid only in the US locale.

The *DetailPageURL* (the page itself) contains customer reviews. The following figure shows the part of the *DetailPageURL* web page that displays the customer reviews.

On this page, the link, See all my reviews, enables customers to read the reviewer's other item reviews.

Sorting Reviews

The *ReviewSort* parameter enables you to specify the order in which reviews are sorted in responses. The options are: describe3d in the following table.

Sort Value	Description
-HelpfulVotes	Sorted by most helpful reviews listed first.
HelpfulVotes	Sorted by most helpful reviews listed last.
-OverallRating	Sorted by best overall reviews listed first.
OverallRating	Sorted by best overall reviews listed last.
-SubmissionDate (Default)	Sorted by the most recent reviews listed first.
SubmissionDate	Sorted by the most recent reviews listed last.

Getting Editorial Reviews

In addition to presenting customer reviews, the EditorialReviews response group provides the merchant's description of an item. This information is less of a review and more of a product description. The content of the EditorialReviews response group can be displayed individually as part of an ItemLookup, ItemSearch, ListLookup, or SimilarityLookup request. Also, the editorial review is returned in the "Product Description" section on the DetailPageURL web page, as shown in the following figure.

Product Description

From the Manufacturer
This award-winning ride-on rocket features retro styling and Radio Flyer dependability. The classic red steel body is safe and durable. Kids love the astronaut and space sounds, vibrating motor action, clicking nose cone, and light up panel and after burner. Comfortable no-slip seat and covered front wheels make this car safe and sturdy.

For books, Editorial Reviews is a separate listing on the DetailPageURL web page. For example,

Editorial Reviews

The Midwest Book Review
SAVING MISS OLIVER'S is an engaging novel and is very highly recommended to all general fiction readers.

Bookwire, April 07, 2006
----Rich characters, unexpecdted plot development,and underlying themes of hope, lofty ideals, educational excellence, and historical pride.

Stephen Waters, Former School Head
---couldn't put it down. It was like a wire was attached to my brain, my memories, my very soul.

The following XML snippet shows part of the equivalent Amazon Associates Web Service EditorialReview response.

```
<EditorialReview>
  <Source>Bookwire, April 07, 2006</Source>
  <Content>——Rich characters, unexpected plot development,and underlying
themes of hope, lofty ideals, educational excellence, and historical
pride.</Content>
</EditorialReview>
```

The Editorial Reviews section also contains the author's description of the book.

Getting Seller Feedback

When someone other than Amazon is selling an item, a customer sometimes wants reassurance that the seller is reputable. Sending money to a merchant the customer has not and will not meet raises the specter of fraud. By providing customer reviews of sellers, you can help remove some of the concerns that customers reasonably have about purchasing items over the Internet.

Sample seller feedback from Amazon's retail web site is shown in the following figure.

Amazon Associates Web Service returns the same information in the Seller response group, which can be used in `SellerLookup` requests, for example:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[ID]&
```

```
Operation=SellerLookup&
SellerId=[Seller ID]&
ResponseGroup=Seller
```

The following XML is a snippet of the full response for this request.

```
<Seller>
  <SellerId>A8989898989963</SellerId>
  <Nickname>alphabooks</Nickname>
<GlancePage>http://www.amazon.com/gp/help/seller/at-a-glance.html?seller=A898
9898989963&marketplaceSeller=1</GlancePage>
  <Location>
    <City>Fort Smith</City>
    <State>AR</State>
  </Location>
  <AverageFeedbackRating>4.9</AverageFeedbackRating>
  <TotalFeedback>325</TotalFeedback>
  <TotalFeedbackPages>65</TotalFeedbackPages>
  <SellerFeedback>
    <Feedback>
      <Rating>5</Rating>
      <Comment>fast shipping, great product, absolutely no   complaints here!
A+</Comment>
      <Date>2005-11-22T03:25+0000</Date>
      <RatedBy>A345656565656I</RatedBy>
    </Feedback>
    <Feedback>
      <Rating>5</Rating>
      <Comment>Great, thanks for fast shipping!</Comment>
      <Date>2005-11-21T14:52+0000</Date>
      <RatedBy>A1212121212203</RatedBy>
    </Feedback>
```

This response snippet shows the sellers ID and nickname. Customer ratings of sellers are summarized by a number of stars where five stars is the best possible seller rating. The Rating element specifies a specific customer's rating of a seller. The *AverageFeedbackRating* specifies the average of all customer ratings of the seller. The *TotalFeedback* element specifies the number of customers that reviewed the seller.

In addition to the summary information, the Seller response group returns the content of all customer reviews. The preceding example shows the first two. As the number of customer reviews can be numerous, the *FeedbackPage* parameter can be used in the SellerLookup request to specify which page of ten reviews to return.

Summary information of all seller reviews is included in the glance page, which is returned by SellerLookup by default in the *GlancePage* element, for example:

```
[Sel
<GlancePage>http://www.amazon.com/gp/help/seller/at-a-glance.html?seller=ler
ID]&marketplaceSeller=1</GlancePage>
```

The *marketplaceSeller* value of 1 (a boolean value representing True) specifies that the seller also sells in the Amazon marketplace. This means that you can find the seller's items for sale both on Amazon.com and on the seller's web site.

You can enter the *GlancePage* URL into a browser to see the seller's glance page, which summarizes, in tabular form, the number of positive and negative reviews of a seller. Amazon's retail web site displays the glance page information, part of which is shown in the following figure:

You can see from all of the examples presented in section that `SellerLookup` returns a significant amount of information about sellers. `ItemSearch` and `ItemLookup` requests can also return information about items sold by sellers but the information returned by `SellerLookup`, `SellerListingSearch`, and `SellerListingLookup` is more extensive.

Returning Additional Seller Reviews

One question a customer has after reading a customer review is how valid is the customer's review? One way to answer that question is to provide access to all of the reviewer's reviews.

The Seller response group returns the customer ID of the reviewer in the *RatedBy* element. To return additional reviews, use the customer ID in the `CustomerContentLookup` operation and include `CustomerReviews` as the response group, as follows.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=CustomerContentLookup&
CustomerId=[Customer ID]&
ResponseGroup=CustomerReviews
```

The following XML shows a snippet of the full response.

```
<CustomerReviews>
  <TotalReviews>8</TotalReviews>
  <TotalReviewPages>1</TotalReviewPages>
  <Review>
    <ASIN>6305692688</ASIN>
    <Rating>1</Rating>
    <HelpfulVotes>22</HelpfulVotes>
    <TotalVotes>36</TotalVotes>
    <Date>2000-02-29</Date>
    <Summary>one star is indeed one too many</Summary>
    <Content>Let's face facts. This is a terrible, terrible movie. We have to
guess that all involved in this project are hiding. Really, I'm generally
quite easy on movies, but this endless stream of uninteresting battle scenes
```

```
with pointless dialogue and no discernable plot is perhaps one of the worst
movies ever made. Sorry if this seems harsh, but I just don't want anyone to
buy it unknowingly.</Content>
  </Review>
```

This response shows that this reviewer has reviewed eight items. The review in this example is
associated with the item whose ASIN is 6305692688, which the reviewer gave only one star. Of the 36
people who read the review, 22 said the review was helpful to them. The remainder of the review
contains the date and summary of the review as well as the full text of the review.

By presenting customers with all of the reviewer's reviews, the customer can come to some
understanding of the reviewer's biases.

Suggesting Other Items Sold by the Seller

Customers sometimes want to shop from sellers they've grown confident in. You can enable the
customer to see all of the items one seller has for sale by using the `SellerListingLookup` operation.
By default, it uses the `SellerListing` response group, for example:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKey=[AWS Access Key ID]&
Operation=SellerListingSearch&
SellerId=[Seller ID]&
ResponseGroup=SellerListing
```

The following response shows one of the seller's items that they have for sale. The entire response
contains all of the seller's items.

```
<SellerListing>
  <ExchangeId>Y06Y0322155Y6575786</ExchangeId>
  <ListingId>0909R298811</ListingId>
  <ASIN>0451205367</ASIN>
  <Title>Richest Man in Babylon [Paperback] by Clason, George S.</Title>
  <Price>
    <Amount>273</Amount>
    <CurrencyCode>USD</CurrencyCode>
    <FormattedPrice>$2.73</FormattedPrice>
  </Price>
  <StartDate>2005-09-10</StartDate>
  <EndDate>2008-08-25</EndDate>
  <Status>Open</Status>
  <Quantity>293</Quantity>
  <Condition>new</Condition>
  <SubCondition>new</SubCondition>
  <Seller>
    <SellerId>ASYDZOX0HKBSE</SellerId>
    <Nickname>any_book</Nickname>
  </Seller>
</SellerListing>
```

Suggesting Similar Items to Buy

Topics

- Related Items

When a customer purchases or searches for an item, they demonstrate an interest. As a developer, you can capitalize on that fact by suggesting to the customer similar items they might also like to buy. Add-on purchases is a powerful means of quickly increasing sales.

Similarity is based on items that customers bought, that is, customers who bought X also bought Y. This algorithm is different from one based on items viewed, for example. Basing the algorithm on purchases rather than viewing assures you that the similar items are more likely to be of interest to the customer.

Amazon Associates Web Service provides the following means of returning a list of similar items:

- Similarities response group
- CartSimilarities response group
- SimilarityLookup operation

Typically, the `Similarities` response group is used to find item IDs that are similar to the items returned in a response. To return extended information about those items, you could use the similar item IDs in `ItemLookup` requests.

Alternately, if you know the ID of the item for which you want similar items, you can use the `SimilarityLookup` operation to return extended information about each similar item.

Finding Similar Item IDs

The `Similarities` response group returns the title and ID of items that are similar to those returned in a response. For example, in the following sample request:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemLookup&
ItemId= B000184IY0&
ResponseGroup=Similarities
```

the following similar item was returned:

```
<SimilarProduct>
  <ASIN>B00004GJVO</ASIN>
  <Title>Minor Move</Title>
</SimilarProduct>
```

You can use the information in this response to display the titles of similar items. If you want to display more information about the similar items, use the ASIN returned in a new `ItemLookup` request and specify an appropriate response group, such as ItemAttributes.

Returning Items Similar to Cart Items

Customers demonstrate their interest in an item by putting it in their shopping cart. Showing customers similar items to what they already have in their cart is a good way to spur add-on sales.

The CartSimilarities response group, which works with most cart operations, returns items that are similar to the ones included in the cart request. Items are returned based on:

- **Similarity**—Items are similar to the one purchased
- **Items viewed**—Customers who viewed the item in the cart also viewed the items returned by this

response group

- **Similar items—**Similar items in other product categories

Each of these similarity types have their own element tag: <SimilarProduct>, <SimilarViewedProduct>, and <OtherCategoriesSimilarProduct>, respectively, for example:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateId=ws&
Operation=CartCreate&
Item.1.ASIN=B000062TU1&
MergeCart=True&
Item.1.Quantity=2&
ResponseGroup=CartSimilarities
```

This request produces the following response snippet.

```
<SimilarProducts>
  <SimilarProduct>
    <ASIN>B00008DDXC</ASIN>
    <Title>Harry Potter and the Chamber of Secrets (Widescreen Edition)(Harry
Potter 2)</Title>
  </SimilarProduct>
</SimilarProducts>
<SimilarViewedProducts>
  <SimilarViewedProduct>
    <ASIN>B000E6UZZK</ASIN>
    <Title>Harry Potter Years 1-4 (Harry Potter and the Sorcerer's Stone /
Chamber of Secrets / Prisoner of Azkaban / Goblet of Fire) (Widescreen Edi
tion)
    </Title>
  </SimilarViewedProduct>
</SimilarViewedProducts>
<OtherCategoriesSimilarProducts>
  <OtherCategoriesSimilarProduct>
    <ASIN>0590353403</ASIN>
    <Title>Harry Potter and the Sorcerer's Stone (Book 1)</Title>
  </OtherCategoriesSimilarProduct>
</OtherCategoriesSimilarProducts>
```

This response shows that the *Harry Potter and the Sorcerer's Stone* DVD placed in the shopping cart is similar to another Harry Potter DVD, *Harry Potter and the Chamber of Secrets*. Customers who viewed the DVD in the shopping cart also viewed the DVD, *Harry Potter Years*.. A related item to the DVD in the cart but in a different product category is the book version of the DVD: *Harry Potter and the Sorcerer's Stone*.

Related Topics

- CartSimilarities Response Group

Using SimilarityLookup

Topics
- Specifying Multiple Items

When you put an item ID in a `SimilarityLookup` operation requires, the response includes similar items. In previous sections, you saw that you can use the `Similarities` response group to return similar items. So, why use `SimilarityLookup`? This operation gives you the following advantages:

- `SimilarityLookup` provides a number of request parameters, such as *MerchantId* and *Condition*, to help filter the response
- `SimilarityLookup` is able to use many response groups to customize the information in the response
- You can specify more than one item in a request and find items that are similar to all of them, or similar to each item in the request

The following request returns items similar to the specified ASIN.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=SimilarityLookup&
ItemId=[ASIN]
```

The following XML is a snippet of the full response.

```
<Item>
  <ASIN>B0009VX8VI</ASIN>
<DetailPageURL>http://www.amazon.com/exec/obidos/redirect?tag=ws%26link_code=
xm2%26camp=2025%26creative=165953%26path=http://www.amazon.com/gp/redirect.ht
ml%253fASIN=B0009VX8VI%2526tag=ws%2526lcode=xm2%2526cID=2025%2526ccmID=165953
%2526location=/o/ASIN/B0009VX8VI%25253FAWSAccessKeyId=[AWS Access Key
ID]</DetailPageURL>
  <ItemAttributes>
  <ProductGroup>Apparel</ProductGroup>
  <Title>Mark VII Men's Short Sleeve Knit Golf Shirt</Title>
</ItemAttributes>
</Item>
```

This response shows that one item, Mark VII Men's Short Sleeve Knit Golf Shirt, was found that is similar to the ASIN specified in the request.

Specifying Multiple Items

The `SimilarityLookup` operation enables you to specify multiple items in a request, for example:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=SimilarityLookup&
ItemId=ASIN1,ASIN2,ASIN3
```

The response contains either items that are:

- Similar to all of the items specified in the request (intersection)
- Similar to one or more of the items specified in the request (union)

You specify the intersection or union of similar ASINs by setting the value of the *SimilarityType* parameter in a `SimilarityLookup` request. The possible parameter values are:

- Intersection, which means that the items returned are similar to all of the items specified in the `SimilarityLookup` request. This value is the default.
- Random, which means that the items returned are similar to at least one of the items specified in the `SimilarityLookup` request.
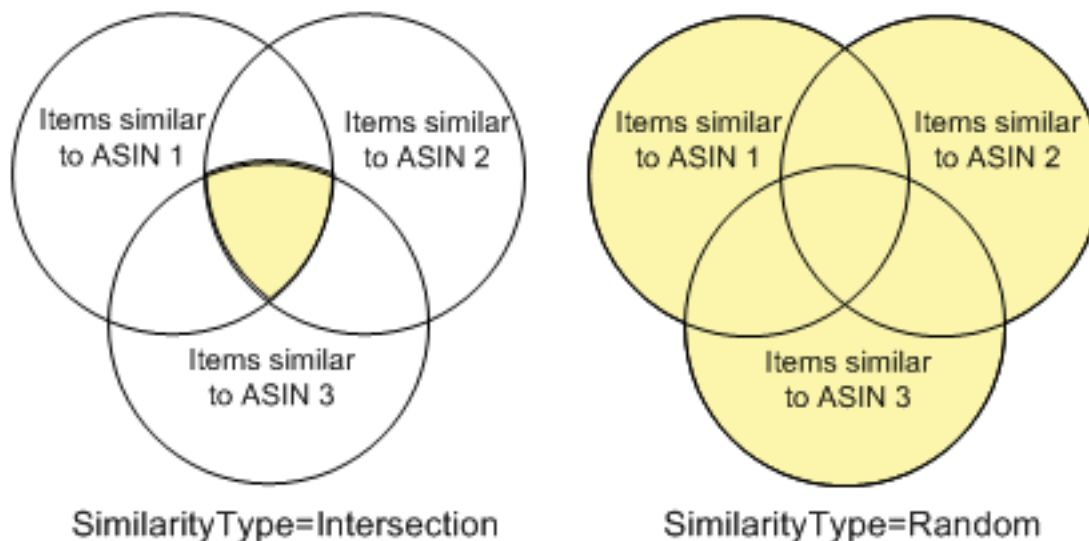
The second value is called Random because the similar items returned are a random pick of all similar items found. The operation can only return up to ten similar items. So, it is possible, if there are more than ten similar items, that identical `SimilarityLookup` requests can return different lists of similar items. It is also possible for the operation to return no similar items. This response is returned as an error message, for example:

```
<Error>
  <Code>AWS.ECommerceService.NoSimilarities</Code>
  <Message>There are no similar items for this ASIN: B000B776KY.
  </Message>
</Error>
```

An empty result is even more likely when the *SimilarityType* value is "Intersection."

Filtering Similar Items

The `SimilarityLookup` operation enables you to restrict the items returned by:

- **Condition—**You can specify that you only want similar items that are of a specified condition, such as New, Used, Refurbished, or Collectible.
  The default value is New. To return items in all conditions, use the value, "All."
- **MerchantId—**You can specify that you only want similar items sold by a specified merchant.
  The default value is Amazon. To return items sold by all merchants, use the value, "All."

All of these parameters are optional in `SimilarityLookup` requests.

Similar Versions of the Same Item

Some items come in a variety of media formats. For example, a book might come in hardback, paperback, audio cassette, audio CD, and DVD. A person buying an item in one format might be interested in the same item presented in a different format. To return all of the media formats of a single item, Amazon Associates Web Service provides the AlternateVersions response group. The catch is, the response group only works with items in the Books or ForeignBooks product categories. That means, for `ItemSearch` and `ItemLookup`, the search index must be Books or, in non-US locales, ForeignBooks, and, for `ItemLookup`, the specified item must be a book or foreign book.

```
http://ecs.amazonaws.com/onca/xml?
```

```
Service=AWSECommerceService&
Operation=ItemSearch&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateTag=ws&
SearchIndex=Books&
Keywords=potter&
MerchantId=All&
ResponseGroup=AlternateVersions&
Version=2006-06-28
```

This request returns books and media in other formats that contain "potter" in their title or product description, as shown in the following snippet of the response:

```
<AlternateVersions>
  <AlternateVersion>
    <ASIN>030728364X</ASIN>
    <Title>Harry Potter and the Half-Blood Prince (Book 6)
    </Title>
    <Binding>Audio Cassette</Binding>
  </AlternateVersion>
  <AlternateVersion>
    <ASIN>0307283658</ASIN>
    <Title>Harry Potter and the Half-Blood Prince (Book 6)
    </Title>
    <Binding>Audio CD</Binding>
  </AlternateVersion>
</AlternateVersions>
```

This response shows that the book, *Harry Potter and the Half-Blood Prince*, is available on audio cassette and CD.

Related Items

You can return a list of related items using the RelatedItems response group in an ItemLookup request. When you do, you are required to use, in the same request, the RelationshipType parameter, which specifies the relationship between the related items, as shown in the following section. If you have more than ten related items, you use the RelatedItemsPage parameter to return a set of ten related items. A value of 2, for example, returns the second set of ten related items

Relationship Types

When an `ItemLookup` request uses the `RelatedItems` response group, the `RelationshipType` parameter is required. This parameter specifies the means by which items are related to the one specified in the `ItemLookup` request (by the `ItemId` parameter). The following list specifies all of the valid values for `RelationshipType`.

RelationshipType	Description
AuthorityTitle	Links a non-buyable ASIN TitleAuthority parent with its buyable children. A book might have a single TitleAuthority ASIN that relates to a list of children ASINs for different formats of the same book (hardback, paperback, audio book, kindle). MP3 albums have the same AuthorityTitle parent as its physical CD counterpart.
DigitalMusicArranger	Non-buyable child of both MP3 albums and tracks.
DigitalMusicComposer	Non-buyable child of both MP3 albums and tracks.

RelationshipType	Description
DigitalMusicConductor	Non-buyable child of both MP3 albums and tracks.
DigitalMusicEnsemble	Non-buyable child of both MP3 albums and tracks.
DigitalMusicLyricist	Non-buyable child of both MP3 albums and tracks.
DigitalMusicPerformer	Non-buyable child of both MP3 albums and tracks.
DigitalMusicPrimaryArtist	Non-buyable child of both MP3 albums and tracks. This is the relation ship that show all MP3 downloads for a single artist on amazon.com.
DigitalMusicProducer	Non-buyable child of both MP3 albums and tracks.
DigitalMusicRemixer	Non-buyable child of both MP3 albums and tracks.
DigitalMusicSongWriter	Non-buyable child of both MP3 albums and tracks.
Episode	Relates an Unbox Season (parent) to Episodes (children) from that season. Note this is the same relationship as Tracks and can be used interchangeably.
Season	Relates an Unbox Series (parent) to its Seasons (children).
Tracks	Relates an MP3 Album (parent) to its Tracks (children). Note this is the same relationship as Episode and can be used interchangeably.

Hierarchy of Relationship Types

The RelationshipTypes values are hierarchically arranged. The following set of images show the hierarchies for MP3Downloads, UnboxVideo, and KindleStore items.In these images, the circles represent relationship types and the bell shaped figure represent items.

The following illustration shows the MP3Downloads hierarchy.
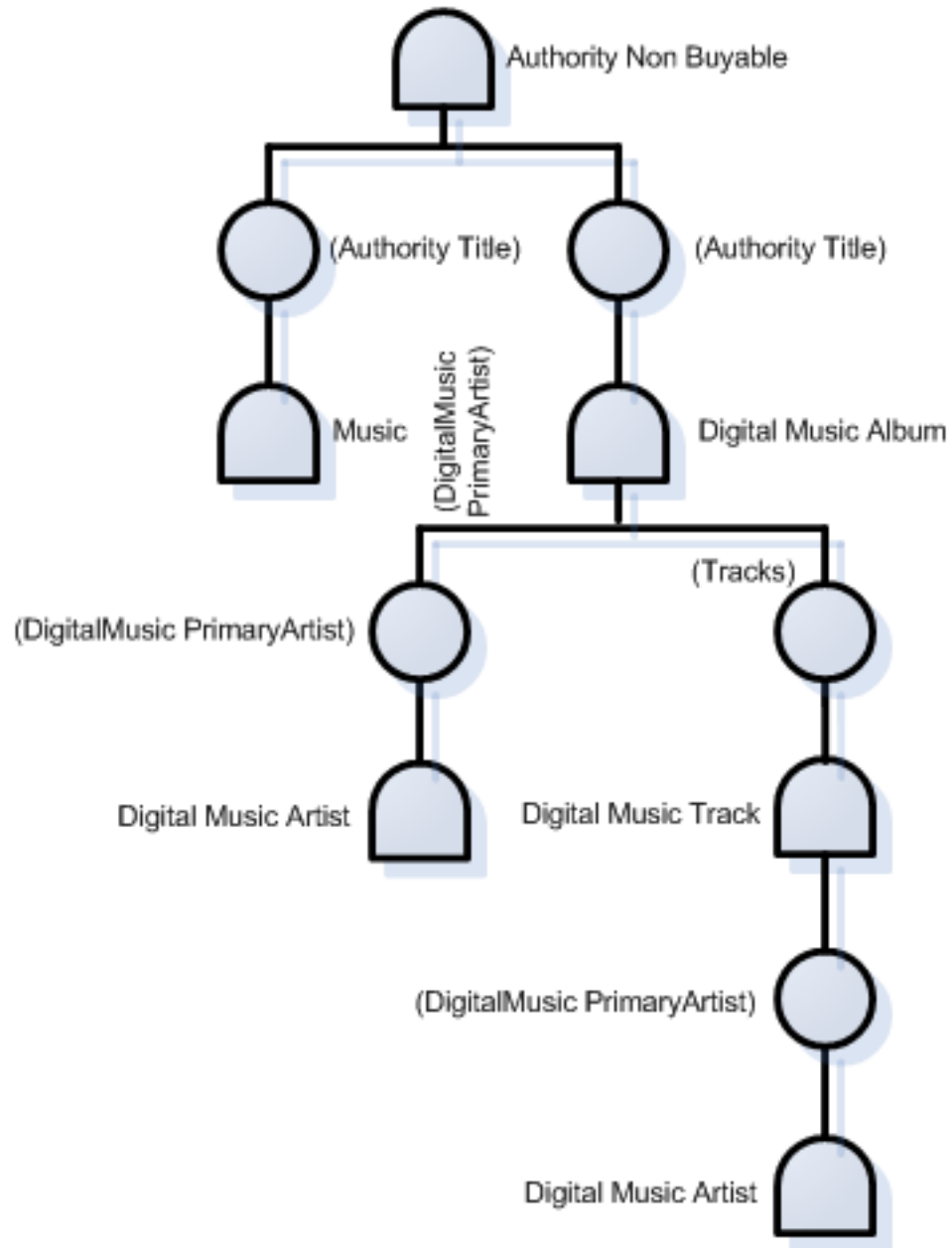
The following illustration shows the UnboxVideo hierarchy.
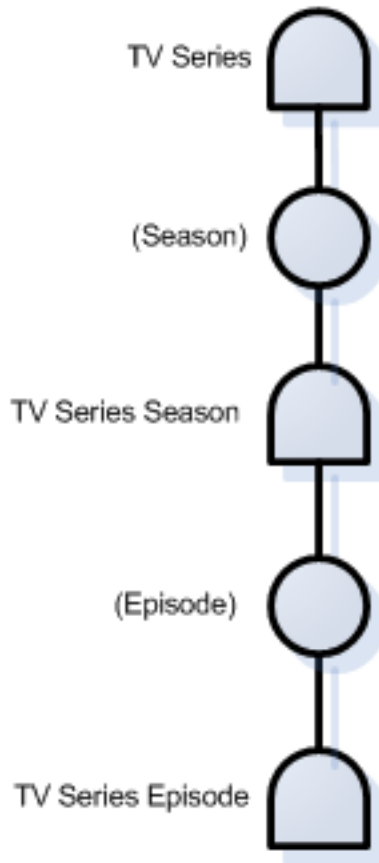
The following illustration shows the KindleStore hierarchy.
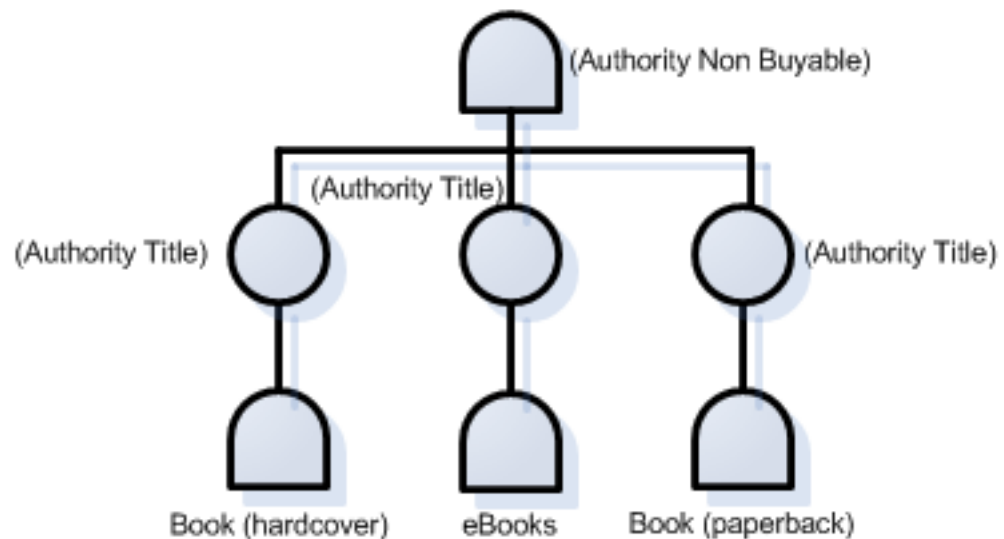
AuthorityTitle is similar to a variation parent in that it is an organizational tool (a container) rather than a real item that you can purchase. They do not have detail pages.

Recommending Other Items Sold by the Same Seller

Customers sometimes become attached to the items sold by one seller. When a customer has bought one item from the seller, you might suggest other items the seller has for sale. You can make such suggestions using the `SellerListingSearch` operation.

The `SellerListingSearch` operation takes a seller ID and returns, potentially, all of the items offered by a seller.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=SellerListingSearch&
SellerId=[A Seller ID]&
Keywords=[A word]&
Sort=+price&
OfferStatus=Open
```

This request returns all of the seller's available items that match the keyword. The items are sorted from cheapest to the most expensive. Part of the response includes the following.

```
<SellerListing>
  <ExchangeId>Y01Y1679802Y5496404</ExchangeId>
  <ListingId>0829W011414</ListingId>
  <Title>Incredible Journey,Quad Movie Poster, 40" x   30",1963</Title>
  <Price>
    <Amount>1975</Amount>
    <CurrencyCode>USD</CurrencyCode>
    <FormattedPrice>$19.75</FormattedPrice>
  </Price>
  <StartDate>2004-08-29</StartDate>
  <EndDate>2007-08-14</EndDate>
  <Status>Open</Status>
  <Quantity>1</Quantity>
  <QuantityAllocated>0</QuantityAllocated>
  <Availability>Usually ships within 1-2 business days</Availability>
  <FeaturedCategory>301787</FeaturedCategory>
  <Seller>
    <SellerId>A1ZKKOH0E9LH0B</SellerId>
    <Nickname>nostalgia_dot_com</Nickname>
  </Seller>
</SellerListing>
```

The response shows that the movie poster for *Incredible Journey* is available for $19.75 from the seller specified in the request..

Recommending Items To Others

The Small response group, and its parent response groups, return a Tell Your Friend link that looks similar to the following:

```
ht
tp://www.amazon.com/gp/pdp/taf/B000IHL51S%3FSubscriptionId%3D1C36YNE9WHA6T34A
DPR2%26tag%3Dws%26linkCode%3Dxm2%26camp%3D2025%26creative%3D386001%26creative
ASIN%3DB000IHL51S
```

This link brings up an email so the customer can easily email a friend about the item.

Top Sellers

Topics

Top selling items, by definition, are enjoyed by many people. Items labeled top sellers often spark a customer's interest.

You can use the `BrowseNodeLookup` operation with the `TopSellers` response group to return the top sellers in a browse node. For example, the following request returns the top sellers in browse node 20.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=BrowseNodeLookup&
BrowseNodeId=20&
ResponseGroup=TopSellers
```

The following response snippet includes the name and ASIN of the two top selling items in browse node 20.

```
<TopSeller>
  <ASIN>0446578622</ASIN>
  <Title>The Notebook Girls</Title>
</TopSeller>
<TopSeller>
  <ASIN>1400062586</ASIN>
  <Title>You're Wearing That? : Understanding Mothers and Daughters in Con
versation</Title>
</TopSeller>
```

You might wonder where you can get the browse node ID of an item so that you can find the top sellers in the browse node. The easiest way to return browse node IDs is to use the `BrowseNodes` response group with `ItemLookup`, `ItemSearch`, `ListLookup`, or `SimilarityLookup`, for example:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemLookup&
ItemId=B00008OE6I&
ResponseGroup=Browsenodes
```

The following is a small portion of the full response.

```
<Item>
  <ASIN>B000002ADT</ASIN>n
  <BrowseNodes>
    <BrowseNode>
      <BrowseNodeId>63926</BrowseNodeId>
      <Name>General</Name>
```

This response provides the browse node ID and name with which the ASIN, B000002ADT, is associated.

Alternately, you can look in the Amazon Associates Web Service API Developer Guide for a list of the top level browse node IDs.

Generalizing the Top Seller

Sometimes you might like to return the best sellers in the root browse node. For example, if a customer is buying a camera, you might assume that the person is interested other electronic items. In this case, you use the `BrowseNodeLookup` operation. Its default response group is `BrowseNodes`. For example,

the following request searches for DVD comedies.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=BrowseNodeLookup&
BrowseNodeId=163357
```

The response, part of which follows, includes the browse node IDs of the specified browse node's parent and child browse nodes.

```
<BrowseNode>
  <BrowseNodeId>163357</BrowseNodeId>
  <Name>Comedy</Name>
  <Children>
    <BrowseNode>
      <BrowseNodeId>599826</BrowseNodeId>
      <Name>Boxed Sets</Name>
    </BrowseNode>
  ...
<Item>
  <Ancestors>
  <BrowseNode>
    <BrowseNodeId>549726</BrowseNodeId>
    <Name>Performing Arts</Name>
    <Ancestors>
      <BrowseNode>
        <BrowseNodeId>5</BrowseNodeId>
    <Name>Entertainment</Name>
    <Ancestors>
      <BrowseNode>
        <BrowseNodeId>2000</BrowseNodeId>
        <Name>Subjects</Name>
        <Ancestors>
          <BrowseNode>
            <BrowseNodeId>1000</BrowseNodeId>
            <Name>Books</Name>
```

This response shows one of the browse node's children. More important to this discussion, however, is the browse node ancestry that is returned. The further down the response that you read, the higher up you go in the browse node hierarchy. The eldest ancestor of the browse node ID, 163357, which is in the request is browse node ID 1000, Books.

Now that you have the browse node ID of the root product category, you can use the `BrowseNodeLookup` operation again, this time with the `TopSellers` response group to return the top sellers in the root browse node category.

> ☞ **Note**
>
> `BrowseNodeLookup` only returns one ancestor of a browse node even if a node has multiple ancestors. Which ancestor is returned is not predictable. This limitation of the operation typically is of little consequence in this use case. Any root browse node ID returned by the operation is always relevant to the browse node ID in the request.

Getting Top Sellers From the Shopping Cart

It is assumed that any item that a customer adds to their shopping cart is of interest to them. For that reason, Amazon Associates Web Service provides the CartTopSellers response group that returns the ASINs and titles of the top five, best sellers in the root category of the item specified in the cart operation. For example, when adding a television to a cart, the five top sellers in the root category,

electronics, are returned, for example, the top selling computers, MP3 players, or digital cameras.

The CartTopSellers response group can be used with most cart operations, for example:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateId=ws&
Operation=CartCreate&
Item.1.ASIN=B000062TU1&
MergeCart=True&
Item.1.Quantity=2&
ResponseGroup=CartTopSellers
```

The following is a snippet of the response:

```
<TopSellers>
  <TopSeller>
    <ASIN>B00005JOFQ</ASIN>
    <Title>Brokeback Mountain (Widescreen Edition)</Title>
  </TopSeller>
  <TopSeller>
    <ASIN>B000E6EK3S</ASIN>
    <Title>Harry Potter and the Goblet of Fire (Widescreen Two-Disc Deluxe
Edition)(Harry Potter 4)</Title>
  </TopSeller>
</TopSellers>
```

This response shows that there are two top sellers associated with the root product category of the item that was added to the shopping cart.

New Releases

Whether it's the release of a new book or a new DVD, new releases are always popular with customers. Amazon Associates Web Service enables you to take advantage of that motivator with two response groups, NewReleases and CartNewReleases.

The NewReleases response group returns the ASIN and title of newly released items in a specified browse node. This response group works only in BrowseNodeLookup requests, for example:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=BrowseNodeLookup&
BrowseNodeId=4229&
ResponseGroup=NewReleases
```

The response includes the new releases associated with browse node 4229.

```
<NewReleases>
  <NewRelease>
    <ASIN>0446578622</ASIN>
    <Title>The Notebook Girls</Title>
  </NewRelease>
</NewReleases>
```

To find the browse node ID of an item, use the BrowseNodes response group.

Returning New Releases From Shopping Cart Items

A great way to spur add-on sales is by presenting customers with newly released items that are similar to

items in their shopping cart. The CartNewReleases response group enables you to do this. This response group works with most cart operations.

The CartNewReleases response group returns the ASINs and titles of the top five new releases in the root category of the item specified in the cart operation. For example, when adding a television to a cart the top five new releases in the root category, electronics, are returned.

In the following request, an item is added twice to a newly-created shopping cart.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateId=ws&
Operation=CartCreate&
Item.1.ASIN=B000062TU1&
MergeCart=True&
Item.1.Quantity=2&
ResponseGroup=CartNewReleases
```

The response includes a new release from the root product category.

```
<NewReleases>
  <NewRelease>
    <ASIN>B00005JOFQ</ASIN>
    <Title>Brokeback Mountain (Widescreen Edition)</Title>
  </NewRelease>
</NewReleases>
```

Sorting by Popularity, Price, or Condition

The order in which you present the items returned is important to your customers. Often, they would like to know things, such as, what item is the least expensive, which is the most popular, which items are collectibles? Amazon Associates Web Service provides this functionality using the Sort parameter in ItemSearch, ListLookup, and SellerListingSearch requests.

The valid values for the Sort parameter in ListLookup and SellerListingSearch requests are limited but the same in all locales. Valid values for the Sort parameter in ItemSearch requests, however, vary by locale and search index. For a complete list of valid values, see ItemSearch Sort Values By Locale.

Some of the most common ItemSearch Sort parameter values are described in the following table.

Sort Parameter	Description
pricerank, price, +price	Order items according to price from cheapest to the most expensive. The three versions of this value are equivalent in meaning but are valid in different search indices.
inversepricerank, -price	Order items according to price from the most expensive to the cheapest. The two versions of this value are equivalent in meaning but are valid in different search indices.
salesrank	Order items according to how well they've sold, from best to worst sellers.
relevancerank	Order items according to how often the keyword appears in the product description, where the keyword appears (for example, the ranking is higher when keywords are found in titles), if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.

Sort Parameter	Description
reviewrank	Order items according to how highly rated the item was reviewed by customers where the highest ranked items are listed first and the lowest ranked items are listed last.

For example, the following request returns a list of toy rockets sorted from the cheapest to the most expensive.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
Keywords=Rocket&
SearchIndex=Toys&
Sort=price&
ResponseGroup=Offers&
ItemPage=241
```

The following is a snippet of the response.

```
<Item>
  <ASIN>B000BOWQWA</ASIN>
  <OfferSummary>
    <LowestNewPrice>
      <Amount>210</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$2.10</FormattedPrice>
    </LowestNewPrice>
    <TotalNew>3</TotalNew>
    <TotalUsed>0</TotalUsed>
    <TotalCollectible>0</TotalCollectible>
    <TotalRefurbished>0</TotalRefurbished>
  </OfferSummary>
</Item>
<Item>
  <ASIN>B0006N6MGW</ASIN>
  <OfferSummary>
    <LowestNewPrice>
      <Amount>211</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$2.11</FormattedPrice>
    </LowestNewPrice>
  <TotalNew>2</TotalNew>
  <TotalUsed>0</TotalUsed>
  <TotalCollectible>0</TotalCollectible>
  <TotalRefurbished>0</TotalRefurbished>
  </OfferSummary>
</Item>
```

This response lists two different items (toy rockets), which are ordered by price. The same ASIN can be offered for sale by multiple merchants and sellers. The Offers response group provides a summary of the lowest price per condition. For example, the first item, B000BOWQWA, listed in the response is being sold as "New" by three sellers (<TotalNew>3</TotalNew>). The lowest price of this item in New condition is $2.10. No one is selling this item in Used, Collectible, or Refurbished condition.

All other Sort parameter values work in a similar way.

Suggesting Items on a Customer's Wish List

If a customer buys one list item for a friend, the customer might be interested in other list items that the friend has specified. Amazon Associates Web Service offers access to four types of lists, including

WishLists, Listmania, WeddingRegistry, and BabyRegistry. When a customer purchases an item from one list, you might display all of the items on the friend's lists.

To Find a Customer's List

1. Find the list ID.

   Supplying a customer name or e-mail address in a `ListSearch` request returns the customer's list IDs.

2. Use one of the list IDs in a `ListLookup` request.

   This operation returns the items in the specified list.

For example, to look up the lists created by a fictional person named John Smith, you would use the following request.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[Access Key ID]&
Operation=ListSearch&
ListType=WishList&
Name=John%20Smith
```

Notice that the space between the first and last name is URL-encoded with %20.

The following snippet from the response shows one of the lists that John Smith created.

```
<List>
  <ListId>ZZ6666662H77</ListId>
  <ListURL>http://www.amazon.com/gp/registry/ZZ6666662H77
  </ListURL>
  <ListType>WishList</ListType>
  <TotalItems>51</TotalItems>
  <TotalPages>6</TotalPages>
  <DateCreated>2002-10-02</DateCreated>
  <CustomerName>
```

This response shows that John Smith's wish list has 51 items on it. It would take 6 pages to return all of the items because there are up to twenty items per page. You can use the value for <TotalPages> to repeat the request with a different ListPage value until all 6 pages are returned.

The response also shows that you can display the wish list using the URL specified by ListURL.

Now that you have John's wish list ID, you can use the following request to return the items on the wish list.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ListLookup&
ListType=WishList&
ListId=ZZ6666662H77&
ResponseGroup=ListFull
```

The following response snippet lists two of the items on John's wish list.

```
<ListItem>
  <ListItemId>IOWNUUPH86VRC</ListItemId>
  <DateAdded>2002-01-27</DateAdded>
  <QuantityDesired>1</QuantityDesired>
  <QuantityReceived>0</QuantityReceived>
  <Item>
```

```
    <ASIN>1890966533</ASIN>
    <ItemAttributes>
      <Title>Safety Incentives: The Pros and Cons of Award and Recognition
Programs (Osha Compliance)</Title>
    </ItemAttributes>
  </Item>
</ListItem>
<ListItem>
  <ListItemId>I1JY2MH4BGECYR</ListItemId>
  <DateAdded>2002-01-27</DateAdded>
  <QuantityDesired>1</QuantityDesired>
  <QuantityReceived>0</QuantityReceived>
  <Item>
    <ASIN>0963229613</ASIN>
    <ItemAttributes>
      <Title>Confined Space Program: A Complete Compliance Program (Osha Com
pliance)
      </Title>
    </ItemAttributes>
  </Item>
</ListItem>
```

There is enough information returned by the `ListFull` response group to suggest that a customer purchase additional wish list items. If you want to add more information, such as an image, about one of the wish list items, submit an `ItemLookup` request using the ASIN of the wish list item.

To add items to a wishlist, go to Adding Items to Lists

Shipping Options

Shipping options are generally spelled out in child elements of the OfferListing element. Those child elements include IsEligibleForPrime and IsEligibleForSuperSaverShipping. These boolean values specify whether an item is eligible for prime or super saver shipping, respectively. You cannot set these values; you can only use their values.

Returning Price and Availability Information

Topics
- Returning Prices
- Determining Availability

Previous chapters have shown how to find items and how to suggest additional items that a customer might find interesting. Returning price and availability information is important for the customer.

Returning price and availability information is explained in the following sections.

Returning Prices

Topics
- Offer Summaries
- Returning All Offers
- Returning More Information About the Offer
- Providing Price Ranges for Product Categories
- Items That Do Not Have Offers
- Determining Parent Items
- Returning Offers From Item Variations

- Variation Dimensions

Items for sale on Amazon can be sold by more than one seller or merchant. For example, the same camera might be sold by three different merchants or sellers. The following figure from Amazon's retail web site shows an example in which two merchants are selling the same book.

Notice that the merchants are selling the same book for different prices. In other examples, the same item might be offered in multiple conditions, such as New and Used.

Any item being sold is associated with an offer. An offer is a combination of price, condition, and vendor. For example, one offer might be Amazon selling the new book for $11.67. Therefore, to find an item's price, you return the offers made by the vendors selling the item.

Offer information is made available by the OfferSummary, Offers, and OfferFull response groups, which can be part of `ItemLookup`, `ItemSearch`, `ListLookup`, and `SimilarityLookup` requests.

☞ **Note**

Sometimes, instead of a price, the string is returned, "Too Low to Display." This sometimes happens even though the price might be available on Amazon's retail web site. In these cases, the only way to see the actual price is to add the item to a remote shopping cart.

Topics

- Offer Summaries
- Returning All Offers
- Returning More Information About the Offer
- Providing Price Ranges for Product Categories
- Items That Do Not Have Offers
- Determining Parent Items
- Returning Offers From Item Variations
- Variation Dimensions

Offer Summaries

The OfferSummary response group returns summary information about offers, including:

- Total number of offers per condition
- Lowest price per condition

For example, the following response snippet shows the lowest prices for an item in New and Used condition.

```
<OfferSummary>
  <LowestNewPrice>
    <Amount>801</Amount>
    <CurrencyCode>USD</CurrencyCode>
    <FormattedPrice>$8.01</FormattedPrice>
  </LowestNewPrice>
  <LowestUsedPrice>
    <Amount>799</Amount>
    <CurrencyCode>USD</CurrencyCode>
    <FormattedPrice>$7.99</FormattedPrice>
  </LowestUsedPrice>
  <TotalNew>45</TotalNew>
  <TotalUsed>20</TotalUsed>
  <TotalCollectible>0</TotalCollectible>
  <TotalRefurbished>0</TotalRefurbished>
</OfferSummary>
```

Returning All Offers

Amazon returns offers for new and used items. The Small response group, and all of its parent response groups, return a link that displays all new and used offers for the item in the response. The link is similar to the following.

```
ht
tp://www.amazon.com/gp/offer-listing/B000IHL51S%3FSubscriptionId%3D1C36YNE9WH
A6T34ADPR2%26tag%3Dws%26linkCode%3Dxm2%26camp%3D2025%26creative%3D386001%26cr
eativeASIN%3DB000IHL51S
```

Returning More Information About the Offer

Perhaps you want to display more than just the cheapest offer of an item in each condition. Perhaps you want to display the seller that is making the offer so that you can give the customer the opportunity of reading customer reviews of the seller (using `SellerLookup`) or finding out the seller's location. In this case, you would use the Offers response group.

The following response snippet shows the data included for a single offer.

```
<Offer>
  <Seller>
    <SellerId>A34JK8GKGOEZRO</SellerId>
    <AverageFeedbackRating>4.2</AverageFeedbackRating>
    <TotalFeedback>40</TotalFeedback>
  <GlancePage>
  http://www.amazon.com/gp/help/seller/home.html?seller=ATVPDKIKX0D
ER
  </GlancePage>
  </Seller>
  <OfferAttributes>
    <Condition>Used</Condition><SubCondition>good</SubCondition>
    <ConditionNote>Attention! Please read before placing the order. Canon
PowerShot SD450 5MP digital camera. This purchase is only for the camera it
```

```
self and owner's manual and usb cable only. No other accessory will be in
cluded. Camera is in perfect working condition and has some minor scratches
on the covers. Ships via Priority Mail w/Tracking Number and insurance.
    </ConditionNote>
  </OfferAttributes>
  <OfferListing>
<OfferListingId>f0ctUVF4LATNxeVdXAj5g0j3UbEE%2B1gm%2Fy3ZNjJ%2BrxgGUqPn%2FNy%2
BqBcVFoVLQWAug
wljO5Zt9zqm865o%2BTk3zGIGDF5oWogFW7frgBq77QgTs%2Baxm%2B2gLQ%3D%3D
    </OfferListingId>
    <ExchangeId>Y01Y3638197Y4938485</ExchangeId>
    <Price>
      <Amount>21995</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$219.95</FormattedPrice>
    </Price>
    <Availability>Usually ships in 1 2 business days
    </Availability>
    <IsEligibleForSuperSaverShipping>0
    </IsEligibleForSuperSaverShipping>
  </OfferListing>
</Offer>
```

You can use the seller ID returned in this response in a `SellerLookup` request to retrieve customer feedback about the vendor selling the item. Also included is the vendor's Glance Page, which is a URL that gives extended information about a vendor, and how soon an item can be shipped.

☞ **Note**

Amazon does not have a Glance Page.

If you want more information about the vendor than is included in the Offers response group, use the OfferFull response group. That response group adds to the Offers response the:

- Merchant's name
- Merchant's nickname
- Merchant's state
- Merchant's country

Providing Price Ranges for Product Categories

You can use the SearchBins response group to return the price ranges of items for sale in a specified product category.. The following response to an ItemSearch request shows how the SearchBins response group can provide price ranges.

```
<SearchBinSets>
  <SearchBinSet NarrowBy="PriceRange">
  <Bin>
    <BinName>$25-$49</BinName>
    <BinItemCount>316</BinItemCount>
    <BinParameter>
      <Name>MinimumPrice</Name>
      <Value>2500</Value>
    </BinParameter>
    <BinParameter>
      <Name>MaximumPrice</Name>
      <Value>4999</Value>
    </BinParameter>
```

```
    </Bin>
</SearchBinSet>
<Bin>
  <BinName>$0-$24</BinName>
  <BinItemCount>280</BinItemCount>
  <BinParameter>
    <Name>MinimumPrice</Name>
    <Value>0</Value>
  </BinParameter>
  <BinParameter>
    <Name>MaximumPrice</Name>
    <Value>2499</Value>
  </BinParameter>
</Bin>
</SearchBinSet>
```

This response shows that there are 316 items in this product category that cost between $25 and $49 and 280 items that cost between $0 and $24.

Knowing what price ranges are available for a product category enables you to use the `MaximumPrice` and `MinimumPrice` parameters in a second `ItemSearch` request to retrieve items only in the specified price range. Using one of the offer response groups in the same request enables you to display the prices of the items in a specified price range.

Items That Do Not Have Offers

There are two kinds of items returned by Amazon Associates Web Service:

- Regular items
- Parent items

A parent item is an abstraction of a collection of items. For example, shirt is a parent item. A shirt that is a specific size and color would be a child of the parent item, which is called a regular item. Each regular item has an item identifier, such as an ASIN. That means that a red, large shirt would have a different ASIN from the same shirt that is blue and size large. The child items are also called variations.

Because a parent item is an abstraction, it cannot be sold so it does not have an *OfferListingId*.

Determining Parent Items

How do you determine if the item returned in a response is a parent item? If you use either the Variations or VariationSummary response groups in a request, the responses will include a VariationSummary tag if the item is a parent item.

Secondly, if you use one of the offer response groups, parent items do not have offers. So, the summary would be as follows.

```
<OfferSummary>
  <LowestNewPrice>
    <Amount>0</Amount>
    <CurrencyCode>USD</CurrencyCode>
    <FormattedPrice>$0.00</FormattedPrice>
  </LowestNewPrice>
  <TotalNew>0</TotalNew> <TotalUsed>0</TotalUsed>
<TotalCollectible>0</TotalCollectible> <TotalRefurbished>0</TotalRefurbished>
</OfferSummary>
```

Returning Offers From Item Variations

The Book, Music, Video, and DVD search indexes have very few parent items. The Apparel, Jewelry,

and SportingGoods search indexes have many parent items and variations.

If a parent item is returned in a response, it will not have an offer. Instead, you must find the offers associated with the variations of the parent item. You do this by adding the Variations response group to the request, as follows.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=1MEXAMPLEZBG2&
Operation=ItemSearch&
Keywords=Ralph%20Lauren&
SearchIndex=Apparel&
Sort=pricerank&
ResponseGroup=Offers,Variations&
MerchantId=All&
Availability=Available&
Condition=All
```

The Variations and Offers response groups returns the first ten variations of the parent item and their offers, which is shown in the following response snippet:

```
<Variations>
  <TotalVariations>6</TotalVariations>
  <TotalVariationPages>1</TotalVariationPages>
  <Item>
  <ASIN>B000FG8I6W</ASIN>
  <ItemAttributes>
    <Binding>Apparel</Binding>
    <Brand>Polo Ralph Lauren</Brand>
    <ClothingSize>10 - 13</ClothingSize>
    <Color>Beige Heather</Color>
    <Department>mens</Department>
    ...
  </ItemAttributes>
  <Offers>
    <Offer>
      <Merchant>
      <MerchantId>A1T5FLMGQ4PRAI</MerchantId>
      <Name>Polo.com</Name>
      </Merchant>
      <OfferAttributes>
        <Condition>New</Condition>
          <SubCondition>new</SubCondition>
      </OfferAttributes>
      <OfferListing>
<OfferListingId>WjQ49eW5WwGDJ4Ga6u06Il56YzTQKzVh0G2ag0k9vZtbjcojcnUwkkbogxg6d
zeD
mu9alzXSn04nz0DvdnZT8gqeiRSRRx2shyER2SDHWREJthdUmXvDYO%2Bf0z%2FOdpye</OfferLi
stingId>
      <ExchangeId>Y11M5192166M4119841</ExchangeId>
      <Price>
        <Amount>1400</Amount>
        <CurrencyCode>USD</CurrencyCode>
        <FormattedPrice>$14.00</FormattedPrice>
      </Price>
      <SalePrice>
        <Amount>560</Amount>
        <CurrencyCode>USD</CurrencyCode>
        <FormattedPrice>$5.60</FormattedPrice>
      </SalePrice>
      <Availability>Usually ships in 1-2 business days</Availability>
    </OfferListing>
</Offer>
</Offers>
```

Variation Dimensions

A variation is a child ASIN. The parent ASIN is an abstraction of the children items. For example, Shirt is a parent ASIN. Parent ASINs cannot be sold. A child ASIN of it would be a blue shirt, size 16, sold by MyApparelStore. This child ASIN is one of potentially many variations. The ways in which variations differ are called dimensions.

In the preceding example, size and color are the dimensions. Parent ASINs therefore return two related elements:

• VariationDimensions
• VariationDimension

The following response snippet shows these elements.

```
<VariationDimensions>
  <VariationDimension>ClothingSize</VariationDimension>
  <VariationDimension>Color</VariationDimension>
</VariationDimensions>
```

The values returned by these elements are the dimensions listed in the child ASIN's response, for example:

```
<Item>
  ...
  <ItemAttributes>
    ...
    <ClothingSize>Large</ClothingSize>
    <Color>Black</Color>
    ...
  </ItemAttributes>
  ...
</Item>
```

Determining Availability

Topics
- Availability Values
- Checking for an Offer Listing ID
- Using the ItemSearch Availability Parameter
- Determining the Availability of Items Sold by Sellers

Only items that are available can be put into the active area of a remote shopping cart. Unavailable items can be put in the SaveForLater area of the cart.

Amazon defines available items as those that are:

• Currently for sale
• Pre-release orders, such as buying a Harry Potter book before it is released
• Special orders
•
  e-mail me when the items become available

The availability of an item can change without notice. Putting an item in a cart does not reserve it. Items in carts can become unavailable and their prices can change as soon as the item goes into the cart.

Determining if an item is available is determined differently for merchants and sellers.

Availability of Merchant Items

1	Check the Availability element value returned by the Offers or OfferFull response groups.
2	Make sure the item has an offer listing ID.
3	Use the Availability request parameter along with the Condition and MerchantId parameters in an `ItemSearch` request. Items might be available, for example, in one condition but not another.

With Merchants, you use one of the Offer response groups to determing item availability. Seller related operations, including `SellerListingLookup` and `SellerListingSearch`, cannot use any of the Offer response groups.

Availability of Seller iIems

1	Make sure that the quantity of items ordered in the request is less than the value for <QuantityAllocated>, which represents the number of items in stock minus the number of items already promised to other customers.
2	Make sure, in a `SellerListingLookup` request, that the value for <Status> is "open."

Availability Values

The Offer Summary Report lists the availability of an item using the Availability element. The value of the element indicates if the item can be purchased and how soon it will be shipped, for example:

```
<Availability>Usually ships in 24 hours</Availability>
```

This response, which is returned by the Offers and OfferFull response groups, confirms that an item is available to buy.

The value returned by the Availability element may not match the one on the Amazon retail web site's product detail page because typically there is a short and long version of an availability message:. Amazon Associates Web Service returns the short version. The more verbose availability message is used on the retail web site.

For non-Amazon products in JP, FR, DE, and CA; the value returned by the Availability element is "1-2 business days," or the localized equivalent, regardless of the actual availability.

The following table describes the possible Availability element values.

Message	Description
Usually ships in %X	A dynamic response where %X represents a variable amount of time.
Not yet released	The item is not available for purchase. The item may or may not have a projected release date. If there is a release date, it may show up in the ReleaseDate element of the item attributes.
Not yet published	The item is not available for purchase. The item

Message	Description
	may or may not have a projected release date. If there is a release date, it may show up in the ReleaseDate element of the item attributes.
This item is not stocked or has been discontinued.	The item is not available for purchase.
Out of Stock	The item is currently not available for purchase, but may be in the future.
Limited Availability	Used for items sold by third-parties if an item is out of stock, but may be available for purchase later.
Out of Print--Limited Availability	Customers can choose to be notified if a copy becomes available.
Special Order	Titles occasionally go out of print or publishers run out of stock. The buyer is notified if the item becomes unavailable."
This item is currently not available by this merchant	The message is sent primarily for Amazon offers that are missing an availability message.

These availability messages apply to Amazon only. Sellers might return a completely different set of availability messages.

Checking for an Offer Listing ID

An offer listing ID is an alphanumeric token that uniquely identifies an item that is sold by any merchant, including Amazon. Whereas an offer is a combination of Condition, MerchantId, and Price, an offer listing ID is similar to a price tag, one is associated with each item for sale, as shown in the following figure.

This figure shows that three vendors are selling the same item, a shirt. The vendor, labeled Offer 1, has

three shirts in stock and each has an OfferListingId.

If an item is for sale, it has an offer listing ID. This ID is returned by the Offers and OfferFull response groups, as shown in the following response snippet.

```
<OfferListing>
  <OfferListingId>[Offer Listing ID]</OfferListingId>
  <Price>
    <FormattedPrice>Too low to display</FormattedPrice>
  </Price>
  <Availability>Usually ships in 24 hours</Availability>
  <IsEligibleForSuperSaverShipping>0
  </IsEligibleForSuperSaverShipping>
</OfferListing>
```

Offers contain availability, merchant, and shipping information. If only one merchant is selling an item, the offer response groups return <SingleMerchantId>.

```
<SingleMerchantId>A304U57TAC62SV</SingleMerchantId>
```

Using the OfferSummary Response Group

The OfferSummary response group returns, in part, the total number of items available in each condition, for example:

```
<Item>
  <ASIN>B000BWFJQ2</ASIN>
  <OfferSummary>
    <LowestNewPrice>
      <Amount>295</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$2.95</FormattedPrice>
    </LowestNewPrice>
    <TotalNew>1</TotalNew> <TotalUsed>0</TotalUsed>
<TotalCollectible>0</TotalCollectible> <TotalRefurbished>0</TotalRefurbished>
  </OfferSummary>
```

This response shows that only one of the specified items, B000BWFJQ2, is available and it is only available in "New" condition.

Using the ItemSearch Availability Parameter

The `ItemSearch` *Availability* parameter enables you to search only for items that are available. The only valid value for Availability is "Available," as shown in the next example.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
MerchantId=All&
Condition=All&
Availability=Available&
SearchIndex=Apparel&
Keywords=Shirt
```

Items can become unavailable quickly. Even though this parameter filters out unavailable items, checking that an item has an *OfferListingId* is still recommended.

Determining the Availability of Items Sold by Sellers

`SellerListingLookup` and `SellerListingSearch` cannot use any of the offer response groups. So, the following techniques are used to determine the availability of items sold by sellers:

- Set the `SellerListingSearch` parameter, *OfferStatus* to "Open."
- Confirm that the value for the Status element for an item in the response is "Open."
- Confirm that the value for the QuantityAllocated element is less than the value for Quantity, which is the number of those items in stock. The QuantityAllocated element specifies the number of items that are reserved for other customers.

The `SellerListingSearch` parameter, *OfferStatus*, has two valid values, "Open," the default, and "Closed." The "Open" value restricts the items returned to those that are available. The "Closed" value returns items that are currently unavailable.

The SellerListing response group, which is one of the default response groups for `SellerListingLookup` and `SellerListingSearch`, returns the element Status. If the value of it is "Open," the item is available.

Part of the values returned by the SellerListing response group includes values for Quantity and Allocated, as shown in the following example.

```
<SellerListing>
  <ExchangeId>Y01Y1679802Y5496404</ExchangeId>
  <ListingId>0829W011414</ListingId>
  <Title>Incredible Journey,Quad Movie Poster, 40" x 30",1963</Title>
  ...
  <Status>Open</Status>
  <Quantity>1</Quantity> <QuantityAllocated>0</QuantityAllocated>
  <Availability>Usually ships within 1-2 business days
  </Availability>
  ...
</SellerListing>
```

This response shows that the seller has one (the value of Quantity) of the requested items and zero (the value of QuantityAllocated) have been reserved by others.

Working With Remote Shopping Carts

Topics
- Shopping Cart Concepts
- Remote Shopping Cart Tasks
- Add to Cart Form

Most e-commerce web sites have adopted the metaphor of the shopping cart, which is a place to save and list the items a customer wants to buy. Just like a shopping cart in a grocery store, the e-commerce shopper has the ability to change the number and kinds of items the cart contains. They might add new items to a cart, increase or decrease the quantity of an item that is already in the cart, even empty the cart of all items. Instead of physically adding and removing items from a real cart, Amazon Associates Web Service operations provide similar functionality on a virtual shopping cart, called the Amazon Associates Web Service remote shopping cart..

Once the customer has found something they want to buy, they typically click an HTML button or link called, for example, **Add To Cart** . This action adds the item(s) to their existing shopping cart. If this is the first item they have chosen to place in a shopping cart, the shopping cart itself is created.

In Amazon Associates Web Service, the shopping cart is called remote because the cart is hosted by

Amazon servers. In that sense, the shopping cart is remote to the seller's or Associate's servers where the customer is shopping..

The opposite of a remote shopping cart is a local shopping cart, which is the shopping cart customers use while shopping on www.amazon.com. It is considered local because Amazon hosts the shopping web pages as well as the shopping cart. Amazon Associates Web Service operations work solely with remote shopping carts.

The following sections describe remote shopping carts and how to work with them.

Shopping Cart Concepts

Topics

- Cart Identifiers
- Cart Limitations
- Active and SaveForLater Areas
- Items That Cannot Be Added to the Active Cart Area
- Remote Shopping Carts are Hosted by Amazon
- Merging Local and Remote Shopping Carts
- Cart Lifespan

The following sections describe remote shopping carts in detail.

Cart Identifiers

When you create a remote shopping cart using `CartCreate`, Amazon Associates Web Service returns the new cart's ID (CartId). The cart ID is also an alphanumeric token that is used to identify a cart. The cart ID and HMAC values must be used in all Amazon Associates Web Service requests related to the cart (except `CartCreate`).

Cart Limitations

A cart can contain up to 50 entries. Each entry can represent one or more (up to 999) of the same items. That means that an Amazon Associates Web Service shopping cart can contain a maximum of almost 50,000 items.

Many products have a limit on the quantity that can be added to a cart. Sometimes this is inherent to the product, for example, one-of-a-kind jewelry items. Sometimes it is a limit set by the vendor, for example, they might set a limit on big ticket items, such as a motorcycle, of one per customer. If you add an item to the cart with a quantity that exceeds the maximum allowed, `CartAdd` automatically resets the quantity to the maximum value. No error is generated. Therefore, you must verify the quantity of items in the cart with the number ordered to determine if the quantity has been capped. If so, you must notify the customer.

Active and SaveForLater Areas

Shopping carts have two distinct areas:

- **Active**—Contains the items that are ready to be purchased.
- **SavedForLaterItem**—Contains items that a customer has chosen to buy but are currently unavailable, or items that a customer has designated they want to save and buy later.

Available items placed in a shopping cart are automatically added to the Active area unless the customer specifies otherwise. Unavailable items or items in the shopping cart that become unavailable are automatically put into the SaveForLater area. When those items become available Amazon automatically moves the items to the Active area of the shopping cart.

The SaveForLater area can also be used by customers as a holding place for items they are interested in but not ready to purchase. The prices and availability for items in this area are regularly updated by Amazon.

Items That Cannot Be Added to the Active Cart Area

Amazon Associates Web Service operations sometimes return items that cannot be added to the Active cart area. The following sections explain those cases:

- Out of stock items
- Items with limited quantities
- Variation parent items
- Collection parent items

Out of Stock Items

Most items for sale are available immediately. There are times, however, when that is not true. Items can go out of stock or very popular items, such as a new Harry Potter book, are pre-sold, that is, the book is sold before the book is even published.

When a customer adds an item to their cart that is not available, it is added to the SavedForLater area. Also, if an item in the cart, for some reason, becomes unavailable, Amazon automatically moves the item in the cart to the SavedForLater items section.

It is also possible for a customer to add an item directly to the SavedForLater items area in their cart so that they can easily purchase the item at a later date.

When items become available, you can use the `CartModify` operation with the Action parameter to

move items from the SaveForLater section of the cart to the Active section, which is fully described in Moving Adding Items as Saved For Later. Or, if Amazon automatically moved an item in the Active area to the SaveForLater area because the item went out of stock, Amazon will move it back into the Active area automatically when it becomes available.

Items With Limited Quantities

Many products have a limit on the quantity that can be added to a cart. Sometimes this is inherent to the product, for example, one-of-a-kind jewelry items. Sometimes it is a limit set by the vendor, for example, they might set a limit for big ticket items of one per customer. If you add an item to the cart with a quantity that exceeds the maximum, `CartAdd` or `CartCreate` automatically resets the quantity to the maximum. No error is generated. Therefore, you must verify the quantity of items in the cart with the number ordered to determine if the quantity has been capped. If so, you must notify the customer.

Variation Parents

Variation parent items cannot be added to a cart. For example, you cannot add Apparel to a cart because it is not clear what apparel you really want to buy. You could add one of its children, however, such as a red shirt, size large. If you try to add a parent item, you get an error message similar to the following.

```
The item you specified, [ASIN], is not eligible to be added to the cart.
Check the item's availability to make sure it is available.
```

Variation parents do not have corresponding OfferListingId's.

Collection Parents

Collection parent items are abstractions of the items in the collection. The collection parent cannot be added to a cart. The Collection parent is used as a name holder for the collection. Collection parents do not have corresponding OfferListingId's.

Offers and Identifiers

ASINs and Listing IDs identify items, such as a Harry Potter book. ASINs and Listing IDs do not, however, identify sales information related to those items.
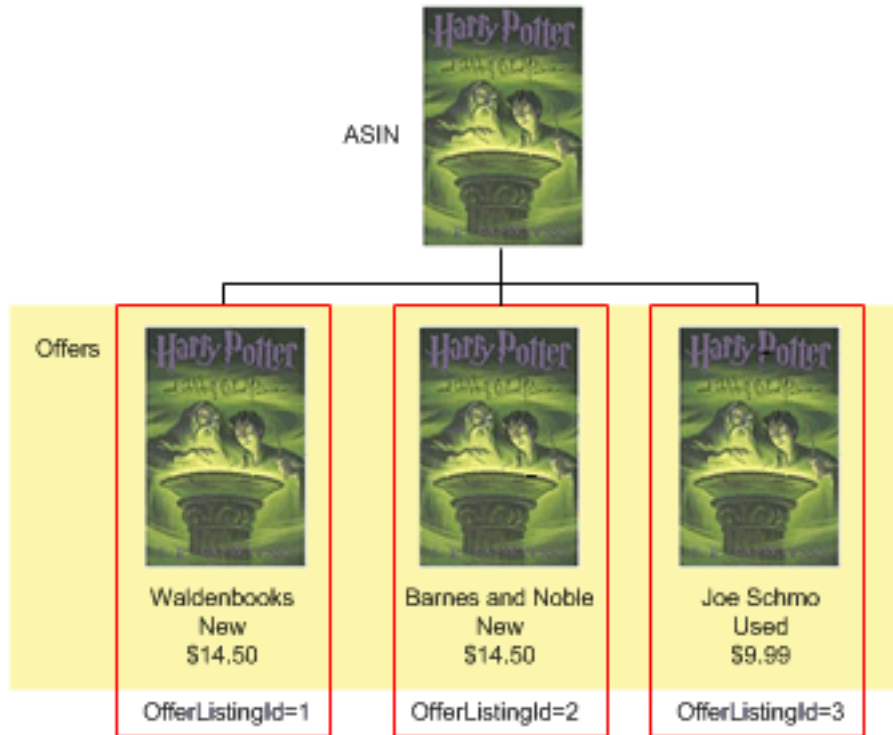
As you can see in the preceding figure, an ASIN identifies an item but not an instance of it that a customer can purchase. Every ASIN can be sold by many merchants. Each merchant lists the condition and price of the item. This combination of data represents an *OfferListingId*. Taken together, all *OfferListingIds* are referred to as offers. If an ASIN (or Listing ID) does not have an *OfferListingId* (or *ExchangeId*), the item cannot be purchased.

For this reason, it is recommended that you add items to a shopping cart by their *OfferListingId* (or *ExchangeId*) rather than by their *ASIN* (or *ListingId*).

Remote Shopping Carts are Hosted by Amazon

Although an Amazon Associates Web Service application or web site runs on your servers, Amazon Associates Web Service remote shopping carts are hosted by Amazon servers. You use Amazon Associates Web Service operations to create and modify the cart and its contents. Keeping a local copy of a shopping cart is not recommended because the price and availability of items change often and Amazon automatically updates items in shopping carts. Also, Amazon automatically updates the status of lists, such as Wishlists, when a customer buys an item on a list. Keeping a local copy of a shopping cart runs the risk of cart items getting out of sync with their real price, availability, and status.

Because Amazon Associates Web Service shopping carts are hosted by Amazon instead of a local host, the shopping carts are called "remote." The cart used by a customer shopping on the Amazon retail web site, www.amazon.com in the US locale, is considered the "local" shopping cart. Amazon maintains for each customer ID only one local shopping cart. Developers can maintain more than one remote shopping cart for a customer but maintaining one cart per customer ID is recommended.

Merging Local and Remote Shopping Carts

It is possible for a customer to have one (or more) remote shopping cart(s) per vendor and one local shopping cart that stores items customers add to their cart while shopping on www.amazon.com. When a customer decides to purchase the items in their remote shopping cart, the operations enable you to specify, using the *MergeCart* parameter, whether the items in the customer's remote cart are purchased

separately or added to the local shopping cart. If `MergeCart` is False, the default value in the US locale, the locale and remote carts are not merged. Instead, the customer is sent directly to Amazon's Order Pipeline to purchase the items in their remote shopping cart (only), as shown in the following figure.

This page and the ones that precede it in the Order Pipeline are completed by the customer to actually place the order.

If `MergeCart` is True, the items in the remote shopping cart are added to the local shopping cart and customers are sent to that cart when they click **Place your order**, as shown in the following figure.

The *MergeCart* value is set in `CartCreate` and `CartAdd` and can be changed by `CartModify`. The *MergeCart* value is included in the `PurchaseURL`, which is returned by `CartCreate`. As long as the `PurchaseURL` is used to purchase the items in the shopping cart, the *MergeCart* value will be correct. For more information, see PurchaseURL.

Cart Lifespan

Shopping carts have a lifespan. A remote shopping cart is created and, in time, it expires. In between, the contents of the cart can be modified and purchased, as shown in the following diagram.

| Create Cart (CreateCart) | Modify Cart (CartModify, CartAdd CartClear) | Checkout (Order Pipeline) |

Cart Creation

The first time a customer wants to add an item to their shopping cart, a remote shopping cart must be created, which is accomplished using the `CartCreate` operation. It is not possible to create an empty cart. At least, one item must be added.

Modifying a Cart

If a customer has an existing remote shopping cart, it should be used and modified accordingly. Modification can come in many forms:

- Items can be added to and deleted from the cart
- Items can be moved from the Active area of the cart to the SaveForLater area, or the reverse
- In the US locale, the MergeCart value can be changed

The CartId and HMAC are used in the `CartModify`, `CartAdd`, or `CartClear` operations to modify the contents of the cart.

Cart Expiration

It is not possible to delete a remote shopping cart. Instead, it expires automatically after ninety days of disuse if there are items in the cart, or, if the cart is empty, after seven days of disuse. Carts are emptied either by the `CartClear` or `CartModify` operations, or automatically when the customer purchases the items in their cart. The expiration of the cart is reset when the cart is modified. For example, if, on day eighty-nine of disuse, a customer modifies the items in their shopping cart, the life time of the cart is reset to an additional ninety days. In that way, shopping carts can last indefinitely.

Once the items in a cart have been purchased using the *PurchaseURL* value, the cart is not deleted immediately but it should no longer be used. From a customer's point of view, once he or she has purchased the items in their cart and there are no items remaining in the SaveForLater section, the old cart is gone. The next time they want to purchase an item, they receive a new cart.

Remote Shopping Cart Tasks

Topics
- Creating a Remote Shopping Cart
- Retrieving the Contents of a Cart

Amazon Associates Web Service operations give you complete control of the items in a remote shopping cart. The tasks you can implement using Amazon Associates Web Service cart operations are described in the following sections.

Creating a Remote Shopping Cart

A remote shopping cart must be created the first time a customer decides to add an item to a shopping cart. Once the cart is created, it is reused and modified appropriately until it expires. Only one local cart can be created and only one cart per customer per vendor should be created.

Typically, an HTML button labeled, for example, Add to Cart, implements a `CartCreate` request, which includes:

- At least one item to add to the cart.

  You cannot create an empty cart.

- An optional *AssociateTag*.

Including the *AssociateTag* value gives the Associate credit for the customer's purchase.

- In the US locale, an option to merge the contents of a remote cart with the customer's local cart.

Example Setting MergeCart to True

The following request sets *MergeCart* to True.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]& AssociateId=[ID]&
Operation=CartCreate&
Item.1.OfferListingId=B000062TU1&
Item.1.Quantity=2& MergeCart=True
```

In this example, two of the same item (Quantity=2) whose ASIN is B000062TU1 are added to the newly created (Operation=CartCreate) shopping cart. The Associate specified will receive a referral fee if the customer purchases the item.

In the lifespan of a shopping cart, CartCreate can be used only once. If you call CartCreate a second time, you create a new shopping cart. We recommend that you only create one cart per customer.

Specifying the Items in the CartCreate Request

In one CartCreate request, you can add up to ten different items to the cart. The quantity of each item can be between 1 and 50. That means in one CartCreate request, you could add up to five-hundred items (10 items * 50 quantity).

Items are specified in parameter pairs, as follows:

```
Item.N.ItemIdType=[Item identifier]
Item.N.Quantity=[Number of Item.N items]
```

N is a positive integer. The *N* value associates the ItemId with the quantity of those items that should be added to the cart, for example:

```
Item.1.OfferListingId=[An OfferListingId]&
Item.1.Quantity=3&
Item.2.OfferListingId=[An OfferListingId]&
Item.2.Quantity=5&
```

This request adds three number 1 items and five number 2 items to the remote shopping cart. You could interchange lines without affecting the end result, for example:

```
Item.1.OfferListingId=[An OfferListingId]&
Item.2.OfferListingId=[An OfferListingId]&
Item.1.Quantity=3&
Item.2.Quantity=5&
```

The values for *N* do not have to be listed in ascending or descending order, nor do the values of *N* need to be sequential. You could, for example, use the values, 1, 4, 7 for *N*. Also, the value of *N* is not retained between requests. For that reason, it is permissible to use Item.1 in a CartCreate request and then in a CartAdd request, which adds an item to the cart. In these requests, Item.1 can refer to two completely different items.

The value of adding multiple items to the cart in one request is performance. It takes less time to add ten

items in one request than it does to add ten items to the cart in ten separate requests.

Using OfferListingId

You can specify items to add to a cart in the following ways.

Identifiers	Description
ASIN	An alphanumeric token that uniquely identifies an item sold by Amazon. Amazon assigns ASINs to items. Using OfferListingId is the preferred method of identifying items to add to the cart.
OfferListingId	An alphanumeric token that uniquely identifies an item sold by a seller or merchant. Amazon assigns OfferListingIds to items. You can find an OfferListingId using the `ItemLookup` and `ItemSearch` operations with Offers and OfferFull response groups. Using OfferListingId is the preferred method of identifying items to add to the cart.
ListItemId	An alphanumeric token returned by the ListItems response group that uniquely identifies an item in a list.

The `CartCreate` example uses OfferListingId to identify the items to add to the cart. An OfferListingId is returned by the Offers and OfferFull response groups. An alternative is using an item's ASIN. An ASIN is assigned to every item offered by Amazon. An OfferListingId is assigned to every item that is available for sale.

The advantage of using OfferListingId in the `CartCreate` request is that items that cannot be purchased, such as Variation parent items, do not have OfferListingId's. By using the OfferListingId, you are assured that an item can be purchased.

Adding List Items to a Cart

Customers can create lists of items they would like others to purchase for them. Each item on a list has a ListItemId. ListItemId is returned by the ListInfo response group.

To add a list item to a remote shopping cart

- Include in the `CartCreate` request the item's ListItemId along with the item's ASIN or OfferListingId, for example:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateId=[ID]&
Operation=CartCreate&
Item.1.OfferListingId=B000062TU1&
Item.1.Quantity=2&
Item.1.ListItemId=C909324538U3
```

The importance of including the `ListItemId` is that Amazon automatically updates the status of items on lists. By including the `ListItemId` in this request, Amazon will mark on the list that the item has been purchased. Also, the `ListItemId` attaches the name and address of the list owner, which the ASIN alone does not.

- Amazon automatically updates the status of items on lists. By including the `ListItemId` in this

request, Amazon will mark on the list that the item has been purchased.

- ListItemId includes in the response the name and address of the list owner, which ASIN or *OfferListingId* alone does not.

Related Topics

- ListInfo Response Group

AssociateTag Parameter

An *AssociateTag* is an alphanumeric token distributed by Amazon that uniquely identifies an Associate. It is the means by which Amazon credits an Associate for a sale. As we will see in a later section, the *AssociateTag* becomes part of the *PurchaseURL*, which is the URL used to purchase the items in a remote shopping cart. If you forget or choose not to include an *AssociateTag* in a CartCreate request and you want to add the *AssociateTag* later, you have to add it manually to the *PurchaseURL*.

The *AssociateTag* is optional in CartCreate requests. If an Associate does not include it in a request, however, he or she does not get credit for the sale and they do not receive Associate remuneration. If, however, a CartCreate request includes an *AssociateTag*, all future requests that modify the same cart must also contain the *AssociateTag*. If a request does not contain an *AssociateTag*, Amazon Associates Web Service returns an error.

Be careful when you specify an *AssociateTag* in the CartCreate request. Errors are not returned for inaccurate values.

MergeCart Parameter

The *MergeCart* parameter enables you to specify whether or not the contents of the remote cart should be added to the local cart when the customer opts to purchase the items in their cart. By default, the contents of the two carts are not mixed (MergeCart=False) and the customer is sent directly to the Order Pipeline to check out and purchase the items in their remote shopping cart.

When the value of *MergeCart* is set to True, the contents of the remote shopping cart are added to the customer's local shopping cart when the customer opts to purchase their items. Instead of going to the Order Pipeline, the customer is presented with a view of their Amazon.com shopping cart, which then contains the items that were in the remote shopping cart.

The *MergeCart* parameter is available only in the US locale.

Using Values Returned by CartCreate in Other Cart Operations

The following XML is a snippet of the response to the CartCreate request.

```
<CartId>002 2197248 2529608</CartId>
<HMAC>/WrekkZAPx782xttLFbZqviNUOA=</HMAC>
<URLEncodedHMAC>%2FWrekkZAPx782xttLFbZqviNUOA%3D</URLEncodedHMAC>
<PurchaseURL>https://www.amazon.com/gp/cart/aws merge.html?cart id=002
2197248 2529608%26associate
id=ws%26hmac=/WrekkZAPx782xttLFbZqviNUOA%26AWSAccessKeyId=[AWS Access Key
ID]%26MergeCart=True</PurchaseURL>
<SubTotal>
  <Amount>2998</Amount>
  <CurrencyCode>USD</CurrencyCode>
  <FormattedPrice>$29.98</FormattedPrice>
</SubTotal>
<CartItems>
  <SubTotal>
```

```
    <Amount>2998</Amount>
    <CurrencyCode>USD</CurrencyCode>
    <FormattedPrice>$29.98</FormattedPrice>
  </SubTotal>
  <CartItem>
    <CartItemId>UV3W10T4V7PCZ</CartItemId>
    <ASIN>B000062TU1</ASIN>
    <MerchantId>ATVPDKIKX0DER</MerchantId>
    <SellerId>A2R2RITDJNW1Q6</SellerId>
    <Quantity>2</Quantity>
    <Title>Harry Potter and the Sorcerer's Stone (Full Screen Edition) (Harry
Potter 1)</Title>
  <ProductGroup>DVD</ProductGroup>
  <Price>
    <Amount>1499</Amount>
    <CurrencyCode>USD</CurrencyCode>
    <FormattedPrice>$14.99</FormattedPrice>
  </Price>
  <ItemTotal>
    <Amount>2998</Amount>
    <CurrencyCode>USD</CurrencyCode>
    <FormattedPrice>$29.98</FormattedPrice>
  </ItemTotal>
</CartItem>
</CartItems>
```

Many of the item attributes in the response are used in future cart requests. Those item attributes are explained in the following table.

Attribute	Description
CartId	An alphanumeric token that uniquely identifies a remote shopping cart. This value must accompany every cart operation associated with the newly created cart.
HMAC	Hash Message Authentication Code. This is an encrypted alphanumeric token used to authenticate requests. A URL-encoded version of this value must accompany every cart operation associated with the newly created cart. The alternative is to include, instead, the URLEncodedHMAC value.

URLEncodedHMAC	This is the *HMAC* value with all of the characters converted in to a URL-compliant form. Some *HMAC* characters, such as plus (+), are incompatible with URLs. This is a problem because the *HMAC* must be included in every cart operation and thus is part of the URL request. The *URLEncodedHMAC* value, then, is a convenience function that relieves developers of the need to create their own URL-encoded *HMAC* value. This value must accompany every cart operation.
	
	`<HMAC>Cwlg4IbVzOtzFkJR/zBj1GNnZMA</HMAC>`
	`<URLEncodedHMAC>Cwlg4IbVzOtzFkJR/zBj1GNnZMA`
	`</URLEncodedHMAC>`

PurchaseURL	This is the URL that is submitted, like a request, to enter the Order Pipeline and purchase the items in a cart. *PurchaseURL* includes the Associate's Tag. It is important that this URL is used to make the purchase otherwise the Associate will not get credit for the sale.
	
	`<PurchaseURL>https://www.amazon.com/gp/cart/aws-merge.html?cart-`
	`id=102-9464231-2184159%26associate-id=ws%26hmac=Cwlg4IbVzOtzFkJR/`
	`zBj1GNnZMA%26AWSAccessKeyId=1VEXAMPLE9C02%26MergeCart=False</P`
	`urchaseURL>`

Attribute	Description
CartItemId	An alphanumeric token that uniquely identifies an item in the cart. Although the items added to a remote shopping cart using CartCreate were identified by an *ASIN* or *OfferListingId*, those items lose those associations. Instead, to refer to an item in a cart in future cart operation requests, you must use the item's *CartItemId* value.

Modifying the Items in a Remote Shopping Cart

Amazon Associates Web Service operations give you a lot of flexibility to modify the number of items in a cart. For example, use:

- **CartAdd—**To add new items to a cart.
- **CartClear—**To remove all items from a cart.
- **CartModify—**To increase or decrease the number of items that are already in a cart, and to move items between the Active and the SaveForLater cart areas.
  You can use this operation to delete a single item from a cart by setting its quantity to zero.

All of these operations can be used only on an existing remote shopping cart.

Adding Items to a Cart

Often a customer, after creating a shopping cart, wants to keep shopping and add additional items to an existing shopping cart. You can facilitate this activity using the Amazon Associates Web Service operations CartAdd and CartModify.

If the item being added is already in the cart, you have to use the CartModify operation to change the quantity of the items already in the cart. You cannot use CartAdd to add items that are already in a cart. In the following example, the quantity of the specified item is changed to 10.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&amp;
AWSAccessKeyId=[AWS Access Key ID]&
AssociateTag=[Associate ID]&
Operation=CartModify &
CartId=102-5929035-5792105&
HMAC=[HMAC]&
Item.1.CartItemId=[Cart Item ID]& Item.1.Quantity=10
```

Notice that the item in the cart is referred to by its CartItemId. The Quantity value, 10, is the total number of those items that should be in the cart.

If the item being added to the cart is not already in the cart, you must use the CartAdd operation. CartAdd cannot increase the quantity of items that are already in the cart. If you try to do that, you get an error.

The following is an example of a request using CartAdd.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
CartId=102-5929035-5792105&
HMAC=[HMAC]=&
Operation=CartAdd &
Item.1.OfferListingId=1400042127& Item.1.Quantity=2
```

This request adds to the cart two (Quantity=2) of the same items, which are identified by the OfferListingId (1400042127).

As you can see, the method of identifying the item and its quantity to add to the cart is the same as it was for `CartCreate`. For more information, see CartCreate.

Adding Items as Saved For Later

To add an item to the SaveForLater area, use "SaveForLater" as the value for the `Action` parameter in a `CartModify` operation, for example:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateTag=[Associate ID]&
Operation=CartModify&
CartId=[Cart ID]&
HMAC=[HMAC]&
Item.1.CartItemId=[Cart Item ID]&
Item.1.Quantity=1
Item.1.Action=SaveForLater
```

In this request, the item identified by Item.1 is moved to the cart's SaveForLater area. The Quantity parameter enables you to move only some of one type of item into the SaveForLater area, for example, if you had fifteen copies of the book, *Saving Miss Oliver's*, in the cart, you could move eight of them to the SaveForLater area by setting Item.1.Quantity=8 in the preceding request.

Notice that only `CartModify` can move an item between the Active and SaveForLater areas. This means that an item cannot be added directly to the SaveForLater area; it must first be added to the cart using `CartCreate` or `CartAdd` and then moved to SaveForLater. Amazon will automatically move an item to the SaveForLater area if the item is currently unavailable. `CartModify` will not be able to move that item into the Active area until it becomes available. At that time, Amazon will move the item automatically into the Active area.

> **Note**
>
> The value for the `Action` parameter is "SaveForLater." Items in the SaveForLater area are tagged in the XML response with the element, SavedForLaterItem, as shown in the following XML snippet from a response.
>
> ```
> <SavedForLaterItem>
>   <CartItemId>ULI7S9IYFJHX0</CartItemId>
>   <ASIN>B0009GZV4A</ASIN>
>   <MerchantId>ATVPDKIKX0DER</MerchantId>
>   <SellerId>A2R2RITDJNW1Q6</SellerId>
>   <Quantity>2</Quantity>
>   <Title>Mark VII Men's Short Sleeve Golf Shirts with
>    Tri -Colored Stripe Trim</Title>
>   <ItemTotal>
>     <Amount>1288</Amount>
>     <CurrencyCode>USD</CurrencyCode>
>     <FormattedPrice>$12.88</FormattedPrice>
>   </ItemTotal>
> </SavedForLaterItem>
> ```

To move an item from the SaveForLater area to the Active area, use " MoveToCart" as the value for the `Action` parameter in a `CartModify` operation:

```
Item.1.CartItemId=[Cart Item ID]&
Item.1.Quantity=1
```

```
Item.1.Action=MoveToCart
```

Adding List Items to a Cart

To add an item on a list to a remote shopping cart, use the same procedure described for `CartCreate` in
Adding List Items to a Cart, for example:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation= CartAdd &
Item.1.Quantity=1& Item.1.OfferListingId=0865874069&
Item.1.ListItemId=98989898989898
```

Removing Items From a Cart

A customer might, at times, decide to remove some or all of the items in their remote shopping cart.

To remove all items from a cart

- Use `CartClear` to remove all items from a cart.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateTag=ws&
Operation=CartClear&
CartId=002-2041347-9034467&
HMAC=[HMAC]
```

If the customer, however, wants to remove only some of the items in their cart, use `CartModify` and set
the *Quantity* and *CartItemId* parameters appropriately, for example:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=CartModify&
CartId=[cart ID]&
Item.1.CartItemId=U1I8M9790QFDO7&
Item.1.Quantity=15&
Item.2.CartItemId=U3K5GRHEXU6FHK&
Item.2.Quantity=18
```

This request sets the quantity of the item specified by the *CartItemId* to 0 thereby removing it from
the cart.

Changing the MergeCart Value

The value for *MergeCart* is assigned in the `CartCreate` request.

To change the *MergeCart* value

- Use the *MergeCart* parameter in any cart operation request except `CartClear`

```
MergeCart=True&
```

The value, "True," specifies that items in a remote shopping cart will be added to a customer's local shopping cart when the customer elects to purchase.the items in their remote shopping cart. The default value, False, means that the items in the remote shopping cart are sent directly into the Order Pipeline instead of being added to a local shopping cart.

This parameter is only valid in the US locale. In non-US locales, the parameter is invalid but the request works as though the parameter were true.

Retrieving the Contents of a Cart

You should not maintain a local copy of the remote shopping cart. Instead, use `CartGet` to retrieve the items in a shopping cart.

Retrieving the items in a cart

- Use the cart's *HMAC* and *CartId* values in a `CartGet` request.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateTag=ws&
Operation=CartGet&
CartId=002-2041347-9034467&
HMAC=[HMAC]
```

By default, `CartGet` uses the Cart response group. This response group provides a lot of information about items, including, for example, their price, quantity, and the seller ID of the seller selling the item, as shown in the following response snippet.

```
<PurchaseURL>ht
tps://www.amazon.com/gp/cart/aws-merge.html?cart-id=002-9918938-1696046%26ass
ociate-id=ws%26hmac=b0ogzvivVYLXjSZ9WwoBRFesFYU%26AWSAccessKeyId=[AWS Access
Key ID]MergeCart=False</PurchaseURL>
<CartItems>
  <SubTotal>
    <Amount>1994</Amount>
    <CurrencyCode>USD</CurrencyCode>
    <FormattedPrice>$19.94</FormattedPrice>
  </SubTotal>
  <CartItem>
    <CartItemId>U3KYV0C66V3PAA</CartItemId>
    <ASIN>B000062TU1</ASIN>
    <MerchantId>ATVPDKIKX0DER</MerchantId>
    <SellerId>A2R2RITDJNW1Q6</SellerId>
    <SellerNickname>Amazon.com, LLC</SellerNickname>
    <Quantity>2</Quantity>
    <Title>Harry Potter and the Sorcerer's Stone (Full Screen Edition)(Harry
Potter 1)</Title>
    <ProductGroup>DVD</ProductGroup>
    <Price>
      <Amount>997</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$9.97</FormattedPrice>
    </Price>
    <ItemTotal>
      <Amount>1994</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$19.94</FormattedPrice>
    </ItemTotal>
  </CartItem>
</CartItems>
```

You could, for example, use the `CartItemId` in a `CartModify` operation to change the quantity of that item. You could also use the `PurchaseURL` to purchase the items in the cart.

Add to Cart Form

The Add to Cart form enables you to add any number of items to a customer's shopping cart and send the customer to the Amazon retail web site.

☞ **Note**

There is no direct way for a customer to get back to your site after getting sent to the Amazon site. To improve a customer's experience on your site, you may want to note this on your site or provide a way to get back to your site (using a new window, for example).

Although the parameters are optional, but you must specify at least one of the following parameters: ASIN, ExchangeId (along with the SellerID and ASIN), or OfferListingId.

To add more than one item to the customer's cart

- Append each set of parameters with a period, then a unique identifier, which establishes a relationship between the parameters (for example, "ASIN.1=*[ASIN]*&Quantity.1=1&ASIN.2=[Another ASIN]&Quantity.2=12").

The Add to Cart form works with all locales. Send the Add to Cart form data to one of the following URLs:

- http://www.amazon.com/gp/aws/cart/add.html
- http://www.amazon.co.jp/gp/aws/cart/add.html
- http://www.amazon.co.uk/gp/aws/cart/add.html
- http://www.amazon.de/gp/aws/cart/add.html
- http://www.amazon.fr/gp/aws/cart/add.html
- http://www.amazon.ca/gp/aws/cart/add.html

The following table describes the input parameters for the Add to Cart form.

Parameter	Description
ASIN.x	Specifies one or more product ASINs to add, where x is a unique identifier.
ExchangeId.x	Specifies one or more products using the exchange ID, where x is a unique identifier. Exchange IDs are available for every item offered by a third-party seller. When using ExchangeId, you must also specify a matching SellerID and ASIN.
OfferListingId.x	An alternative way to specify one or more product offer listings from third-party sellers, where x is a unique identifier.
Quantity.x	Specifies the amount of a certain product to add to the cart, where x matches the unique identifier for an ASIN, OfferListingId, or ExchangeId parameter.

Parameter	Description
SellerId.x	Use the SellerId parameter to ensure that the customer purchases the product from a particular seller, where x matches the unique identifier for an ASIN, OfferListingId, or ExchangeId parameter.
AWSAccessKeyId	Your Access Key ID Here. You may want to specify this as a hidden parameter.
AssociateTag	Your associate tag. You may want to specify this as a hidden parameter.

Example HTML for the Add to Cart Form

```
<form method="GET" action="http://www.amazon.com/gp/aws/cart/add.html">
  <input type="hidden" name="AWSAccessKeyId" value="Access Key ID" /><br/>
  <input type="hidden" name="AssociateTag" value="Associate Tag" /><br/>
  <p>One Product<br/>
  ASIN:<input type="text" name="ASIN.1"/><br/>
  OfferListingId:<input type="text" name="OfferListingId.1"/><br/>
  Quantity:<input type="text" name="Quantity.1"/><br/>
  ExchangeId:<input type="text" name="ExchangeId.1"/><br/>
  SellerId:<input type="text" name="SellerId.1"/><br/>
  <p>Another Product<br/>
  ASIN:<input type="text" name="ASIN.2"/><br/>
  OfferListingId:<input type="text" name="OfferListingId.2"/><br/>
  Quantity:<input type="text" name="Quantity.2"/><br/>
  ExchangeId:<input type="text" name="ExchangeId.2"/><br/>
  SellerId:<input type="text" name="SellerId.2"/><br/>
  </p>
  <input type="submit" name="add" value="add" />
  </form>
```

Purchasing the Items in a Remote Shopping Cart

Topics

When a customer has finished shopping and wants to purchase the items in their remote shopping cart, they typically click an HTML button on a web site labeled, for example, **Proceed to Checkout**. This button must submit the value of the *PurchaseURL*, which is returned by all cart operations except CartClear. Once the customer clicks this button, the items in the Active area are emptied from the shopping cart and entered into the Order Pipeline.

This chapter explains how to submit the contents of a remote shopping cart for purchase in the following sections.

Order Pipeline

The Order Pipeline is a series of web pages hosted by Amazon that guides the customer through entering all of the information necessary to purchase the items. That information includes, for example, the customer's name, shipping address, billing address, payment method, and a purchase confirmation web page, as shown in the following figure.

Implementing the Proceed to Checkout Button

All of the web pages in the Order Pipeline are hosted by Amazon so your application plays no role in purchasing the items or order fulfillment. Your application must, however, use the *PurchaseURL* returned by Amazon Associates Web Service cart operations to enter the shopping cart items into the Order Pipeline. The *PurchaseURL* is often implemented as an HTML form and button labeled, for example, **Proceed to Checkout**, as shown in the following figure.

PurchaseURL

All cart operations except `CartClear` return a value for *PurchaseURL*, for example:

```
=002-991893
8-1696046%2
<PurchaseURL>https://www.amazon.com/gp/cart/aws-merge.html?cart-id6associate-
id=[Your ID]%26hmac=b0ogzvivVYLXjSZ9WwoBRFesFYU=%26AWSAccessKeyId=[Access Key
ID%26MergeCart=False<PurchaseURL>
```

This value is a URL that should be submitted, like a request, to purchase the items in a remote shopping cart. The value contains the Associate's Tag if it was specified in the `CartCreate` operation. The Associate's Tag value in the *PurchaseURL* is what links the customer's purchase to the Associate. If the *PurchaseURL* is not used to buy the items in a cart, the Associate will not receive credit for the sale.

The information in bold includes:

- Cart identity (cart-id, hmac)
- Associate identity (associate-id)
- Request submitter (AWSAccessKeyId)
- MergeCart value (MergeCart)

You can manually change any of the values in the *PurchaseURL* but that is not recommended.

The following is an HTML implementation of the *PurchaseURL*.

```
<form name="Proceed to Checkout" method="post"
=002-9918938-1696
action=https://www.amazon.com/gp/cart/aws-merge.html?cart-id046%26associate-
id=[Your ID]%26hmac=b0ogzvivVYLXjSZ9WwoBRFesFYU=%26AWSAccessKeyId=[Access Key
ID%26MergeCart=False>
  <input type="submit" name="Proceed to Purchase"
  value="
          PurchaseURL
        Purchase" >
</form>
```

Buy Now Form

The Buy Now form enables the customer to enter the appropriate handling and shipping fee. So, be sure to explain this somewhere in your application.

Send the Buy Now form data to the following URL:

```
http://s1.amazon.com/exec/varzea/dt/cbop/order-checkout/
```

The following table describes the parameters in the Buy Now form.

Parameter	Description	Required?
purchase-navbar	An image that is added to the top of the purchase pages. This allows you to associate the look and feel of your site with the purchase pages on the Amazon Web site.	Required
purchase-store-name	The name of your site, which is listed under the navbar image.	Required
purchase-return-url	The link URL that is activated when a user clicks on the navbar image.	Required
purchase-exchange-id	The item sold by a third-party seller.	Required
purchase-quantity	The amount of a particular item to purchase.	Required
purchase-storefront-name	Name of the storefront that is selling the product	Required

Example HTML for the Buy Now Form

```
  <form action="http://s1.amazon.com/exec/varzea/dt/cbop/order-checkout/"
method="post">
  <input type="hidden" name="purchase-navbar"
value="https://www.mysite.com/navbar.gif"/>
  <input type="hidden" name="purchase-store-name" value="My Storefront
```

```
Name"/>
  <input type="hidden" name="purchase-return-url"
value="http://www.mysite.com"/>
  <input type="hidden" name="purchase-exchange-id" value="[An exchange ID]"/>
  <input type="text" name="purchase-quantity" value="1" size="2"/>
  <br><input type="hidden" name="purchase-storefront-name"
value="thestorefrontname"/>
  <input type="image"
src="http://images.amazon.com/images/G/04/buttons/buy-now-from-seller-with-pa
yments.gif"
    width="170" height="29" border="0"/>
  </form>
```

Tracking Transactions

Topics

- Using TransactionLookup
- Split Shipment Transactions

Once a customer has placed a purchase request customers and merchants often like to follow the status of the order fulfillment. The `TransactionLookup` operation provides this functionality.

Every time a customer purchases the items in their shopping cart, Amazon generates a Transaction ID. This alphanumeric token identifies a purchase and remains valid on the Amazon web site for at least a year. This functionality enables a customer to look at their purchases over the course of the previous year.

On the Amazon's retail web site, the Transaction ID is called the Order Number. To find one, go to www.amazon.com and click on the following links: Your Account>Where's My Stuff?>Open and recently shipped orders. If you have not purchased anything recently, you can use the See More dropdown list to select, for example, Orders placed in an entire year. On the page that lists the transactions, use the Order Number for the Transaction ID.

This chapter discusses how to track transactions in the following sections.

Using TransactionLookup

Given a Transaction ID, `TransactionLookup` returns the following information:

- Shipping details, such as the status and shipping date
- Price details, such as the total, subtotal, tax, and promotions
- Sale date
- Item's condition
- Seller details

For privacy reasons, this operation does not return information about the customer who purchased the items.

For example, to look up purchase details in a transaction with ID 002-7777777-7138425, you would submit the following request.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
```

```
AWSAccessKeyId=[AWS Access Key ID]&
Operation=TransactionLookup&
TransactionId=002-7777777-7138425
```

In addition to returning price information, the request returns shipping details, as shown in the following excerpt from the full XML response.

```
<Shipments>
  <Shipment>
    <Condition>Shipped</Condition>
    <ShipmentItems>
      <TransactionItemId>jooloslsnpl</TransactionItemId>
    </ShipmentItems>
  </Shipment>
</Shipments>
```

The TransactionItemId element identifies a specific item in the purchase.

Split Shipment Transactions

In the preceding example, only one item was shipped. It is possible, however, for multiple items to be in a purchase order. If all of the items were purchased from the same shopping cart, they share the same Transaction ID.

Customers, in Amazon's Order Pipeline, can specify that items be shipped either all together or as soon as they are available. In the second case, called a split shipment, it is possible for some items to be mailed before others. In this case, the values of the `Condition` parameter might be different for each `TransactionItemId`..

The following figure shows a split shipment and how Amazon displays shipment tracking.

Handling Errors and Troubleshooting Applications

Topics

- Syntax and Parameter Errors
- Retrieving Errors
- Troubleshooting Applications
- Error Codes and Messages

Amazon Associates Web Service (Amazon Associates Web Service) provides specific and descriptive errors to help you troubleshoot problems with your requests. There are two kinds of errors, as explained in the following sections.

Syntax and Parameter Errors

Topics

- Processing Error
- Results and Errors

All responses contain an `IsValid` element, for example:

```
<IsValid>False</IsValid>
```

The `IsValid` element tells you whether or not there is an error in the syntax of any elements of the request and if all required parameters are included.. For example, if you were to omit the `Operation` parameter, which is required in every request, Amazon Associates Web Service would set `IsValid` to False and not process your request. Typically, these kinds of errors are a little more subtle. Typical errors are incorrectly capitalized parameters or values, or the failure to include a required parameter in the request. For example, in the following request, the `SearchIndex` parameter is entered as "Searchindex."

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
Keywords=Potter&
Searchindex=Books
```

Amazon Associates Web Service returns the following error:

```
<Errors>
  <Error>
    <Code>AWS.MissingParameters</Code>
    <Message>Your request is missing required parameters. Required parameters
include SearchIndex.
    </Message>
  </Error>
</Errors>
```

Amazon Associates Web Service believes that the request is missing the *SearchIndex* parameter just because the "I" was not capitalized in the parameter name.

In the sample response, notice that the error consists of an error code that identifies the error, and an error message that describes the error. The error messages is in the language of the locale.

For a detailed list of error codes and messages, see Error Codes and Messages section of the API Reference.

Processing Error

Is it possible to submit a valid request and still have an error? Yes. If you were to submit a request and no items in Amazon satisfied the request, you would receive an error. The following request is an example of this problem.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
```

```
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
Condition=Refurbished&
ResponseGroup=Images&
SearchIndex=Automotive&
Title=Harry%20Potter
```

The following response snippet shows the error.

```
<IsValid>True</IsValid>
...
<Errors>
  <Error>
    <Code>AWS.ECommerceService.NoExactMatches</Code>
    <Message>We did not find any matches for your request.
    </Message>
  </Error>
</Errors>
```

Looking for a refurbished edition of a Harry Potter book in the Automotive section doesn't make much sense. So, it's not surprising that there were no items that satisfied that request. Similar problems can be much more subtle, however. For example, the default value of *Condition* is "New." In part, this is because Amazon only sells new items. If you submitted a request without specifying a value for *Condition* and received no results, you might assume that there are no items that satisfy the request. By setting *Condition* to "All," however, you might find that items do satisfy the request.

A similar error message is displayed when, for example, you use **ItemLookup** to find an item that does not exist in the Amazon catalog.

```
<Errors>
  <Error>
    <Code>AWS.InvalidParameterValue</Code>
    <Message>B0111NOSUCHITEM is not a valid value for ItemId. Please change
this value and retry your request.
    </Message>
  </Error>
</Errors>
```

ItemId was set equal to "B0111NoSuchItem" in the request. The error message shows that Amazon Associates Web Service converts *ItemId* values to all caps.

Results and Errors

As long as the request is valid, Amazon Associates Web Service will try to process it. There are times when Amazon Associates Web Service returns a result and an error. For example, if you had a batch or multi-operation request, one item might be found, the other not. In that case, *IsValid* would be true, the response would contain the item attributes of the item found, and the response would also contain an error message that the second item could not be found. Amazon Associates Web Service attempts to return as much information as possible even when an error prevents the successful completion of a portion of a request.

Retrieving Errors

Typically, you want your application to check whether or not a request generated an error before spending any time processing results. The easiest way to find out if an error occurred is to look for an *Error* node in the response.

XPath syntax provides a simple way to search for the presence of an *Error* node, as well as an easy way to retrieve the error code and message. The following code snippet uses Perl and the XML::XPath

module to determine if an error occurred during a request. If an error occurred, the code prints the first error code and message in the response.

```
use XML::XPath;
my $xp = XML::XPath->new(xml =>$response);
if ( $xp->find("//Error") )
{print "There was an error processing your request:\n", " Error code: ",
$xp->findvalue("//Error[1]/Code"), "\n", " ",
$xp->findvalue("//Error[1]/Message"), "\n\n"; }
```

Troubleshooting Applications

We recommend the following processes to diagnose and resolve problems with your Amazon Associates Web Service-enabled Web sites or applications.

- Verify that Amazon Associates Web Service is running correctly.
  To do this, simply open a browser window and submit a REST request. This will confirm that the service is available and responding to requests. Normally Amazon Associates Web Service is available 24 hours per day, 7 days per week.

- Verify that your XSL style sheets are valid.
  To do this, run your requests both with and without the XSL style sheet, to determine if the problem is in the request or in your style sheets.

- Check that you are specifying inclusive response groups.
  You may not receive the expected information in your Amazon Associates Web Service response if you have specified a response group(s) that does not return the data you want.

- Check the structure of your request.
  Each Amazon Associates Web Service operation has a reference page. Double check that you are using parameters correctly. Try the request on one of the other locales. If SOAP is not working, try your request with REST through your browser. That will help you determine if the problem lies with your code or your SOAP client or with Amazon Associates Web Service.

- If your application is submitting requests faster than once per second per IP address, you may receive error messages from Amazon Associates Web Service until you decrease your rate of requests.
  You may need to consider multi-operation requests to minimize traffic.

- Look at the sample applications to see if they are doing similar operations to give you hints on what you might be doing wrong.

- Try your request with multiple ASINs or keyword/title search strings.
  The Amazon catalog is extremely large and sometimes individual products have anomalous data results.

Error Codes and Messages

Amazon Associates Web Service (Amazon Associates Web Service) errors provide you with information about syntactical errors in your requests, as well as errors that occur during the execution of your request (for example, a search for products returns no results). Errors are composed of two elements: *code* and *message*. The error code is a unique string that identifies the error; the error message is a human-readable description of the error that serves as an aid in debugging. These elements will be nested within an Error element. If a request generates more than one error, all Errors will appear in the response.

Errors may appear at different levels in your response. Their location reflects at what stage in the execution of the request the error was generated and what kind of error it is. Errors in syntax that prevent requests from being executed will appear as children of the response's root element. An error associated with a particular item in the response will be a child of the Item element. See the sample requests for

examples of each of these situations.

Error Codes

Amazon Associates Web Service returns errors in three categories so that you can easily determine how best to handle the problem:

- 2XX errors are caused by mistakes in the request. For example, your request might be missing a required parameter. The error message in the response gives a clear indication what is wrong.
- 4XX errors are transient errors. These errors don't indicate there's anything wrong with Amazon Associates Web Service. So, upon receiving this error, resubmit the request.
- 5XX errors are non-transient errors reflecting an error internal to Amazon. A 503 error means that you are submitting requests too quickly and your requests are being throttled. If this is the case, you need to slow your request rate to one request per second.

Error Messages

Amazon Associates Web Service returns error messages in English for the Amazon.com (US), Amazon.co.uk (UK), Amazon.de (DE), Amazon.fr (FR), and Amazon.ca (CA) locales. Error messages are in Japanese for the Amazon.co.jp (JP) locale.

Error Code & Description	Message	Affected Operations
AWS.ExactParameterRequirement You will receive this message when the value of your parameter is longer than permitted by Amazon Associates Web Service.	Your request contains too much data for *[ParameterName]*. This parameter can have a maximum length of *[MaximumNumber]*.	All
AWS.ExceededMaximumParameterValues You will receive this error message when you specify too many values for one or more parameters in your request (i.e., 11 transaction IDs for the TransactionId parameter in TransactionLookup, instead of ten or fewer).	Your request contains too many values for *[ParameterName]*. This parameter can have a maximum of *[MaximumNumber]* values.	• ItemLookup • SimilarityLookup • SellerLookup • TransactionLookup • SellerListingLookup
AWS.InsufficientParameterValues You will receive this error message when your request contains an insufficient number of values for a required parameter.	Your request contains too few values for *[Parameter Name]*. This parameter must have a minimum of *[Minimum Value]* values.	All
AWS.InternalError You will receive this error if	We are unable to process your request at this time. Please retry your request. If you encounter this error repeatedly, please post	All

Error Code & Description	Message	Affected Operations
Amazon Associates Web Service is unable to complete your request due to an internal problem or outage. For SOAP, this will be presented as a SOAP fault rather than an error.	a message on the AWS discussion board.	
AWS.InvalidEnumeratedParameter You will receive this error message when your request contains an invalid value for a parameter that has an explicit list of valid values, such as SearchIndex.	The value you specified for *[ParameterName]* is invalid. Valid values include *[EnumeratedValuesList]*.	• CartAdd • CartCreate • CartModify • CustomerContentLookup • Help • ItemLookup • ItemSearch • ListLookup • ListSearch • SellerListingLookup • SellerListingSearch • SellerLookup • SimilarityLookup
AWS.InvalidISO8601Time You will receive this error when your request contains a date or time value that is not formatted according to the profile of the ISO-8601 date/time standard that is described at http://www.w3.org/TR/NOTE-datetime. For example, this error will be returned if your request contains an invalid value for the Version parameter.	*[ParameterName]* has an invalid value. It must contain a valid ISO 8601 date and time.	All
AWS.InvalidOperationForMarketplace You will receive this error message when you try to execute an operation in a locale where the operation is not supported.	This operation, *[OperationName]*, is not available for this locale.	All
AWS.InvalidOperationParameter You will receive this error message when the operation name you entered is not	The Operation parameter is invalid. Please modify the Operation parameter and retry. Valid values for the Operation parameter include *[ListOfOperationValues]*.	All

Error Code & Description	Message	Affected Operations
available from Amazon Associates Web Service. For instance, if you tried to use AsinSearch (from AWS 3.0) as an operation name, you would get this error since AsinSearch is not a valid operation name in Amazon Associates Web Service 4.0.		
AWS.InvalidParameterCombination You will receive this error message when two or more of the request parameters you have entered can not be used in the same request. For example, if you are using the CartAdd operation, you would receive this error if you tried to add items to the cart by both ASIN and OfferListingId.	Your request contains an invalid parameter combination. *[ParameterName]* and *[ParameterName]* cannot appear in the same request.	`ItemSearch` `CartCreate` `CartAdd` `SellerListingSearch`
AWS.InvalidParameterValue You will receive this error message when your request contains an invalid value for an ID parameter, such as ItemId or SellerId.	*[ParameterValue]* is not a valid value for *[ParameterName]*. Please change this value and retry your request.	`CartAdd` `CartCreate` `CartModify` `CustomerContentLookup` `Help` `ItemLookup` `ItemSearch` `ListLookup` `ListSearch` `SellerListingLookup` `SellerListingSearch` `SellerLookup` `SimilarityLookup`
AWS.InvalidResponseGroup You will receive this error message when the response group name you entered in your request is incompatible with the operation you would like to perform.	Your ResponseGroup parameter is invalid. Valid response groups for *[Operation Name]* requests include *[Available Response Group List]*.	All
AWS.InvalidServiceParameter	The Service parameter is invalid. Please modify the Service parameter and retry.	All

Error Code & Description	Message	Affected Operations
You will receive this error message when the service name you provide in your request is not recognized or supported by Amazon. All Amazon Associates Web Service requests should use the service name "AWSECommerceService."	Valid values for the Service parameter include *[ValidServicesList]*.	
AWS.InvalidSubscriptionId You will receive this error message when the subscription ID you use in your request is not recognized by AWS.	Your request contains an invalid subscription ID. Please retry your request with a valid subscription ID.	All
AWS.InvalidXSLTAddress You will receive this error if the AWS XSLT service is unable to access the XSLT file you used as the value for the Style parameter in your request	We are unable to access your XSLT file. Please verify that you have specified a valid address to your XSLT file.	All
AWS.MaximumParameterRequirement You receive this error message when your request contains the wrong number of parameters from an exclusive group.	Your request should have at most *[Maximum Number]* of the following parameters: *[Parameter Names]*.	All
AWS.MinimumParameterRequirement You receive this error message when your request contains the wrong number of parameters from an exclusive group.	Your request should have at least *[Minimum Number]* of the following parameters: *[Parameter Names]*.	All
AWS.MissingOperationParameter You will receive this error message when your request does not include the Operation parameter and the name of the operation you would like to perform.	Your request is missing the Operation parameter. Please add the Operation parameter to your request and retry. Valid values for the Operation parameter include *[ValidOperationsList]*.	All
AWS.MissingParameterCombination You will receive this error	Your request is missing a required parameter combination. Required parameter combinations include	• ItemLookup • ListSearch

Error Code & Description	Message	Affected Operations
message when your request does not contain a combination of two or more parameters that must be present together in your request.	*[Parameter One]*.	• SellerListingSearch
AWS.MissingParameters You will receive this error when your request does not include all of the parameters required by the operation.	Your request is missing required parameters. Required parameters include *[RequiredParameterList]*.	All
AWS.MissingParameterValueCombination You will receive this error message when your request requires a combination of parameters, one or more of which must have a specific value. For example, when you make an ItemLookup request for a product based on its Universal Product Code (or UPC), you are required to include the IdType and ItemId parameters. The value of the IdType parameter must be UPC.	Your request is missing a required parameter combination. When *[Parameter One]* equals *[Restricted Value]*, *[Parameter Two]* must be present.	• ItemLookup • ListSearch • SellerListingSearch
AWS.MissingServiceParameter You will receive this error message when the your request does not contain the required Service parameter.	Your request is missing the Service parameter. Please add the Service parameter to your request and retry. Valid values for the Service parameter include *[ValidServicesList]*.	All
AWS.ParameterOutOfRange You will receive this error message when you submit a parameter value that exceeds or is lower than the range of valid values for the parameter. For example, ItemSearch allows you to fetch search results page using the ItemPage parameter. The range of values for ItemPage is 1 to 400. If you supply a value outside that range (less than 1 or greater than 400), you will receive this error.	The value you specified for *[ParameterName]* is invalid. Valid values must be between *[LowerBound]* and *[UpperBound]*.	• ItemSearch • ItemLookup • ListSearch • ListLookup • CustomerContentSearch • CustomerContentLookup • SellerLookup • SellerListingSearch
	The parameter,	All

Error Code & Description	Message	Affected Operations
AWS.ParameterRepeatedInRequest You receive this error message when you include the same parameter more than once in your request.	*[ParameterName]*, appeared more than once in your request.	
AWS.RestrictedParameterValueCombination You will receive this error message when your request contains a combination of parameter values that are not permitted in the same request. For example, if you are using the ListSearch operation and have selected BabyRegistry as the ListType, you may not use the Name parameter.	Your request contains a restricted parameter combination. When *[Parameter One]* equals *[Restricted Value]*, *[Parameter Two]* cannot be present.	All
AWS.XSLTTransformationError You will receive this error message when the AWS XSLT service is unable to parse or apply the XSLT stylesheet you have provided in the Style parameter in your request. Make sure that your XSLT stylesheet is valid, and try again.	We were unable to apply your XSLT file. Please check your XSLT and retry your request.	All
AWS.ECommerceService.ExceededMaximumCartItems You will receive this error message when you exceed the maximum quantity value allowed for items being added to a shopping cart.	You may not add more than *[Maximum Item Quantity]* items to the cart.	• CartAdd • CartCreate
AWS.ECommerceService.InvalidCartId You will receive this error message when the CartId you entered into your request is not recognized.	Your request contains an invalid value for CartId. Please check your CartId and retry your request.	• CartAdd • CartClear • CartGet • CartModify
AWS.ECommerceService.InvalidHMAC You will receive this error message when the shopping cart HMAC value you use in your request is not recognized by	Your request contains an invalid value for HMAC. Please check your HMAC and retry your request. Remember that the HMAC must be URL-encoded if you are using REST.	• CartAdd • CartClear • CartGet • CartModify

Error Code & Description	Message	Affected Operations
Amazon Associates Web Service. The HMAC value is a unique token that is used to associate a cart with an Amazon user and a particular session on the Amazon web site.		
AWS.ECommerceService.InvalidQuantity You will receive this error message when the quantity in your request is not valid for the current item.	You have exceeded the maximum quantity allowed for the following item(s): *[ItemId]*.	• CartAdd • CartCreate • CartModify
AWS.ECommerceService.ItemAlreadyInCart You will receive this error message when you try to add an item to a shopping cart that already contains that item.	The item you specified, *[ItemId]*, is already in your cart.	• CartAdd • CartCreate
AWS.ECommerceService.ItemNotAccessible Some products cannot be manipulated or viewed using Amazon Associates Web Service. You will receive this error message when the product ID you use in your request is not available through Amazon Associates Web Service.	This item is not accessible through Amazon Associates Web Service.	• ItemLookup • ListLookup
AWS.ECommerceService.ItemNotEligibleForCart Some products cannot be manipulated or viewed using Amazon Associates Web Service. You will receive this error message when you attempt to add such an item to a remote shopping cart.	The item you specified, *[ItemId]*, is not eligible to be added to the cart. Check the item's availability to make sure it is available.	• CartAdd • CartCreate • CartModify
AWS.ECommerceService.NoExactMatches	We did not find any matches for your request.	• ItemSearch • ListSearch • CustomerContentSearch
AWS.ECommerceService.NoSimilarities	There are no similar items for this ASIN(s): *[ItemID]*.	• SimilarityLookup

Best Programming Practices

Topics

The following checklist of best practices describes how you can increase the effectiveness of your Amazon Associates Web Service (Amazon Associates Web Service) 4.0 applications.

Read the Amazon Associates Web Service Terms and Conditions

The Amazon Associates Web Service Terms and Conditions spell out in detail the limitations that Amazon enforces on all Amazon Associates Web Service applications. The thrust of all Amazon Associates Web Service applications should be to direct sales to Amazon and thus earn Associate sales commissions. If your application is designed around another purpose, please reconsider and make sure your proposed Amazon Associates Web Service application falls within the guidelines of the Amazon Associates Web Service Terms and Conditions. Applications that do not meet the Amazon Associates Web Service Terms and Conditions will be blocked from accessing Amazon Associates Web Service.

Use the Latest API Version

Amazon Associates Web Service makes frequent releases. Each release either adds functionality or increases the accuracy, speed, and stability of Amazon Associates Web Service. Most releases do all of these. Go to http://aws.amazon.com/resources frequently for documentation about the latest release.

To use the latest version of the API, you must include the *Version* parameter in your requests. Otherwise, Amazon Associates Web Service uses the default API version, which is from 2005-10-05.

Amazon Associates Web Service 3.0 has been deprecated and will be shut down at the end of March 2008. Make sure you develop against Amazon Associates Web Service 4.0.

Understand Available Operations

Amazon Associates Web Service provides many different operations to facilitate product discovery. Using the right operations can dramatically enhance your customer's shopping experience and increase your Associate commissions. See the API Reference for a full description of all Amazon Associates Web Service operations. Some enable you to:

Task	Operations
Find products and categories	`ItemSearch`, `ItemLookup`, and `BrowseNodeLookup`
Find similar items	`SimilarityLookup`, `TagLookup`

Task	Operations
View wishlists and registries	`ListLookup`
Provide shopping cart functionality for your application or web site	`CartCreate`, `CartAdd`, `CartModify`, and `CartGet`

Use the Right Response Group

One of the great features of Amazon Associates Web Service is the control you have over the amount of information returned in responses. A response group is a collection of data returned by Amazon Associates Web Service. Amazon Associates Web Service has over 55 response groups, each serving a different need. So, you can get exactly the information you need and no more.

We recommend that you specify response groups that return only the information your application needs. Response groups, such as Large, ItemAttributes, and MerchantItemAttributes, return lots of data. Such large data sets sometimes incur performance penalties both in Amazon Associates Web Service fulfilling the request and in your application's processing of the response.

Use Your Associate Tag in Amazon Associates Web Service Requests

To earn commissions for selling Amazon items, you must register with Amazon as an Associate. Go to http://amazon.com/associates. In return, you receive an Associate tag, which identifies you. By including your Associate tag in each Amazon Associates Web Service request, you receive commissions for customer purchases.

Amazon also uses your Associate tag to monitor your use of Amazon Associates Web Service, which helps us determine how to improve our web service.

Handling Errors

Make sure your application handles errors gracefully. One way to do that is to check the status of the `IsValid` element. `IsValid` is returned with every request. If its value is "False," there will be an error message with a description of why your request was not valid.

It's generally a good practice to log any unexpected error that is returned by Amazon Associates Web Service. Errors are returned with an error code and message. The code is a descriptive string that identifies the error. The error message is a more 'human friendly' message that can be displayed to your customers. Your application should be able to handle expected error messages.

Your application, for example, should display error messages that are meaningful to the customer. For example, when Amazon Associates Web Service responds with the error, "AWS.ECommerceService.NoExactMatches," your application should display an explanation, such as, "We did not find any matches for your request."

If your application exceeds the number of allowed requests submitted per second, Amazon Associates Web Service returns a 503 error, which means that Amazon Associates Web Service is restricting the number of requests it is processing from your application. The Amazon Associates Web Service Terms and Conditions outline the number of allowed requests permitted per second.

Use Caches Carefully

Amazon Associates Web Service product data changes often. Prices can change hourly, Browsenode

values change without notice, and product availability is volatile. For these reasons, you should not cache product data.

It is against the Amazon Associates Web Service Terms and Conditions to cache customer information derived from Amazon.

You can enhance the performance of your application by caching identifiers, such as the *CartId*, *HMAC*, and *PurchaseURL*.

Use the Correct AWSAccessKeyId

To become an Amazon Associates Web Service developer, you must register with Amazon. Go to http://aws.amazon.com and create a web service account. Your account contains an *AWSAccessKeyId* and a *SecretKey*. Every Amazon Associates Web Service request you submit must include the *AWSAccessKeyId*. Because your account is linked to your e-mail address, Amazon can contact you easily

Community Forums

Amazon Associates Web Service has an active and passionate developer community. It's a great place to get API questions answered or share ideas with other developers. To join, go to http://developer.amazonwebservices.com/connect/forum.jspa?forumID=9

Locale Considerations

Topics

- Locales
- General Differences
- Associate IDs
- Shipping Restrictions

As you have seen throughout the previous chapters, there are subtle differences in Amazon Associates Web Service functionality across locales. The operations are the same for all locales but the valid response groups, search indices, and sort values vary from one locale to another. These differences are captured in the appendices of this manual.

This chapter discusses locale considerations in the following sections.

Locales

Amazon is a world-wide venture. Amazon Associates Web Service is as well. As you saw in earlier chapters, Amazon Associates Web Service operates in six locales:

- CA
- DE
- FR
- JP
- UK
- US

Each of these locales is serviced by an Amazon web site that uses the local language, local customs, and local formatting. For example, when you look at the DE homepage for Amazon, you see the listings in

German. If you purchased an item, you would find the price in Euros, and, if you were to purchase a movie, you would find that the movie rating would conform to the movie rating system used in Germany. Amazon Associates Web Service responses contain the same localized information. Amazon Associates Web Service determines the correct locale by examining the endpoint in the request. For example, the endpoints for the DE locale are:

```
http://ecs.amazonaws.de/onca/xml
https://ecs.amazonaws.de/onca/xml
```

For a list of the other endpoints, see REST Requests.

Currency, for example is localized, as follows.

```
<SubTotal>
  <Amount>4082</Amount>
  <CurrencyCode>USD</CurrencyCode>
  <FormattedPrice>$40.82</FormattedPrice>
</SubTotal>
```

The values for *CurrencyCode* are similar to the names of Amazon Associates Web Service locales. In the preceding example, the currency is formatted according to the conventions in the US locale.

General Differences

Each locale serves a different segment of the world population. As a result, the items sold by Amazon vary to the demands of the customers. In addition to Amazon web sites being localized by language, custom, and formatting conventions, the locales vary in many ways, as described in the following table.

Difference	Description
Items for sale.	The selection of DVDs, for example, sold in the JP locale are different than those sold in the DE locale. The same is true for books. Not only are the languages of the books different, the selection of books varies by locale.
Customer feedback.	Amazon encourages customers to share their feedback on items, sellers and merchants. Customer reviews are restricted to the locale in which they are entered.
Sellers and merchants.	Sellers and merchants can do business in multiple locales but they don't have to. As a result, items from a seller might be available in only one locale. The largest merchants, beside Amazon, are available in the US locale only.
Customer accounts	Customer accounts are restricted to a locale. A customer can create accounts in every locale.
Item identifiers	Item identifiers, such as ASINs, are unique to a locale, that is, the same ASIN value can refer to different items in different locales.
Availability of some response groups	The availability of some response groups, sort parameters, and search indices varies by locale.

Associate IDs

To be an Associate, you must sign up in each locale in which you intend to do business. That means, for example, if you have an Associate ID for the US locale, you will not get credit if you submit a `PurchaseURL` in the DE locale. To get credit, you must get an Associate ID in the DE locale. For a list of web sites where you can register as an Associate, see Becoming an Associate.

Shipping Restrictions

Amazon places shipping restrictions based on item and locale. The sale of items must obey the rules and regulations of the host country. It is possible, for example, that a host country would restrict the sale of some electronic equipment to specific countries. Some locales restrict shipping to specified countries regardless of the item. For example, in the UK locale, shipping is restricted to Ireland, Scotland, and England.

Because Amazon is used to fulfill the orders, Amazon takes charge of restricting shipping. Your application or web site, however, should be aware of the shipping restrictions.

To see the latest details on shipping restrictions for each locale, go to *http://www.amazon.com/gp/help/customer/display.html?nodeId=468634*.

Shipping costs also play an important role in helping your customers purchase items for the lowest possible price. For example, Harry Potter books are available in all locales. A customer in the US could purchase a copy of a Harry Potter book from the UK locale. The shipping charges, however, would be significantly higher than if the same item were purchased through the US locale.

For more information about shipping, go to *http://www.amazon.com/gp/help/customer/display.html*.

API Reference

Topics

The following sections of the guide provide reference material for the Amazon Associates Web Service. For more information about any concepts or programming tasks associated with the reference material, refer to the previous chapters in this guide.

Operations

The following operations are available in the Amazon Associates Web Service.

• BrowseNodeLookup	• ItemSearch
• CartAdd	• ListLookup
• CartClear	• ListSearch
• CartCreate	• SellerListingLookup
• CartGet	• SellerListingSearch
• CartModify	• SellerLookup
• CustomerContentLookup	• SimilarityLookup
• CustomerContentSearch	• TagLookup
• Help	• TransactionLookup
• ItemLookup	

BrowseNodeLookup

Description

Given a browse node ID, `BrowseNodeLookup` returns the specified browse node's name, children, and ancestors. The names and browse node IDs of the children and ancestor browse nodes are also returned. `BrowseNodeLookup` enables you to traverse the browse node hierarchy to find a browse node.

As you traverse down the hierarchy, you refine your search and limit the number of items returned. For example, you might traverse the following hierarchy: DVD>Used DVDs>Kids and Family, to select out of all the DVDs offered by Amazon only those that are appropriate for family viewing. Returning the items associated with Kids and Family produces a much more targeted result than a search based at the level of Used DVDs.

Alternatively, by traversing up the browse node tree, you can determine the root category of an item. You might do that, for example, to return the top seller of the root product category using the *TopSeller* response group in an ItemSearch request.

You can use `BrowseNodeLookup` iteratively to navigate through the browse node hierarchy to reach the node that most appropriately suits your search. Then you can use the browse node ID in an `ItemSearch` request. This response would be far more targeted than, for example, searching through all of the browse nodes in a search index.

Availability

All locales

Request Parameters

Name	Description	Required
BrowseNodeId	A positive integer assigned by Amazon that uniquely identifies a product category. Type: String Default: None Valid Values:A positive integer.	Yes
ResponseGroup	Specifies the types of values to return. You can specify multiple response groups in one request by separating them with commas. Default: BrowseNodeInfo Valid Values: MostGifted | NewReleases | MostWishedFor | TopSellers	No

`BrowseNodeLookup` also accepts the parameters that all operations can use. For more information, see, Common Request Parameters

Response

Name	Description
Ancestors	Container object for a parent browse node.
BrowseNode	Container object for all browse node data, including browse node ID, browse node name, browse node children and ancestors.
BrowseNodeId	A positive integer that uniquely identifies a product group, such as Literature & Fiction: (17), Medicine: (13996), and Mystery & Thrillers: (18).
Children	Container for one or more browse nodes, which are the children of the browse node submitted in the request.
Name	Name of the BrowseNode, for example, the name of BrowseNode 17 is Literature & Fiction.

For more information about the parent elements of these tags, see the appropriate response group in Response Groups

Examples

Use `BrowseNodeLookup` iteratively to navigate through the hierarchy of browse nodes. In this way, customers can refine their searches, for example.

```
DVD>Actors & Actresses>Steve Martin
DVD>Used DVDs>Kids & Family
```

The first hierarchy narrows the search down to DVDs in which Steve Martin plays a part. The second hierarchy narrows the list of DVDs down to those that are suitable for Kids and Family. This node, for example, might contain thirty such DVD titles.

The following request returns the name, parent, and children of the browse node for DVD comedies (163357)

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=BrowseNodeLookup&
BrowseNodeId=163357
```

The response to this request is shown in Sample Response.

Use the NewReleases response group to display the newly released items for a specified browse node:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=BrowseNodeLookup&
BrowseNodeId=163357&
ResponseGroup=NewReleases
```

Sample Response

The following XML is a snippet of the full response to the first sample request.

```
<BrowseNode>
  <BrowseNodeId>163357</BrowseNodeId>
    <Name>Comedy</Name>
    <Children>
    <BrowseNode>
       <BrowseNodeId>599826</BrowseNodeId>
       <Name>Boxed Sets</Name>
    </BrowseNode>
    <BrowseNode>
       <BrowseNodeId>538712</BrowseNodeId>
       <Name>African American Comedy</Name>
    </BrowseNode>
    <BrowseNode>
       <BrowseNodeId>163358</BrowseNodeId>
       <Name>Animation</Name>
    </BrowseNode>
    <BrowseNode>
       <BrowseNodeId>720556</BrowseNodeId>
       <Name>Black Comedy</Name>
    </BrowseNode>
    <BrowseNode>
       <BrowseNodeId>291102</BrowseNodeId>
       <Name>British</Name>
    </BrowseNode>
  </Children>
  <Item>
    <Ancestors>
      <BrowseNode>
        <BrowseNodeId>549726</BrowseNodeId>
        <Name>Performing Arts</Name>
        <Ancestors>
          <BrowseNode>
            <BrowseNodeId>5</BrowseNodeId>
            <Name>Entertainment</Name>
            <Ancestors>
              <BrowseNode>
                <BrowseNodeId>1000</BrowseNodeId>
                <Name>Subjects</Name>
                <Ancestors>
                  <BrowseNode>
                    <BrowseNodeId>1000</BrowseNodeId>
                    <Name>Books</Name>
```

This response shows that the browse node, Comedy, which is specified in the request, has five direct descendants (Boxed Sets, African American Comedy, Animation, Black Comedy, and British) and its ancestors are Books>Subjects>Entertainment>Performing>Comedy.

Related Operations

- ItemSearch
- ItemLookup using the BrowseNodes response group

CartAdd

Description

The `CartAdd` operation enables you to add items to an existing remote shopping cart. `CartAdd` can only be used to place a new item in a shopping cart. It cannot be used to increase the quantity of an item already in the cart. If you would like to increase the quantity of an item that is already in the cart, you must use the `CartModify` operation.

You add an item to a cart by specifying the item's *OfferListingId*, or *ASIN* and *ListItemId*. Once

in a cart, an item can only be identified by its *CartItemId*. That is, an item in a cart cannot be accessed by its ASIN or *OfferListingId*. *CartItemId* is returned by CartCreate, CartGet, and CartAdd.

To add items to a cart, you must specify the cart using the *CartId* and *HMAC* values, which are returned by the CartCreate operation.

If the associated CartCreate request specified an *AssociateTag*, all CartAdd requests must also include a value for Associate Tag otherwise the request will fail.

Availability

All locales.

Request Parameters

Name	Description	Required
ASIN	Specifies ASIN of item to be added to the cart where N is a positive integer between 1 and 10, inclusive. Up to ten items can be added at a time. Using an item's *OfferListingId* is preferred instead of the item's ASIN. Type: String Default: None Valid Values: Valid ASIN Constraint: Required if an OfferListingId is not specified.	Conditional
CartId	Alphanumeric token returned by CartCreate that identifies a cart. Type: String Default: None Valid Values: Value returned by CartCreate.	Yes
HMAC	The Hash Message Authentication Code is an encrypted alphanumeric token that is used to authenticate requests. Type: String Default: None Valid Values: Value is calculated using request parameters, their values, a cryptographic function, and the Secret Key, which acts as the "key" for the function.	Yes
Item	Container for *ASIN* or *OfferListingId*, and *Quantity*. This is a SOAP only parameter. Valid Values: An *ASIN* or an *OfferListingId* is	Yes (SOAP only)

Name	Description	Required
	required.	
Items	Container for one or more *Item*(s). This is a SOAP only parameter. Valid Values: Item	Yes (SOAP only)
ListItemId	The *ListItemId* value is returned by the ListItems response group. The value identifies an item on a list, such as a wishlist. To add this item to a cart, you must include in the CartAdd request the item's ASIN and *ListItemId*. The *ListItemId* attaches the name and address of the list owner, which the ASIN alone does not. Type: String Default: None Valid Values: An alphanumeric identity returned by the ListItems Response Group.	No
MergeCart	A boolean value that when True specifies that the items in a customer's remote shopping cart are added to the customer's Amazon retail shopping cart. This occurs when the customer elects to purchase the items in their remote shopping cart. When the value is False (the default) the remote shopping cart contents are not added to the retail shopping cart. Instead, the customer is sent directly to the Order Pipeline when they elect to purchase the items in their cart. This parameter is valid only in the US locale. In all other locales, the parameter is invalid but the request behaves as though the value were set to True. Type: String Default: False (in US) Valid Values: True | False	No
OfferListingId	An offer listing ID is a token that uniquely identifies an item that is sold by any merchant, including Amazon. This parameter is preferred to using an ASIN to add an item to a cart. Type: String Default: None Valid Values: Valid offer listing ID Constraint: Required if ASIN is not offered .	Conditional
Quantity		Conditional

Name	Description	Required
	Specifies number of items to be added to the cart where N is a positive integer. The Quantity value is matched to the Item.N.ASIN value by the index number, N. For example, Item.1.ASIN is associated with Item.1.Quantity. Type: String Default: None Valid Values: Positive integer between 1 and 999, inclusive. Conditional Required for REST	
ResponseGroup	Specifies the types of values to return. You can specify multiple response groups in one request by separating them with commas. Type: String Default: Cart Valid Values: CartSimilarities | CartTopSellers | NewReleases	No

CartAdd also accepts the parameters that all operations can use. For more information, see, Common Request Parameters

Response

Name	Description
Amount	Price of the item in terms of the lowest currency denomination, for example, pennies.
ASIN	An alphanumeric token that uniquely identifies an item sold by Amazon.
CartAddRequest	Container for *CartId*, *HMAC*, and *Items*.
CartId	Alphanumeric token returned by CartCreate that identifies a cart.
CurrencyCode	Format for the display of the money
FormattedPrice	The price to display on the web site.
HMAC	Hash Message Authentication Code returned by CartCreate that identifies a cart. This is an encrypted alphanumeric token that is used to authenticate cart operations.
Item	Container for *ASIN* or *OfferListingId*, and *Quantity*.
Items	Container for one or more item(s).

Name	Description
PurchaseURL	URL that customers should use to purchase the items in the cart. It includes the Associate's ID. It is important that they use this URL otherwise the Associate will not get credit for the purchase. *AssociateTag* is an optional parameter in `CartCreate`. If you include it in the `CartCreate` request, *AssociateTag* will automatically be included in the *PurchaseURL*. If you omit *AssociateTag* in `CartCreate` and want to add it, you will have to manually add the parameter to the *PurchaseURL* value.
Quantity	Number of items added to cart.
Subtotal	Container for Amount, CurrencyCode, and FormattedPrice

For more information about the parent elements of these tags, see the appropriate response group in Response Groups

Examples

Add a single item to the cart:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
CartId=[CartId]&
HMAC=[HMAC]&
Operation=CartAdd&
Item.1.OfferListingId=[Offer Listing ID]&

Item.1.Quantity=1
```

The response to this request is shown in, Response to Sample Request.

Add multiple items to the cart.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
CartId=[CartId]&
HMAC=[HMAC]&
Operation=CartAdd&
Item.1.OfferListingId=[Offer Listing ID]&
Item.1.Quantity=1&
Item.2.OfferListingId=[Offer Listing ID]&
Item.2.Quantity=3&
Item.3.OfferListingId=[Offer Listing ID]&
Item.3.Quantity=1
```

This request adds three different items to a cart. A cart can carry up to fifty different items and each item can have a maximum *Quantity* value of 99..

Add to the cart an item from a list.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
CartId=[CartId]&
HMAC=[HMAC]&
Operation=CartAdd&
Item.1.ASIN=[ASIN]&
```

```
Item.1.Quantity=3&
Item.1.ListItemId=[List item ID]
```

This request adds 3 items from a list.

Sample Response

The following XML is a snippet of the full response to the first sample request.

```
<CartAddRequest>
  <CartId>102-6666665-5792105</CartId>
  <HMAC>oRqNBTpiRBugxEKEJ+FyUZkVbEg=</HMAC>
  <Items>
    <Item>
      <ASIN>1400042127</ASIN>
      <Quantity>1</Quantity>
    </Item>
  </Items>
</CartAddRequest>
</Request>
  <CartId>102-6666665-5792105</CartId>
  <HMAC>oRqNBTpiRBugxEKEJ+FyUZkVbEg=</HMAC>
  <URLEncodedHMAC>oRqNBTpiRBugxEKEJ%2BFyUZkVbEg=</URLEncodedHMAC>
<PurchaseURL>https://www.amazon.com/gp/cart/aws-merge.html?cart-id=102-592903
5-5792105%26associate-id=ws%26hmac=oRqNBTpiRBugxEKEJ%2BFyUZkVbEg=%26AWSAccess
KeyId=[AWS Access Key ID]%26MergeCart=False</PurchaseURL>
  <SubTotal>
    <Amount>3432</Amount>
    <CurrencyCode>USD</CurrencyCode>
    <FormattedPrice>$34.32</FormattedPrice>
  </SubTotal>
```

Related Operations

- CartCreate
- CartGet
- CartModify
- CartClear

CartClear

Description

The `CartClear` operation enables you to remove all of the items in a remote shopping cart, including SavedForLater items. To remove only some of the items in a cart or to reduce the quantity of one or more items, use `CartModify`.

To delete all of the items from a remote shopping cart, you must specify the cart using the `CartId` and `HMAC` values, which are returned by the CartCreate operation. A value similar to the HMAC, `URLEncodedHMAC`, is also returned. This value is the URL encoded version of the `HMAC`. This encoding is necessary because some characters, such as + and /, cannot be included in a URL. Rather than encoding the `HMAC` yourself, use the `URLEncodedHMAC` value for the `HMAC` parameter.

`CartClear` does not work after the customer has used the `PurchaseURL` to either purchase the items or merge them with the items in their Amazon cart.

Carts exist even though they have been emptied. The lifespan of a cart is 7 days since the last time it was acted upon. For example, if a cart created 6 days ago is modified, the cart lifespan is reset to 7 days.

Availability

All locales.

Request Parameters

Name	Description	Required
AssociateTag	Alphanumeric token that uniquely identifies an Associate. This value is required only if the cart was created using the *AssociateTag*. Valid Values: Valid *AssociateTag* that was used in the related `CartCreate` request.	Depends
CartId	Alphanumeric token returned by `CartCreate` that identifies a cart. Type: String Default: None Valid Values: Value returned by `CartCreate`.	Yes
HMAC	The Hash Message Authentication Code is an encrypted alphanumeric token that is used to authenticate requests. Type: String Default: None Valid Values: Value is calculated using request parameters, their values, a cryptographic function, and the Secret Key, which acts as the "key" for the function.	Yes
MergeCart	A boolean value that when True specifies that the items in a customer's remote shopping cart are added to the customer's Amazon retail shopping cart. This occurs when the customer elects to purchase the items in their remote shopping cart. When the value is False (the default) the remote shopping cart contents are not added to the retail shopping cart. Instead, the customer is sent directly to the Order Pipeline when they elect to purchase the items in their cart. This parameter is valid only in the US locale. In all other locales, the parameter is invalid but the request behaves as though the value were set to True. Type: String Default: False (in US) Valid Values: True | False	No
ResponseGroup		No

Name	Description	Required
	Specifies the types of values to return. You can specify multiple response groups in one request by separating them with commas. Type: String Default: Cart	

CartClear also accepts the parameters that all operations can use. For more information, see, Common Request Parameters.

Response

Name	Description
Cart	Container for remote shopping cart related response elements.
CartClearRequest	Container for *CartClear* and *HMAC*.
CartId	Alphanumeric token returned by CartCreate that uniquely identifies a cart.
HMAC	Hash Message Authentication Code returned by CartCreate that identifies a cart. This is an encrypted alphanumeric token that is used to authenticate cart operations.
URLEncodedHMAC	URL encoded version of the *HMAC*. This encoding is necessary because some characters, such as + and /, cannot be included in a URL.

For more information about the parent elements of these tags, see the appropriate response group in Response Groups

Examples

Remove all items from a specified cart:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateTag=[Associate Tag]&
Operation=CartClear&
CartId=[Cart ID]&
HMAC=[URL-encoded HMAC]
```

This operation removes all of the items in the specified cart. Because the *HMAC* includes the *AssociateTag*, if you created the cart using *AssociateTag*, you must supply it in this request.

The response to this request is shown in, Response to Sample Request.

Sample Response

The following XML is a snippet of the full response to the first sample request.

```
<Cart>
  <Request>
    <IsValid>True</IsValid>
    <CartClearRequest>
      <CartId>102-2689399-8023324</CartId>
      <HMAC>iLYO/W0hft0Te4uXAbMiBhs36T8=</HMAC>
    </CartClearRequest>
  </Request>
  <CartId>102-2689399-8023324</CartId>
  <HMAC>iLYO/W0hft0Te4uXAbMiBhs36T8=</HMAC>
  <URLEncodedHMAC>iLYO/W0hft0Te4uXAbMiBhs36T8=</URLEncodedHMAC>
</Cart>
```

Related Operations

- CartAdd
- CartCreate
- CartGet
- CartModify

CartCreate

Description

The `CartCreate` operation enables you to create a remote shopping cart. A shopping cart is the metaphor used by most e-commerce solutions. It is a temporary data storage structure that resides on Amazon servers. The structure contains the items a customer wants to buy. In Amazon Associates Web Service, the shopping cart is considered remote because it is hosted by Amazon servers. In this way, the cart is remote to the vendor's web site where the customer views and selects the items they want to purchase.

Once you add an item to a cart by specifying the item's *ListItemId* and ASIN, or *OfferListing* ID, the item is assigned a *CartItemId* and accessible only by that value. That is, in subsequent requests, an item in a cart cannot be accessed by its *ListItemId* and ASIN, or *OfferListingId*. *CartItemId* is returned by CartCreate , CartGet , and CartAdd .

Because the contents of a cart can change for different reasons, such as item availability, you should not keep a copy of a cart locally. Instead, use the other cart operations to modify the cart contents. For example, to retrieve contents of the cart, which are represented by *CartItemIds*, use CartGet .

Available products are added as cart items. Unavailable items, for example, items out of stock, discontinued, or future releases, are added as SaveForLaterItems. No error is generated. The Amazon database changes regularly. You may find a product with an offer listing ID but by the time the item is added to the cart the product is no longer available. The checkout page in the Order Pipeline clearly lists items that are available and those that are SaveForLaterItems.

It is impossible to create an empty shopping cart. You have to add at least one item to a shopping cart using a single `CartCreate` request. You can add specific quantities (up to 999) of each item.

`CartCreate` can be used only once in the life cycle of a cart. To modify the contents of the cart, use one of the other cart operations.

Carts cannot be deleted. They expire automatically after being unused for 7 days. The lifespan of a cart restarts, however, every time a cart is modified. In this way, a cart can last for more than 7 days. If, for example, on day 6, the customer modifies a cart, the 7 day countdown starts over.

Specifying the Items

In one `CartCreate` request, you can add up to ten items; the quantity of each item is set separately, as follows:

```
Item.1.OfferListingId=[Offer Listing ID]
Item.1.Quantity=3
Item.2.OfferListingId=[Offer Listing ID]
Item.2.Quantity=1
```

This code adds two items identified by their OfferListingIds and the quantity of each item is set to 3 and 1, respectively.

You can use any combination *ListItemId*s and *ASIN*s, or *OfferListingId*s in a single request to specify the items to add to a cart. You can only use one type of item identifier to add an item to a cart. You cannot, for example, use an *ASIN* and an *OfferListingId* in the same request to add the same item to a cart.

For more information the formatting used to add items to a cart, see CartAdd .

Availability

All locales.

Request Parameters

Name	Description	Required
ASIN	An alphanumeric token that uniquely identifies an item. Using OfferListingId is preferred instead of ASIN when adding items to a cart. Valid Values: ASIN Constraint: Required if OfferListingId is not used	Conditional
AssociateTag	An alphanumeric token that uniquely identifies an Associate. If this value is not included in the operation, the Associate will not get credit for the customer's purchase. if it is included, it must be included on all future cart operations associated with this cart. Type: String Default: None Valid Values: An Associate Tag.	No
Item	For REST, a prefix for *ASIN* and quantity, both of which are used to specify the item to add to the cart, for example, item.1.*ASIN*=1234abcd, item.1.quantity=2. Valid Values: Does not take a value. Type: String	Yes

Name	Description	Required
	Default: None	
Items	Container for one or more Item objects. This parameter is for SOAP only.	No
ListItemId	An alphanumeric token that uniquely identifies an item on a wishlist. This value is returned by the ListItem response group. The *ListItemId* attaches to the request the name and address of the list owner, which the *ASIN* alone does not. An *ASIN* or OfferListingId is still required in addition to *ListItemId*. Type: String Default: None Valid Values: An alphanumeric token returned by the ListItem Response Group.	No
MergeCart	A boolean value that when True specifies that the items in a customer's remote shopping cart are added to the customer's Amazon retail shopping cart. This occurs when the customer elects to purchase the items in their remote shopping cart. When the value is False the remote shopping cart contents are not added to the retail shopping cart. Instead, the customer is sent directly to the Order Pipeline when they elect to purchase the items in their cart. This parameter is valid only in the US locale. In all other locales, the parameter is invalid but the request behaves as though the value were set to True. Type: String Default: False (in US) Valid Values: True | False	No
OfferListingId	An offer listing ID is an alphanumeric token that uniquely identifies an item. Use the OfferListingId instead of an item's ASIN to add the item to the cart. Type: String Default: None Valid Values: An Offer Listing ID Constraint: Required if *ASIN* is not used.	Conditional
Quantity	The suffix used with Item to specify the number of items to be added to the cart, for example, Item.1.*ASIN*=0976925524	No

Name	Description	Required
	Item.1.Quantity=2. See *Item*. Type: String Default: None Valid Values: Positive integer	
ResponseGroup	Specifies the types of values to return. You can specify multiple response groups in one request by separating them with commas. Type: String Default: Cart Valid Values: CartSimilarities | CartTopSellers | CartNewReleases	No

CartCreate also accepts the parameters that all operations can use. For more information, see, Common Request Parameters.

Response

Name	Description
Amount	Price of the item in terms of the lowest currency denomination, for example, pennies.
ASIN	An alphanumeric token that uniquely identifies an item.
Cart	Container for all of the elements in the cart.
CartCreateRequest	Container for all of the items requested.
CartId	An alphanumeric token that uniquely identifies a cart. This value must be included in all future cart operations related to this cart.
CartItems	Container for purchase related information about each item in the cart
CurrencyCode	Locale of the sale that specifies the formatting of the price.
FormattedPrice	The price of the item as it should appear to the customer.
HMAC	An encoded value used to authenticate a request. This value must be included in all future cart operations related to this cart.
ItemTotal	Amount due for any number one kind of item.
PurchaseURL	The URL the customer should use to purchase the item. The URL includes the *AssociateTag* so that the Associate gets credit for the purchase.
Quantity	Number of individual items ordered.

Name	Description
SavedForLaterItems	Container object for items added to the cart that are currently unavailable.
SubTotal	Pre-tax and shipping subtotal of all items in the cart.
URLEncodedHMAC	A URL encoded version of the HMAC. The HMAC must be put in a URL and so it must be URL compliant. Use this value instead of the HMAC in all future requests related to this cart.

For more information about the parent elements of these tags, see the appropriate response group in Response Groups.

Examples

Create a remote shopping cart and add multiple items of varying quantities to it.

```
http:// ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateTag=[Associate Tag]&
Operation=CartCreate&
Item.1.ASIN=[ASIN]&
Item.1.Quantity=2&
Item.2.ASIN=[ASIN]&
Item.2.Quantity=7&
Item.3.ASIN=[ASIN]&
Item.3.Quantity=5
```

This request creates a remote shopping cart and adds three different items, 2 of the first item, 7 of the second item, and 5 of the third item. The response to this request is shown in, Response to Sample Request.

Create a shopping cart by adding items not necessarily sold by Amazon.

```
http:// ecs.amazonaws.com/onca/xml
?Service=AWSECommerceService&
AWSAccessKeyId=[Access Key ID]&
AssociateTag=[Associate Tag]&
Operation=CartCreate&
Item.1.OfferListingId=[Offer Listing ID]&
Item.1.Quantity=2&
Item.2.OfferListingId=[Offer Listing ID]&
Item.2.Quantity=7&
Item.3.OfferListingId=[Offer Listing ID]&
Item.3.Quantity=5
```

This request creates a remote shopping cart and adds three different items that are not sold by Amazon: 2 of the first item, 7 of the second item, and 5 of the third item. OfferListingId returns items for sale by all sellers and merchants, including Amazon.

Sample Response

The following XML is a snippet of the full response to the first sample request.

```
<Cart>
  <Request>
    <IsValid>True</IsValid>
    <CartCreateRequest>
      <Items>
```

```
            <Item>
               <ASIN>B000062TU1</ASIN>
               <Quantity>2</Quantity>
            </Item>
          </Items>
        </CartCreateRequest>
     </Request>
     <CartId>102-5014548-4857758</CartId>
     <HMAC>O2p9hhZwJShnp6ZDWvZDO6FhpAI=</HMAC>
     <URLEncodedHMAC>O2p9hhZwJShnp6ZDWvZDO6FhpAI=</URLEncodedHMAC>

<PurchaseURL>https://www.amazon.com/gp/cart/aws-merge.html?cart-id=102-501454
8-4857758%26associate-id=ws%26hmac=O2p9hhZwJShnp6ZDWvZDO6FhpAI=%26AWSAccessKe
yId=1VMEXAMPLEW9C02%26MergeCart=False</PurchaseURL>
     <SubTotal>
        <Amount>1994</Amount>
        <CurrencyCode>USD</CurrencyCode>
        <FormattedPrice>$19.94</FormattedPrice>
     </SubTotal>
     <CartItems>
        <SubTotal>
           <Amount>1994</Amount>
           <CurrencyCode>USD</CurrencyCode>
           <FormattedPrice>$19.94</FormattedPrice>
        </SubTotal>
        <CartItem>
           <CartItemId>U31XY1DHZEGCTB</CartItemId>
           <ASIN>B000062TU1</ASIN>
           <MerchantId>ATVPDKIKX0DER</MerchantId>
           <SellerId>A2R2RITDJNW1Q6</SellerId>
           <SellerNickname>Amazon.com, LLC</SellerNickname>
           <Quantity>2</Quantity>
           <Title>Harry Potter and the Sorcerer's Stone (Full Screen Edition)
(Harry Potter 1)</Title>
           <ProductGroup>DVD</ProductGroup>
           <Price>
              <Amount>997</Amount>
              <CurrencyCode>USD</CurrencyCode>
              <FormattedPrice>$9.97</FormattedPrice>
           </Price>
           <ItemTotal>
              <Amount>1994</Amount>
              <CurrencyCode>USD</CurrencyCode>
              <FormattedPrice>$19.94</FormattedPrice>
           </ItemTotal>
        </CartItem>
     </CartItems>
  </Cart>
```

Sample SavedForLaterItem XML Snippet

The following snippet from the XML response shows the addition of an item to a cart that is currently
unavailable. On the retail web site, these items are displayed as "Saved For Later."

```
<SavedForLaterItems>
  <SubTotal>
     <Amount>1288</Amount>
     <CurrencyCode>USD</CurrencyCode>
     <FormattedPrice>$12.88</FormattedPrice>
  </SubTotal>
  <SavedForLaterItem>
     <CartItemId>ULI7S9IYFJHX0</CartItemId>
     <ASIN>B0009GZV4A</ASIN>
     <MerchantId>ATVPDKIKX0DER</MerchantId>
     <SellerId>A2R2RITDJNW1Q6</SellerId>
     <Quantity>2</Quantity>
     <Title>Mark VII Men's Short Sleeve Golf Shirts with Tri -Colored Stripe
Trim</Title>
     <ProductGroup>Apparel</ProductGroup>
```

```
    <Price>
      <Amount>644</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$6.44</FormattedPrice>
    </Price>
    <ItemTotal>
      <Amount>1288</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$12.88</FormattedPrice>
    </ItemTotal>
  </SavedForLaterItem>
</SavedForLaterItems>
```

Related Operations

- CartAdd
- CartClear
- CartGet
- CartModify

CartGet

Description

The CartGet operation enables you to retrieve the IDs, quantities, and prices of all of the items, including SavedForLater items in a remote shopping cart.

Because the contents of a cart can change for different reasons, such as availability, you should not keep a copy of a cart locally. Instead, use CartGet to retrieve the items in a remote shopping cart.

To retrieve the items in a cart, you must specify the cart using the *CartId* and *HMAC* values, which are returned in the CartCreate operation. A value similar to HMAC, *URLEncodedHMAC*, is also returned. This value is the URL encoded version of the *HMAC*. This encoding is necessary because some characters, such as + and /, cannot be included in a URL. Rather than encoding the *HMAC* yourself, use the *URLEncodedHMAC* value for the *HMAC* parameter.

CartGet does not work after the customer has used the *PurchaseURL* to either purchase the items or merge them with the items in their Amazon cart.

If the associated CartCreate request specified an *AssociateTag*, all CartGet requests must also include a value for *AssociateTag* otherwise the request will fail.

Availability

All locales.

Request Parameters

Name	Description	Required
AssociateTag	Alphanumeric token that uniquely identifies an Associate. This value is required only if the cart was created using an *AssociateTag*.	Conditional

Name	Description	Required
	Type: String Default: None Valid Values: A valid *AssociateTag* that was used in the related `CartCreate` request. Constraint: If you create a cart using your AssociateTag, you must include it in all future requests related to that shopping cart.	
CartId	Alphanumeric token returned by `CartCreate` that identifies a cart. Type: String Default: None Valid Values: Value returned by `CartCreate`	Yes
CartItemId	Alphanumeric token that uniquely identifies an item in a cart. Once an item, specified by an ASIN or OfferListingId, has been added to a cart, you must use the *CartItemId* to refer to it. The other identifiers will not work. Type: String Default: None Valid Values: Value returned by `CartCreate`	Yes
HMAC	The Hash Message Authentication Code is an encrypted alphanumeric token that is used to authenticate requests. Type: String Default: None Valid Values: Value is calculated using request parameters, their values, a cryptographic function, and the Secret Key, which acts as the "key" for the function.	Yes
MergeCart	A boolean value that when True specifies that the items in a customer's remote shopping cart are added to the customer's Amazon retail shopping cart. This occurs when the customer elects to purchase the items in their remote shopping cart. When the value is False (the default) the remote shopping cart contents are not added to the retail shopping cart. Instead, the customer is sent directly to the Order Pipeline when they elect to purchase the items in their cart. This parameter is valid only in the US locale. In all other locales, the parameter is invalid	No

Name	Description	Required
	but the request behaves as though the value were set to True. Type: String Default: False (in US) Valid Values: True | False	
ResponseGroup	Specifies the types of values to return. You can specify multiple response groups in one request by separating them with commas. Type: String Default: Cart Valid Values: CartSimilarities | CartTopSellers | CartNewReleases	No

`CartGet` also accepts the parameters that all operations can use. For more information, see, Common Request Parameters

Response

Name	Description
Amount	Price of the item in terms of the lowest currency denomination, for example, pennies.
CartId	Alphanumeric token returned by `CartCreate` that identifies a cart.
CartItem	Container for CartItemId, ASIN, MerchantId, SellerId, SellerNickname, Quantity, Title, ProductGroup, Price, ItemTotal
CartItems	Container for Subtotal and CartItem
CurrencyCode	Format for the display of the money
FormattedPrice	The price to display on the web site.
HMAC	Hash Message Authentication Code returned by `CartCreate` that identifies a cart. This is an encrypted alphanumeric token that is used to authenticate cart operations.
ItemTotal	Container for Amount, CurrencyCode, FormattedPrice. Cost of the item multiplied by the quantity ordered.
Price	Container for Amount, CurrencyCode, FormattedPrice. Price of a single item.
PurchaseURL	URL that customers should use to purchase the items in their cart. The URL includes the Associate's ID, called the Associate Tag. It is important to use the PurchaseURL otherwise the Associate will not get credit for the customer's purchase. `AssociateTag` is an optional

Name	Description
	parameter in `CartCreate` but if you omit that parameter the the `CartCreate` request, you must add the Associate's ID manually to the *PurchaseURL*.
Subtotal	Container for Amount, CurrencyCode, and FormattedPrice. Subtotal is the total price of all of the items in a car butt not including tax or shipping.
URLEncodedHMAC	A URL encoded version of the *HMAC*. This encoding is necessary because some characters, such as + and /, cannot be included in a URL. The value of this parameter is a convenience function. Otherwise, you would have to URL encode the HMAC yourself.

For more information about the parent elements of these tags, see the appropriate response group in Response Groups

Examples

Retrieve all of the items in a specified cart:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateTag=[Associate Tag]&
Operation=CartGet&
CartId=[Cart ID]&
HMAC=[URL-encoded HMAC]
```

This operation retrieves all of the items in the specified remote shopping cart. Because the *HMAC* potentially includes the *AssociateTag*, if you created the cart using *AssociateTag*, you must supply it in this request.

The response to this request is shown in, Response to Sample Request.

Sample Response

The following XML is a snippet of the full response to the first sample request.

```
<CartId>002-9918938-1696046</CartId>
  <HMAC>b0ogzvivVYLXjSZ9WwoBRFesFYU=</HMAC>
<URLEncodedHMAC>b0ogzvivVYLXjSZ9WwoBRFesFYU=</URLEncodedHMAC>
<PurchaseURL>https://www.amazon.com/gp/cart/aws-merge.html?cart-id=002-991893
8-1696046%26associate-id=ws%26hmac=b0ogzvivVYLXjSZ9WwoBRFesFYU=%26AWSAccessKe
yId=1V293857EXAMPLEFW9C02%26MergeCart=False</PurchaseURL>
  <SubTotal>
    <Amount>1994</Amount>
    <CurrencyCode>USD</CurrencyCode>
    <FormattedPrice>$19.94</FormattedPrice>
  </SubTotal>
  <CartItems>
    <SubTotal>
      <Amount>1994</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$19.94</FormattedPrice>
    </SubTotal>
    <CartItem>
      <CartItemId>U3KYV0C66V3PAA</CartItemId>
      <ASIN>B000062TU1</ASIN>
      <MerchantId>ATVPDKIKX0DER</MerchantId>
```

```
        <SellerId>A2R2RITDJNW1Q6</SellerId>
        <SellerNickname>Amazon.com, LLC</SellerNickname>
        <Quantity>2</Quantity>
        <Title>Harry Potter and the Sorcerer's Stone (Full Screen Edition)
(Harry Potter 1)</Title>
        <ProductGroup>DVD</ProductGroup>
        <Price>
          <Amount>997</Amount>
          <CurrencyCode>USD</CurrencyCode>
          <FormattedPrice>$9.97</FormattedPrice>
        </Price>
        <ItemTotal>
          <Amount>1994</Amount>
          <CurrencyCode>USD</CurrencyCode>
          <FormattedPrice>$19.94</FormattedPrice>
        </ItemTotal>
      </CartItem>
    </CartItems>
</Cart>
```

This response shows all of the items in the specified cart.

Related Operations

- CartAdd
- CartClear
- CartCreate
- CartModify

CartModify

Description

The `CartModify` operation enables you to change the quantity of items that are already in a remote shopping cart, move items from the active area of a cart to the SaveForLater area or the reverse, and change the `MergeCart` setting.

To modify the number of items in a cart, you must specify the cart using the `CartId` and `HMAC` values that are returned in the CartCreate operation. A value similar to `HMAC`, `URLEncodedHMAC`, is also returned. This value is the URL encoded version of the `HMAC`. This encoding is necessary because some characters, such as + and /, cannot be included in a URL. Rather than encoding the `HMAC` yourself, use the `URLEncodedHMAC` value for the `HMAC` parameter.

You can use `CartModify` to modify the number of items in a remote shopping cart by setting the value of the `Quantity` parameter appropriately. You can eliminate an item from a cart by setting the value of the `Quantity` parameter to zero. Or, you can double the number of a particular item in the cart by doubling its `Quantity`. You cannot, however, use `CartModify` to add new items to a cart.

If the associated CartCreate request specified an `AssociateTag`, all `CartModify` requests must also include a value for Associate Tag otherwise the request will fail.

Availability

All locales.

Request Parameters

Name	Description	Required
Action	The Action parameter is a child element of the Item parameter in both SOAP requests. Use the Action parameter to change cart items to move items to the Saved-For-Later area, or change Saved-For-Later (SaveForLater) items to the active cart area (MoveToCart). Type: String Default: None Valid Values: MoveToCart | SaveForLater	No
CartId	Alphanumeric token returned by CartCreate that identifies a cart. Type: String Default: None Valid Values: Value returned by CartCreate.	Yes
CartItemId	Specifies an item to be modified in the cart where N is a positive integer between 1 and 10, inclusive. Up to ten items can be modified at a time.*CartItemId* is neither an ASIN nor an OfferListingId. It is, instead, an alphanumeric token returned by CartCreate and CartAdd. This parameter is used in conjunction with *Item.N.Quantity* to modify the number of items in a cart. See Item, that follows, for more information. Type: String Default: None Valid Values: Value returned by CartCreate or CartAdd.	Yes
HMAC	The Hash Message Authentication Code is an encrypted alphanumeric token that is used to authenticate requests. Type: String Default: None Valid Values: Value is calculated using request parameters, their values, a cryptographic function, and the Secret Key, which acts as the "key" for the function. Value returned by CartCreate	Yes
ListItemId	The *ListItemId* parameter is returned by the ListItems response group. The parameter identifies an item on a list, such as a wishlist. To add this item to a cart, you must include in the CartCreate request the item's ASIN	No

Name	Description	Required
	and ListItemId. The ListItemId includes the name and address of the list owner, which the ASIN alone does not. Type: String Default: None Valid Values: An alphanumeric identity returned by the ListItems response group.	
Item	Specifies the item to modify. Typical construction is Item.1.CartItemId=[ID]; Item.1.Quantity=[number].	Yes
Items	Container for one or more Item objects. This is a SOAP only parameter. Valid Value: Item Constraint: Required and valid only for SOAP requests.	Conditional
MergeCart	A boolean value that when True specifies that the items in a customer's remote shopping cart are added to the customer's Amazon retail shopping cart. This occurs when the customer elects to purchase the items in their remote shopping cart. When the value is False (the default) the remote shopping cart contents are not added to the retail shopping cart. Instead, the customer is sent directly to the Order Pipeline when they elect to purchase the items in their cart. This parameter is valid only in the US locale. In all other locales, the parameter is invalid but the request behaves as though the value were set to True. Type: Boolean Default:False (in US) Valid Values: True | False	No
Quantity	Specifies the revised number of items that the customer would like in the cart where N is a positive integer. This parameter is used in conjunction with *Item.N.CartItemId* to modify the number of items in a cart. The Quantity value is matched to the Item.N.CartItemId value by the index number, N. For example, Item.1.CartItemId is associated with Item.1.Quantity. Type: Positive integer Type: String Default: None Constraint: N is a positive integer between 0 and 999, inclusive. Required with REST queries.	Conditional

Name	Description	Required
ResponseGroup	Specifies the types of values to return. You can specify multiple response groups in one request by separating them with commas. Type: String Default: Cart Valid Values:CartSimilarities	CartTopSellers	CartNewReleases	No

`CartModify` also accepts the parameters that all operations can use. For more information, see, Common Request Parameters

Response

Name	Description
CartId	Alphanumeric token returned by CartCreate that identifies a cart.
CartItemId	Specifies an item in a cart. *CartItemId* is neither an ASIN nor an OfferListingId. It is, instead, an alphanumeric token returned by CartCreate and `CartAdd`. Child of Item.
HMAC	Hash Message Authentication Code returned by CartCreate that identifies a cart. This is an encrypted alphanumeric token that is used to authenticate cart operations.
Item	For REST, a prefix for CartItemId and Quantity, both of which are used to specify the item to be modified, for example, item.1.CartItemId=1234abcd, item.1.Quantity=2 changes the quantity of item 1234abcd to 2.
Items	Container for Item when specifying more than one Item.
Quantity	The suffix used with Item to specify the number of items to be added to the cart. See Item.

For more information about the parent elements of these tags, see the appropriate response group in Response Groups

Examples

Increase the quantity of an item (Item.1) already in the cart and remove an item (Item.2).

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&amp;
AWSAccessKeyId=[AWS Access Key ID]&
AssociateTag=[Associate ID]&
Operation=CartModify&
CartId=[Cart ID]&
HMAC=[HMAC]&amp;
Item.1.CartItemId=[Cart Item ID]&
Item.1.Quantity=10&
```

```
Item.2.CartItemId=[Cart Item ID]&
Item.2.Quantity=0
```

Notice that items in the cart are referred to by *CartItemId*, not their *ASIN* or *OfferListingId*
CartItemId is returned by CartCreate , CartGet , and CartAdd . If you want to use CartModify
to modify the items in a cart, you must refer to the items using their *CartItemId*. You use CartGet to
retrieve the *CartItemId*s.

The response to this request is shown in, Response to Sample Request.

Move an item (Item.1) to the SaveForLater area in the cart and reduce then number of items (Item.2) to
1.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&amp;
AWSAccessKeyId=[AWS Access Key ID]&
AssociateTag=[Associate ID]&
Operation=CartModify&
CartId=[Cart ID]&
HMAC=[HMAC]&
Item.1.CartItemId=[Cart Item ID]&
Item.1.Action=SaveForLater
Item.2.CartItemId=[Cart Item ID]&
Item.2.Quantity=1
```

Change the *MergeCart* value to "True."

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateTag=[Associate ID]&
Operation=CartModify&
CartId=[Cart ID]&
HMAC=[HMAC]&
MergeCart=True
```

Because the *MergeCart* value pertains to all of the items in a cart, you do not need to specify the items
in the cart if all you want to do is change the value of *MergeCart*. Setting the value of *MergeCart* to
"True" changes the *PurchaseURL* value accordingly, which means that when the customer proceeds to
buying the items using the *PurchaseURL*, the contents of the remote shopping cart are added to
Amazon's local shopping cart, which is owned by the customer.

Sample Response

The following XML is a snippet of the full response to the first sample request.

```
<CartModifyRequest>
  <CartId>103-8104506-5223005</CartId>
  <HMAC>uiFluRr5yj+GGL3SvWD1mFDyvP0=</HMAC>
  <Items>
    <Item>
      <CartItemId>UQIKL90WK14UD</CartItemId>
      <Quantity>10</Quantity>
    </Item>
  </Items>
</CartModifyRequest>
```

Notice that the quantity of the item was changed to 10 (from 5). The rest of the CartModify request is
identical to the CartCreate response.

Related Operations

- CartAdd
- CartClear
- CartCreate
- CartGet

CustomerContentLookup

Description

For a given customer ID, the `CustomerContentLookup` operation retrieves all of the information a customer has made public about themselves on Amazon. Such information includes some or all of the following:

- AboutMe
- Birthday
- City, State and Country
- Customer Reviews
- Customer ID
- Name
- Nickname
- Wedding Registry
- WishList

To find a customer ID, use the `CustomerContentSearch` operation.

Availability

US, DE, FR, JP, and UK

Request Parameters

Name	Description	Required
CustomerId	An alphanumeric token assigned by Amazon that uniquely identifies a customer. Only one *CustomerId* can be submitted at a time in `CustomerContentLookup`. Type: String Default: None Valid Values: A valid customer ID.	Yes
ReviewPage	A positive integer that specifies the page of reviews to read. There are ten reviews per page. For example, to read reviews 11 through 20, specify ReviewPage=2. The total number of pages is returned in the TotalPages response tag. Type: String	No

Name	Description	Required
	Default: None	
TagPage	Specifies the page of results to return. There are ten results on a page. The maximum page number is 400. Type: String Default: None	No
TagsPerPage	The number of tags to return that are associated with a specified item. Type: String Default: None	No
TagSort	Specifies the sorting order for the results. Type: String Default: - Usages Valid Values: • FirstUsed-Sort by the date the item was first used. - FirstUsed-Sort by the date the item was last used. • LastUsed-Sort by the date the item was last used. - LastUsed-Sort by the date the item was first used. • Name-Alphabetical, A-Z. - Name-Alphabetical, Z-A. • Usages-Items least used to most used	No
ResponseGroup	Specifies the types of values to return. You can specify multiple response groups in one request by separating them with commas. Type: String Default: CustomerInfo Valid Values: CustomerReviews | CustomerLists | CustomerFull | TaggedGuides | TaggedItems | TaggedListmaniaLists | TagsSummary | Tags	No

`CustomerContentLookup` also accepts the parameters that all operations can use. For more information, see, Common Request Parameters

Response

Name	Description
Customer	Container for information about a Customer, for example, their

Name	Description
	NickName.
Customers	Container for Customer.
Nickname	The *NickName* the customer entered on their Your Account web page.
Tags	Container for Tag elements.

For more information about the parent elements of these tags, see the appropriate response group in Response Groups

Examples

Return public information about a customer.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateTag=[Associate ID]&
Operation=CustomerContentLookup&
CustomerId=[ID]
```

The response to this request is shown in, Response to Sample Request.

Find items tagged by a specific customer.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateTag=[Associate ID]&
ResponseGroup=Tags&
Marketplace=us&
Version=2008-01-01&
CustomerId=[Customer ID]&
TagsPerPage=2&
TagPage=2
```

Use the CustomerReviews response group to display reviews written by the customer.

Use the CustomerLists response group to display the customer's list IDs You can then use those IDs to display the customer's lists.

Use the CustomerFull response group to display all of the public information about a customer including the customer's birthday, the About Me message that appears on each Amazon customer's member page on Amazon, as well as all of the information returned by the CustomerInfo, CustomerLists, and CustomerReviews response groups.

Most of the customer's information, by default, is not available to CustomerContentLookup. Customers can use their Your Account page to make this information accessible. Public lists, however, such as a WishList, and Wedding Registry, are made public automatically when customers create them. Private information, including street addresses, e-mail addresses, account transactions, and billing information are never returned.

Sample Response

The amount of information returned by CustomerContentLookup varies according to the response

groups chosen and the amount of data made available by the customer. The following XML is a snippet of the full response to the first sample request.

```
<Customer>
  <CustomerId>[ID]</CustomerId>
  <CustomerReviews>
  <TotalReviews>8</TotalReviews>
  <TotalReviewPages>1</TotalReviewPages>
  <Review>
    <ASIN>6305692688</ASIN>
    <Rating>1</Rating>
    <HelpfulVotes>21</HelpfulVotes>
    <TotalVotes>35</TotalVotes>
    <Date>2000 02 29</Date>
    <Summary>one star is indeed one too many</Summary>
    <Content>Let's face facts. This is a terrible, terrible movie. Don't
waste your time or money.</Content>
  </Review>
</Customer>
```

Only the customer's nickname and location were made public by the customer. At this point, they have not created publicly-accessed lists, such as a Listmania list.

Related Operations

- CustomerContentSearch

CustomerContentSearch

Description

For a given customer e-mail address or name, the `CustomerContentSearch` operation returns matching customer IDs, names, nicknames, and residence information (city, state, and country). In general, supplying an e-mail address returns unique results whereas supplying a name more often returns multiple results.

Often you use `CustomerContentSearch` to find a customer ID that you can use in the `CustomerContentLookup` operation, which returns more extensive customer information.

Availability

US

Request Parameters

Name	Description	Required
CustomerPage	A positive integer that specifies the page of customer IDs to return. Up to twenty customer IDs are returned per page. Type: Positive integer Type: String Default: 1	Conditional

Name	Description	Required
	Valid Values: Integers 1 to 20. Constraint: Up to twenty pages of results can be viewed.	
e-mail	e-mail address of a customer whose ID you want to find. Type: String Default: None Valid Values: Valid e-mail address. Constraint: Either *e-mail* or *Name* are required.	Conditional
Name	A customer's name whose ID you want to find. To enter a first and last name, URL-encode the space in between with %20. Type: String Default: None Constraint: Either *e-mail* or *Name* are required.	Conditional
ResponseGroup	Specifies the types of values to return. You can specify multiple response groups in one request by separating them with commas. Type: String Default: CustomerInfo	No

CustomerContentSearch also accepts the parameters that all operations can use. For more information, see, Common Request Parameters

Response

Name	Description
City	City where the customer lives.
Country	The country in which the customer lives.
Customer	Container for information about a Customer, for example, their NickName.
Customers	Container for Customer.
Location	Container for the elements State and Country.
Nickname	The nickname of the customer.
State	State the customer specified.

For more information about the parent elements of these tags, see the appropriate response group in
Response Groups

Examples

Find a customer ID by supplying the customer's e-mail address.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateTag=[Associate ID]&
Operation=CustomerContentSearch&
e-mail=GeorgeWashington%40ISP.com
```

Note that the @ sign in the e-mail address is URL-encoded as %40. The response to this request is
shown in, Response to Sample Request.

Find a customer ID by supplying the customer's name.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateTag=[Associate ID]&
Operation=CustomerContentSearch&
Name=George%20Washington
```

Note that blank spaces must be URL-encoded, as shown in this example.

Sample Response

The following XML is a snippet of the full response to the first sample request.

```
<Customer>
  <CustomerId>A111111111</CustomerId>
</Customer>
<Customer>
  <CustomerId>A2222222222</CustomerId>
  <Nickname>WilliamShakespeare</Nickname>
  <Location>
    <City>London</City>
    <Country>England</Country>
  </Location>
</Customer>
```

This response shows that the customer has two IDs.

Related Operations

- CustomerContentLookup

Help

The Help operation provides information about Amazon Associates Web Service operations and
response groups. For operations, Help lists required and optional request parameters, as well as default
and optional response groups the operation can use. For response groups, Help lists the operations that
can use the response group as well as the response tags returned by the response group in the XML
response.

The `Help` operation is not often used in customer applications. It can, however, be used to help the developer in the following ways:

- Provide contextual help in an interactive development environment (IDE) for developers
- Automate documentation creation as part of a developer's toolkit.

Availability

All locales.

Request Parameters

The following table describes the request parameters for `Help`. Parameter names are case sensitive.

Parameter	Definition	Req'd?
About	Specifies the operation or response group about which you want more information. All Amazon Associates Web Service operations, all Amazon Associates Web Service response groups	No
HelpType	Specifies whether the help topic is an operation or response group. *HelpType* and *About* values must both be operations or response groups, not a mixture of the two. Valid Values: Operation, ResponseGroup	No
ResponseGroup	Specifies the types of values to return. You can specify multiple response groups in one request by separating them with commas. Default Value: Request	Help Valid Values: No others	No

`Help` also accepts the parameters that all operations can use. For more information, see, Common Request Parameters.

Response Tags

The following table describes the default response tags included in `Help` responses.

Element Tag	Definition
AvailableParameters	Optional request parameters an operation can use. See *RequiredParameters*.
AvailableResponseGroups	Optional response groups an operation can use. See *DefaultResponseGroup*.
DefaultResponseGroup	Response groups an operation uses by default. See .

Element Tag	Definition
Element	Names of the elements used in the XML response. The elements are presented in an X-path, which reveals the hierarchical structure of the XML elements as defined in the WSDL.
Elements	Container for one or more Element(s).
Name	Name of the operation in the `Help` request.
Operation	Name of Amazon Associates Web Service operation that can use the specified response group.
OperationInformation	Container for the entire response when the *HelpType* is operation. Child tags include Name, RequiredParameters, AvailableParameters, DefaultResponseGroups, and AvailableResponseGroups.
RequiredParameters	Request parameters that are required for an "operation."
ValidOperations	Container for one or more Operation(s). Specifies the operations that can use the specified response group.

For more information about the parent elements of these tags, see the appropriate response group in Response Groups.

Sample Requests

The following request provides information about the operation, `ItemLookup`. In the request, *HelpType* must be set to "Operation" because the *About* value is an operation.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=Help&
HelpType=Operation&
About=ItemLookup
```

The response to this request is shown in, Response to Sample Request.

The following request provides information about the Large response group. In the request, *HelpType* must be set to "ResponseGroup" because the *About* value is a response group.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=Help&
HelpType=ResponseGroup&
About=Large
```

Response to Sample Request

The following XML is a snippet of the full response to the first sample request.

```
<ResponseGroupInformation>
<Name>Large</Name>
  <CreationDate>2005-07-26</CreationDate>
  <ValidOperations>
  <Operation>ItemLookup</Operation>
  <Operation>ItemSearch</Operation>
  <Operation>ListLookup</Operation>
```

```
    <Operation>SimilarityLookup</Operation>
</ValidOperations>
<Elements>
  <Element>Accessories/Accessory/ASIN</Element>
  <Element>Accessories/Accessory/Title</Element>
  <Element>Arguments/Argument/Name</Element>
  <Element>Arguments/Argument/Value</Element>
  <Element>BrowseNode/Ancestors/BrowseNode/BrowseNodeId</Element>
  <Element>BrowseNode/Ancestors/BrowseNode/Name</Element>
  <Element>BrowseNode/BrowseNodeId</Element>
  <Element>BrowseNode/Children/BrowseNode/BrowseNodeId</Element>
  <Element>BrowseNode/Children/BrowseNode/Name</Element>
  <Element>BrowseNode/Name</Element>
  <Element>CustomerReviews/AverageRating</Element>
  <Element>CustomerReviews/Review/ASIN</Element>
  <Element>CustomerReviews/Review/Content</Element>
  <Element>CustomerReviews/Review/CustomerId</Element>
  <Element>CustomerReviews/Review/Date</Element>
  <Element>CustomerReviews/Review/HelpfulVotes</Element>
  <Element>CustomerReviews/Review/Rating</Element>
  <Element>CustomerReviews/Review/Summary</Element>
  <Element>CustomerReviews/Review/TotalVotes</Element>
  <Element>CustomerReviews/TotalReviewPages</Element>
  <Element>CustomerReviews/TotalReviews</Element>
  <Element>EditorialReviews/EditorialReview/Content</Element>
  <Element>EditorialReviews/EditorialReview/Source</Element>
  <Element>Errors/Error/Code</Element>
  <Element>Errors/Error/Message</Element>
```

Notice that `Help` displays the XML response elements in an X-path format. This presentation is helpful in understanding the hierarchy of response elements.

Related Operations

None

ItemLookup

Description

Given an Item identifier, the `ItemLookup` operation returns some or all of the item attributes, depending on the response group specified in the request. By default, `ItemLookup` returns an item's *ASIN*, *DetailPageURL*, *Manufacturer*, *ProductGroup*, and *Title* of the item.

`ItemLookup` supports many response groups, so you can retrieve many different kinds of product information, called item attributes, including product reviews, variations, similar products, pricing, availability, images of products, accessories, and other information.

To look up more than one item at a time, separate the item identifiers by commas.

Availability

All locales, however, the parameter support varies by locale.

Request Parameters

Name	Description	Required
Condition	Specifies an item's condition. If Condition is set to "All," a separate set of responses is returned for each valid	No

Name	Description	Required
	value of Condition. The default value is "New" (not "All"). So, if your request does not return results, consider setting the value to "All." When the value is "New," the ItemSearch Availability parameter cannot be set to "Available." Amazon only sells items that are "New." Type: String Default: New Valid Values: Used | Collectible | Refurbished, All	
IdType	Type of item identifier used to look up an item. All *IdTypes* except *ASINx* require a *SearchIndex* to be specified. SKU requires a *MerchantId* to be specified also. For more information, see Item Identifiers. Type: String Default: ASIN Valid Values: SKU | UPC | EAN | ISBN (US only, when search index is Books) | JAN. UPC is not valid in the CA locale.	No
ItemId	One or more (up to ten) positive integers that uniquely identify an item. The meaning of the number is specified by *IdType*. That is, if *IdType* is ASIN, the *ItemId* value is an ASIN. If *ItemId* is an ASIN, a search index cannot be specified in the request. Type: String Default: None Valid Values: Valid item ID. For more than one ID, use a comma-separated list of up to ten IDs.	Yes
MerchantId	Specifies the merchant who is offering the item. *MerchantId* is an alphanumeric identifier assigned by Amazon to merchants. Note that the default value is "Amazon." If your request does not generate results, consider setting the value to "All." Make sure to use a Merchant ID and not a Seller ID, which is not supported. Type: String Default: Amazon Valid Values: MerchantId--ID of a merchant | All--Includes Amazon and all other merchants |	No

Name	Description	Required
	Featured--Merchants listed when you click "Add to Cart"	
OfferPage	Page of offers returned by ItemLookup. There are 10 offers per page. To examine offers 11 trough 20, for example, set *OfferPage* to 2. Type: String Default: 1 Valid Values; Integer between 1 and 100, inclusive	No
RelatedItemsPage	This optional parameter is only valid when the *RelatedItems* response group is used. Each ItemLookup request can return, at most, ten related items. The RelatedItemsPage value specifies the set of ten related items to return. A value of 2, for example, returns the second set of ten related items	No
RelationshipType	This parameter is required when the *RelatedItems* response group is used. The type of related item returned is specified by the *RelationshipType* parameter. Sample values include Episode, Season, and Tracks. For a complete list of types, go to Relationship Types. Required when RelatedItems response group is used.	Yes
ReviewPage	Page of reviews returned by ItemLookup. There are 5 reviews per page. To examine reviews 6 through 10, for example, set *ReviewPage* to 2. Type: String Default: 1 Valid Values; Integer between 1 and 20, inclusive	No
ReviewSort	Specifies the order in which Reviews are sorted in the return. For more information, see Sorting Reviews Type: String Default: -SubmissionDate Valid Values: -HelpfulVotes | HelpfulVotes | -OverallRating | OverallRating | SubmissionDate	No
SearchIndex	The product category to search. Type: String Default: None Valid Values: A search index, for example, Apparel,	Conditional

Name	Description	Required
	Beauty, Blended, Books, and so forth. For a complete of search indices, see Search Indices. Constraint:If *ItemId*is an ASIN, a search index cannot be specified in the request. Required for for non-ASIN ItemIds.	
TagPage	Specifies the page of results to return. There are ten results on a page. Type: Integer Type: String Default: None Constraint: The maximum page number is 400.	No
TagsPerPage	The number of tags to return that are associated with a specified item. Type: Integer Type: String Default: None	No
TagSort	Specifies the sorting order for the results. Type: String Default: - Usages Valid Values: • FirstUsed-Sort by the date the item was first used. - FirstUsed • LastUsed-Sort by the date the item was last used. - LastUsed • Name-Alphabetical, A-Z. - Name • Usages-Items least used to most used To sort items in descending order, prefix the values with a negative sign (-).	No
VariationPage	Page number of variations returned by ItemLookup. By default, ItemLookup returns all variations. Use *VariationPage* to return a subsection of the response. There are 10 variations per page. To examine offers 11 trough 20, for example, set *VariationPage* to 2. Type: String	No

Name	Description	Required
	Default: All Valid Values: Integer between 1 and 150, inclusive	
ResponseGroup	Specifies the types of values to return. You can specify multiple response groups in one request by separating them with commas. Valid Values: Accessories	BrowseNodes	EditorialReview	Images	ItemAttributes	ItemIds	Large	ListmaniaLists	Medium	MerchantItemAttributes	OfferFull	Offers	PromotionDetails	PromotionSummary	OfferSummary| RelatedItems	Reviews	SalesRank	Similarities	Subjects	Tags	TagsSummary	Tracks	VariationImages	VariationMinimum	Variations (US only)	VariationSummary	No

`ItemLookup` also accepts the parameters that all operations can use. For more information, see, Common Request Parameters

Response

Name	Description
ASIN	Amazon Standard Identification Number, which is an alphanumeric token assigned by Amazon to an item that uniquely identifies it.
Item	Container for information about the item, including *DetailPageURL*, *ASIN*, *Title*, *ProductGroup*. and *Manufacturer*.
ItemAttributes	Container for information about an item, including *Title*, *ProductGroup*. and *Manufacturer*.
Items	Container for one or more Item(s).
Manufacturer	Name of the company that manufactured the item.
ProductGroup	Category of the item, for example, "Book," "DVD." You can find the complete list of product groups by going to www.amazon.com and clicking the tab that says "See All 32 Product Categories."
Title	Title of the item.

For more information about the parent elements of these tags, see the appropriate response group in Response Groups

Examples

The following request returns the information associated with *ItemId* B00008OE6I.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
```

```
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemLookup&
ItemId=B00008OE6I
```

The response to this request is shown in, Response to Sample Request.

The following request returns an offer for a refurbished item that is not sold by Amazon.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemLookup&
ItemId=B00008OE6I&
IdType=ASIN&
ResponseGroup=OfferFull&
Condition=All&
MerchantId=All
```

In this example, because the item is not sold by Amazon, the following values must be set: *Condition*=All and *MerchantId*=All or the ID of a specific merchant.

In the following request, the *ItemId* is an SKU, which requires that you also specify the *MerchantId* and *IdType*. A *MerchantId* value is required because the default value is "Amazon," and items for sale by Amazon are never identified by an SKU value.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemLookup&
ItemId=[SKU]&
MerchantId=[MerchantID]&
IdType=SKU
```

In the following request, the *ItemId* is a UPC, which requires that you also specify the *SearchIndex* and *ItemType*.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemLookup&
ItemId=[UPC]&
SearchIndex=Books&
&IdType=UPC
```

In the following request, the *ItemId* is an EAN, which requires that you also specify the *SearchIndex* and *ItemType*.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemLookup&
ItemId=[EAN]&
SearchIndex=Electronics&
IdType=EAN
```

Use the BrowseNodes response group to find the browse node of an item.

Use the Tracks response group to find the track, title, and number for each track on each CD in the response.

Use the Similarities response group to find the ASIN and Title for similar products returned in the

response.

Use the Reviews response group to find reviews written by customers about an item, and the total number of reviews for each item in the response.

Use the OfferSummary response group to find the number of offer listings and the lowest price for each of the offer listing condition classes, including New, Used, Collectible, and Refurbished.

Use the Accessories response group to find the a list of accessory product ASINs and Titles for each product in the response that has accessories.

Sample Response

The following code snippet is a response to the first request. It shows all of the item attributes that are returned by default.

```
<Items>
  <Request>
  <IsValid>True</IsValid>
  <ItemLookupRequest>
    <ItemId>B00008OE6I</ItemId>
  </ItemLookupRequest>
  </Request>
  <Item>
    <ASIN>B00008OE6I</ASIN>
<DetailPageURL>http://www.amazon.com/exec/obidos/redirect?tag=ws%26link_code=
xm2%26camp=2025%26creative=165953%26path=http://www.amazon.com/gp/redirect.ht
ml%253fASIN=B00008OE6I%2526tag=ws%2526lcode=xm2%2526cID=2025%2526ccmID=165953
%2526location=/o/ASIN/B00008OE6I%25253FAWSAccessKeyId=[AWS Access Key
ID]</DetailPageURL>
    <ItemAttributes>
    <Manufacturer>Canon</Manufacturer>
    <ProductGroup>Photography</ProductGroup>
    <Title>Canon PowerShot S400 4MP Digital Camera w/ 3x Optical Zoom</Title>
   </ItemAttributes>
  </Item>
</Items>
```

Related Operations

ItemSearch

Description

The ItemSearch operation returns items that satisfy the search criteria, including one or more search indices.

ItemSearch returns up to ten search results at a time. When *condition* equals "All," ItemSearch returns up to three offers per condition (if they exist), for example, three new, three used, three refurbished, and three collectible items. Or, for example, if there are no collectible or refurbished offers, ItemSearch returns three new and three used offers.

Because there are thousands of items in each search index, ItemSearch requires that you specify the value for at least one parameter in addition to a search index. The additional parameter value must reference items within the specified search index. For example, you might specify a browse node (BrowseNode is an ItemSearch parameter), Harry Potter Books, within the Books product category. You would not get results, for example, if you specified the search index to be Automotive and the

browse node to be Harry Potter Books. In this case, the parameter value is not associated with the search index value.

The *ItemPage* parameter enables you to return a specified page of results. The maximum *ItemPage* number that can be returned is 400. An error is returned if you try to access higher numbered pages. If you do not include *ItemPage* in your request, the first page will be returned by default. There can be up to ten items per page.

ItemSearch is the operation that is used most often in requests. In general, when trying to find an item for sale, you use this operation.

Availability

All locales.

Request Parameters

ItemSearch has a lot of parameters. Not all of them pertain, however, to all search indices. For example, when the search index is apparel, it would be inappropriate to use the *Actor* parameter. As a result, each search index can use only a subset of all of the parameters. For a complete list of the ItemSearch parameters that can be used with a specific search index in a specific locale, refer to Search Index and ItemSearch Parameter Combinations.

The parameters that apply to the largest number of search indices are shown in the following table.

Parameter	Valid Search Indices
BrowseNode	All but All, Blended
Condition	All but All, Blended and Merchants
Keywords	All
MaximumPrice	All but All, Blended and Merchants
MerchantId	All but All, Blended and Merchants
MinimumPrice	All but All, Blended and Merchants
Title	All but All, Blended and Merchants

ItemSearch requires that you specify a search index and at least one of the following parameters:

- Actor
- Artist
- AudienceRating
- Author
- Brand
- BrowseNode
- City

- Composer
- Conductor
- Director
- Keywords
- Manufacturer
- MusicLabel
- Neighborhood

- Orchestra
- Power
- Publisher
- TextStream
- Title

Name	Description	Required
Actor	Name of an actor associated with the item. You can enter all or part of the name. Type: String Default: None	No
Artist	Name of an artist associated with the item. You can enter all or part of the name. Type: String Default: None	No
AudienceRating	Movie ratings based on MPAA ratings or age, depending upon the locale. You may specify one or more values in a comma-separated list in a REST request or by using multiple elements in a SOAP request. Type: String. Type: String Default: None Valid Values: See Movie Ratings by Locale, which follows this table.	No
Author	Name of an author associated with the item. You can enter all or part of the name. Type: String Default: None	No
Availability	Enables ItemSearch to return only those items that are available. This parameter must be used in combination with a merchant ID and *Condition*. For more information, see Availability Parameter, which follows this table.When Availability is set to "Available," the Condition parameter cannot be set to "New." Type: String Default: None Valid Values: Available	Yes
Brand	Name of a brand associated with the item. You can enter all or part of the name. Type: String, for example, Timex, Seiko, Rolex.	No

Name	Description	Required
	Type: String Default: None	
BrowseNode	Browse nodes are positive integers that identify product categories, for example, Literature & Fiction: (17), Medicine: (13996), Mystery & Thrillers: (18), Nonfiction: (53), Outdoors & Nature: (290060). Type: String Default: None Valid Values: Positive integer.	No
City	Name of a city associated with the item. You can enter all or part of the name. This parameter only works in the US locale. Type: String Default: None Valid Values: Chicago | New York | San Francisco | Seattle | Washington, D.C.	No
Composer	Name of an composer associated with the item. You can enter all or part of the name. Type: String Default: None	No
Condition	Use the *Condition* parameter to filter the offers returned in the product list by condition type. By default, *Condition* equals "New". If you do not get results, consider changing the value to "All. When the Availability parameter is set to "Available," the Condition parameter cannot be set to "New." ItemSearch returns up to ten search results at a time. When *condition* equals "All," ItemSearch returns up to three offers per condition (if they exist), for example, three new, three used, three refurbished, and three collectible items. Or, for example, if there are no collectible or refurbished offers, ItemSearch returns three new and three used offers. Type: String Default: New Valid Values: Used | Collectible | Refurbished | All	No

Name	Description	Required
Conductor	Name of a conductor associated with the item. You can enter all or part of the name. Type: String Default: None	No
Director	Name of a director associated with the item. You can enter all or part of the name. Type: String Default: None	No
ItemPage	Retrieves a specific page of items from all of the items in a response. Up to ten items are returned on a page unless *Condition* equals "All." In that case, ItemSearch returns up to three results per *Condition*, for example, three new, three used, three refurbished, and three collectible items. Or, for example, if there are no collectible or refurbished items being offered, ItemSearch returns three new and three used items. The maximum *ItemPage* number that can be returned is 400. An error is returned if you try to access higher numbered pages. If you do not include *ItemPage* in your request, the first page will be returned by default. The total number of pages of items found is returned in the *TotalPages* response tag. Valid Values: Integer between 1 and 400, inclusive. Type: String Default: None	No
Keywords	A word or phrase associated with an item. The word or phrase can be in various product fields, including product title, author, artist, description, manufacturer, and so forth. When, for example, the search index equals "MusicTracks," the *Keywords* parameter enables you to search by song title. If you enter a phrase, the spaces must be URL-encoded as %20. Type: String Default: None	No
Manufacturer	Name of a manufacturer associated with the item. You can enter all or part of the name. Type: String	No

Name	Description	Required
	Default: None	
MaximumPrice	Specifies the maximum price of the items in the response. Prices are in terms of the lowest currency denomination, for example, pennies. For example, 3241 represents $32.41. Type: String Default: None Valid Values: Positive integer	No
MerchantId	Specifies the merchant who is selling the item. *MerchantId* is an alphanumeric identifier assigned by Amazon to merchants. Make sure to specify a merchant ID and not a seller ID, which is not supported. Note that the default value is "Amazon." If your request does not generate results, consider setting the value to "All." Type: String Default: Amazon Valid Values: Valid merchant ID of a merchant All--Includes Amazon and all other merchants Featured--Merchant listed when you click "Add to Cart" (US only)	Yes
MinimumPrice	Specifies the minimum price of the items to return. Prices are in terms of the lowest currency denomination, for example, pennies, for example, 3241 represents $32.41. Type: String Default: None Valid Values: Positive integer	No
Neighborhood	Name of a neighborhood You can enter all or part of the name. The neighborhoods are located in one of the valid values for *City*. Type: String, for example, Capitol Hill, Arlington, and North Beach. Type: String Default: None	No

Name	Description	Required
Orchestra	Name of an orchestra associated with the item. You can enter all or part of the name. Type: String Default: None	No
PostalCode	Postal code of the merchant. In the US, the postal code is the postal code. This parameter enables you to search for items sold in a specified region of a country. Type: String Default: None	No
Power	Performs a book search using a complex query string. Only works when the search index is set equal to "Books." Valid Values: See, Power Searches following this table. Type: String Default: None	No
Publisher	Name of a publisher associated with the item. You can enter all or part of the name. Type: String Default: None	No
RelatedItemsPage	This optional parameter is only valid when the `RelatedItems` response group is used. Each `ItemLookup` request can return, at most, ten related items. The RelatedItemsPage value specifies the set of ten related items to return. A value of 2, for example, returns the second set of ten related items.	No
RelationshipType	This parameter is required when the `RelatedItems` response group is used. The type of related item returned is specified by the `RelationshipType` parameter. Sample values include Episode, Season, and Tracks. A complete list of values follows this table. Constraint: Required when RelatedItems response group is used	Conditional
SearchIndex	The product category to search. Many `ItemSearch` parameters are valid with only specific values of `SearchIndex`. Type: String	No

Name	Description	Required
	Default: None Valid Values: A search index, for example, Apparel, Beauty, Blended, Books, and so forth. For Blended searches, go to Blended Searches. For a complete of search indices, see Search Indices by Locale.	
Sort	Means by which the items in the response are ordered. Type: String Default: None Valid Values: Valid values vary significantly by search index. For a list of valid values, see ItemSearch Sort Values by Locale.	No
TagPage	Specifies the page of results to return. There are ten results on a page. The maximum page number is 400. Type: Integer Type: String Default: None	No
TagsPerPage	The number of tags to return that are associated with a specified item. Type: Integer Type: String Default: None	No
TagSort	Specifies the sorting order for the results. Type: String Default: - Usages Valid Values: • FirstUsed-Sort by the date the item was first used. - FirstUsed • LastUsed-Sort by the date the item was last used. - LastUsed • Name-Alphabetical, A-Z. - Name • Usages-Items least used to most used	No

Name	Description	Required
	To sort items in descending order, prefix the values with a negative sign (-).	
TextStream	A search based on two or more words. `ItemSearch` picks out of the block of text up to ten keywords and returns up to ten items that match those keywords. For example, if five keywords are found, two items for each keyword are returned. Only one page of results is returned so *ItemPage* does not work with *TextStream*. Type: String Default: None	No
Title	The title associated with the item. You can enter all or part of the title. *Title* searches are a subset of *Keyword* searches. If a *Title* search yields insufficient results, consider using a *Keywords* search. Type: String Default: None	No
VariationPage	Retrieves a specific page of variations returned by `ItemSearch`. By default, `ItemSearch` returns all variations. Use *VariationPage* to return a subsection of the response. There are 10 variations per page. To examine offers 11 trough 20, for example, set *VariationPage* to 2. The total number of pages is returned in the *TotalPages* element. Type: String Default: None Valid Values: Positive integer	No
ResponseGroup	Specifies the types of values to return. You can specify multiple response groups in one request by separating them with commas. Type: String Default: Small Valid Values: Accessories | BrowseNodes | EditorialReview | ItemAttributes | ItemIds | Large | ListmaniaLists | Medium | MerchantItemAttributes | OfferFull | Offers | OfferSummary | Reviews | RelatedItems | SearchBins | Similarities | Subjects | Tags | TagsSummary | Tracks | VariationMinimum | Variations | VariationSummary |	No

`ItemSearch` also accepts the parameters that all operations can use. For more information, see, Common Request Parameters

Movie Ratings Vary by Locale

Movie rating values captured in the `AudienceRating` parameter, vary by locale. The following table shows the valid values of `AudienceRating`.

Locale	AudienceRating Values
CA	G, PG, PG-13, R, NC-17, NR, Unrated, Family Viewing
DE	6, 12, 16
FR	PG, 12, 16, 18
US	G, PG, PG-13, R, NC-17, NR, Unrated

Response

Name	Description
ASIN	Amazon Standard Identification Number, which is an alphanumeric token assigned by Amazon to an item that uniquely identifies it.
DetailPageURL	URL of an item's web site that includes an item's title, availability, similar items, features, accessories, product description, customer reviews of the item, links to news articles about the item, related Listmania lists, "So You'd Like To...." list, and "Browse For Photo" list.
Item	Container for item information, including ASIN, DetailPageURL, and ItemAttributes.
ItemAttributes	Container for information about an item, including Manufacturer, ProductGroup, and Title.
Manufacturer	Item's manufacturer.
ProductGroup	Product category; similar to search index.
Title	Item's title.
TotalPages	Total number of pages in response. There are ten items per page.
TotalResults	Total number of items found.

For more information about the parent elements of these tags, see the appropriate response group in Response Groups.

Examples

Use the search index, Toys, and the parameter, `Keywords`, to return information about all toy rockets sold in by Amazon.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
```

```
Operation=ItemSearch&
Keywords=Rocket&
SearchIndex=Toys
```

The response to this request is shown in, Response to Sample Request.

Use a blended search to look through multiple search indices for items that have "Mustang" in their name or description. A blended search looks through multiple search indices at the same time. For more information, see Blended Searches.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
Keywords=Mustang&
SearchIndex=Blended
```

Use the *Availability* parameter to only return shirts that are available:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
MerchantId=All&
Condition=All&
Availability=Available&
SearchIndex=Apparel&
Keywords=Shirt
```

Set the search index to MusicTracks and *Keywords* to the title of a song to find a song title.

Use the BrowseNodes response group to find the browse node of an item.

Use the Variations response group and the *BrowseNode* parameter to find all of the variations of a parent browse node.

Sample Response

The following XML is a snippet of the full response to the first sample request.

```
<TotalResults>372</TotalResults>
<TotalPages>38</TotalPages>
<Item>
  <ASIN>B00021HBN6</ASIN>
<DetailPageURL>http://www.amazon.com/exec/obidos/redirect?tag=ws%26link_code=
xm2%26camp=2025%26creative=165953%26path=http://www.amazon.com/gp/redirect.ht
ml%253fASIN=B00021HBN6%2526tag=ws%2526lcode=xm2%2526cID=2025%2526ccmID=165953
%2526location=/o/ASIN/B00021HBN6%25253FAWSAccessKeyId=[AWS Access Key
ID]</DetailPageURL>
  <ItemAttributes>
    <Manufacturer>Radio Flyer</Manufacturer>
    <ProductGroup>Toy</ProductGroup>
    <Title>Radio Flyer Retro Rocket</Title>
  </ItemAttributes>
  </Item>
  <Item>
  <ASIN>B0007MZV3C</ASIN>
<DetailPageURL>http://www.amazon.com/exec/obidos/redirect?tag=ws%26link_code=
xm2%26camp=2025%26creative=165953%26path=http://www.amazon.com/gp/redirect.ht
ml%253fASIN=B0007MZV3C%2526tag=ws%2526lcode=xm2%2526cID=2025%2526ccmID=165953
%2526location=/o/ASIN/B0007MZV3C%25253FAWSAccessKeyId=[AWS Access Key
ID]</DetailPageURL>
  <ItemAttributes>
  <Manufacturer>Razor USA LLC</Manufacturer>
  <ProductGroup>Toy</ProductGroup>
  <Title>Razor Dirt Rocket MX350 Bike</Title>
```

```
   </ItemAttributes>
</Item>
```

The `TotalResults` and `TotalPages` tags indicate the number of items found and the number of pages those items are on. Use `TotalPages` with any of the page parameters, such as `ReviewsPage`, to select the page of results to view. Typically, there are ten results on a page.

Related Operations

- ItemLookup
- SellerListingSearch

ListLookup

Description

The `ListLookup` operation returns, by default, summary information about a list that you specify in the request. The summary information includes the:

- Creation date of the list
- Name of the list's creator

The operation returns up to ten sets of summary information per page.

Lists are specified by list type and list ID, which can be found using ListSearch.

You cannot lookup more than one list at a time in a single request. You can, however, make a batch request to look for more than one list simultaneously.

Availability

All locales.

Request Parameters

Name	Description	Required
`Condition`	Specifies an item's condition. If Condition is set to "All," a separate set of responses is returned for each valid value of Condition. Note that, by default, Condition is set to New not All. If, for example, items are not returned in the response, consider setting Condition to All. Type: String Default: New Valid Values: All | Collectible | Refurbished | Used	No
`IsOmitPurchasedItems`	If you set IsOmitPurchasedItems=1 in a ListLookup request, items on a wishlist that have been purchased will not be returned. Only those items that have not been purchased or those for which the entire quantity has not	No

Name	Description	Required
	been purchased are returned.	
ListId	Number that uniquely identifies a list. Type: String Default: None Valid Values: Positive integer	Yes
ListType	Type of list. Type: String Default: None Valid Values: WeddingRegistry | Listmania lists | WishList. For more information, see Supported List Types	Yes
MerchantId	Specifies the merchant who is offering the item. *MerchantId* is an alphanumeric identifier assigned by Amazon to merchants. Make sure to specify a Merchant ID and not a Seller ID, which is not supported. Type: String Default: Amazon Valid Values: MerchantId--ID of a merchant All--Includes Amazon and all other merchants Featured--Merchant listed when you click "Add to Cart." (US only)	No
ProductGroup	Category of the item, for example, "Book" or "DVD." Use URL encoding to specify a ProductGroup, for example, to specify "Lawn & Patio" use "Lawn%20%26%20Patio". Type: String Default: None Valid Values: Search Index. For a list of Search Indices, see Search Index By Locale Matrix	No
ProductPage	Retrieves a specific page of lists returned. There are ten lists per page. Type: String Default: None	No

Name	Description	Required
	Valid Values: Integer between 1 and 30, inclusive	
Sort	Means by which the list items in the response are ordered. Use only with wishlists. Type: String Default: None Valid Values: DateAdded--Sorted by the original date an item was added to a list. LastUpdated--Sorted by the date that list items were last updated. Updating a list item can be, for example, changing its priority, the comments associated with the item, or the quantity of items desired. Price--From cheapest to most expensive Priority--Customers assign a priority value to each item they add to their wishlist. The values can be highest, high, medium (default), low, and lowest. When you include Sort=Priority in a ListLookup request, the items are sorted from highest to lowest priority.	No
ResponseGroup	Specifies the types of values to return. You can specify multiple response groups in one request by separating them with commas. Type: String Default: Request ListInfo Valid Values: Accessories | BrowseNodes | EditorialReview | Images | ItemAttributes | ItemIds | Large | ListFull | ListItems | ListmaniaLists | Medium | Offers | OfferSummary | Reviews | SalesRank | Similarities | Small | Subjects | Tracks | VariationMinimum | Variations | VariationSummary |	No

`ListLookup` also accepts the parameters that all operations can use. For more information, see,
Common Request Parameters

Supported List Types

The `ListLookup` operation supports the following list types:

- Listmania—Customers can create random groups of items, called Listmania lists. Listmania lists can be as specific ("Dorm Room Essentials for Every Freshman") or as general ("The Best Novels of 2005") as customers choose.

- WeddingRegistry—Wedding registries contain items that a wedding couple wants.
- WishList—Wish lists contain items for birthdays, anniversaries or any other special day. These lists help others know what gifts the wishlist creator wants.

The following Amazon lists are not supported by `ListLookup`. Amazon Associates Web Service operations cannot return the items on these lists:

- BabyRegistry—Baby registries contain items that expectant parents want. Gift givers can find baby registries created on Amazon or in Babies "R" Us or Toys "R" Us stores.
- Purchase Sharing
- So You'd Like To...

Response

Name	Description
CustomerName	Name of the customer who created the list.
DateCreated	Date, in the form of year-month-day, the list was created.
ListName	Name of the list, as given by the customer.
ListType	The type of list. For Amazon Associates Web Service, the types can be: WishList, WeddingRegistry, Listmania.
Priority	Customers assign a priority value to each item they add to their wishlist. The values can be highest, high, medium (default), low, and lowest. In a ListLookup response, these values are returned in the <priority> tag.
TotalItems	The total number of items on the list.
TotalPages	The total number of pages of items. There are ten items per page maximum.

For more information about the parent elements of these tags, see the appropriate response group in Response Groups

Examples

Use, `ListLookup` to return summary information about a wishlist identified by *ListId* 99999999999999.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ListLookup&
ListType=WishList&
ListId=99999999999999
```

The response to this request is shown in, Response to Sample Request.

Use the Large response group to return the items in the list as well as the offers.

Use the Sort parameter to return the items in the list ordered by price.

Sample Response

The following XML is a snippet of the full response to the first sample request.

```
<ListItem>
  <ListItemId>IOWNUUPH86VRC</ListItemId>
  <DateAdded>2002-01-27</DateAdded>
  <QuantityDesired>1</QuantityDesired>
  <QuantityReceived>0</QuantityReceived>
  <Item>
    <ASIN>1890966533</ASIN>
    <ItemAttributes>
      <Title>Safety Incentives: The Pros and Cons of Award and Recognition
Programs (Osha Compliance)</Title>
    </ItemAttributes>
  </Item>
</ListItem>
<ListItem>
  <ListItemId>I1JY2MH4BGECYR</ListItemId>
  <DateAdded>2002-01-27</DateAdded>
  <QuantityDesired>1</QuantityDesired>
  <QuantityReceived>0</QuantityReceived>
  <Item>
    <ASIN>0963229613</ASIN>
    <ItemAttributes>
      <Title>Confined Space Program: A Complete Compliance Program (Osha Com
pliance)
      </Title>
    </ItemAttributes>
  </Item>
</ListItem>
```

This response shows two of the items listed on the wish list.

Related Operations

- ListSearch

ListSearch

Description

Given a customer name or e-mail address, the ListSearch operation returns the associated list ID(s) but not the list items. To find those, use the list ID returned by ListSearch with ListLookup .

Specifying a full name or just a first or last name in the request typically returns multiple lists belonging to different people. Using e-mail as the identifier produces more filtered results.

☞ **Note**

Make sure to URL-encode the @ sign, as 40, in email addresses. Otherwise, the request will fail

Availability

All locales.

Request Parameters

For Wishlists and WeddingRegistry list types, you must specify one or more of the following parameters:

- e-mail
- FirstName
- LastName
- Name

For the BabyRegistry list type, you must specify one or more of the following parameters:

- FirstName
- LastName

You cannot, for example, retrieve a BabyRegistry by specifying an e-mail address or Name.

Name	Description	Required
City	City in which the list creator lives. Type: String. Use URL-encoded symbols for spaces (20). Type: String Default: None	No
ContentType	Specifies the kind of list you are retrieving. Type: String Default: None Valid Values: BabyRegistry | WeddingRegistry | Wishlist	No
e-mail	e-mail address of the list creator. This parameter is not supported for the BabyRegistry. Type: String Default: None Valid Values: Valid e-mail address. URL-encode the @ sign as 40.	No
FirstName	First name of the list creator. ListSearch returns all list owners that have FirstName in their first name. For example, specifying "John," will return first names of "John," Johnny," and "Johnson." Type:String. Use URL-encoded symbols for spaces (20). Type: String Default: None	No

Name	Description	Required
LastName	Last name of the list creator. ListSearch returns all list owners that have LastName in their last name. For example, specifying "Ender," will return the last names of "Ender," Enders," and "Enderson." Type: String. Use URL-encoded symbols for spaces (20). Type: String Default: None	No
ListPage	Retrieve a specific page of list IDs. There are ten list IDs per page. The total number of pages is returned in the TotalPages response tag. The default is to return the first page. Type: String Default: None Valid Values: Integer between 1 and 20.	No
Name	Name of the list creator. This parameter is not supported for the BabyRegistry. Type: String. Use URL-encoded symbols for spaces (20). Type: String Default: None	No
State	State in which the list creator lives. Type: String. Use URL-encoded symbols for spaces (20). Type: String Default: None	No
ResponseGroup	Specifies the types of values to return. You can specify multiple response groups in one request by separating them with commas. Type: String Default: ListInfo Valid Values: ListMinimum	No

ListSearch also accepts the parameters that all operations can use. For more information, see, Common Request Parameters

Response

Name	Description
CustomerName	Name of the list creator.
DateCreated	Date the list was created.
List	Container for list tags, including CustomerName, DateCreated, ListId, ListType, ListURL, TotalItems, TotalPages
ListId	Alphanumeric token that uniquely identifies a list.
Lists	Container for one or more List(s).
ListType	The type of list: BabyRegistry, WeddingRegistry, or Wishlist.
ListURL	URL of the list.
TotalItems	Number of items on a list.
TotalPages	Number of pages of lists. There are up to ten lists per page.
TotalResults	Number of lists found.

For more information about the parent elements of these tags, see the appropriate response group in Response Groups

Examples

The following request returns the WishList IDs for John Smith.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[Access Key ID]&
Operation=ListSearch&
ListType=WishList&
Name=John20Smith
```

The response to this request is shown in, Response to Sample Request.

The following request returns the WishList IDs for JohnSmith@ISP.com.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[Access Key ID]&
Operation=ListSearch&
ListType=WishList&
e-mail=JohnSmith40ISP.com
```

Sample Response

The following XML is a snippet of the full response to the first sample request.

```
<TotalResults>2</TotalResults>
<TotalPages>1</TotalPages>
<List>
  <List>
    <ListId>BR4444442H77</ListId>
    <ListURL>http://www.amazon.com/gp/registry/BR4444442H77</ListURL>
```

```
   <ListType>WishList</ListType>
   <TotalItems>70</TotalItems>
   <TotalPages>7</TotalPages>
   <DateCreated>1999-10-06</DateCreated>
   <CustomerName>John Smith</CustomerName>
  </List>
  <List>
   <ListId>BR6666662H77</ListId>
   <ListURL>http://www.amazon.com/gp/registry/BR6666662H77</ListURL>
   <ListType>WishList</ListType>
   <TotalItems>51</TotalItems>
   <TotalPages>6</TotalPages>
   <DateCreated>2002-10-02</DateCreated>
   <CustomerName>John Smith</CustomerName>
  </List>
</Lists>
```

Default responses provide summary information about the lists found. This example shows that John Smith has two Wishlists. The first, whose *ListId* is BR4444442H77, has 70 items in it. The second, whose *ListId* is BR6666662H77, has 51 items in it. To return the items on the Wishlists, use the ListLookup operation. with those list IDs.

The response also shows that if you know the *ListId*, you can look up the list directly using the URL: http://www.amazon.com/gp/registry/*ListId*. In the preceding example, the first *ListId* is BR4444442H77.

> **Note**
>
> ListLookup cannot access items in a BabyRegistry. Currently, there is no way to display the items in a BabyRegistry.

Related Operations

- ListLookup

SellerListingLookup

Description

The SellerListingLookup operation enables you to return information about a seller's listings, including product descriptions, availability, condition, and quantity available. The response also includes the seller's nickname. Each request requires a seller ID.

You can also find a seller's items using ItemLookup. There are, however, some reasons why it is better to use SellerListingLookup:

- SellerListingLookup enables you to search by seller ID.
- SellerListingLookup returns much more information than ItemLookup .

This operation only works with sellers who have less than 100,000 items for sale. Sellers that have more items for sale should use, instead of Amazon Associates Web Service, other APIs, including the Amazon Inventory Management System, and the Merchant@ API.

Availability

All locales.

Examples

The following request returns information about an item specified by a Listing ID.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=SellerListingLookup&
SellerId=[Seller ID]&
IdType=Listing&
Id=[Offer Listing ID]
```

The response to this request is shown in, Response to Sample Request.

Request Parameters

Name	Description	Required
`Id`	Number that uniquely identifies an item. The valid value depends on the value for `IdType`. Type: String Default: None Valid Values:Exchange ID | Listing ID | ASIN | SKU	Yes
`IdType`	Use the `IdType` parameter to specify the value type of the `Id` parameter value. If you are looking up an Amazon Marketplace item, use Exchange, ASIN, or SKU as the value for `IdType`. Discontinued, out of stock, or unavailable products will not be returned if `IdType` is Listing, SKU, or ASIN. Those products will be returned, however, if `IdType` is Exchange. Type: String Default: None Valid Values: Exchange | Listing | ASIN | SKU	Yes
`SellerId`	Alphanumeric token that uniquely identifies a seller. This parameter limits the results to a single seller ID. Type: String Default: None Valid Values: Valid Seller ID Constraint: Required except when IdType = Exchange.	Conditional

Name	Description	Required
ResponseGroup	Specifies the types of values to return. You can specify multiple response groups in one request by separating them with commas. Type: String Default: SellerListing (Default)	No

SellerListingLookup also accepts the parameters that all operations can use. For more information, see, Common Request Parameters.

Sample Response

The following XML is a snippet of the full response to the first sample request.

```
<SellerListing>
  <ExchangeId>Y02Y3120110Y3481102</ExchangeId>
  <ListingId>0411W027887</ListingId>
  <Title>Spartas, Dale C. (photographs by) and Steve Smith (text by): Just
Labs</Title>
  <Price>
    <Amount>2200</Amount>
    <CurrencyCode>USD</CurrencyCode>
    <FormattedPrice>$22.00</FormattedPrice>
  </Price>
  <StartDate>2001-04-11</StartDate>
  <EndDate>2004-03-26</EndDate>
  <Status>Open</Status>
  <Quantity>1</Quantity>
  <QuantityAllocated>0</QuantityAllocated>
  <Availability>Usually ships within 1-2 business days</Availability>
  <FeaturedCategory>68297</FeaturedCategory>
  <Seller>
    <SellerId>A3U5ACHDJ10963</SellerId>
    <Nickname>alphabooks</Nickname>
  </Seller>
</SellerListing>
```

Response

Name	Description
Amount	Price of the item in terms of the lowest currency denomination, for example, pennies.
Availability	How quickly the item will be shipped.
CurrencyCode	Format for the display of the money
EndDate	End of life for the item's sale.
ExchangeId	Token that uniquely identifies an offer in the Marketplace. Exchange IDs are available for every item offered by a third-party seller. When using ExchangeId, you must also specify a matching SellerID and ASIN.
FeaturedCategory	Browsenode ID of a featured category, which is determined by business arrangements between Amazon and a seller. This value is

Name	Description
	not returned for JP, FR, and CA.
FormattedPrice	The price to display on the web site.
ListingId	Token that uniquely identifies an item.
NickName	String that identifies the seller.
Price	Container for pricing information, including Amount, CurrencyCode, FormattedPrice.
Quantity	Number of items in stock.
QuantityAllocated	Number of items sold or unavailable. Subtract this value from the Quantity value to determine availability.
Seller	Container for seller information, including, SellerId and Nickname
SellerId	Token that identifies the seller.
StartDate	First day the item went on sale.
Status	Specifies whether the product is still available (Open), or not (Closed.) Closed products are those that are discontinued, out of stock, or unavailable.
Title	Title of the item.

For more information about the parent elements of these tags, see the appropriate response group in Response Groups.

Related Operations

- SellerListingSearch

SellerListingSearch

Description

The SellerListingSearch operation enables you to search for items offered by specific sellers. You cannot use SellerListingSearch to look up items sold by merchants. To look up an item sold by a merchant, use ItemLookup or ItemSearch along with the *MerchantId* parameter.

SellerListingSearch returns the listing ID or exchange ID of an item. Typically, you use those values with SellerListingLookup to find out more about those items.

Each SellerListingSearch request returns up to ten items. By default, the first ten items are returned. You can use the *ListingPage* parameter to retrieve additional pages of (up to) ten listings.

To use Amazon Associates Web Service, sellers must have less than 100,000 items for sale. Sellers that have more items for sale should use, instead of Amazon Associates Web Service, other seller APIs, including the Amazon Inventory Management System, and the Merchant@ API.

> **Note**
>
> `SellerListingSearch` requires a seller ID, which means that you cannot use this operation to search across all sellers. Amazon Associates Web Service does not have a seller-specific operation that does this. To search across all sellers, use `ItemSearch` or `ItemLookup`.

Examples

Find items in the Marketplace that have the word, Newton, in the title or item description and sort the items by price where the most expensive items is listed first.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=SellerListingSearch&
SellerId=[A Seller ID]&
Keywords=Newton&
Sort=+price&
OfferStatus=Open
```

The response to this request is shown in, Response to Sample Request.

Request Parameters

Name	Description	Required
ListingPage	Page of the response to return. Up to ten lists are returned per page. For customers that have more than ten lists, more than one page of results are returned. By default, the first page is returned. To return another page, specify the page number. Type: Positive integer. Type: String Default: 1 Constraint:Maximum value is 500.	No
OfferStatus	Specifies whether the product is available (Open), or not (Closed.) Closed products are those that are discontinued, out of stock, or unavailable. Type: String Default: Open (Default) Valid Values:Closed	No
SellerId	An alphanumeric token that uniquely identifies a seller. These tokens are created by Amazon and distributed to sellers.	Yes

Name	Description	Required
	Valid Values:A valid Seller ID.	
Sort	Use the Sort parameter to specify how your seller listing search results will be ordered. The -bfp (featured listings - default), applies only to the US, UK, and DE locales. Type: String Default: None Valid Values: -startdate | startdate | +startdate | -enddate | enddate | -sku | sku | -quantity | quantity | -price | price | +price | -title | title	No
Title	Searches for products based on the product's name . Keywords and Title are mutually exclusive; you can have only one of the two in a request. Type: String. The value can be multiple words, as long as the spaces are URL-encoded as %20. Word order does not matter and case is not significant. Type: String Default: None	No
ResponseGroup	Specifies the types of values to return. You can specify multiple response groups in one request by separating them with commas. Type: String Default: SellerListing	No

SellerListingSearch also accepts the parameters that all operations can use. For more information, see, Common Request Parameters

Sample Response

The following XML is a snippet of the full response to the first sample request.

```
<SellerListing>
  <ExchangeId>Y02Y3120110Y3481102</ExchangeId>
  <ListingId>0411W027887</ListingId>
  <Title>Spartas, Dale C. (photographs by) and Steve Smith (text by): Just
Labs</Title>
  <Price>
    <Amount>2200</Amount>
    <CurrencyCode>USD</CurrencyCode>
    <FormattedPrice>$22.00</FormattedPrice>
  </Price>
  <StartDate>2001-04-11</StartDate>
  <EndDate>2004-03-26</EndDate>
  <Status>Open</Status>
  <Quantity>1</Quantity>
```

```
      <QuantityAllocated>0</QuantityAllocated>
      <Availability>Usually ships within 1-2 business days</Availability>
      <FeaturedCategory>68297</FeaturedCategory>
      <Seller>
        <SellerId>A3U5ACHDJ10963</SellerId>
        <Nickname>alphabooks</Nickname>
      </Seller>
</SellerListing>
<SellerListing>
      <ExchangeId>Y01Y1679802Y5496404</ExchangeId>
      <ListingId>0829W011414</ListingId>
      <Title>Incredible Journey,Quad Movie Poster, 40" x 30",1963</Title>
      <Price>
        <Amount>1975</Amount>
        <CurrencyCode>USD</CurrencyCode>
        <FormattedPrice>$19.75</FormattedPrice>
      </Price>
      <StartDate>2004-08-29</StartDate>
      <EndDate>2007-08-14</EndDate>
      <Status>Open</Status>
      <Quantity>1</Quantity>
      <QuantityAllocated>0</QuantityAllocated>
      <Availability>Usually ships within 1-2 business days</Availability>
      <FeaturedCategory>301787</FeaturedCategory>
      <Seller>
        <SellerId>A1ZKKOH0E9LH0B</SellerId>
        <Nickname>nostalgia_dot_com</Nickname>
      </Seller>
</SellerListing>
```

Response

Name	Description
Amount	Price in terms of the lowest currency denomination, for example, pennies.
Availability	How quickly the item will be shipped.
CurrencyCode	Format for the display of the money
EndDate	End of life for the item's sale.
ExchangeId	Token that uniquely identifies an offer in the Marketplace. Exchange IDs are available for every item offered by a third-party seller. When using ExchangeId, you must also specify a matching SellerID and ASIN.
FeaturedCategory	Browsenode ID of a featured category, which is determined by business arrangements between Amazon and a seller. This value is not returned for JP, FR, and CA.
FormattedPrice	The price to display on the web site.
ListingId	Token that uniquely identifies an item.
NickName	String that identifies the seller.
Price	Container for pricing information, including Amount, CurrencyCode, FormattedPrice.
Quantity	Number of items in stock.
QuantityAllocated	Number of items sold or unavailable. Subtract this value from the Quantity value to determine availability.

Name	Description
Seller	Container for seller information, including, SellerId and Nickname
SellerId	Token that identifies the seller.
StartDate	First day the item went on sale.
Status	Specifies whether the product is still available (Open), or not (Closed.) Closed products are those that are discontinued, out of stock, or unavailable.
Title	Title of the item.

For more information about the parent elements of these tags, see the appropriate response group in Response Groups

Related Operations

- SellerListingLookup

SellerLookup

Description

The `SellerLookup` operation returns detailed information about sellers and, in the US locale, merchants. To lookup a seller, you must use their seller ID. The information returned includes the seller's name, average rating by customers, and the first five customer feedback entries. `SellerLookup` will not, however, return the seller's e-mail or business addresses.

☞   **Note**

A seller must enter their information. Sometimes, sellers do not. In that case, `SellerLookup` cannot return some seller-specific information.

To look up more than one seller in a single request, insert a comma-delimited list of up to five seller IDs in the *SellerId* parameter of the REST request. For SOAP requests, information about multiple sellers can be retrieved by including multiple *SellerId* elements in the request.

Customers can rate sellers. 5 is the best rating; 0 is the worst. The rating reflects the customer's experience with the seller. The `SellerLookup` operation, by default, returns review comments by individual customers, as shown in the next example:

```
<AverageFeedbackRating>3.0</AverageFeedbackRating>
<SellerFeedback>
  <Feedback>
    <Rating>1</Rating>
    <Date>2006-06-01T01:58+0000</Date>
    <RatedBy>A59KKB5O4U1NE</RatedBy>
  </Feedback>
  <Feedback>
    <Rating>5</Rating>
    <Comment>Super fast shipping and in great condition.</Comment>
    <Date>2006-05-07T19:57+0000</Date>
    <RatedBy>AYJHDY02HJ2XY</RatedBy>
  </Feedback>
```

As shown in this response snippet, the average of all seller ratings entered by customers is returned in the Seller/AverageFeedbackRating element.

Using a Merchant ID

For the US only, you can look up a merchant using `SellerLookup` by specifying a merchant ID rather than a seller ID with the *SellerId* parameter. `SellerLookup` requests with merchant IDs, including Amazon's merchant ID, do not return feedback ratings or customer feedback comments.

Examples

Get information about three different sellers.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=SellerLookup&
SellerId=[A Seller ID],[A Seller ID],[A Seller ID]
```

The response to this request is shown in, Response to Sample Request.

Use *FeedbackPage* to retrieve the third page of feedback:

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService
&AWSAccessKeyId=[ID]&
Operation=SellerLookup&
SellerId=[Seller ID]&
FeedbackPage=3
```

You can retrieve up to ten pages of feedback, which corresponds to fifty total feedback entries; five per page. By default, `SellerLookup` returns the first five pieces of customer feedback for the specified seller(s)

Request Parameters

Name	Description	Required
FeedbackPage	Specifies the page of reviews to return. Up to five reviews are returned per page. The first page is returned by default. To access additional pages, use this parameter to specify the desired page. The maximum number of pages that can be returned is 10 (50 feedback items). Valid Values: Integer between 1 and 10, inclusive Type: String Default: None	No
SellerId	Alphanumeric token that identifies the seller. Valid Values: A valid Seller ID, which is provided by Amazon. In the US locale, you can use a merchant ID. Type: String	Yes

Name	Description	Required
	Default: None	
ResponseGroup	Specifies the types of values to return. You can specify multiple response groups in one request by separating them with commas. Type: String Default: Seller	No

SellerLookup also accepts the parameters that all operations can use. For more information, see, Common Request Parameters.

Sample Response

The following XML is a snippet of the full response to the first sample request.

```
</SellerLookupResponse>
  </Sellers>
  <Seller>
    <SellerId>ATVPDKIKX0DER</SellerId>
    <SellerName>Amazon.com</SellerName>
    <SellerLegalName>Amazon.com, LLC</SellerLegalName>
<GlancePage>http://www.amazon.com/gp/help/seller/at-a-glance.html?seller=ATVP
DKIKX0DER&marketplaceSeller=1</GlancePage>
    <SellerFeedback>
      <Feedback>
        <Rating>1</Rating>
        <Comment>As clearly indicatedabove, I ordered "How to Do Everything
with Windows XP Home Networking" by Dave Field, but received instead "How to
Do Everything with Windows XP" by Curt Simmons, a totally different book, for
which I have no use.</Comment>
        <Date>2006-06-01T01:58+0000</Date>
        <RatedBy>A59KKB5O4U1NE</RatedBy>
      </Feedback>
      <Feedback>
        <Rating>5</Rating>
        <Comment>Super fast shipping and in great condition.</Comment>
        <Date>2006-05-07T19:57+0000</Date>
        <RatedBy>AYJHDY02HJ2XY</RatedBy>
      </Feedback>
      <Feedback>
        <Rating>1</Rating>
        <Comment>I STILL have not received this, four days after the promised
delivery date.</Comment>
        <Date>2006-04-24T15:18+0000</Date>
        <RatedBy>A104KQK2R3U0MM</RatedBy>
      </Feedback>
    </SellerFeedback>
  </Seller>
  </Sellers>
</SellerLookupResponse>
```

Response

Name	Description
AverageFeedbackRating	Average of all customer ratings of seller. The value is between 0 and 5 where 5 is the best rating.

Name	Description
City	City where the seller is.
Comment	String that explains the rating.
Date	Date of the review.
Feedback	Container for the feedback, including RatedBy, Date, Comment, and Rating.
GlancePage	URL of a page that provides summary information about customer feedback.
NickName	String that identifies the seller.
Rating	Number of stars, 0 to 5, where 5 is the best rating.
SellerId	An alphanumeric token that uniquely identifies the seller.
State	State where the seller is.
TotalFeedback	Total number of customer reviews.
TotalFeedbackPages	Total number of pages that contain customer reviews. There are five reviews per page. Use this value as the boundary value for the FeedbackPage input parameter.

For more information about the parent elements of these tags, see the appropriate response group in Response Groups.

Related Operations

- SellerListingSearch
- SellerListingLookup

SimilarityLookup

Description

The SimilarityLookup operation returns up to ten products per page that are similar to one or more items specified in the request. This operation is typically used to pique a customer's interest in buying something similar to what they've already ordered.

If you specify more than one item, SimilarityLookup returns the intersection of similar items each item would return separately. Alternatively, you can use the *SimilarityType* parameter to return the union of items that are similar to any of the specified items. A maximum of ten similar items are returned; the operation does not return additional pages of similar items. if there are more than ten similar items, running the same request can result in different answers because the ten that are included in the response are picked randomly.

When you specify multiple items, it is possible for there to be no intersection of similar items. In this case, the operation returns the following error:

```
<Error>
  <Code>AWS.ECommerceService.NoSimilarities</Code>
```

```
  <Message>There are no similar items for this ASIN: B00006WREH.</Message>
</Error>
```

This result is very often the case if the items belong to different search indices. The error can occur, however, even when the items share the same search index.

Similarity is a measurement of similar items purchased, that is, customers who bought X also bought Y and Z. It is not a measure, for example, of items viewed, that is, customers who viewed X also viewed Y and Z.

Items returned can be filtered by:

- MerchantId—All, Featured, or a specific merchant ID. Setting the `MerchantId` parameter to "Featured" returns the same merchant that is displayed when you click the "Add to Shopping Cart" button on the product detail page on the retail Web site. The default value is Amazon.
- Condition—Describes the status of an item. Valid values are All, New (default), Used, Refurbished or Collectible. When the Availability parameter is set to "Available," the Condition parameter cannot be set to "New."

Examples

Return items that are similar to a list of items.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=SimilarityLookup&ItemId=ASIN1,ASIN2,ASIN3
```

This request returns the intersection of the similarities for each ASIN. The response to this request is shown in Response to Sample Request.

Return up to ten items that are similar to any of the ASINs specified.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=SimilarityLookup&ItemId=ASIN1,ASIN2,ASIN3&
SimilarityType=Random
```

This request returns the union of items that are similar to all of the ASINs specified. Only ten items can be returned and those are picked randomly from all of the similar items. Repeating the operation could produce different results.

Request Parameters

Name	Description	Required
Condition	Specifies an item's condition. If Condition is set to "All," a separate set of responses is returned for each valid value of Condition. Type: String	No

Name	Description	Required
	Default: New Valid Values: All | Collectible | Refurbished | Used	
ItemId	Specifies the item you want to look up. An ItemId is an alphanumeric identifier assigned to an item. You can specify up to ten ItemId's separated by commas. Type: String Default: None Valid Values:ASIN	Yes
MerchantId	Specifies the merchant who is offering the item. MerchantId is an alphanumeric identifier assigned by Amazon to merchants. Make sure to use a Merchant ID and not a Seller ID. Seller IDs are not supported. Type: String Default: Amazon Valid Values: MerchantId--ID of a merchant All--Includes Amazon and all other merchants Featured--Merchant listed when you click "Add to Cart"	No
SimilarityType	"Intersection" returns the intersection of items that are similar to all of the ASINs specified. "Random" returns the union of items that are similar to all of the ASINs specified. Only ten items are returned. So, if there are more than ten similar items found, a random selection from the group is returned. For this reason, running the same request multiple times can yield different results. Type: String Default: Intersection Valid Value:Random	No
ResponseGroup	Specifies the types of values to return. You can specify multiple response groups in one request by separating them with commas. Type: String Default: Request | Small Valid Values: Accessories | BrowseNodes |	No

Name	Description	Required
	EditorialReview	Images	Large	ItemAttributes	ItemIds	ListmaniaLists	Medium	Offers	OfferSummary	PromotionDetails	PromotionSummary	Reviews	SalesRank	Similarities	Tracks	VariationMinimum	Variations	VariationSummary		

SimilarityLookup also accepts the parameters that all operations can use. For more information, see, Common Request Parameters.

Sample Response

The following XML is a snippet of the full response to the first sample request.

```
<Item>
  <ASIN>B0009VX8XQ</ASIN>
<DetailPageURL>http://www.amazon.com/exec/obidos/redirect?tag=ws%26link_code=
xm2%26camp=2025%26creative=165953%26path=http://www.amazon.com/gp/redirect.ht
ml%253fASIN=B0009VX8XQ%2526tag=ws%2526lcode=xm2%2526cID=2025%2526ccmID=165953
%2526location=/o/ASIN/B0009VX8XQ%25253FAWSAccessKeyId=[AWS Access Key
ID]</DetailPageURL>
  <ItemAttributes>
    <ProductGroup>Apparel</ProductGroup>
    <Title>Mark VII Men's Short Sleeve Herringbone Knit Golf Shirt</Title>
  </ItemAttributes>
</Item>
<Item>
  <ASIN>B0009VX8VI</ASIN>
<DetailPageURL>http://www.amazon.com/exec/obidos/redirect?tag=ws%26link_code=
xm2%26camp=2025%26creative=165953%26path=http://www.amazon.com/gp/redirect.ht
ml%253fASIN=B0009VX8VI%2526tag=ws%2526lcode=xm2%2526cID=2025%2526ccmID=165953
%2526location=/o/ASIN/B0009VX8VI%25253FAWSAccessKeyId=[AWS Access Key
ID]</DetailPageURL>
  <ItemAttributes>
    <ProductGroup>Apparel</ProductGroup>
    <Title>Mark VII Men's Short Sleeve Knit Golf Shirt</Title>
  </ItemAttributes>
</Item>
```

This response shows that two items were similar to the ASINs submitted. The information included with each item is sufficient to display the item for sale.

Response

Name	Description
ASIN	An alphanumeric token that uniquely identifies an item for sale.
DetailPageURL	URL of a web page that displays information about an item for sale.
Item	Container for information about an item, including, DetailPageURL, ItemAttributes, and ASIN.
ItemAttributes	Container for information describing an item, including, ProductGroup and Title.
ProductGroup	Category to which an item belongs. Similar to Search Index.
Title	Name of the item for sale.

For more information about the parent elements of these tags, see the appropriate response group in Response Groups.

Related Operations

ItemSearch using the Similarities response group

TagLookup

Description

The `TagLookup` operation returns entities based on specifying one to five tags. A tag is a descriptive word that a customer uses to label entities on Amazon's retail web site. Entities can be items for sale, Listmania lists, guides, and so forth. For example, a customer might tag a given entity with the phrase, "BestCookbook." For more information, see Tags.

In the tag-related response groups, Tags and TagSummary specify the amount of informtion returned. The other tag-related response groups, TaggedGuides, TaggedItems, and Tagged listmaniaLists, specify the kind of entity tagged.

Availability

US only.

Request Parameters

Name	Description	Required
Count	Number of tagged entities to return per tag. The default is 5; the maximum is 20. Type: Integer Type: String Default: None	No
CustomerId	Alphanumeric token that uniquely identifies a customer. This parameter limits the tags returned to those provided by a single customer. Type: String Default: None Valid Valuex: String	No
Item	Container for attributes that describe an item. This parameter is valid in SOAP requests only. Contraint: SOAP requests only	Conditional
Items	Container for one or more Item objects. This parameter is valid in SOAP requests only. Contraint: SOAP requests only	Conditional

Name	Description	Required
TagPage	Specifies the page of results to return. There are twenty results on a page. Type: Integer Type: String Default: None	No
TagName	Comma separated list of tag names. Up to five tags can be included in a request. Type: String Type: String Default: None	Yes
TagSort	Specifies the sorting order for the results. Type: String Default: -Usages Valid Values: • FirstUsed-Sort by the date the item was first used. • - FirstUsed-Sort by the date the item was last used. • LastUsed-Sort by the date the item was last used. - LastUsed • Name-Alphabetical, A-Z. • - Name-Alphabetical, Z-A. • Usages-Items least used to most used To sort items in descending order, prefix the previous values with a negative sign (-).	No
ResponseGroup	Specifies the types of values to return. You can specify multiple response groups in one request by separating them with commas. Type: String Default: Request | TagsSummary | TaggedItems Valid Values: EditorialReview | ItemAttributes | ItemIds | Large | Medium | Small | TaggedGuides | TaggedListmaniaLists | Tags |	No

`TagLookup` also accepts the parameters that all operations can use. For more information, see, Common Request Parameters.

Response

Name	Description
ASIN	Alphanumeric token that identifies items for sale.
CustomerId	Alphanumeric token that uniquely identifies a customer.
DistinctUsers	Number of different users that created tags for entity.
FirstTagging	Container for information relating to the first time the entity was tagged.
Item	Container for information about an item.
LastTagging	Container for information relating to the last time the entity was tagged.
Name	Tag name.
Tag	Container for information related to Tags
TaggedItems	Container for Tag elements, such as Item and DistinctUsers.
TagName	TAg name.
Tags	Container for all Tag elements.
TagType	Describes the entity tagged, for example, Items.
Time	The time an entity was tagged.
TotalUsages	Number of times tag was accessed.
UserId	Same as the customer ID.

For more information about the parent elements of these tags, see the appropriate response group in Response Groups.

Examples

Find items tagged by a specific customer

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[Access Key ID]&
AssociateTag=[Associate Tag]&
Operation=TagLookup&
ItemId=0545010225&
ResponseGroup=Tags&
Marketplace=us&
Version=2008-06-26&
TagName=tai&
CustomerId=[Customer ID]
```

The response to this request is shown in, Response to Sample Request.

Sample Response

The following XML is a snippet of the full response to the first sample request.

```
<Tag>
  <Name>tai</Name>
  <TagType>Items</TagType>
  <DistinctItems>1</DistinctItems>
  <DistinctUsers>1</DistinctUsers>
  <TotalUsages>1</TotalUsages>
  <FirstTagging>
    <EntityId>B00005A1UV</EntityId>
    <UserId>A2ELLA3OQ06A6Z</UserId>
    <Time>2005-12-07 14:41:52</Time>
  </FirstTagging>
  <LastTagging>
    <EntityId>B00005A1UV</EntityId>
    <UserId>A2ELLA3OQ06A6Z</UserId>
    <Time>2005-12-07 14:41:52</Time>
  </LastTagging>
  <TaggedItems>
    <Item>
      <ASIN>B00005A1UV</ASIN>
    </Item>
  </TaggedItems>
</Tag>
```

Related Operations

- ItemLookup using the Tags amd TagSummary response groups
- ItemSearch using the Tags amd TagSummary response groups

TransactionLookup

Description

The `TransactionLookup` operation returns information about up to ten purchases that have already taken place. Transaction IDs are created whenever a purchase request is made by a customer.

For a specified transaction ID, TransactionLookup returns:

- Price details
- Sale date
- Shipping details
- Seller details
- Item's condition

For privacy reasons, this operation does not return information about the customer who purchased the items.

Finding a Transaction ID

On the retail web site, the Transaction ID is called the Order Number. To find one, point your browser at www.amazon.com. Click on the following links: Your Account>Where's My Stuff? > Open and recently shipped orders. If you have not purchased anything recently, you can use the See More dropdown list to

select, for example, Orders placed in an entire year. On the page that lists the transactions, use the Order Number for the Transaction ID.

Availability

US

Examples

Look up purchase details for TransactionId 002-7777777-7138425.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService
&AWSAccessKeyId=[AWS Access Key ID]
&Operation=TransactionLookup
&TransactionId=002-7777777-7138425
```

The response to this request is shown in, Response to Sample Request.

Request Parameters

Name	Description	Required
TransactionId	A number that uniquely identifies a transaction. The retail web site calls this number the Order number. Type: Number, for example, 002-7777777-7138425 Type: String Default: None	Yes
ResponseGroup	Specifies the types of values to return. You can specify multiple response groups in one request by separating them with commas. Type: String Default: TransactionDetails	No

`TransactionLookup` also accepts the parameters that all operations can use. For more information, see, Common Request Parameters

Sample Response

The following XML is a snippet of the full response to the first sample request.

```
<Transaction>
  <TransactionId>002-7777777-7138425</TransactionId>
  <SellerId>AT9999999999R</SellerId>
  <Condition>Complete</Condition>
  <TransactionDate>2005-06-08T19:19:27</TransactionDate>
  <TransactionDateEpoch>1118258367</TransactionDateEpoch>
  <SellerName>Amazon.com</SellerName>
  <Totals>
    <Total>
      <Amount>1879</Amount>
    <CurrencyCode>USD</CurrencyCode>
```

```
        <FormattedPrice>$18.79</FormattedPrice>
      </Total>
      <Subtotal>
        <Amount>1485</Amount>
        <CurrencyCode>USD</CurrencyCode>
       <FormattedPrice>$14.85</FormattedPrice>
      </Subtotal>
      <Tax>
        <Amount>144</Amount>
        <CurrencyCode>USD</CurrencyCode>
        <FormattedPrice>$1.44</FormattedPrice>
      </Tax>
      <ShippingCharge>
        <Amount>399</Amount>
        <CurrencyCode>USD</CurrencyCode>
        <FormattedPrice>$3.99</FormattedPrice>
      </ShippingCharge>
      <Promotion>
        <Amount>149</Amount>
        <CurrencyCode>USD</CurrencyCode>
        <FormattedPrice>$1.49</FormattedPrice>
      </Promotion>
    </Totals>
    <TransactionItems>
      <TransactionItem>
        <TransactionItemId>jooloslsnpl</TransactionItemId>
        <Quantity>1</Quantity>
        <UnitPrice>
          <Amount>1485</Amount>
          <CurrencyCode>USD</CurrencyCode>
          <FormattedPrice>$14.85</FormattedPrice>
        </UnitPrice>
        <TotalPrice>
          <Amount>1485</Amount>
          <CurrencyCode>USD</CurrencyCode>
          <FormattedPrice>$14.85</FormattedPrice>
        </TotalPrice>
      </TransactionItem>
    </TransactionItems>
  <Shipments>
    <Shipment>
      <Condition>Shipped</Condition>
      <ShipmentItems>
        <TransactionItemId>jooloslsnpl</TransactionItemId>
      </ShipmentItems>
    </Shipment>
  </Shipments>
  </Transaction>
  </Transactions>
```

Response

Name	Description
Amount	Price of the item in terms of the lowest currency denomination, for example, pennies.
Condition	Specifies an item's condition. If Condition is set to "All," a separate set of responses is returned for each valid value of Condition. Valid values are New (default), Used, Collectible, Refurbished, and All. When the Availability parameter is set to "Available," the Condition parameter cannot be set to "New."
CurrencyCode	ISO 4217 three-letter code that specifies the locale's currency.
FormattedPrice	The price to display to the customer.
Promotion	Container for promotion discount.

Name	Description
Quantity	Number of items
SellerId	An alphanumeric token that uniquely identifies a seller.
SellerName	String that is the seller's name.
Shipment	Container for information relating for one shipment to a buyer. here can be multiple shipments to one buyer in one transaction, for example, when one item is ready to ship before another.
ShipmentItems	Container for all items that were shipped to buyer in one shipment.
ShippingCharge	Cost associated with shipping.
Subtotal	Total cost of the items in the transaction. This cost does not include tax, shipping charges, or promotions.
Total	Total cost the customer paid in the transaction. This cost includes tax, shipping charges, or promotions. This is a container for Amount, CurrencyCode, and FormattedPrice.
Totals	This is a container for Total, Subtotal, Tax, ShippingCharges, and Promotions.
TransactionDate	Date when order was created.
TransactionDateEpoch	Date in epoch seconds when order was created.
TransactionId	An alphanumeric token that uniquely identifies the transaction. This ID is called the Order Number on the retail web site in Your Account.
TransactionItem	Transaction data for one item in the transaction. Container for TransactionItemId, quantity, and UnitPrice.
TransactionItemId	An alphanumeric token that uniquely identifies an item in the transaction.
TransactionItems	Container for one or more TransactionItem(s).
UnitPrice	Price for a single item.

For more information about the parent elements of these tags, see the appropriate response group in Response Groups.

Related Operations

None

Common Request Parameters

The following table describes the request parameters that can be used by all Amazon Associates Web Service operations.

Parameter	Definition	Req'd?
AssociateTag	An alphanumeric token that uniquely identifies an Associate. This token is the means by which Amazon	No

Parameter	Definition	Req'd?
	identifies the Associate to credit for a sale. If a request is made without identifying an Associate, Associate fees are not paid by Amazon. If the AssociateTag is included in the `CartCreate` request, the value for AssociateTag is automatically included in the PurchaseURL, which is returned by `CartCreate`. To obtain an Associate Tag, go to http://aws.amazon.com. For more information, see Associate Tag. Valid Values: An alphanumeric token distributed by Amazon that uniquely identifies an Associate. Use this value in all requests to receive credit for the customer's purchase.	
AWSAccessKeyId	An alphanumeric token that uniquely identifies a seller. To get an *AWSAccessKeyId*, go to http://aws.amazon.com. Valid Value: Access Key ID distributed by Amazon.	Yes
ContentType	Specifies the format of the content in the response. Generally, *ContentType* should only be changed for REST requests when the Style parameter is set to an XSLT stylesheet. For example, to transform your Amazon Associates Web Service response into HTML, set *ContentType* to text/html. See *Style*. Default: text/xml Valid Value: text/xml, text html	No
MerchantId	An alphanumeric token distributed by Amazon that uniquely identifies a merchant. The value can be: Valid Values: • All—Items sold by all merchants are included in the response. • Specific merchant—A specific merchant ID. Amazon distributes Merchant IDs to vendors. • Amazon (Default)—Amazon is a specific merchant ID. It is called out separately because it is the default value of the parameter. That is, when you do not specify a merchant ID in a request, only items sold by Amazon are returned. If a request returns no results, try changing the value of *MerchantId* to "All". • FeaturedBuyBoxMerchant—Merchant identified as the Buy Box Winner, which is the vendor associated with the item listed in the Buy Box on an item's detail page. The Buy Box contains the default seller on an item detail page that the customer buys from when they click an Add to Cart button.	No
Operation	Specifies the Amazon Associates Web Service operation to execute. Valid Value: An Amazon Associates Web Service	Yes

Parameter	Definition	Req'd?
	operation, for example, `ItemLookup`	
Service	Specifies the Amazon Associates Web Service service. There is only one value for all Amazon Associates Web Service operations. Valid Value: AWSECommerceService	Yes
Style	Controls the format of the data returned in Amazon Associates Web Service responses. *Style* only pertains to REST requests. Set this parameter to "XML," the default, to generate a pure XML response. Set this parameter to the URL of an XSLT stylesheet to have Amazon Associates Web Service transform the XML response. See *ContentType* Default: XML Valid Values: URL of an XSLT stylesheet .	No
Validate	Prevents an operation from executing. Set the *Validate* parameter to True to test your request without actually executing it. When present, *Validate* must equal True; the default value is False. If a request is not actually executed (Validate=True), only a subset of the errors for a request may be returned because some errors (for example, no_exact_matches) are only generated during the execution of a request. Default: False Valid Values: True, False	No
Version	The version of the Amazon Associates Web Service software and WSDL to use. By default, the 2005-10-05 version is used. Alternately, specify a software version, such as 2006-02-15. For a list of valid version numbers, refer to the Amazon Associates Web Service Release Notes. Note that the latest version of Amazon Associates Web Service is not used by default. Default: 2005-10-05 Valid Values: Valid WSDL version date, for example, 2006-02-15.	No
XMLEscaping	Specifies whether responses are XML-encoded in a single pass or a double pass. By default, *XMLEscaping* is Single, and Amazon Associates Web Service responses are encoded only once in XML. For example, if the response data includes an ampersand character (&), the character is returned in its regular XML encoding (&). If *XMLEscaping* is Double, the same ampersand character is XML-encoded twice (&). The Double value for *XMLEscaping* is useful in some clients, such as PHP, that do not decode text within XML elements.	No

Parameter	Definition	Req'd?
	Default: Single	
	Valid Values: Single, Double	

AssociateTag

The *AssociateTag* parameter is optional in Amazon Associates Web Service requests unless you use it to create a remote shopping cart. Once a cart is associated with an Associate Tag, you must use it in every other cart operation related to that shopping cart. Otherwise, you will receive an error.

If you do not include an Associate Tag in the `CartCreate` request, you will not receive credit as an Associate for the purchase of the items in the customer's shopping cart. If you create a remote shopping cart and later want to add an Associate Tag, you will have to do so manually in the `PurchaseURL` value.

AssociateTag is locale-specific, that is, for each locale in which you want to earn Associate revenue, you must get an Associate Tag. If you try to use a US-locale Associate Tag, for example, in the JP locale, you will not earn Associate revenue.

Be careful when specifying an AssociateTag because errors are not returned for incorrect values.

Response Groups

Response groups help target the information returned. Each operation can only use a subset of all of the available response groups. The following sections explain, for each response group, the:

- Description of the response group.
- Descriptions of the XML elements returned by the response group.
- The ancestry of the element presented using X-path notation.
- Child response groups, which are the response groups that are included in a response group. For example, the Large response group includes the results returned by the ItemAttributes response group.
- Parent response groups, which are response groups that include in the response group. For example, the ItemAttributes response group is included in the Large response group, so, the Large response group is a parent of the ItemAttributes response group.

Amazon Associates Web Service includes the following response groups:

• Accessories	• ListFull	• Seller
• AlternateVersions	• ListInfo	• SellerListing
• BrowseNodeInfo	• ListItems	• Similarities
• BrowseNodes	• ListmaniaLists	• Small
• Cart	• ListMinimum	• Subjects
• CartNewReleases	• Medium	• TaggedGuides
• CartTopSellers	• MerchantItemAttributes	• TaggedItems
• CartSimilarities	• MostGifted	• TaggedListmaniaLists
• Collections	• MostWishedFor	• Tags

• CustomerFull	• NewReleases	• TagsSummary
• CustomerInfo	• OfferFull	• TopSellers
• CustomerLists	• OfferListings	• Tracks
• CustomerReviews	• Offers	• TransactionDetails
• EditorialReview	• OfferSummary	• VariationMinimum
• Help	• PromotionDetails	• Variations
• Images	• PromotionSummary	• VariationImages
• ItemAttributes	• RelatedItems	• VariationMatrix
• ItemIds	• Request	• VariationOffers
• Large	• Reviews	• VariationSummary
	• SalesRank	
	• SearchBins	

Accessories Response Group

The Accessories response group returns up to five ASINs and titles of accessories associated with items in the response. For example, if you performed an ItemLookup of a specific ASIN, say, a camera, and included in the request the Accessories response group, the response would include, by default, the titles and ASINs of up to the first ten accessories associated with the ASIN. The accessories for the camera might might include a camera case, lens, filters, and so forth.

Relevant Operations

Operations that can use this response group include:

- SimilarityLookup
- ItemLookup
- ItemSearch
- ListLookup

Response Elements

The following table describes the elements returned by Accessories.

- ASIN
- Title
- TotalPages
- TotalResults

Parent Response Group

The following response groups are parent response groups of Accessories.

- Large

Child Response Group

The following response groups are child response groups of Accessories.

• None

Sample REST Use Case

All locales.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateTag=[Associate ID]&
Operation=ItemLookup&
IdType=ASIN&
ItemId=B00008OE6I&
ResponseGroup=Accessories&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by Accessories.

```
<Item>
  <ASIN>B00008OE6I</ASIN>
  <Accessories>
    <Accessory>
      <ASIN>B00003G1RG</ASIN>
      <Title>Viking 128 MB CompactFlash Card (CF128M)</Title>
    </Accessory>
    <Accessory>
      <ASIN>B00004WCCT</ASIN>
      <Title>Canon Soft Leather Case for Canon Digital ELPH Cameras
      (Black)</Title>
    </Accessory>
    <Accessory>
      <ASIN>B000051408</ASIN>
      <Title>SimpleTech STI-CF/128 128MB CompactFlash Card</Title>
    </Accessory>
  </Accessories>
```

AlternateVersions Response Group

The AlternateVersions response group returns all of the available media formats for a book title. Sample formats include Paperback, Audio CD, Audio Cassette, and Hardcover. This response group works only with the Books and ForeignBooks product categories, that is, for ItemSearch and ItemLookup, the search index must be Books or, in non-US locales, ForeignBooks, and, for ItemLookup, the specified item must be a book or foreign book.

The following list shows the complete set of formats that AlternateVersions can return.

• 3.5" disk	• Foam Book	• Plastic Comb
• Accessory	• Game	• Pop-Up
• Audio CD	• Gift	• Poster
• Audio Download	• Hardcover	• Rag Book
• Audio Reel Tape	• Hardcover Comic	• Ring-bound

• Bargain Book	• Journal	• Roughcut
• Bath Book	• Laser Disc	• School & Library Binding
• Board book	• Leather Bound	• Sheet music
• Calendar	• Library Binding	• Slide
• Card Book	• Loose Leaf	• Software
• Cards	• Map	• Spiral-bound
• Cassette audio	• Mass Market Paperback	• Stationery
• CD-ROM	• Microfiche	• Textbook Binding
• Comic	• Mini-Disc	• Turtleback
• Diary	• Misc.	• Unbound
• Digital	• Misc. Supplies	• Unknown Binding
• Diskette	• MP3 CD	• Wall Chart
• DVD Audio	• Paperback	• Workbook
• DVD-ROM	• Perfect	
• Film	• Personal Computers	

Relevant Operations

Operations that can use this response group include:

- ItemSearch, when the search index is Books or, in non-US locales, ForeignBooks
- ItemLookup when the specified item is a book or foreign book and, if a search index is specified, the value must be Books or, in non-US locales, ForeignBooks

Response Elements

The following table describes and shows the parentage of the elements returned by AlternateVersions.

- AlternateVersion
- ASIN
- Binding
- Title

AlternateVersions also returns the elements that all response groups return, which described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of AlternateVersions.

- None

Child Response Group

The following response groups are children response groups of AlternateVersions.

• None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by AlternateVersions.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
Operation=ItemSearch&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateTag=ws&
SearchIndex=Books&
Keywords=potter&MerchantId=All&
ResponseGroup=AlternateVersions&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by AlternateVersions.

```
<AlternateVersions>
  <AlternateVersion>
    <ASIN>030728364X</ASIN>
    <Title>Harry Potter and the Half-Blood Prince (Book 6)</Title>
    <Binding>Audio Cassette</Binding>
  </AlternateVersion>
  <AlternateVersion>
    <ASIN>0307283658</ASIN>
    <Title>Harry Potter and the Half-Blood Prince (Book 6)</Title>
    <Binding>Audio CD</Binding>
  </AlternateVersion>
  <AlternateVersion>
    <ASIN>0439785960</ASIN>
    <Title>
    Harry Potter And The Half-Blood Prince (Harry Potter, Book 6) (Harry Pot
ter)
    </Title>
    <Binding>Paperback</Binding>
  </AlternateVersion>
  <AlternateVersion>
    <ASIN>0439786770</ASIN>
    <Title>
    Harry Potter and the Half-Blood Prince (Book 6) [LIBRARY EDITION]
    </Title>
    <Binding>Library Binding</Binding>
  </AlternateVersion>
```

BrowseNodeInfo Response Group

For a given browse node ID, the BrowseNodeInfo response group returns the browse node name and ID of the child and parent browse nodes.

One application of this information is to use the child and parent browse nodes to traverse the browse node hierarchy to either refine a search (child nodes) or to generalize a search (parent nodes). You do that using BrowseNodeLookup one or more times. Refining a search enables you to return more highly targeted results. Generalizing a response enables you to find what product category a browse node belongs to.

This response group is similar to the BrowseNodes response group. The difference is that the BrowseNodes response group is used with operations, including ItemSearch, ItemLookup, ListLookup, and SimilarityLookup, that are based on item attributes, search indices, and lists, and potentially return multiple items. BrowseNodeInfo can only be used with BrowseNodeLookup and the search is always

keyed on a browse node ID.

Relevant Operations

Operations that can use this response group include:

- BrowseNodeLookup

Response Elements

The following table describes the elements returned by BrowseNodeInfo.

- BrowseNodeId
- Name

As you can see from this table, BrowseNodeInfo returns the identity of child and parent browse nodes. That information is typically used with BrowseNodeLookup to traverse the browse node hierarchy.

Parent Response Group

The following response groups are parent response groups of BrowseNodeInfo.

- None

Child Response Group

The following response groups are child response groups of BrowseNodeInfo.

- None

Sample REST Use Case

All locales.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=BrowseNodeLookup&
BrowseNodeId=11232&
ResponseGroup=BrowseNodeInfo&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by BrowseNodeInfo.

```
<Item>
<ASIN>0131856340</ASIN>
<BrowseNodes>
  <BrowseNode>
  <BrowseNodeId>11232</BrowseNodeId>
  <Name> Social Sciences</Name>
  <Ancestors>
    <BrowseNode>
      <BrowseNodeId>53</BrowseNodeId>
```

```
      <Name>Nonfiction</Name>
      <Ancestors>
        <BrowseNode>
          <BrowseNodeId>1000</BrowseNodeId>
          <Name>Subjects</Name>
          <Ancestors>
            <BrowseNode>
              <BrowseNodeId>283155</BrowseNodeId>
              <Name>Books</Name>
            </BrowseNode>
          </Ancestors>
        </BrowseNode>
      </Ancestors>
    </BrowseNode>
  </Ancestors>
  <Children>
    <BrowseNode>
      <BrowseNodeId>11233</BrowseNodeId>
      <Name>Anthropology</Name>
    </BrowseNode>
    <BrowseNode>
      <BrowseNodeId>11242</BrowseNodeId>
      <Name>Archaeology</Name>
    </BrowseNode>
    <BrowseNode>
      <BrowseNodeId>3048861</BrowseNodeId>
      <Name>Children's Studies</Name>
    </BrowseNode>
  </Children>
</BrowseNodes>
```

Notice in this response snippet that the child nodes are all at the same level in the hierarchical browse node tree, which is the level directly beneath the browse node in the request, 11232, Social Science. The parent nodes, however, show the entire lineage of browse nodes from Social Science all the way up the browse node tree to the root browse node, Books, 283155. Only one lineage, however, is returned. If a single node has multiple parents, only one of those parents is returned.

BrowseNodes Response Group

The BrowseNodes response group returns the browse node names and IDs associated with the items returned in the response. The response group also returns the names and IDs of the child and parent browse nodes of the items returned in the response.

It is possible for one item to belong to multiple browse nodes. So, it is common to see multiple hierarchies of browse nodes for a single item.

Some products, such as parent ASINs, do not return information in the BrowsesNodes response group.

This response group is similar to the BrowseNodeInfo response group. The difference is that the BrowseNodes response group is used with operations that are based on item attributes, search indices, and lists. These operations typically return multiple items. BrowseNodeInfo can only be used with BrowseNodeLookup and the search is always keyed on a browse node ID.

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes the elements returned by BrowseNodes.

- BrowseNodeId
- IsCategoryRoot
- Name
- TotalPages
- TotalResults

Parent Response Group

The following response groups are parent response groups of BrowseNodes.

- None

Child Response Group

The following response groups are child response groups of BrowseNodes.

- None

Sample REST Use Case

All locales.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=BrowseNodeLookup&
SearchIndex=Books&
Keywords=Potter&
ResponseGroup=BrowseNodes&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by BrowseNodes.

```
<Item>
  <ASIN>B000002ADT</ASIN>
  <BrowseNodes>
    <BrowseNode>
    <BrowseNodeId>63926</BrowseNodeId>
    <Name>General</Name>
    <Ancestors>
      <BrowseNode>
        <BrowseNodeId>34</BrowseNodeId>
        <Name>Jazz</Name>
        <Ancestors>
          <BrowseNode>
            <BrowseNodeId>301668</BrowseNodeId>
            <Name>Styles</Name>
          </BrowseNode>
        </Ancestors>
      </BrowseNode>
    </Ancestors>
```

```
 </Ancestors>
</BrowseNode>
<BrowseNode>
  <BrowseNodeId>598176</BrowseNodeId>
  <Name>Hard Bop</Name>
  <Ancestors>
    <BrowseNode>
      <BrowseNodeId>598174</BrowseNodeId>
      <Name>Bebop</Name>
      <Ancestors>
        <BrowseNode>
          <BrowseNodeId>34</BrowseNodeId>
          <Name>Jazz</Name>
            <Ancestors>
              <BrowseNode>
                <BrowseNodeId>301668</BrowseNodeId>
                <Name>Styles</Name>
              </BrowseNode>
            </Ancestors>
        </BrowseNode>
      </Ancestors>
    </BrowseNode>
  </Ancestors>
</BrowseNode>
</BrowseNodes>
</Item>
</Items>
```

Cart Response Group

The Cart response group provides information about a specified remote shopping cart and the items in it. The cart information includes:

- CartId
- HMAC
- PurchaseURL

For each item in the cart, including SavedForLaterItems, the response group returns:

- CartItemId
- ProductName
- ASIN
- Quantity
- ListPrice
- OurPrice

Relevant Operations

Operations that can use this response group include:

- CartAdd
- CartCreate
- CartModify
- CartGet
- CartClear

Response Elements

The following table describes the elements returned by Cart.

- Amount
- ASIN
- CartId
- CartItem
- CartItemId
- CartItems
- CurrencyCode
- ExchangeId
- FormattedPrice
- HMAC
- ListOwner
- ListType
- ListType
- MerchantId
- ParentASIN
- Price
- ProductGroup
- ProductGroup
- PurchaseURL
- Quantity
- SavedForLaterItem
- SellerId
- SellerNickname
- Title
- URLEncodedHMAC

Parent Response Group

The following response groups are parent response groups of Cart.

- None

Child Response Group

The following response groups are child response groups of Cart.

- None

Sample REST Use Case

All locales.

```
http://ecs.amazonaws.com/onca/xml?
```

```
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateId=ws&
Operation=CartCreate&
Item.1.ASIN=B000062TU1&
MergeCart=True&
Item.1.Quantity=2&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by Cart.

```
<Cart>
  <Request>
  <IsValid>True</IsValid>
    <CartCreateRequest>
    <MergeCart>True</MergeCart>
    <Items>
      <Item>
        <ASIN>B000062TU1</ASIN>
        <Quantity>2</Quantity>
      </Item>
    </Items>
    </CartCreateRequest>
  </Request>
  <CartId>002-5281165-2803250</CartId>
  <HMAC>5i1uO0G/PHqkvxZqC8oRkzmCano=</HMAC>
  <URLEncodedHMAC>5i1uO0G%2FPHqkvxZqC8oRkzmCano%3D</URLEncodedHMAC>
<PurchaseURL>https://www.amazon.com/gp/cart/aws-merge.html?cart-id=002-528116
5-2803250%26associate-id=ws%26hmac=5i1uO0G/PHqkvxZqC8oRkzmCano=%26Subscriptio
nId=1VMXF86PGNDAX3FW9C02%26MergeCart=True</PurchaseURL>
  <SubTotal>
    <Amount>1994</Amount>
    <CurrencyCode>USD</CurrencyCode>
    <FormattedPrice>$19.94</FormattedPrice>
  </SubTotal>
  <CartItems>
    <SubTotal>
      <Amount>1994</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$19.94</FormattedPrice>
    </SubTotal>
  <CartItem>
  <CartItemId>U2ABORWEFJ0WZP</CartItemId>
  <ASIN>B000062TU1</ASIN>
  <MerchantId>ATVPDKIKX0DER</MerchantId>
  <SellerId>A2R2RITDJNW1Q6</SellerId>
  <SellerNickname>Amazon.com, LLC</SellerNickname>
  <Quantity>2</Quantity>
  <Title>Harry Potter and the Sorcerer's Stone (Full Screen Edition) (Harry
Potter 1)</Title>
  <ProductGroup>DVD</ProductGroup>
      <Price>
      <Amount>997</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$9.97</FormattedPrice>
    </Price>
    <ItemTotal>
      <Amount>1994</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$19.94</FormattedPrice>
    </ItemTotal>
  </CartItem>
</CartItems>
</Cart>
```

CartNewReleases Response Group

The CartNewReleases response group returns the ASINs and titles of the top five new releases in the root category of the item specified in the cart operation. For example, when adding a television to a cart the top five new releases in the root category, electronics, are returned.

One use of this response group is to suggest to customers additional items to buy.

Availability

This response group is available in the US locale only.

Relevant Operations

Operations that can use this response group include:

- CartAdd
- CartCreate
- CartModify
- CartGet

Response Elements

The following table describes the elements returned by CartNewReleases.

- ASIN
- Title

Parent Response Group

The following response groups are parent response groups of CartNewReleases.

- None

Child Response Group

The following response groups are child response groups of CartNewReleases.

- None

Sample REST Use Case

All locales.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateId=ws&
Operation=CartCreate&
Item.1.ASIN=B000062TU1&
MergeCart=True&
Item.1.Quantity=2&
```

```
ResponseGroup=CartNewReleases&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by CartNewReleases.

```
<NewReleases>
  <NewRelease>
    <ASIN>B00005JOFQ</ASIN>
    <Title>Brokeback Mountain (Widescreen Edition)</Title>
  </NewRelease>
  <NewRelease>
    <ASIN>B000EHRVMY</ASIN>
    <Title>Memoirs of a Geisha (Widescreen 2-Disc Special Edition)</Title>
  </NewRelease>
</NewReleases>
```

CartTopSellers Response Group

The CartTopSellers response group returns the ASINS and titles of the top five, best sellers in the root category of the item specified in the cart operation. For example, when adding a television to a cart, the five top sellers in the root category, electronics, are returned, for example, the top selling computers, MP3 players, or digital cameras.

Use this response group to specify additional, related items to buy.

Availability

This response group is available in the US locale only.

Relevant Operations

Operations that can use this response group include:

- CartAdd
- CartCreate
- CartModify
- CartGet

Response Elements

The following table describes the elements returned by CartTopSellers.

- ASIN
- Title

CartTopSellers also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of CartTopSellers.

• None

Child Response Group

The following response groups are child response groups of CartTopSellers.

• None

Sample REST Use Case

All locales.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateId=ws&
Operation=CartCreate&
Item.1.ASIN=B000062TU1&
MergeCart=True&
Item.1.Quantity=2&
ResponseGroup=CartTopSellers&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by CartTopSellers.

```
<TopSellers>
<TopSeller>
  <ASIN>B00005JOFQ</ASIN>
  <Title>Brokeback Mountain (Widescreen Edition)</Title>
  </TopSeller>
<TopSeller>
  <ASIN>B000E6EK3S</ASIN>
  <Title>Harry Potter and the Goblet of Fire (Widescreen Two-Disc Deluxe Edi
tion) (Harry Potter 4)</Title>
  </TopSeller>
  </TopSellers>
```

CartSimilarities Response Group

The CartSimilarities response group returns the title and ASINs of items that:

• Are similar to the item specified in the request. These results, tagged in the XML response with
  <SimilarProducts> and <SimilarProduct>, are displayed on the retail web site under the heading,
  "Customers who bought this [item] also bought."
• Have been viewed by customers who also viewed the the item specified in the request. These results,
  tagged in the XML response with <SimilarViewedProducts> and <SimilarViewedProduct>, are
  displayed on the retail web site under the heading, "Customers who viewed this [item] also viewed"
• Can be found in other categories that are similar to the item specified in the request. These results,
  tagged in the XML response with <OtherCategoriesSimilarProducts> and
  <OtherCategoriesSimilarProduct>, are displayed on the retail web site under the heading, "Explore
  Similar Items," which falls under the heading, "Customers who bought this [item] also bought."

This response group returns a number of items similar to the one the customer added to the shopping
cart. The response group is used typically to spur the customer's interest in purchasing additional items.

Relevant Operations

Operations that can use this response group include:

- CartAdd
- CartCreate
- CartModify
- CartGet

Response Elements

The following table describes the elements returned by CartSimilarities.

- ASIN
- OtherCategoriesSimilarProducts
- SimilarProducts
- SimilarViewedProducts
- Title

CartSimilarities also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of CartSimilarities.

- None

Child Response Group

The following response groups are child response groups of CartSimilarities.

- None

Sample REST Use Case

All locales.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
AssociateId=ws&
Operation=CartCreate&
Item.1.ASIN=B000062TU1&
MergeCart=True&
Item.1.Quantity=2&
ResponseGroup=CartSimilarities&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by CartSimilarities.

```
<SimilarProducts>
  <SimilarProduct>
    <ASIN>B00008DDXC</ASIN>
    <Title>Harry Potter and the Chamber of Secrets (Widescreen Edition)
(Harry Potter 2)</Title>
  </SimilarProduct>
</SimilarProducts>
<SimilarViewedProducts>
  <SimilarViewedProduct>
    <ASIN>B000E6UZZK</ASIN>
    <Title>Harry Potter Years 1-4 (Harry Potter and the Sorcerer's Stone /
Chamber of Secrets / Prisoner of Azkaban / Goblet of Fire) (Widescreen Edi
tion)</Title>
  </SimilarViewedProduct>
</SimilarViewedProducts>
<OtherCategoriesSimilarProducts>
  <OtherCategoriesSimilarProduct>
    <ASIN>0590353403</ASIN>
    <Title>Harry Potter and the Sorcerer's Stone (Book 1)</Title>
  </OtherCategoriesSimilarProduct>
</OtherCategoriesSimilarProducts>
```

Collections Response Group

For every item returned in a response, the items associated with it are also returned if the Collections response group is used in the request. Items in collections are related thematically. For example, all of the linens that go into a bedroom might be associated in a bedding collection. The Collections response group returns the ASINs and titles of the items in a collection.

For more information, see Displaying Collections.
If an item is part of a collection and that item is returned in a response, all of the other items in the collection are also returned if the request contains the Collections response group.

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch

Response Elements

The following table describes and shows the parentage of the elements returned by Collections.

- ASIN
- Collection
- CollectionItem
- CollectionParent
- Collections
- Title

Parent Response Group

The following response groups are parent response groups of Collections.

• None

Child Response Group

The following response groups are children response groups of Collections.

• None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by Collections.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKey=[Access Key ID]&
Operation=ItemLookup&
ItemId=B000ALMQ9C&
ResponseGroup=ItemIds,Collections&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by Collections.

```
<Collections>
  <Collection>
    <CollectionParent>
      <ASIN>B0006PLAOE</ASIN>
      <Title>Fieldcrest® Classic Bedding Collection GarnetIvory</Title>
    </CollectionParent>
    <CollectionItem>
      <ASIN>B00067IV8U</ASIN>
      <Title>Fieldcrest® Classic Solid Sheets Garnet</Title>
    </CollectionItem>
    <CollectionItem>
      <ASIN>B000673NE2</ASIN>
      <Title>Fieldcrest® Classic Solid Pillowcases Set of 2 Garnet</Title>
    </CollectionItem>
    <CollectionItem>
      <ASIN>B00065WTJY</ASIN>
      <Title>Fieldcrest® Classic Dobby Pillowcases Set of 2 Garnet</Title>
    </CollectionItem>
  </Collection>
</Collections>
```

CustomerFull Response Group

The CustomerFull response group returns all of the content created by a customer, including:

• CustomerInfo information: CustomerId, Name, Nickname, and Location (City and State)
• CustomerList information: WishList IDs belonging to each customer listed in the response.
• CustomerReviews information: TotalHelpfulVotes, and Reviews
• The About Me message that appears on each Amazon customer's member page
• Customer's birthday

All of this information is returned only if the customer has chosen to make it public. Privacy choices are implemented by the customer in the Your Account web page that is accessible from Amazon's retail

web site.

Relevant Operations

Operations that can use this response group include:

- CustomerContentLookup

Response Elements

The following table describes the elements returned by CustomerFull.

- AboutMe
- ASIN
- Birthday
- City
- Content
- Country
- CustomerId
- CustomerReviews
- Date
- HelpfulVotes
- Nickname
- Rating
- State
- Summary
- TotalVotes
- TotalReviewPages
- TotalReviews
- TotalPages
- TotalResults
- WishListId

CustomerFull also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of CustomerFull.

- None

Child Response Group

The following response groups are child response groups of CustomerFull.

- CustomerInfo

- CustomerLists
- CustomerReviews

Sample REST Use Case

All locales.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=CustomerContentLookup&
CustomerId=[Customer ID]&
ResponseGroup=CustomerFull&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by CustomerFull.

```
<Customer>
  <CustomerId>ABCDEFG12345</CustomerId>
  <Nickname>jeff</Nickname>
  <WishListId>ABCDEF12345</WishListId>
  <CustomerReviews>
      <TotalReviews>8</TotalReviews>
      <TotalReviewPages>1</TotalReviewPages>
      <Review>
        <ASIN>6305692688</ASIN>
        <Rating>1</Rating>
        <HelpfulVotes>21</HelpfulVotes>
        <TotalVotes>35</TotalVotes>
        <Date>2000-02-29</Date>
        <Summary>one star is indeed one too many</Summary>
        <Content>Let's face facts. This is a terrible, terrible movie. We
have to guess that all involved in this project are hiding. Really, I'm gen
erally quite easy on movies, but this endless stream of uninteresting battle
scenes with pointless dialogue and no discernable plot is perhaps one of the
worst movies ever made. Sorry if this seems harsh, but I just don't want any
one to buy it unknowingly.
        </Content>
      </Review>
```

CustomerInfo Response Group

For each customer in the response, the CustomerInfo response group returns the customer's Nickname and CustomerId. This response group will only return information that customers have chosen to make public through www.amazon.com.

Relevant Operations

Operations that can use this response group include:

- CustomerContentLookup
- CustomerContentSearch

Response Elements

The following table describes the elements returned by CustomerInfo.

- CustomerId
- City
- Country
- Nickname
- State
- TotalPages
- TotalResults

CustomerInfo also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of CustomerInfo.

- None

Child Response Group

The following response groups are child response groups of CustomerInfo.

- None

Sample REST Use Case

All locales.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=CustomerContentLookup&
CustomerId=[Customer ID]&
ResponseGroup=CustomerInfo&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by CustomerInfo.

```
<Customer>
  <CustomerId>ABCDEFG123456</CustomerId>
  <Nickname>jeff</Nickname>
</Customer>
```

CustomerLists Response Group

The CustomerLists response group returns the WishList IDs created by each customer in the response.

The WishList IDs are returned only if the customer has choosen to make the WishList public. Privacy choices are implemented by the customer in the Your Account web page that is accessible from Amazon's retail web site.

Relevant Operations

Operations that can use this response group include:

- CustomerContentLookup

Response Elements

The following table describes the elements returned by CustomerLists.

- CustomerId
- WishListId

CustomerLists also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of CustomerLists.

- None

Child Response Group

The following response groups are child response groups of CustomerLists.

- None

Sample REST Use Case

All locales.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=CustomerContentLookup&
CustomerId=ABCDEF123456&
ResponseGroup=CustomerLists&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by CustomerLists.

```
<Customer>
  <CustomerId>ABCDEFG12345</CustomerId>
  <WishListId>123456ABCDEF</WishListId>
</Customer>
```

CustomerReviews Response Group

For each customer in the response, the CustomerReviews response group returns:

- ReviewerRank
- TotalHelpfulVotes
- Reviews

Reviews include:

- ASIN reviewed
- Product rating
- Number of HelpfulVotes
- Number of TotalVotes
- Review Summary
- Review Comment
- DateOfReview

All of this information is returned only if the customer has chosen to make it public. Privacy choices are implemented by the customer in the Your Account web page that is accessible from Amazon's retail web site.

This response group is only valid in the US locale.

Relevant Operations

Operations that can use this response group include:

- CustomerContentLookup

Response Elements

The following table describes the elements returned by CustomerReviews. In the Ancestry column, the elements on the left side of a slash mark are the parents of the elements on the right side of the slash mark.

- ASIN
- CustomerReviews
- Content
- Date
- HelpfulVotes
- Rating
- Summary
- TotalVotes
- TotalReviewPages
- TotalReviews

CustomerReviews also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of CustomerReviews.

• None

Child Response Group

The following response groups are child response groups of CustomerReviews.

• None

Sample REST Use Case

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=CustomerContentLookup&
CustomerId=[ID]&
ResponseGroup=CustomerReviews&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by CustomerReviews.

```
<Customer>
  <CustomerId>A2KEKKJ9CAC2KC</CustomerId>
  <CustomerReviews>
  <TotalReviews>8</TotalReviews>
  <TotalReviewPages>1</TotalReviewPages>
  <Review>
    <ASIN>6305692688</ASIN>
    <Rating>1</Rating>
    <HelpfulVotes>21</HelpfulVotes>
    <TotalVotes>35</TotalVotes>
    <Date>2000-02-29</Date>
    <Summary>one star is indeed one too many</Summary>
    <Content>Let's face facts. This is a terrible, terrible movie. We have to
guess that all involved in this project are hiding. Really, I'm generally
quite easy on movies, but this endless stream of uninteresting battle scenes
with pointless dialogue and no discernable plot is perhaps one of the worst
movies ever made. Sorry if this seems harsh, but I just don't want anyone to
buy it unknowingly.
    </Content>
  </Review>
```

EditorialReview Response Group

For each item in the response, the EditorialReview response group returns Amazon's review of the item, which, on the Detail page, is labeled the Product Description.

Relevant Operations

Operations that can use this response group include:

• ItemLookup
• ItemSearch
• ListLookup
• SimilarityLookup

Response Elements

The following table describes the elements returned by EditorialReview.

- Content
- EditorialReviewIsLinkSuppressed
- Source

EditorialReview also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of EditorialReview.

- None

Child Response Group

The following response groups are child response groups of EditorialReview.

- None

Sample REST Use Case

All locales.

```
http://ecs.amazonaws.jp/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&Keywords=Fable&
SearchIndex=Blended&
ResponseGroup=EditorialReview&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by EditorialReview.

```
<EditorialReviews>
  <EditorialReview>
    <Source>From Amazon.com</Source>
    <Content>Considered by many to be the last great musical comedy, then the
rest of the review continues here.
    </Content>
  </EditorialReview>
</EditorialReviews>
```

Help Response Group

The Help response group returns information about operations and response groups. Information returned about operations includes:

- Operation name
- Operation description
- Required parameters for the operation
- AvailableParameters
- Default response group
- Available response groups for the operation specified in the About parameter of the Help operation

Information returned about response groups includes:

- Response group name
- Creation date
- Names of operations that can use the response group
- Available versions
- List of the child elements composing the response group

This information is useful when creating a developer tool that helps create Amazon Associates Web Service applications.

Relevant Operations

Operations that can use this response group include:

- Help

Response Elements

The following table describes the elements returned by Help.

- CreationDate
- Element
- Name
- Operation
- Parameter
- ResponseGroup
- Version

Help also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of Help.

- None

Child Response Group

The following response groups are child response groups of Help.

• None

Sample REST Use Case

All locales.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=Help&
HelpType=Operation&
About=CustomerContentLookup&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by Help.

```
<OperationInformation>
  <Name>CustomerContentLookup</Name>
  <RequiredParameters>
    <Parameter>CustomerId</Parameter>
  </RequiredParameters>
  <AvailableParameters>
    <Parameter>AssociateTag</Parameter>
    <Parameter>ContentType</Parameter>
     <Parameter>Marketplace</Parameter>
    <Parameter>MarketplaceDomain</Parameter>
    <Parameter>ReviewPage</Parameter>
    <Parameter>Style</Parameter>
    <Parameter>Validate</Parameter>
    <Parameter>Version</Parameter>
    <Parameter>XMLEscaping</Parameter>
  </AvailableParameters>
  <DefaultResponseGroups>
    <ResponseGroup>Request</ResponseGroup>
    <ResponseGroup>CustomerInfo</ResponseGroup>
  </DefaultResponseGroups>
  <AvailableResponseGroups>
    <ResponseGroup>Request</ResponseGroup>
    <ResponseGroup>CustomerInfo</ResponseGroup>
    <ResponseGroup>CustomerReviews</ResponseGroup>
    <ResponseGroup>CustomerLists</ResponseGroup>
    <ResponseGroup>CustomerFull</ResponseGroup>
  </AvailableResponseGroups>
</OperationInformation>
```

Images Response Group

The Images response group returns the URLs to all available images of an item in three sizes: small, medium, and large. For example, if a blender is for sale and there are four images of it, this response group returns the URLs of twelve images: four images, each in three sizes.

In addition to returning the URLs of the images, the response groups also returns the height and width dimensions of each image. Use these values to help you display the images correctly.

The images returned are associated with the merchant selling the item. For that reason, you must specify the merchant ID in the request when you use the Images response group. MerchantId, however, defaults to "Amazon." So, if the item is being sold by Amazon, specifying a MerchantId is not required. If you do not specify a MerchantId and a merchant other than Amazon is selling the item, Amazon Associates Web Service will not return images.

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes the elements returned by the Images response group.

- Height
- LargeImage
- MediumImage
- SmallImage
- SwatchImage
- ThumbnailImage
- TinyImage
- TotalPages
- TotalResults
- URL
- Width

Images also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of the Images response group.

- None

Child Response Group

The following response groups are child response groups of the Images response group.

- None

Sample REST Use Case

All locales.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
ItemId=B000Q678OO&
```

```
ResponseGroup=Images&
SearchIndex=Blended&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by the Images response group.

```
<Item>
  <ASIN>B000Q678OO</ASIN>
  <SmallImage>
  <URL>http://ecx.images-amazon.com/images/I/51YL4rlI%2B9L._SL75_.jpg</URL>
  <Height Units="pixels">75</Height>
  <Width Units="pixels">58</Width>
  </SmallImage>
  <MediumImage>
  <URL>http://ecx.images-amazon.com/images/I/51YL4rlI%2B9L._SL160_.jpg</URL>
  <Height Units="pixels">160</Height>
  <Width Units="pixels">124</Width>
  </MediumImage>
  <LargeImage>
  <URL>http://ecx.images-amazon.com/images/I/51YL4rlI%2B9L.jpg</URL>
  <Height Units="pixels">500</Height>
  <Width Units="pixels">389</Width>
  </LargeImage>

<ImageSets>
  <ImageSet Category="primary">
  <SwatchImage>
  <URL>http://ecx.images-amazon.com/images/I/51YL4rlI%2B9L._SL30_.jpg</URL>
  <Height Units="pixels">30</Height>
  <Width Units="pixels">23</Width>
  </SwatchImage>
  <SmallImage>
  <URL>http://ecx.images-amazon.com/images/I/51YL4rlI%2B9L._SL75_.jpg</URL>
  <Height Units="pixels">75</Height>
  <Width Units="pixels">58</Width>
  </SmallImage>
  <ThumbnailImage>
  <URL>http://ecx.images-amazon.com/images/I/51YL4rlI%2B9L._SL75_.jpg</URL>
  <Height Units="pixels">75</Height>
  <Width Units="pixels">58</Width>
  </ThumbnailImage>
  <TinyImage>
  <URL>http://ecx.images-amazon.com/images/I/51YL4rlI%2B9L._SL110_.jpg</URL>
  <Height Units="pixels">110</Height>
  <Width Units="pixels">86</Width>
  </TinyImage>
  <MediumImage>
  <URL>http://ecx.images-amazon.com/images/I/51YL4rlI%2B9L._SL160_.jpg</URL>
  <Height Units="pixels">160</Height>
  <Width Units="pixels">124</Width>
  </MediumImage>
  <LargeImage>
  <URL>http://ecx.images-amazon.com/images/I/51YL4rlI%2B9L.jpg</URL>
  <Height Units="pixels">500</Height>
  <Width Units="pixels">389</Width>
  </LargeImage>
 </ImageSet>
</ImageSets>
```

The images are returned in two ways: under <Item> and under <ImageSets>. The images under under <Item> are specified by the <SmallImage> , <MediumImage> , and <LargeImage> elements.

The sizes of the images under <ImageSets> are specified by the _SLXXX_ suffix in the URL, where XXX is the number of pixels on the longest side of the image. A medium size image, for example, has 160 pixels on its longest side so it has the suffix _SL160_. This is the preferred way to reference images.

The ImageSets element attribute, Category, is set to Primary. Primary images are the same images that appear in the <Item> section.

ItemAttributes Response Group

The ItemAttributes response group returns a potentially large number of attributes that describe an item. For example, an item in the Camera and Photo search index might return the attributes, height, width, weight, title, UPC, price, manufacture, zoom ratio, number of megapixels, and carrying case.

All search indices can return all item attributes. The number of item attributes returned, however, varies by ASIN. Typically, ASINs within the same search index return the same item attributes. For example, you would expect the item attributes returned for an item in the "Books" search index to be different from those returned for an item in the "Camera and Photo" search index. But all items within a single search index do not necessarily return the same attributes. For that reason, it is impossible to predict exactly which item attributes will be returned in a response.

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes the elements returned by ItemAttributes.

- Actor
- Address1
- Address2
- Address3
- AmazonMaximumAge
- AmazonMinimumAge
- Amount
- ApertureModes
- Artist
- ASIN
- AspectRatio
- AudienceRating
- AudioFormat
- Author
- BackFinding
- BandMaterialType
- Batteries
- BatteriesIncluded
- BatteryDescription

- BatteryType
- BezelMaterialType
- Binding
- Brand
- CalendarType
- CameraManualFeatures
- CaseDiameter
- CaseMaterialType
- CaseThickness
- CaseType
- CDRWDescription
- ChainType
- City
- ClaspType
- ClothingSize
- Color
- Compatibility
- CPUManufacturer
- CPUSpeed
- CPUType
- Creator
- CurrencyCode
- Day
- DelayBetweenShots
- Department
- DetailPageURL
- DeweyDecimalNumber
- DialColor
- DialWindowMaterialType
- DigitalZoom
- Director
- DisplaySize
- DVDLayers
- DVDRWDescription
- DVDSides
- EAN
- Edition
- EpisodeSequence
- ESRBAgeRating
- ExternalDisplaySupportDescription
- FabricType
- FaxNumber
- Feature
- FirstIssueLeadTime
- FlavorName
- FloppyDiskDriveDescription

- Format
- FormattedPrice
- GemType
- GemTypeSetElement
- Genre
- GolfClubFlex
- GolfClubLoft
- GraphicsCardInterface
- GraphicsDescription
- GraphicsMemorySize
- HardDiskCount
- HardDiskSize
- HasAutoFocus
- HasBurstMode
- HasInCameraEditing
- HasRedEyeReduction
- HasSelfTimer
- HasTripodMount
- HasVideoOut
- HasViewfinder
- Height
- Hours
- HoursOfOperation
- IncludedSoftware
- IncludesMp3Player
- Ingredients
- IngredientsSetElement
- IsAutographed
- ISBN
- IngredientsSetElement
- IsEmailNotifyAvailable
- IsFragile
- IsLabCreated
- IsMemorabilia
- ISOEquivalent
- IssuesPerYear
- KeyboardDescription
- Keywords
- Label
- LegalDisclaimer
- Length
- LongSynopsis
- LineVoltage
- MacroFocusRange
- MagazineType
- Manufacturer

- ManufacturerLaborWarrantyDescription
- ManufacturerMaximumAge
- MaterialTypeSetElement
- ManufacturerMinimumAge
- ManufacturerPartsWarrantyDescription
- MaterialType
- MaximumAperture
- MaximumColorDepth
- MaximumFocalLength
- MaximumHighResolutionImages
- MaximumHorizontalResolution
- MaximumLowResolutionImages
- MaximumResolution
- MaximumShutterSpeed
- MaximumVerticalResolution
- MaximumWeightRecommendation
- MemorySlotsAvailable
- Message
- MetalStamp
- MetalType
- MiniMovieDescription
- MinimumFocalLength
- MinimumShutterSpeed
- Model
- ModemDescription
- MonitorSize
- MonitorViewableDiagonalSize
- MouseDescription
- MPN
- Name
- NativeResolution
- Neighborhood
- NetworkInterfaceDescription
- NotebookDisplayTechnology
- NotebookPointingDeviceDescription
- NumberOfDiscs
- NumberOfIssues
- NumberOfItems
- NumberOfPages
- NumberOfPearls
- NumberOfRapidFireShots
- NumberOfStones
- NumberOfTracks
- OpticalZoom
- OriginalAirDate
- OriginalReleaseDate

- PearlLustre
- PearlMinimumColor
- PearlShape
- PearlStringingMethod
- PearlSurfaceBlemishes
- PearlType
- PearlUniformity
- PhoneNumber
- PhotoFlashType
- PictureFormat
- Platform
- PostalCode
- PriceRating
- ProcessorCount
- ProductGroup
- PublicationDate
- Publisher
- ReadingLevel
- RegionCode
- ReleaseDate
- RemovableMemory
- ResolutionModes
- RingSize
- Role
- RunningTime
- SeasonSequence
- SecondaryCacheSize
- SettingType
- ShortSynopsis
- Size
- SizePerPearl
- SKU
- SoundCardDescription
- SpeakerDescription
- SpecialFeatures
- StartYear
- State
- StoneClarity
- StoneColor
- StoneCut
- StoneShape
- StoneWeight
- Studio
- SubscriptionLength
- SupportedImageType
- SystemBusSpeed

- SystemMemorySize
- SystemMemorySizeMax
- SystemMemoryType
- TheatricalReleaseDate
- Title
- TotalDiamondWeight
- TotalExternalBaysFree
- TotalFirewirePorts
- TotalGemWeight
- TotalInternalBaysFree
- TotalMetalWeight
- TotalNTSCPALPorts
- TotalPages
- TotalParallelPorts
- TotalPCCardSlots
- TotalPCISlotsFree
- TotalResults
- TotalSerialPorts
- TotalSVideoOutPorts
- TotalUSBPorts
- TotalUSB2Ports
- TotalVGAOutPorts
- Type
- Unit
- UPC
- VariationDenomination
- VariationDescription
- Warranty
- WatchMovementType
- WaterResistanceDepth
- Weight
- Width

ItemAttributes also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of ItemAttributes.

- None

Child Response Group

The following response groups are child response groups of ItemAttributes.

- None

Sample REST Use Case

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
Condition=All&
ResponseGroup=ItemAttributes&
SearchIndex=Blended&
Keywords=GodSmack&
Merchant=All&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by ItemAttributes.

```
<Item>
  <ASIN>B000A2XB9U</ASIN>
<DetailPageURL>http://www.amazon.com/exec/obidos/redirect?tag=ws%26link_code=
xm2%26camp=2025%26creative=165953%26path=http://www.amazon.com/gp/redirect.ht
ml%253fASIN=B000A2XB9U%2526tag=ws%2526lcode=xm2%2526cID=2025%2526ccmID=165953
%2526location=/o/ASIN/B000A2XB9U%25253FSubscriptionId=1V9M7E1ZATWETZDS6W82</D
etailPageURL>
  <ItemAttributes>
    <AudienceRating>NR (Not Rated)</AudienceRating>
    <Director>Lawrence Jordan (II)</Director>
    <Director>Daniel E. Catullo</Director>
    <EAN>0014381273229</EAN>
    <Format>Color</Format>
    <Format>Compilation</Format>
    <Format>NTSC</Format>
    <Languages>
      <Language>
        <Name>English</Name>
        <Type>Original Language</Type>
      </Language>
    </Languages>
    <ListPrice>
      <Amount>1999</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$19.99</FormattedPrice>
    </ListPrice>
    <NumberOfItems>1</NumberOfItems>
    <ProductGroup>DVD</ProductGroup>
    <ReleaseDate>2005-09-06</ReleaseDate>
    <RunningTime Units="minutes">131</RunningTime>
    <Studio>Image Entertainment</Studio>
    <TheatricalReleaseDate>2005-06-25</TheatricalReleaseDate>
    <Title>Rockin' the Corps</Title>
    <UPC>014381273229</UPC>
  </ItemAttributes>
</Item>
```

ItemIds Response Group

The ItemIds response group returns the ASINs for all items returned in a response.

Relevant Operations

Operations that can use this response group include:

- ItemLookup

- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes the elements returned by ItemIds.

- ASIN
- CorrectedQuery
- Keywords
- Message
- TotalPages
- TotalResults

ItemIds also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of ItemIds.

- None

Child Response Group

The following response groups are child response groups of ItemIds.

- None

Sample REST Use Case

All locales.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemLookup&
ItemId=B000A3UB2O&
ResponseGroup=ItemIds&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by ItemIds.

```
  <TotalResults>1</TotalResults>
  <TotalPages>1</TotalPages>
  <Item>
    <ASIN>0976925524</ASIN>
  </Item>
</Items>
```

Large Response Group

The `Large` response group returns a great deal of information about items in the response. Large is a parent response group that returns the results of the following response groups:

- Accessories
- BrowseNodes
- ListmaniaLists
- Medium
- Offers
- Reviews
- Similarities
- Tracks

For more information about what is returned by each of these response groups, refer to their sections.

The Large response group is ideally suited for building product detail pages similar to those found on Amazon's retail web site.

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes the elements returned by Large.

- Actor
- Address1
- Address2
- Address3
- AmazonMaximumAge
- AmazonMinimumAge
- Amount
- ApertureModes
- Artist
- ASIN
- AspectRatio
- AudienceRating
- AudioFormat
- Author
- BackFinding
- BandMaterialType

- Batteries
- BatteriesIncluded
- BatteryDescription
- BatteryType
- BezelMaterialType
- Binding
- Brand
- BrowseNodeId
- CalendarType
- CameraManualFeatures
- CaseDiameter
- CaseMaterialType
- CaseThickness
- CaseType
- CDRWDescription
- ChainType
- City
- ClaspType
- ClothingSize
- Color
- Compatibility
- Content
- CPUManufacturer
- CPUSpeed
- CPUType
- Creator
- CurrencyCode
- Day
- DelayBetweenShots
- Department
- DetailPageURL
- DeweyDecimalNumber
- DialColor
- DialWindowMaterialType
- DigitalZoom
- Director
- DisplaySize
- DVDLayers
- DVDRWDescription
- DVDSides
- EAN
- Edition
- ESRBAgeRating
- ExternalDisplaySupportDescription
- FabricType
- FaxNumber

- Feature
- FirstIssueLeadTime
- FlavorName
- FloppyDiskDriveDescription
- Format
- FormattedPrice
- GemType
- GolfClubFlex
- GolfClubLoft
- GraphicsCardInterface
- GraphicsDescription
- GraphicsMemorySize
- HardDiskCount
- HardDiskSize
- HasAutoFocus
- HasBurstMode
- HasInCameraEditing
- HasRedEyeReduction
- HasSelfTimer
- HasTripodMount
- HasVideoOut
- HasViewfinder
- Height
- Hours
- HoursOfOperation
- IncludedSoftware
- IncludesMp3Player
- Ingredients
- IsAutographed
- ISBN
- IsFragile
- IsLabCreated
- IsMemorabilia
- ISOEquivalent
- IssuesPerYear
- KeyboardDescription
- Keywords
- Label
- LegalDisclaimer
- Length
- LineVoltage
- ListId
- ListName
- MacroFocusRange
- MagazineType
- Manufacturer

- ManufacturerLaborWarrantyDescription
- ManufacturerMaximumAge
- ManufacturerMinimumAge
- ManufacturerPartsWarrantyDescription
- MaterialType
- MaximumAperture
- MaximumColorDepth
- MaximumFocalLength
- MaximumHighResolutionImages
- MaximumHorizontalResolution
- MaximumLowResolutionImages
- MaximumResolution
- MaximumShutterSpeed
- MaximumVerticalResolution
- MaximumWeightRecommendation
- MemorySlotsAvailable
- Message
- MetalStamp
- MetalType
- MiniMovieDescription
- MinimumFocalLength
- MinimumShutterSpeed
- Model
- ModemDescription
- MonitorSize
- MonitorViewableDiagonalSize
- MouseDescription
- MPN
- Name
- NativeResolution
- Neighborhood
- NetworkInterfaceDescription
- NotebookDisplayTechnology
- NotebookPointingDeviceDescription
- NumberOfDiscs
- NumberOfIssues
- NumberOfItems
- NumberOfPages
- NumberOfPearls
- NumberOfRapidFireShots
- NumberOfStones
- NumberOfTracks
- OpticalZoom
- PearlLustre
- PearlMinimumColor
- PearlShape

- PearlStringingMethod
- PearlSurfaceBlemishes
- PearlType
- PearlUniformity
- PhoneNumber
- PhotoFlashType
- PictureFormat
- Platform
- PostalCode
- PriceRating
- ProcessorCount
- ProductGroup
- PublicationDate
- Publisher
- ReadingLevel
- RegionCode
- ReleaseDate
- RemovableMemory
- ResolutionModes
- RingSize
- Role
- RunningTime
- SalesRank
- SecondaryCacheSize
- SettingType
- Size
- SizePerPearl
- SKU
- SoundCardDescription
- Source
- SpeakerDescription
- SpecialFeatures
- State
- StoneClarity
- StoneColor
- StoneCut
- StoneShape
- StoneWeight
- Studio
- SubscriptionLength
- SupportedImageType
- SystemBusSpeed
- SystemMemorySize
- SystemMemorySizeMax
- SystemMemoryType
- TheatricalReleaseDate

- Title
- TotalCollectible
- TotalDiamondWeight
- TotalExternalBaysFree
- TotalFirewirePorts
- TotalGemWeight
- TotalInternalBaysFree
- TotalUsed
- TotalMetalWeight
- TotalNew
- TotalNTSCPALPorts
- TotalPages
- TotalParallelPorts
- TotalPCCardSlots
- TotalPCISlotsFree
- TotalRefurbished
- TotalResults
- TotalSerialPorts
- TotalSVideoOutPorts
- TotalUSB2Ports
- TotalUSBPorts
- TotalVGAOutPorts
- Type
- Unit
- UPC
- URL
- VariationDenomination
- VariationDescription
- Warranty
- WatchMovementType
- WaterResistanceDepth
- Weight
- Width

Large also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of Large.

- None

Child Response Group

The following response groups are child response groups of Large.

- [Accessories](#)
- [BrowseNodes](#)
- [ListmaniaLists](#)
- [Medium](#)
- [Offers](#)
- [Reviews](#)
- [Similarities](#)
- [Tracks](#)

Sample REST Use Case

The following request was used to show the results of the Large response group.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemLookup&
ItemId=B000ESHHXG&
ResponseGroup=Large&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by Large.

```
<Item>
  <ASIN>B000A3UB2O</ASIN>
<DetailPageURL>http://www.amazon.com/exec/obidos/redirect?tag=ws%26link_code=
xm2%26camp=2025%26creative=165953%26path=http://www.amazon.com/gp/redirect.ht
ml%253fASIN=B000A3UB2O%2526tag=ws%2526lcode=xm2%2526cID=2025%2526ccmID=165953
%2526location=/o/ASIN/B000A3UB2O%25253FSubscriptionId=1V9M7E1ZATWETZDS6W82</D
etailPageURL>
  <SalesRank>47589</SalesRank>
  <SmallImage>
<URL>http://ec1.images-amazon.com/images/P/B000A3UB2O.01-A3QXF272WQ86AH._SCTH
UMBZZZ_.jpg</URL>
    <Height Units="pixels">75</Height>
    <Width Units="pixels">75</Width>
  </SmallImage>
  <MediumImage>
<URL>http://ec1.images-amazon.com/images/P/B000A3UB2O.01-A3QXF272WQ86AH._SCMZ
ZZZZZZ_.jpg</URL>
    <Height Units="pixels">160</Height>
    <Width Units="pixels">160</Width>
 </MediumImage>
  <LargeImage>
<URL>http://ec1.images-amazon.com/images/P/B000A3UB2O.01-A3QXF272WQ86AH._SCLZ
ZZZZZZ_.jpg</URL>
    <Height Units="pixels">450</Height>
    <Width Units="pixels">450</Width>
  </LargeImage>
  <ImageSets>
    <ImageSet Category="primary">
      <SmallImage>
<URL>http://ec1.images-amazon.com/images/P/B000A3UB2O.01-A3QXF272WQ86A
H._SCTHUMBZZZ_.jpg</URL>
        <Height Units="pixels">75</Height>
        <Width Units="pixels">75</Width>
      </SmallImage>
...
<ItemAttributes>
  <Brand>Nixon</Brand>
  <ProductGroup>Apparel</ProductGroup>
```

```
   <Title>Nixon Rotolog Wood</Title>
</ItemAttributes>
<OfferSummary>
  <LowestNewPrice>
    <Amount>19999</Amount>
    <CurrencyCode>USD</CurrencyCode>
    <FormattedPrice>$199.99</FormattedPrice>
  </LowestNewPrice>
  <TotalNew>1</TotalNew>
  <TotalUsed>0</TotalUsed>
  <TotalCollectible>0</TotalCollectible>
  <TotalRefurbished>0</TotalRefurbished>
</OfferSummary>
<Offers>
  <TotalOffers>0</TotalOffers>
  <TotalOfferPages>0</TotalOfferPages>
</Offers>
<EditorialReviews>
  <EditorialReview>
    <Source>Product Description</Source>
    <Content>Custom right read direct time. Japanese quartz with led. Custom
30  Meter stainless steel with hardened mineral crystal, white inlay and
double gasket crown. Custom solid stainless steel with white inlay and but
terfly closure.</Content>
  </EditorialReview>
</EditorialReviews>
<BrowseNodes>
  <BrowseNode>
    <BrowseNodeId>1045534</BrowseNodeId>
    <Name>Jewelry</Name>
    <Ancestors>
      <BrowseNode>
        <BrowseNodeId>1044486</BrowseNodeId>
        <Name>Girls</Name>
        <Ancestors>
          <BrowseNode>
            <BrowseNodeId>1044484</BrowseNodeId>
            <Name>Children's Accessories</Name>
            <Ancestors>
              <BrowseNode>
                <BrowseNodeId>1036700</BrowseNodeId>
                <Name>Accessories</Name>
                <Ancestors>
                  <BrowseNode>
                    <BrowseNodeId>1036682</BrowseNodeId>
                  <Name>Departments</Name>
                <Ancestors>
                  <BrowseNode>

                        <BrowseNodeId>1036592</BrowseNodeId>
                       <Name>Apparel</Name>
                      </BrowseNode>
                  </Ancestors>
                  </BrowseNode>
                </Ancestors>
              </BrowseNode>
            </Ancestors>
          </BrowseNode>
        </Ancestors>
      </BrowseNode>
    </Ancestors>
  </BrowseNode>
<BrowseNode>
```

ListFull Response Group

The ListFull response group provides comprehensive information about a list and the items on it.
ListFull is a parent response group that returns the results of the following response groups:

- ListInfo
- ListItems

For more information about what is returned by each of these response groups, refer to their sections.

The ListFull response group is ideally suited for creating the contents of a wishlist or Listmania list.

Relevant Operations

Operations that can use this response group include:

- ListLookup

Response Elements

The following table describes the elements returned by ListFull.

- AdditionalName
- ASIN
- AverageRating
- Comment
- Comment
- CustomerName
- CustomerNickname
- DateAdded
- DateCreated
- Image
- LastModified
- ListId
- ListItemId
- ListName
- ListType
- ListURL
- OccasionDate
- PartnerName
- QuantityDesired
- QuantityReceived
- RegistryName
- RegistryNumber
- Title
- TotalItems
- TotalPages
- TotalResults
- TotalTimesRead
- TotalVotes

ListFull also returns the elements that all response groups return, which is described in Elements

Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of ListFull.

• None

Child Response Group

The following response groups are child response groups of ListFull.

• ListInfo
• ListItems

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by ListFull.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=1VEXAMPLES6W82&
Operation=ListLookup&
ListType=Listmania&
ListId= 2WYHF5M2L9142&
ResponseGroup=ListFull&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by ListFull.

```
<List>
  <ListId>2WYHF5M2L9142</ListId>
<ListURL>http://www.amazon.com/gp/richpub/listmania/fullview/2WYHF5M2L9142</L
istURL>
  <ListName>Popular Christmas Books For Young and Old</ListName>
  <ListType>Listmania</ListType>
  <TotalItems>25</TotalItems>
  <TotalPages>1</TotalPages>
  <DateCreated>2003 11 17</DateCreated>
  <ListItem>
    <ListItemId>RI12NH0FJAU5DPX</ListItemId>
    <Item>
    <ASIN>0385508417</ASIN>
    <ItemAttributes>
      <Title>Skipping Christmas</Title>
    </ItemAttributes>
    </Item>
  </ListItem>
  <ListItem>
    <ListItemId>RIA2UFAPEI6GXV</ListItemId>
    <Item>
      <ASIN>0762410698</ASIN>
      <ItemAttributes>
        <Title>The Night Before Christmas: The Heirloom Edition</Title>
      </ItemAttributes>
    </Item>
  </ListItem>
  <ListItem>
    <ListItemId>RI2BKL830IE1GXT</ListItemId>
    <Item>
      <ASIN>0684814994</ASIN>
```

```
        <ItemAttributes>
          <Title>Christmas Box</Title>
        </ItemAttributes>
      </Item>
    </ListItem>
```

ListInfo Response Group

The ListInfo response group provides descriptive information about a list. ListInfo is a parent response group that returns the results of the ListMinimum response group along with :

- List creator
- List creation date
- List type (WishList, BabyRegistry, etc.)
- Date when the list was last modified

For more information about the ListMinimum response group, see its section.

The ListInfo response group is suited for creating a subset of the list information returned by ListFull.

Relevant Operations

Operations that can use this response group include:

- ListLookup
- ListSearch

Response Elements

The following table describes the elements returned by ListInfo.

- AdditionalName
- AverageRating
- Comment
- CustomerName
- CustomerNickname
- DateCreated
- Image
- LastModified
- ListId
- ListName
- ListType
- ListURL
- OccasionDate
- PartnerName
- RegistryName
- TotalItems
- TotalPages
- TotalResults

- TotalTimesRead

ListInfo also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of ListInfo.

- ListFull

Child Response Group

The following response groups are child response groups of ListInfo.

- ListMinimum

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by ListInfo.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ListSearch&
ListType=WishList&
Name=John%20Smith&
ResponseGroup=ListInfo&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by ListInfo.

```
<List>
  <ListId>26ZZZIYUFBASY</ListId>
  <ListURL>http://www.amazon.com/gp/registry/26ZZZIYUFBASY</ListURL>
  <ListName>New Wish List</ListName>
  <ListType>WishList</ListType>
  <TotalItems>1</TotalItems>
  <TotalPages>1</TotalPages>
  <DateCreated>2006-04-13</DateCreated>
  <CustomerName>john smith</CustomerName>
</List>
```

ListItems Response Group

The ListItems response group describes the items on a list. ListItems is a parent response group that returns the results of the ListMinimum ListMinimumresponse groups along with data associated with each item on a list, including:

- ASIN
- Title
- ListItem ID
- Quantity of items desired

- Quantity of items received
- Item attributes
- Date the item was added to the list

Relevant Operations

Operations that can use this response group include:

- ListLookup

Response Elements

The following table describes the elements returned by ListItems.

- ASIN
- Comment
- DateAdded
- ListId
- ListItemId
- ListName
- QuantityDesired
- QuantityReceived
- Title
- TotalPages
- TotalResults

ListItems also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of ListItems.

- None

Child Response Group

The following response groups are child response groups of ListItems.

- ListMinimum

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by ListItems.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ListLookup&
```

```
ListType=Listmania&
ListId=2WYHF5M2L9142&
ResponseGroup=ListItems&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by ListItems.

```
<List>
  <ListId>2WYHF5M2L9142</ListId>
  <ListName>Popular Christmas Books For Young and Old</ListName>
  <TotalItems>25</TotalItems>
  <TotalPages>1</TotalPages>
  <ListItem>
    <ListItemId>RI12NH0FJAU5DPX</ListItemId>
    <Item>
      <ASIN>0385508417</ASIN>
      <ItemAttributes>
        <Title>Skipping Christmas</Title>
      </ItemAttributes>
    </Item>
  </ListItem>
  <ListItem>
    <ListItemId>RIA2UFAPEI6GXV</ListItemId>
    <Item>
      <ASIN>0762410698</ASIN>
      <ItemAttributes>
        <Title>The Night Before Christmas: The Heirloom Edition</Title>
      </ItemAttributes>
    </Item>
  </ListItem>
  <ListItem>
    <ListItemId>RI2BKL830IE1GXT</ListItemId>
    <Item>
      <ASIN>0684814994</ASIN>
      <ItemAttributes>
        <Title>Christmas Box</Title>
      </ItemAttributes>
    </Item>
  </ListItem>
```

ListmaniaLists Response Group

The ListmaniaLists response group returns the Listmania list IDs and names of those lists that items, in the response, belong to.

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes the elements returned by ListmaniaLists.

- ListId

- ListName

ListmaniaLists also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of ListmaniaLists.

- None

Child Response Group

The following response groups are child response groups of ListmaniaLists.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by ListmaniaLists.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[ID]&
Operation=ItemLookup&
ItemId=0545010225&
IdType=ASIN&
ResponseGroup=ListmaniaLists&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by ListmaniaLists.

```
<ListmaniaLists>
  <ListmaniaList>
    <ListId>R1XB8VAK6TI229</ListId>
    <ListName>Mike's Dumb List</ListName>
  </ListmaniaList>
  <ListmaniaList>
    <ListId>R3CUSEGGBUKJLW</ListId>
    <ListName>Books I'll Read This Summer</ListName>
  </ListmaniaList>
  <ListmaniaList>
    <ListId>R1Q5BYVOO4O8ON</ListId>
    <ListName>My Reading Wish List</ListName>
  </ListmaniaList>
  <ListmaniaList>
    <ListId>R2NXJWCXMW9AL</ListId>
    <ListName>Some Really GREAT Books</ListName>
  </ListmaniaList>
...
</ListmaniaLists>
```

ListMinimum Response Group

The ListMinimum response group returns, for each list in the response, the list's ID, list name, number of items on the list, the number of pages of list items. There are ten list items per page.

Relevant Operations

Operations that can use this response group include:

- ListSearch

Response Elements

The following table describes the elements returned by ListMinimum.

- ListId
- ListName
- TotalItems
- TotalPages

ListMinimum also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of ListMinimum.

- None

Child Response Group

The following response groups are child response groups of ListMinimum.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by ListMinimum.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ListSearch&
ListType=WishList&
Name=John%20Smith&
ResponseGroup=ListMinimum&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by ListMinimum.

```
<TotalResults>557</TotalResults>
<TotalPages>56</TotalPages>
<List>
  <ListId>2AAAAAAAAAA6B</ListId>
  <ListName>Wishlist</ListName>
  <TotalItems>73</TotalItems>
```

```
   <TotalPages>8</TotalPages>
</List>
<List>
  <ListId>OBBBBBBBBBM2</ListId>
  <ListName>Wishlist</ListName>
  <TotalItems>30</TotalItems>
  <TotalPages>3</TotalPages>
</List>
<List>
  <ListId>HCCCCCCCCCAX</ListId>
  <ListName>Wishlist</ListName>
  <TotalItems>122</TotalItems>
  <TotalPages>13</TotalPages>
</List>
<List>
  <ListId>3DDDDDDDDDD4</ListId>
  <ListName>Wishlist</ListName>
  <TotalItems>33</TotalItems>
  <TotalPages>4</TotalPages>
</List>
```

Medium Response Group

The Medium response group returns a great deal of information about the items in a response. The response group is ideally suited for creating lightweight, product detail pages.

Medium is a parent response group that returns the results of the following response groups:

- EditorialReview
- Images
- ItemAttributes
- OfferSummary
- Request
- SalesRank
- Small

For more information about what is returned by each of these response groups, refer to their sections.

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes the elements returned by Medium.

- Actor
- Address1
- Address2

- Address3
- AmazonMaximumAge
- AmazonMinimumAge
- Amount
- ApertureModes
- Artist
- ASIN
- AspectRatio
- AudienceRating
- AudioFormat
- Author
- BackFinding
- BandMaterialType
- Batteries
- BatteriesIncluded
- BatteryDescription
- BatteryType
- BezelMaterialType
- Binding
- Brand
- CalendarType
- CameraManualFeatures
- CaseDiameter
- CaseMaterialType
- CaseThickness
- CaseType
- CDRWDescription
- ChainType
- City
- ClaspType
- ClothingSize
- Color
- Compatibility
- Content
- CPUManufacturer
- CPUSpeed
- CPUType
- Creator
- CurrencyCode
- Day
- DelayBetweenShots
- Department
- DetailPageURL
- DeweyDecimalNumber
- DialColor
- DialWindowMaterialType

- DigitalZoom
- Director
- DisplaySize
- DVDLayers
- DVDRWDescription
- DVDSides
- EAN
- Edition
- ESRBAgeRating
- ExternalDisplaySupportDescription
- FabricType
- FaxNumber
- Feature
- FirstIssueLeadTime
- FlavorName
- FloppyDiskDriveDescription
- Format
- FormattedPrice
- GemType
- GolfClubFlex
- GolfClubLoft
- GraphicsCardInterface
- GraphicsDescription
- GraphicsMemorySize
- HardDiskCount
- HardDiskSize
- HasAutoFocus
- HasBurstMode
- HasInCameraEditing
- HasRedEyeReduction
- HasSelfTimer
- HasTripodMount
- HasVideoOut
- HasViewfinder
- Height
- Hours
- HoursOfOperation
- IncludedSoftware
- IncludesMp3Player
- Ingredients
- IsAutographed
- ISBN
- IsFragile
- IsLabCreated
- IsMemorabilia
- ISOEquivalent

- IssuesPerYear
- KeyboardDescription
- Keywords
- Label
- LegalDisclaimer
- Length
- LineVoltage
- MacroFocusRange
- MagazineType
- Manufacturer
- ManufacturerLaborWarrantyDescription
- ManufacturerMaximumAge
- ManufacturerMinimumAge
- ManufacturerPartsWarrantyDescription
- MaterialType
- MaximumAperture
- MaximumColorDepth
- MaximumFocalLength
- MaximumHighResolutionImages
- MaximumHorizontalResolution
- MaximumLowResolutionImages
- MaximumResolution
- MaximumShutterSpeed
- MaximumVerticalResolution
- MaximumWeightRecommendation
- MemorySlotsAvailable
- Message
- MetalStamp
- MetalType
- MiniMovieDescription
- MinimumFocalLength
- MinimumShutterSpeed
- Model
- ModemDescription
- MonitorSize
- MonitorViewableDiagonalSize
- MouseDescription
- MPN
- Name
- Name
- NativeResolution
- Neighborhood
- NetworkInterfaceDescription
- NotebookDisplayTechnology
- NotebookPointingDeviceDescription
- NumberOfDiscs

- NumberOfIssues
- NumberOfItems
- NumberOfPages
- NumberOfPearls
- NumberOfRapidFireShots
- NumberOfStones
- NumberOfTracks
- OpticalZoom
- PearlLustre
- PearlMinimumColor
- PearlShape
- PearlStringingMethod
- PearlSurfaceBlemishes
- PearlType
- PearlUniformity
- PhoneNumber
- PhotoFlashType
- PictureFormat
- Platform
- PostalCode
- PriceRating
- ProcessorCount
- ProductGroup
- PublicationDate
- Publisher
- ReadingLevel
- RegionCode
- ReleaseDate
- RemovableMemory
- ResolutionModes
- RingSize
- Role
- RunningTime
- SalesRank
- SecondaryCacheSize
- SettingType
- Size
- SizePerPearl
- SKU
- SoundCardDescription
- Source
- SpeakerDescription
- SpecialFeatures
- State
- StoneClarity
- StoneColor

- StoneCut
- StoneShape
- StoneWeight
- Studio
- SubscriptionLength
- SupportedImageType
- SystemBusSpeed
- SystemMemorySize
- SystemMemorySizeMax
- SystemMemoryType
- TheatricalReleaseDate
- Title
- TotalCollectible
- TotalDiamondWeight
- TotalExternalBaysFree
- TotalFirewirePorts
- TotalGemWeight
- TotalInternalBaysFree
- TotalUsed
- TotalMetalWeight
- TotalNew
- TotalNTSCPALPorts
- TotalPages
- TotalParallelPorts
- TotalPCCardSlots
- TotalPCISlotsFree
- TotalRefurbished
- TotalResults
- TotalSerialPorts
- TotalSVideoOutPorts
- TotalUSB2Ports
- TotalUSBPorts
- TotalVGAOutPorts
- Type
- Unit
- UPC
- URL
- VariationDenomination
- VariationDescription
- Warranty
- WatchMovementType
- WaterResistanceDepth
- Weight
- Width

Medium also returns the elements that all response groups return, which is described in Elements

Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of Medium.

• None

Child Response Group

The following response groups are child response groups of Medium.

• EditorialReview
• Images
• ItemAttributes
• OfferSummary
• Request
• SalesRank
• Small

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by Medium.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ListLookup&
ListType=WishList&
ListId=[Wish list ID]&
ResponseGroup=Medium&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by Medium.

```
<ListLookupRequest>
  <ListId>LKUPZ5V5LTY7</ListId>
  <ListType>WishList</ListType>
  <ResponseGroup>Medium</ResponseGroup>
  </ListLookupRequest>
</Request>
<List>
  <ListItem>
    <Item>
       <ASIN>1890966533</ASIN>
<DetailPageURL>http://www.amazon.com/exec/obidos/redirect?tag=ws%26link_code=
xm2%26camp=2025%26creative=165953%26path=http://www.amazon.com/gp/redirect.ht
ml%253fASIN=1890966533%2526tag=ws%2526lcode=xm2%2526cID=2025%2526ccmID=165953
%2526location=/o/ASIN/1890966533%25253FSubscriptionId=1VMXF86PGNDAX3FW9C02%25
2526coliid=IOWNUUPH86VRC%252526colid=LKUPZ5V5LTY7</DetailPageURL>
      <SalesRank>1738674</SalesRank>
      <SmallImage>
<URL>http://ec1.images-amazon.com/images/P/1890966533.01._SCTHUMBZZZ_.jpg
</URL>
        <Height Units="pixels">60</Height>
        <Width Units="pixels">40</Width>
      </SmallImage>
```

```
        <MediumImage>
<URL>http://ec1.images-amazon.com/images/P/1890966533.01._SCMZZZZZZZ_.jpg
</URL>
            <Height Units="pixels">140</Height>
            <Width Units="pixels">94</Width>
        </MediumImage>
    <ItemAttributes>
        <Author>Wayne G. Pardy</Author>
        <Binding>Paperback</Binding>
        <EAN>9781890966539</EAN>
        <Edition>Reprint</Edition>
        <ISBN>1890966533</ISBN>
        <ListPrice>
            <Amount>5995</Amount>
            <CurrencyCode>USD</CurrencyCode>
            <FormattedPrice>$59.95</FormattedPrice>
        </ListPrice>
        <NumberOfPages>185</NumberOfPages>
        <PackageDimensions>
            <Height Units="hundredths-inches">900</Height>
            <Length Units="hundredths-inches">75</Length>
            <Weight Units="hundredths-pounds">130</Weight>
            <Width Units="hundredths-inches">600</Width>
        </PackageDimensions>
        <ProductGroup>Book</ProductGroup>
            <PublicationDate>1999-05-19</PublicationDate>
            <Publisher>Safetycertified.Com Inc</Publisher>
        <Title>Safety Incentives: The Pros and Cons of Award and Recognition
Programs (Osha Compliance)</Title>
        </ItemAttributes>
  <OfferSummary>
    <TotalNew>0</TotalNew>
    <TotalUsed>0</TotalUsed>
    <TotalCollectible>0</TotalCollectible>
    <TotalRefurbished>0</TotalRefurbished>
  </OfferSummary>
  <EditorialReviews>
    <EditorialReview>
        <Source>Book Description</Source>
        <Content>Whether you are a small business or a safety manager trying to
decide whether or not awards and incentives are right for your operation, the
Safety Incentives Answer Book is must reading.
        </Content>
</EditorialReview>
```

MerchantItemAttributes Response Group

The MerchantItemAttributes response group returns merchant-specific information about a merchant's items for sale. The XML element tags returned by MerchantItemAttributes are the same as those returned by ItemAttributes. The values, however, returned by the response groups are mutually exclusive. The number of elements returned by MerchantItemAttributes is typically fewer than those returned by ItemAttributes because merchants typically change only a small subset of attributes returned by ItemAttributes.

MerchantItemAttributes is valid only for the following operations: `ItemLookup`, `ItemSearch`, and `ListLookup`, and only when a MerchantId is specified.

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch

Response Elements

The elements returned by MerchantItemAttributes are the same as those described for the ItemAttributes response group.

MerchantItemAttributes also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of MerchantItemAttributes.

• None

Child Response Group

The following response groups are children response groups of MerchantItemAttributes.

• None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by MerchantItemAttributes.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
Operation=ItemLookup&
AWSAccessKeyId=[AWS Access Key ID]&
ItemId=B000EU0NN0&
IdType=ASIN&MerchantId=[Merchant ID]&
ResponseGroup=ItemAttributes,MerchantItemAttributes&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by MerchantItemAttributes.

```
<ItemAttributes>
  <Title>The thing in question</Title>
  ...
</ItemAttributes>
<MerchantItemAttributes>
  <Title>The merchant's title</Title>
  ...
</MerchantItemAttributes>
```

MostGifted Response Group

The MostGifted response group returns the ASINs and titles of the ten items given as gifts most within a specified browse node.

Availability

This response group is available in all locales.

Relevant Operations

Operations that can use this response group include:

- BrowseNodeLookup

Response Elements

The following table describes the elements returned by MostGifted. In the Ancestry column, the elements on the left side of a slash mark are the parents of the elements on the right side of the slash mark.

- Actors
- Artist
- ASIN
- Authors
- DetailPageURL
- ProductGroup
- Title

MostGifted also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of MostGifted.

- None

Child Response Group

The following response groups are child response groups of MostGifted.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by MostGifted.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=BrowseNodeLookup&
BrowseNodeId=20&
ResponseGroup=MostGifted&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by MostGifted.

```
<TopItemSet>
    <Type>MostGifted</Type>
    <TopItem>
            <ASIN>0553576399</ASIN>
            <Title>Distraction</Title>
            <DetailPageURL>
ht
tp://www.amazon.com/gp/redirect.html%3FASIN=0553576399%26tag=ws%26lcode=xm2%2
6cID=2025%26ccmID=165953%26location=/Distraction-Bruce-Sterling/dp/0553576399
%253FSubscriptionId=1R2TGZ5HQ233N0M8N2R2
            </DetailPageURL>
            <ProductGroup>Book</ProductGroup>
            <Author>Bruce Sterling</Author>
        </TopItem>
        <TopItem>
         ....
         .....
</TopItemSet>
```

MostWishedFor Response Group

The MostWishedFor response group returns the ASINs and titles of the ten items given as the items listed on the greatest number of wishlists within a specified browse node.

Availability

This response group is available in all locales.

Relevant Operations

Operations that can use this response group include:

• BrowseNodeLookup

Response Elements

The following table describes the elements returned by MostWishedFor.

• Actors
• Artist
• ASIN
• Authors
• DetailPageURL
• ProductGroup
• Title

MostWishedFor also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of MostWishedFor.

• None

Child Response Group

The following response groups are child response groups of MostWishedFor.

• None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by MostWishedFor.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=BrowseNodeLookup&
BrowseNodeId=20&
ResponseGroup=MostWishedFor&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by MostWishedFor.

```
<TopItemSet>
    <Type>MostWishedFor</Type>
    <TopItem>
            <ASIN>0553576399</ASIN>
            <Title>Distraction</Title>
            <DetailPageURL>
ht
tp://www.amazon.com/gp/redirect.html%3FASIN=0553576399%26tag=ws%26lcode=xm2%2
6cID=2025%26ccmID=165953%26location=/Distraction-Bruce-Sterling/dp/0553576399
%253FSubscriptionId=1R2TGZ5HQ233N0M8N2R2
            </DetailPageURL>
            <ProductGroup>Book</ProductGroup>
            <Author>Bruce Sterling</Author>
        </TopItem>
        <TopItem>
         ....
         .....
</TopItemSet>
```

NewReleases Response Group

The NewReleases response group returns the ASIN and title of newly released items in a specified browse node.

Availability

This response group is available in the US locale only.

Relevant Operations

Operations that can use this response group include:

• BrowseNodeLookup

Response Elements

The following table describes the elements returned by NewReleases.

- Actors for the Video search index
- Artist for the Music search index
- ASIN
- Authors for the Books search index
- DetailPageURL
- ProductGroup
- Title
- TopItemSet

NewReleases also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of NewReleases.

- None

Child Response Group

The following response groups are child response groups of NewReleases.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by NewReleases.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=BrowseNodeLookup&
BrowseNodeId=4229&
ResponseGroup=NewReleases&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by NewReleases.

```
<TopItemSet>
    <Type>NewReleases</Type>
    <TopItem>
            <ASIN>0553576399</ASIN>
            <Title>Distraction</Title>
            <DetailPageURL>
ht
tp://www.amazon.com/gp/redirect.html%3FASIN=0553576399%26tag=ws%26lcode=xm2%2
6cID=2025%26ccmID=165953%26location=/Distraction-Bruce-Sterling/dp/0553576399
%253FSubscriptionId=1R2TGZ5HQ233N0M8N2R2
            </DetailPageURL>
            <ProductGroup>Book</ProductGroup>
            <Author>Bruce Sterling</Author>
```

```
        </TopItem>
        <TopItem>
         ....
         .....
</TopItemSet>
```

OfferFull Response Group

The OfferFull response group returns comprehensive information about an offer. OfferFull is a parent response group that returns the results of the Offers response group as well as:

- Merchant's name
- Merchant's nickname
- Merchant's state
- Merchant's country

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes the elements returned by OfferFull.

- Address1, Address2, Address3
- Amount
- Availability
- AverageFeedbackRating
- City
- Condition
- ConditionNote
- Country
- Country
- CurrencyCode
- ExchangeId
- FormattedPrice
- GlancePage
- IsEligibleForSuperSaverShipping
- MerchantId
- Name
- Nickname
- OfferListingId
- PostalCode

- Quantity
- SellerId
- State
- SubCondition
- TotalCollectible
- TotalFeedback
- TotalNew
- TotalOfferPages
- TotalOffers
- TotalRefurbished
- TotalUsed

OfferFull also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of OfferFull.

- None

Child Response Group

The following response groups are child response groups of OfferFull.

- Offers

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by OfferFull.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
Condition=All&
SearchIndex=Books&
Title=Harry%20Potter&
ResponseGroup=OfferFull&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by OfferFull.

```
<Item>
  <ASIN>0439682584</ASIN>
  <OfferSummary>
    <LowestNewPrice>
      <Amount>2580</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$25.80</FormattedPrice>
    </LowestNewPrice>
    <LowestUsedPrice>
      <Amount>1599</Amount>
```

```
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$15.99</FormattedPrice>
    </LowestUsedPrice>
    <LowestCollectiblePrice>
      <Amount>2580</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$25.80</FormattedPrice>
    </LowestCollectiblePrice>
    <TotalNew>40</TotalNew>
    <TotalUsed>16</TotalUsed>
    <TotalCollectible>3</TotalCollectible>
    <TotalRefurbished>0</TotalRefurbished>
  </OfferSummary>
  <Offers>
    <TotalOffers>0</TotalOffers>
    <TotalOffers>1</TotalOffers>
    <TotalOfferPages>0</TotalOfferPages>
    <TotalOfferPages>1</TotalOfferPages>
    <Offer>
      <Merchant>
        <MerchantId>ATVPDKIKX0DER</MerchantId>
        <Name>Amazon.com</Name>
<GlancePage>http://www.amazon.com/gp/help/seller/home.html?seller=ATVPDKIKX0D
ER</GlancePage>
      </Merchant>
      <OfferAttributes>
        <Condition>New</Condition>
      </OfferAttributes>
      <OfferListing>
<OfferListingId>cMVuIFx8kiYSgRIJXiCzKZZyylwztVSAYV8vCo2OxHS8L9SB7lwho8fK6CxYk
mdDPy8thFzm30Y%3D</OfferListingId>
        <Price>
          <Amount>2580</Amount>
          <CurrencyCode>USD</CurrencyCode>
          <FormattedPrice>$25.80</FormattedPrice>
        </Price>
        <Availability>Usually ships in 24 hours</Availability>
        <IsEligibleForSuperSaverShipping>1</IsEligibleForSuperSaverShipping>
      </OfferListing>
    </Offer>
  </Offers>
</Item>
```

OfferListings

The `OfferListings` response group returns the `OfferListings` for items returned in the response.
The values returned are similar to those returned by the `Offers` response group minus the values
returned by the `OfferSummary` response group. OfferListings returns shipping options, including
IsEligibleForPrime and IsEligibleForSuperSavingShipping, which specifies whether the item qualifies
for prime or super saver shipping, respectively.

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes and shows the parentage of the elements returned by OfferListings. In the Ancestry column, the elements on the left side of a slash mark are the parents of the elements on the right side of the slash mark.

- Amount
- Availability
- AverageFeedbackRating
- Code
- Condition
- ConditionNote
- Country
- CurrencyCode
- ExchangeId
- FormattedPrice
- GlancePage
- IsEligibleForPrime
- IsEligibleForSuperSaverShipping
- MerchantId
- Message
- Name
- OfferListingId
- SellerId
- State
- SubCondition
- TotalFeedback
- TotalOfferPages
- TotalOffers
- Value

OfferListings also returns the elements that all response groups return, which described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of OfferListings.

- None

Child Response Group

The following response groups are children response groups of OfferListings.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by OfferListings.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=
      [AWS Access Key ID]
    ]&
AssociateTag=
      [Associate ID]
    &
Operation=ItemSearch&
Keywords=sports&
ResponseGroup=OfferListings&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by OfferListings.

```
<Item>
    <ASIN>B000AYGDIO</ASIN>
    <Offers>
        <TotalOffers>18</TotalOffers>
        <TotalOfferPages>2</TotalOfferPages>
        <Offer>
            <Seller>
                <SellerId>A43VGTGXZ8ZI6</SellerId>
            <AverageFeedbackRating>4.9</AverageFeedbackRating>
                <TotalFeedback>300</TotalFeedback>
            </Seller>
            <OfferAttributes>
                <Condition>New</Condition>
                <SubCondition>new</SubCondition>
                <ConditionNote>
                    Brand new, unopened and complete in the retail box.
                </ConditionNote>
            </OfferAttributes>
            <OfferListing>
                <OfferListingId>
                    pBmLD7%2F4J7zqIMjOLpQI5pkO774zf%2BsvrzbG4JR92xLmC%
                </OfferListingId>
                <ExchangeId>Y01Y4632798Y1053687</ExchangeId>
                <Price>
                    <Amount>24700</Amount>
                    <CurrencyCode>USD</CurrencyCode>
                    <FormattedPrice>$247.00</FormattedPrice>
                </Price>
                <Availability>Usually ships in 1-2 business days</Availability>
<IsEligibleForSuperSaverShipping>0</IsEligibleForSuperSaverShipping>
                <IsEligibleForPrime>0</IsEligibleForPrime>
            </OfferListing>
        </Offer>
        <!-- 9 ADDITIONAL OFFERS -->
    </Offers>
</Item>
```

Offers Response Group

The Offers response group is a parent response group that returns the contents of the OfferSummary response group plus, by default, seller and offer listing information. When Condition equals All, up to ten offers are returned sorted by price without regard to Condition. Offer listings are impacted by the values of the MerchantId and Condition parameters. As such, the total number of offer listings is dependent on the value of these parameters.

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes the elements returned by Offers.

- Amount
- Availability
- AverageFeedbackRating
- Condition
- ConditionNote
- CurrencyCode
- ExchangeId
- FormattedPrice
- GlancePage
- IsEligibleForSuperSaverShipping
- LoyaltyPoints
- MerchantId
- Name
- OfferListingId
- Quantity
- PostalCode
- SellerId
- State
- SubCondition
- TotalCollectible
- TotalFeedback
- TotalNew
- TotalOfferPages
- TotalOffers
- TotalRefurbished
- TotalUsed

Offers also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Loyalty Points

In the JP locale only, loyalty points are returned. Loyalty points are used to encourage patronage and stimulate sales.

Parent Response Group

The following response groups are parent response groups of Offers.

- None

Child Response Group

The following response groups are child response groups of Offers.

- OfferSummary

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by Offers.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=1VEXAMPLEDS6W82&
Operation=ItemSearch&
Condition=All&
SearchIndex=Books&
Title=Harry%20Potter&
ResponseGroup=Offers&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by Offers.

```
<Item>
  <ASIN>B000AYGDIO</ASIN>
  <OfferSummary>
    <LowestNewPrice>
      <Amount>24599</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$245.99</FormattedPrice>
    </LowestNewPrice>
    <LowestUsedPrice>
      <Amount>21995</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$219.95</FormattedPrice>
    </LowestUsedPrice>
    <LowestRefurbishedPrice>
      <Amount>24995</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$249.95</FormattedPrice>
    </LowestRefurbishedPrice>
    <TotalNew>31</TotalNew>
    <TotalUsed>2</TotalUsed>
    <TotalCollectible>0</TotalCollectible>
    <TotalRefurbished>2</TotalRefurbished>
  </OfferSummary>
  <Offers>
    <TotalOffers>35</TotalOffers>
    <TotalOfferPages>4</TotalOfferPages>
    <Offer>
      <Seller>
        <SellerId>A34JK8GKGOEZRO</SellerId>
        <AverageFeedbackRating>4.2</AverageFeedbackRating>
        <TotalFeedback>40</TotalFeedback>
      </Seller>
      <OfferAttributes>
        <Condition>Used</Condition>
        <SubCondition>good</SubCondition>
```

```
        <ConditionNote>Attention! Please read before placing the order. Canon
PowerShot SD450 5MP digital camera. This purchase is only for the camera it
self and owner's manual and usb cable only. No other accessory will be in
cluded. Camera is in perfect working condition and has some minor scratches
on the covers. Ships via Priority Mail w/Tracking Number and insur
ance</ConditionNote>
        </OfferAttributes>
        <OfferListing>
<OfferListingId>f0ctUVF4LATNxeVdXAj5g0j3UbEE%2B1gm%2Fy3ZNjJ%2BrxgGUqPn%2FNy%2
BqBcVFoVLQWAug
wljO5Zt9zqm865o%2BTk3zGIGDF5oWogFW7frgBq77QgTs%2Baxm%2B2gLQ%3D%3D</OfferListi
ngId>
<ExchangeId>Y01Y3638197Y4938485</ExchangeId>
        <Price>
          <Amount>21995</Amount>
          <CurrencyCode>USD</CurrencyCode>
          <FormattedPrice>$219.95</FormattedPrice>
        </Price>
        <Availability>Usually ships in 1 2 business days</Availability>
<IsEligibleForSuperSaverShipping>0</IsEligibleForSuperSaverShipping>
        </OfferListing>
      </Offer>
      <Offer>
        <Seller>
          <SellerId>A1MJDTSASU9FW5</SellerId>
          <AverageFeedbackRating>4.5</AverageFeedbackRating>
          <TotalFeedback>666</TotalFeedback>
        </Seller>
        <OfferAttributes>
          <Condition>Used</Condition>
          <SubCondition>mint</SubCondition>
          <ConditionNote>LIKE BRAND NEW WITH ALL ACCESORRIES, WITH WARRANTY
64MB SD CARD INCLUDED</ConditionNote>
        </OfferAttributes>
        <OfferListing>
<OfferListingId>i07Pe4OxnTyyzq7BoNNKtHlzST9TnTrQGxDbXsfn3OSua375%2BjDeaGuAcD5
Ai%2FLOhiQb%2FksEDCmmT929KpcIRq0t4FE2HjE7S2RQWAkexe6Q4w6tEFTsow%3D%3D</OfferL
istingId>
          <ExchangeId>Y01Y1100038Y5252647</ExchangeId>
          <Price>
            <Amount>22999</Amount>
            <CurrencyCode>USD</CurrencyCode>
            <FormattedPrice>$229.99</FormattedPrice>
          </Price>
          <Availability>Usually ships in 1 2 business days</Availability>
<IsEligibleForSuperSaverShipping>0</IsEligibleForSuperSaverShipping>
        </OfferListing>
      </Offer>
  <Offer>
  <Merchant>
    <MerchantId>AQF1IKH19GQYV</MerchantId>
<GlancePage>http://www.amazon.com/gp/help/seller/home.html?seller=AQF1IKH19GQ
YV</GlancePage>
  </Merchant>
  <OfferAttributes>
    <Condition>New</Condition>
    <SubCondition>new</SubCondition>
  </OfferAttributes>
  <OfferListing>
<OfferListingId>3dr8Y7th2m18z4aGwdpdVDtc%2BhhZNjFzesYDUjOK8353BWrhSVQrxViAU0X
i9TGdzVQrwrr0TpuM5QQAY8FpzXEusdLg2XtOkcoGnA9vT88rDRPpLKtoZCBBjp7xbFN3</OfferL
istingId>
    <ExchangeId>Y11M7003646M2872880</ExchangeId>
    <Price>
      <Amount>26599</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$265.99</FormattedPrice>
    </Price>
    <SalePrice>
      <Amount>24599</Amount>
      <CurrencyCode>USD</CurrencyCode>
```

```
      <FormattedPrice>$245.99</FormattedPrice>
    </SalePrice>
    <Availability>Usually ships in 2 3 business days</Availability>
      <IsEligibleForSuperSaverShipping>0</IsEligibleForSuperSaverShipping>
    </OfferListing>
  </Offer>
  <Offer>
    <Merchant>
    <MerchantId>ATVPDKIKX0DER</MerchantId>
<GlancePage>http://www.amazon.com/gp/help/seller/home.html?seller=ATVPDKIKX0D
ER</GlancePage>
    </Merchant>
    <OfferAttributes>
    <Condition>New</Condition>
  </OfferAttributes>
  <OfferListing>
      <OfferListingId>[Offer Listing ID]</OfferListingId>
  <Price>
    <FormattedPrice>Too low to display</FormattedPrice>
  </Price>
  <Availability>Usually ships in 24 hours</Availability>
  <IsEligibleForSuperSaverShipping>0</IsEligibleForSuperSaverShipping>
</OfferListing>
</Offer>
```

The Request that Generated the Response (REST)

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=
        [AWS Access Key ID]
      &
AssociateTag=
        [Associate ID]
      &
Operation=ItemLookup&
ItemId=B000AYGDIO&
MerchantId=All&
ResponseGroup=Offers
```

OfferSummary Response Group

The OfferSummary response group returns, for each item in the response, the number of offer listings and the lowest price for each condition type. Condition types are New, Used, Collectible, and Refurbished. So, for example, this response group returns the lowest price for each Condition:

- New item
- Used item
- Collectible item
- Refurbished item

Individual offer listings are not returned. The OfferSummary is dependent only on the ASIN parameter and is not affected by the MerchantId or Condition parameters (i.e. the OfferSummary will always be the same for a given ASIN independent of other parameters).

Relevant Operations

Operations that can use this response group include:

- ItemLookup

- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes the elements returned by OfferSummary.

- Amount
- CurrencyCode
- FormattedPrice
- TotalCollectible
- TotalNew
- TotalRefurbished
- TotalUsed

OfferSummary also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of OfferSummary.

- None

Child Response Group

The following response groups are child response groups of OfferSummary.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by OfferSummary.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemLookup&
ItemId=B000A3UB2O&
ResponseGroup=OfferSummary&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by OfferSummary.

```
<OfferSummary>
  <LowestNewPrice>
    <Amount>801</Amount>
    <CurrencyCode>USD</CurrencyCode>
    <FormattedPrice>$8.01</FormattedPrice>
  </LowestNewPrice>
```

```
   <LowestUsedPrice>
     <Amount>799</Amount>
     <CurrencyCode>USD</CurrencyCode>
     <FormattedPrice>$7.99</FormattedPrice>
   </LowestUsedPrice>
   <TotalNew>45</TotalNew>
   <TotalUsed>20</TotalUsed>
   <TotalCollectible>0</TotalCollectible>
   <TotalRefurbished>0</TotalRefurbished>
</OfferSummary>
```

PromotionDetails Response Group

The PromotionDetails response group returns detailed information about promotions (if any) related to items in a response. Included is information about the merchant offering the promotion, claim codes for the promotion, allowed promotion combinations, the type of promotion, beginning and ending dates of the promotion, the promotion ID, eligibility requirements, and text that describes the specifics of the promotion. A subset of this information is returned by the PromotionSummary response group.

A request that uses PromotionDetails must also include one of the following response groups:

- Large
- OfferFull
- Offers

An error is returned if PromotionDetails is not accompanied by one of these response groups in the request.

Promotion Types

Promotion types are returned by the PromotionCategory element and include:

- FreeShipping--The item is shipped free of charge.
- BuyQuantityXGetAmounOffX--If you buy at least the specified number of items, the cost of the next item is discounted. For example, if a customer buys three shirts, the fourth shirt is half off.
- ForEachQuantityXGetAmountOffX--Each item is discounted by the specified amount. For example, all shirts are 30% off.

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes and shows the parentage of the elements returned by PromotionDetails.

All of the elements in the following table, except Promotions, Promotion, and Details, are children of

Promotions/Promotion/Details.

- Amount
- ASIN
- Benefit
- Benefits
- BenefitType
- ComponentType
- CouponCombinationType
- CurrencyAmount
- CurrencyCode
- Details
- EligibilityRequirement
- EligibilityRequirementType
- EligibilityRequirements
- EndDate
- FixedAmount
- FormattedPrice
- GroupClaimCode
- IsInBenefitSet
- IsInEligibilityRequirementSet
- ItemApplicability
- MerchandisingMessage
- MerchantId
- OwningMerchantId
- Promotion
- PromotionCategory
- PromotionId
- Promotions
- StartDate
- TermsAndConditions

PromotionDetails also returns the elements that all response groups return, which described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of PromotionDetails.

- None

Child Response Group

The following response groups are children response groups of PromotionDetails.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by PromotionDetails.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
Operation=ItemLookup&
ContentType=text/xml&
AWSAccessKeyId=[AWS Access Key ID]&
ItemId=B000AQSMPO&
IdType=ASIN&
ResponseGroup=Offers,PromotionDetails&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by PromotionDetails.

```
<Promotions>
  <Promotion>
    <Details>
       <MerchantId>ATVPDKIKX0DER</MerchantId>
       <OwningMerchantId>ATVPDKIKX0DER</OwningMerchantId>
       <PromotionId>A2QIQTNOFYRK5N</PromotionId>
       <PromotionCategory>BuyAmountXGetAmountOffX</PromotionCategory>
       <GroupClaimCode>AUGSAVER</GroupClaimCode>
       <CouponCombinationType>Unrestricted</CouponCombinationType>
       <StartDate>2006 08 01 07:00:00 GMT</StartDate>
       <EndDate>2006 09 01 06:59:59 GMT</EndDate>
       <TermsAndConditions><STRONG>To receive the Best Value dis
count:</STRONG> <OL> <LI>Add $125 of qualifying Kitchen & Housewares or Bed &
Bath products to your Shopping Cart via the <STRONG>Add to Shopping
Cart</STRONG> button on each respective product information page. <LI>At
checkout, enter the promotional code and click the <STRONG>Apply</STRONG>
button. <LI>The amount of the Best Value savings ($25) will be reflected on
the final order checkout page. <LI>If you remove any of the participating
promotion items from your Shopping Cart or violate any of the terms and con
ditions listed below, the promotion will be invalid, and the discount will be
removed from the order. <LI>If you return any of the items involved in the
promotion, the discount previously applied to the order will be subtracted
from the return credit. </LI></OL><BR><STRONG>Terms and Conditions:</STRONG>
<UL> <LI>Promotional offer valid for a limited time only. Items placed in
Shopping Cart overnight may not be eligible for promotion at time of check
out. <LI>Promotion applies only to qualifying items displaying the offer mes
sage on their product information pages. Items that do not display the offer
message do not qualify, regardless of the nature of the item. All All Clad,
Calphalon, Capresso, Emerilware, Le Creuset, Orrefors, Kosta Boda, J.A.
Henckels, Wusthof, Riedel, Marquis, Shun, Komachi, Waterford, Weber, Tassimo,
Margaritaville, DKNY, Tommy Hilfiger, Nautica, Oscar by Oscar de Larenta,
Cath Kidston, Raymond Waites, and KitchenAid Proline products are excluded
from this offer <LI>All Furniture & Decor and Outdoor Living products are ex
cluded from this offer. <LI>Applies only to products sold by the merchant in
dicated in the promotional offer message. Does not apply to items sold by
other merchants on the Amazon.com Web site. For example, where the promotion
al offer applies to items offered by Amazon.com, items offered by other mer
chants on the Amazon.com Web site (e.g. Land's End, Target, etc.) do not
qualify. <LI>Does not apply to any products purchased in Amazon.com's other
sites, including Amazon.co.uk, Amazon.de, Amazon.fr, or Amazon.co.jp, or in
Marketplace, zShops, or Auctions. <LI>Unless the offer message indicates oth
erwise, the promotional offer applies to the lowest priced qualifying item(s)
<LI>Applies only when all qualifying and benefit products in the promotion
are purchased in one order. <LI>Applies only to complete orders shipping to a
single address that meet all other promotional requirements. <LI>Offer good
while supplies last. <LI>No substitutions or rain checks. <LI>Offer must be
redeemed through the Shopping Cart. Does not apply to orders placed with 1
Click. <LI>Shipping and handling charges apply to all products, including bo
nus items.        <LI>Offer may not be combined with other offers, including
promotional certificates. <LI>Void where prohibited.
```

```
</LI></UL></TermsAndConditions>
        <EligibilityRequirements>
          <EligibilityRequirement>
<EligibilityRequirementType>MinPurchase</EligibilityRequirementType>
            <CurrencyAmount>
              <Amount>12500</Amount>
              <CurrencyCode>USD</CurrencyCode>
              <FormattedPrice>$125.00</FormattedPrice>
            </CurrencyAmount>
          </EligibilityRequirement>
        </EligibilityRequirements>
      <Benefits>
        <Benefit>
          <BenefitType>FixedAmountOff</BenefitType>
          <ComponentType>ItemPrice</ComponentType>
          <FixedAmount>
            <Amount>2500</Amount>
            <CurrencyCode>USD</CurrencyCode>
            <FormattedPrice>$25.00</FormattedPrice>
          </FixedAmount>
        </Benefit>
      </Benefits>
      <ItemApplicability>
        <ASIN>B000AQSMPO</ASIN>
        <IsInBenefitSet>true</IsInBenefitSet>
        <IsInEligibilityRequirementSet>true</IsInEligibilityRequirementSet>
      </ItemApplicability>
    </Details>
  </Promotion>
</Promotions>
```

PromotionSummary Response Group

The PromotionSummary response group returns summary information about a promotion, including the type of promotion, beginning and ending dates of the promotion, the promotion ID, eligibility requirements, and text that describes the specifics of the promotion. This information is a subset of the information returned by the PromotionDetails response group.

PromotionSummary must be used along with one of the following response groups:

• Large
• OfferFull
• Offers

An error is returned if ProductDetails is not accompanied by one of these response groups.

Promotion Types

Promotion types are returned by the Category element and include:

• FreeShipping--The item is shipped free of charge.
• BuyQuantityXGetAmounOffX--If you buy at least the specified number of items, the cost of the next item is discounted. For example, if a customer buys three shirts, the fourth shirt is half off.
• ForEachQuantityXGetAmountOffX--Each item is discounted by the specified amount. For example, all shirts are 30% off.

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes and shows the parentage of the elements returned by PromotionSummary.

With the exception of Promotions, Promotion, and Summary, the ancestry of all elements in the table are Offers/Offer/Promotions/Promotion/Summary.

- BenefitDescription
- Category
- EligibilityRequirementDescription
- EndDate
- Promotion
- PromotionId
- Promotions
- StartDate
- Summary
- TermsAndConditions

PromotionSummary also returns the elements that all response groups return, which described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of PromotionSummary.

- None

Child Response Group

The following response groups are children response groups of PromotionSummary.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by PromotionSummary.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
Operation=ItemLookup&
ContentType=text/xml&
AWSAccessKeyId=[AWS Access Key ID]&
```

```
ItemId=B000AQSMPO&
IdType=ASIN&
ResponseGroup=Offers,PromotionSummary&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by PromotionSummary.

```
<Promotions>
  <Promotion>
  <Summary>
    <PromotionId>A2QIQTNOFYRK5N</PromotionId>
    <Category>BuyAmountXGetAmountOffX</Category>
    <StartDate>2006 08 01 07:00:00 GMT</StartDate>
    <EndDate>2006 09 06 06:59:59 GMT</EndDate>
    <EligibilityRequirementDescription>Save $25.00 when you spend $125.00 or
more on Kitchen & Housewares or Bed & Bath products offered by Amazon.com.
Enter code AUGSAVER at checkout.</EligibilityRequirementDescription>
    <BenefitDescription>Save $25.00 when you spend $125.00 or more on Kitchen
& Housewares or Bed & Bath products offered by Amazon.com. Enter code AUG
SAVER at checkout.</BenefitDescription>
    <TermsAndConditions><STRONG>To receive the Best Value discount:</STRONG>
<OL> <LI>Add $125 of qualifying Kitchen & Housewares or Bed & Bath
products to your Shopping Cart via the <STRONG>Add to Shopping Cart</STRONG>
button on each respective product information page. <LI>At checkout, enter
the promotional code and click the <STRONG>Apply</STRONG> button. <LI>The
amount of the Best Value savings ($25) will be reflected on the final order
checkout page. <LI>If you remove any of the participating promotion items
from your Shopping Cart or violate any of the terms and conditions listed be
low, the promotion will be invalid, and the discount will be removed from the
order. <LI>If you return any of the items involved in the promotion, the dis
count previously applied to the order will be subtracted from the return
credit. </LI></OL><BR><STRONG>Terms and Conditions:</STRONG> <UL>
<LI>Promotional offer valid for a limited time only. Items placed in Shopping
Cart overnight may not be eligible for promotion at time of checkout.
<LI>Promotion applies only to qualifying items displaying the offer message
on their product information pages. Items that do not display the offer mes
sage do not qualify, regardless of the nature of the item.  All All
Clad, Calphalon, Capresso, Emerilware, Le Creuset, Orrefors, Kosta Boda, J.A.
Henckels, Wusthof, Riedel, Marquis, Shun, Komachi, Waterford, Weber, Tassimo,
Margaritaville, DKNY, Tommy Hilfiger, Nautica, Oscar by Oscar de Larenta,
Cath Kidston, Raymond Waites, and KitchenAid Proline products are ex
cluded from this offer.  <LI>All Furniture & Decor and Outdoor Living
products are excluded from this offer. <LI>Applies only to products sold by
the merchant indicated in the promotional offer message. Does not apply to
items sold by other merchants on the Amazon.com Web site. For example, where
the promotional offer applies to items offered by Amazon.com, items offered
by other merchants on the Amazon.com Web site (e.g. Land's End, Target, etc.)
do not qualify. <LI>Does not apply to any products purchased in Amazon.com's
other sites, including Amazon.co.uk, Amazon.de, Amazon.fr, or Amazon.co.jp,
or in Marketplace, zShops, or Auctions. <LI>Unless the offer message indic
ates otherwise, the promotional offer applies to the lowest priced qualifying
item(s) <LI>Applies only when all qualifying and benefit products in the pro
motion are purchased in one order. <LI>Applies only to complete orders ship
ping to a single address that meet all other promotional requirements.
<LI>Offer good while supplies last. <LI>No substitutions or rain checks.
<LI>Offer must be redeemed through the Shopping Cart. Does not apply to or
ders placed with 1 Click. <LI>Shipping and handling charges apply to all
products, including bonus items. <LI>Offer may not be combined with other of
fers, including promotional certificates. <LI>Void where prohibited.
</LI></UL></TermsAndConditions>
    </Summary>
  </Promotion>
</Promotions>
```

RelatedItems Response Group

The *RelatedItems* response group returns items related to an item specified in an ItemLookup request. .Related items could be, for example, all of the Unbox episodes in a TV season that are sold separately, or, for example, all of the MP3Download tracks on a MP3 album.

The data returned for *RelatedItems* is limited to ASINs and ItemAttributes. This remains true even if you add additional response groups, such as Large, that would otherwise return additional data.

The relationship between items is unidirectional. One item is the parent and one item is the child. Items, however, can have multiple children or multiple parents for a given relationship type.

The way in which the items are related is specified by the *RelationshipType* parameter. This parameter is required when you use the *RelatedItems* response group. Some values include Episode, Season, Tracks, and Variation. For a list of all relationship types, go to the ItemLookup page.

The relationship type is usually named after the child item in the relationship. For example, an MP3 Track is related to an MP3 album and the type of relationship is Tracks. In this relationship, the album is the parent. If you did an ItemLookup for an MP3 Track and requested *RelatedItems* using Tracks as the *RelationshipType*, you would receive the parent album (or albums) for that Track. Conversely, looking up an album using Tracks as the *RelationshipType* returns the list of Tracks on that album.

Each ItemLookup request can return, at most, ten related items. To return additional items, use the *RelateditemsPage* parameter. A value of 2, for example, returns the second set of ten related items.

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch

Response Elements

The following elements are returned by *RelatedItems*:

- ItemAttributes
- RelatedItems

RelatedItems also returns the elements that all response groups return. For more information, go to Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of *RelatedItems*.

- None

Child Response Group

The following response groups are child response groups of RelatedItems.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by *RelatedItems*.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemLookup&
RelationshipType=Tracks&
ItemId=B0013D8EQK&
ItemType=ASIN&
ResponseGroup=RelatedItems,Small&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by RelatedItems.

```
<Item>
  <ASIN>B0013D8EQK</ASIN>
<DetailPageURL>http://www.amazon.com/gp/redirect.html%3FASIN=B0013D8EQK%26tag
=<AssociateTag>XXXX3FSubscriptionId=[AWS Access Key ID]&
</DetailPageURL>
  <ItemAttributes>
    <Creator Role="Primary Contributor">Johnny Cash</Creator>
    <Manufacturer>Columbia/Legacy</Manufacturer>
    <ProductGroup>Digital Music Album</ProductGroup>
    <Title>At San Quentin</Title>
  </ItemAttributes>
  <RelatedItems>
    <Relationship>Children</Relationship>
    <RelationshipType>Tracks</RelationshipType>
    <RelatedItemCount>31</RelatedItemCount>
    <RelatedItemPageCount>4</RelatedItemPageCount>
    <RelatedItemPage>1</RelatedItemPage>
    <RelatedItem>
      <Item>
        <ASIN>B0013D4KJK</ASIN>
        <ItemAttributes>
          <Creator Role="Primary Contributor">Johnny Cash</Creator>
          <Manufacturer>Columbia/Legacy</Manufacturer>
          <ProductGroup>Digital Music Track</ProductGroup>
          <Title>The Long Black Veil/Give My Love To Rose (Live)</Title>
        </ItemAttributes>
      </Item>
    </RelatedItem>
    <RelatedItem>
      <Item>
        <ASIN>B0013D7VG4</ASIN>
        <ItemAttributes>
          <Creator Role="Primary Contributor">Johnny Cash</Creator>
          <Manufacturer>Columbia/Legacy</Manufacturer>
          <ProductGroup>Digital Music Track</ProductGroup>
          <Title>Folsom Prison Blues (Live)</Title>
        </ItemAttributes>
      </Item>
    </RelatedItem>
    ...
  </RelatedItems>
</Item>
```

Request Response Group

The Request response group returns all of the parameters and their values that were submitted in a request. Use this information to debug requests.

All Amazon Associates Web Service operations return this response group by default. There can be up to ten parameters in each request.

Relevant Operations

Operations that can use this response group include:

- All Amazon Associates Web Service operations use the Request response group by default.

Response Elements

The following table describes the elements returned by Request. These elements are returned in all Amazon Associates Web Service responses because the Request response group is a default response group for all Amazon Associates Web Service operations.

- Code
- IsValid
- Message
- Name
- RequestId
- UserAgent
- Value

Parent Response Group

The following response groups are parent response groups of Request.

- None

Child Response Group

The following response groups are child response groups of Request.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by Request.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
SearchIndex=Books&
Title=Harry%20Potter&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by Request.

```
<OperationRequest>
  <HTTPHeaders>
    <Header Name="UserAgent" Value="Mozilla/4.0 (compatible; MSIE 6.0; Win
dows NT 5.1; SV1; FunWebProducts; .NET CLR 1.1.4322; .NET CLR 2.0.50727)" />
  </HTTPHeaders>
  <RequestId>00KE1E5MWR4KXX0V1WYD</RequestId>
  <Arguments>
    <Argument Name="SearchIndex" Value="Books" />
    <Argument Name="Service" Value="AWSECommerceService" />
    <Argument Name="Title" Value="Harry Potter" />
    <Argument Name="Operation" Value="ItemSearch" />
    <Argument Name="AWSAccessKeyId" Value="[VALUE]" />
    <Argument Name="Version" Value="2007-04-04" />
  </Arguments>
  <RequestProcessingTime>
    0.3419508934021
  </RequestProcessingTime>
</OperationRequest>
  <Items>
    <Request>
      <IsValid>True</IsValid>
      <ItemSearchRequest>
        <SearchIndex>Books</SearchIndex>
        <Title>Harry Potter</Title>
      </ItemSearchRequest>
    </Request>
```

Reviews Response Group

The Reviews response group returns, for each item in the response, a:

- List of customer reviews
- Average review rating (1 to 5 stars, where 5 is the best)
- Total number of reviews

Each customer review contains a:

- Rating
- Summary
- Date of review
- Text of the full review

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes the elements returned by Reviews.

- ASIN
- AverageRating
- Content
- CustomerId
- Date
- HelpfulVotes
- Rating
- Summary
- TotalPages
- TotalResults
- TotalReviewPages
- TotalReviews
- TotalVotes

Reviews also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of Reviews.

- None

Child Response Group

The following response groups are child response groups of Reviews.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by Reviews.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemLookup&
ItemId=0976925524&
ResponseGroup=Reviews&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by Reviews.

```
<Review>
  <ASIN>0976925524</ASIN>
  <Rating>5</Rating>
  <HelpfulVotes>2</HelpfulVotes>
  <CustomerId>A111111111111111</CustomerId>
  <TotalVotes>9</TotalVotes>
  <Date>2006-04-12</Date>
  <Summary>Fabulous reading. Order a copy.</Summary>
```

```
    <Content>Human drama happens in a small, private school for girls in New
England where a beloved headmistress has been dismissed. Her successor is
challenged with the task of saving the school. Steven Davenport's book, Sav
ing Miss Olivers, is filled with wisdom, lots of humor, plot twists and char
acters that leap off of the page. The passion of the characters pulls you in
and within the first twenty pages you feel you know them and care about them.
This book is more than just a page-turner, which it, nevertheless, is. The
author gives each character a full range of emotions and throughout the
course of the book we see each character grow. You will love each one for
different reasons. This book belongs on everyone's shelf whether you know
private schools or not. This is human drama and the author is fabulous at
writing about it. I can't recommend the book highly enough.</Content>
</Review>
```

SalesRank Response Group

The SalesRank response group returns the sales rank for each item in the response. One is the highest rating; a large number means the item has not sold well. Sales rank is per Search Index so it is possible to have several items in one response ranked, for example, as 1.

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes the elements returned by SalesRank.

- ASIN
- SalesRank
- TotalPages
- TotalResults

SalesRank also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of SalesRank.

- None

Child Response Group

The following response groups are child response groups of SalesRank.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by SalesRank.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemLookup&
ItemId=0976925524&
ResponseGroup=SalesRank&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by SalesRank.

```
<Item>
  <ASIN>0976925524</ASIN>
  <SalesRank>68</SalesRank>
</Item>
```

SearchBins Response Group

The SearchBins response group groups the items returned by ItemSearch into bins. A set of bins, for example, can be a set of price ranges for a product. In the case of women's shoes, for example, you might have a bin that returns ASINs for shoes that cost between $0 and $50, a second bin for shoes that cost $50 to $100, and a third bin for shoes that cost more than $100. The basis on which the items are split into bins is specified by the NarrowBy attribute in the SearchBinSet tag. To refine the search, you make repeated requests using the NarrowBy values.

ItemSearch returns the first twenty-five bins of results.

For more information about search bins, see Using Search Bins to Find Items.

Availability

US locale only.

NarrowBy

The basis on which the items are split into bins is specified by the NarrowBy attribute in the SearchBinSet tag. In the following example, the NarrowBy attribute shows that the bins are based on price range:

```
<SearchBinSet NarrowBy="PriceRange">
```

For another product category, the NarrowBy attribute might be different, for example:

```
<SearchBinSet NarrowBy="BrandName">
```

You cannot specify NarrowBy values nor can you specify the values they encompass. When SearchBins is included as a Response Group in a request, ItemSearch automatically divides the ItemSearch results into bins.

NarrowBy Values

NarrowBy values include:

- Subject—BrowseNode IDs of all topics related to items returned by `ItemSearch`. For example, searching for books about dogs returns, in the Subject bins, BrowseNodes for "Home & Garden," "Animal Care & Pets," "Dogs," and "Educational."
- BrandName—Brands, such as Levi's, Reebok, and Nike, that create the item. Use the name of a brand to filter out similar items made by other companies.
- PriceRange—Minimum and maximum prices for a bin of items. Use the minimum and maximum price values in each bin to filter out items outside of the price range you want.
- SpecialSize—Uncommon sizes an item comes in. Examples are "Plus Size & Tall," "Misses," "Maternity," "Husky," "Petites," and "Big & Tall."
- Merchant—All merchants selling an item. This bin returns all merchants even if MerchantId is set to a single merchant in the `ItemSearch` request. In the response, the ASINs returned will be specific to the MerchantId specified in the request. The merchants listed in the Merchant bin can be used to list other merchants that sell the same ASIN. There are some items sold by only one merchant. In that case, the Merchant bin returns with only that merchant.

All Search Indices return the Subject bin. Most return all of the bins.

NarrowBy Values by Search Index

The following list shows which NarrowBy values are returned by each Search Index:

- Apparel—Subject, BrandName, PriceRange, SpecialSize, Merchant
- Baby—Subject, BrandName, PriceRange, SpecialSize, Merchant
- Beauty—Subject, BrandName, PriceRange, SpecialSize, Merchant
- Blended—Not supported
- Books—Subject
- Classical—Subject
- DVD—Subject
- Electronics—Subject, BrandName, PriceRange, SpecialSize, Merchant
- Garden—Subject, BrandName, PriceRange, SpecialSize, Merchant
- GourmetFood—Subject, BrandName, PriceRange, SpecialSize, Merchant
- HealthPersonalCare—Subject, BrandName, PriceRange, SpecialSize, Merchant
- Jewelry—Subject, Brand, PriceRange, SpecialSize, Merchant
- Kitchen—Subject, BrandName, PriceRange, SpecialSize, Merchant
- Magazines—Subject
- Marketplace—Subject
- Merchants—Subject, BrandName, PriceRange, SpecialSize, Merchant
- Miscellaneous—Subject, BrandName, PriceRange, SpecialSize, Merchant
- Music—Subject
- MusicalInstruments—Subject, BrandName, PriceRange, SpecialSize, Merchant
- OfficeProducts—Subject, BrandName, PriceRange, SpecialSize, Merchant
- PCHardware—Subject, BrandName, PriceRange, SpecialSize, Merchant
- Photo—Subject, BrandName, PriceRange, SpecialSize, Merchant
- Showtimes—Theater
- Software—Subject, BrandName, PriceRange, SpecialSize, Merchant
- SportingGoods—Subject, BrandName, PriceRange, SpecialSize, Merchant

- Theatrical—Subject
- Tools—Subject, BrandName, PriceRange, SpecialSize, Merchant
- Toys—Subject, BrandName, PriceRange, SpecialSize, Merchant
- Travel—Subject
- VHS—Subject
- Video—Subject
- VideoGames—Subject, BrandName, PriceRange, SpecialSize, Merchant
- Wireless—Subject
- WirelessAccessories—Subject

Element Tags in a Bin

The element tags in a bin vary according to the bin. For example, in bins based on price, the elements and Name values are:

```
<BinName>
 <BinItemCount>
 <BinParameter>
    <Name>MinimumPrice</Name>
  <Value>
 <BinParameter>
  <Name>MaximumPrice</Name>
  <Value>
```

The elements show the minimum and maximum price for items in that bin, and the number of items in that bin.

Other NarrowBy values use other element tags in their bins. For example, when NarrowBy is "Brand," the element tags and Name values are:

```
<Bin>
 <BinName>
 <BinItemCount>
 <BinParameter>
  <Name>Brand</Name>
  <Value>
```

You cannot specify the element tags returned in a bin.

Drilling Down

You can take the values in a bin and add them to the `ItemSearch` query to filter out of the response items that are outside of that bin. To narrow the search results to shirts that cost between $0 and $25, for example, you would add the following Name and its corresponding value as additional parameters in the original ItemSearch request:

```
&MinimumPrice=0
&MaximumPrice=2499
```

You could narrow the search results even further by adding an additional parameter to the query. For example, you could specify

```
&Brand=Levi's
```

The response would then only include shirts by Levi's that cost under $25. You could continue to drill down by adding additional parameters to the request.

Notice that in each case the results were narrowed down by adding the value tagged with Name and its corresponding value to the original `ItemSearch` request.

Relevant Operations

Operations that can use this response group include:

- ItemSearch

Response Elements

The following table describes the elements returned by SearchBins.

- BinItemCount
- BinName
- Name
- SearchBinSets
- Value

SearchBins also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of SearchBins.

- None

Child Response Group

The following response groups are child response groups of SearchBins.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by SearchBins.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
MerchantId=A363XKZVKSMVXW&
Condition=All&
SearchIndex=SportingGoods&
Keywords=Glove&
ResponseGroup=SearchBins&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by SearchBins.

```
<Item>
  <ASIN>B00005R2GR</ASIN>
</Item>
<Item>
  <ASIN>B00076ZDV8</ASIN>
</Item>
<Item>
  <ASIN>B00092FEEG</ASIN>
</Item>
<Item>
  <ASIN>B000ADTP1W</ASIN>
</Item>
<SearchBinSets>
  <SearchBinSet NarrowBy="PriceRange">
    <Bin>
        <BinName>$25-$49</BinName>
        <BinItemCount>316</BinItemCount>
    <BinParameter>
        <Name>MinimumPrice</Name>
        <Value>2500</Value>
     </BinParameter>
    <BinParameter>
        <Name>MaximumPrice</Name>
        <Value>4999</Value>
      </BinParameter>
    </Bin>
  </SearchBinSet>
    <Bin>
      <BinName>$0-$24</BinName>
      <BinItemCount>280</BinItemCount>
    <BinParameter>
      <Name>MinimumPrice</Name>
      <Value>0</Value>
      </BinParameter>
    <BinParameter>
      <Name>MaximumPrice</Name>
      <Value>2499</Value>
      </BinParameter>
      </Bin>
 </SearchBinSet>

<SearchBinSet NarrowBy="BrandName">
  <Bin>
    <BinName>Rawlings</BinName>
    <BinItemCount>71</BinItemCount>
  <BinParameter>
    <Name>Brand</Name>
    <Value>Rawlings</Value>
    </BinParameter>
    </Bin>
  <Bin>
    <BinName>Body Glove</BinName>
    <BinItemCount>53</BinItemCount>
  <BinParameter>
    <Name>Brand</Name>
    <Value>Body Glove</Value>
    </BinParameter>
    </Bin>
</SearchBinSet>

<SearchBinSet NarrowBy="Merchant">
  <Bin>
    <BinName>Sports"R"Us</BinName>
    <BinItemCount>860</BinItemCount>
  <BinParameter>
    <Name>MerchantId</Name>
    <Value>A363XKZVKSMVXW</Value>
    </BinParameter>
    </Bin>
  <Bin>
    <BinName>Target</BinName>
```

```
      <BinItemCount>8</BinItemCount>
   <BinParameter>
      <Name>MerchantId</Name>
      <Value>A1VC38T7YXB528</Value>
      </BinParameter>
      </Bin>
</SearchBinSet>

<SearchBinSet NarrowBy="Subject">
   <Bin>
      <BinName>Categories</BinName>
      <BinItemCount>860</BinItemCount>
   <BinParameter>
      <Name>BrowseNode</Name>
      <Value>3375301</Value>
      </BinParameter>
      </Bin>
   <Bin>
      <BinName>Baseball</BinName>
      <BinItemCount>311</BinItemCount>
   <BinParameter>
      <Name>BrowseNode</Name>
      <Value>3395731</Value>
      </BinParameter>
      </Bin>
</SearchBinSet>
```

Notice that the NarrowBy value is PriceRange.

Seller Response Group

The Seller response group returns information about sellers, including the seller ID, nickname, seller rating, and location for each seller in the response.

This response group is often used with SellerLookup to display comprehensive information about the seller.

Relevant Operations

Operations that can use this response group include:

- SellerLookup

Response Elements

The following table describes the elements returned by Seller.

- About
- Feedback
- FeedbackRating
- Location
- Name
- SellerLegalName
- SellerNickname
- TotalFeedback
- TotalFeedbackPages
- TotalRatings

Seller also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of Seller.

• None

Child Response Group

The following response groups are child response groups of Seller.

• None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by Seller.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=SellerLookup&
SellerId=[Seller  ID]&
ResponseGroup=Seller&
Version=2007-10-29
```

Sample Response Snippet

The following response snippet shows the elements returned by Seller.

```
<Seller>
  <SellerId>[Seller  ID]</SellerId>
  <SellerName>Amazon.com</SellerName>
  <SellerLegalName>Amazon.com, LLC</SellerLegalName>
  <GlancePage>http://www.amazon.com/gp/help/seller/at a
glance.html?seller=ATVPDKIKX0DER&amp;marketplaceSeller=1</GlancePage>
  <AverageFeedbackRating>0.0</AverageFeedbackRating>
  <SellerFeedback>
    <Feedback>
      <Rating>1</Rating>
      <Comment>As clearly indicated above, I ordered "How to Do Everything
with Windows XP Home Networking" by Dave Field, but received instead "How to
Do Everything with Windows XP" by Curt Simmons, a totally different book, for
which I have no use.</Comment>
      <Date>2006 06 01T01:58+0000</Date>
      <RatedBy>A59KKB5O4U1NE</RatedBy>
    </Feedback>
```

SellerListing Response Group

The SellerListing response group returns information about items for sale by sellers in the Marketplace. Information includes such things as price, listing ID, exchange ID, ASIN, title, the date the item was first put on sale, quantity, and so forth, for each of item in the response.

This response group is often used in conjunction with SellerListingSearch and SellerLookup to return comprehensive information about the items in the response.

Relevant Operations

Operations that can use this response group include:

- SellerListingLookup
- SellerListingSearch

Response Elements

The following table describes the elements returned by SellerListing.

- Amount
- ASIN
- Condition
- CurrencyCode
- EAN
- EndDate
- ExchangeId
- FormattedPrice
- Image
- ListingId
- Nickname
- Quantity
- SellerId
- SKU
- StartDate
- Status
- StoreId
- StoreName
- SubCondition
- Title
- UPC
- WillShipExpedited
- WillShipInternational

SellerListing also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of SellerListing.

- None

Child Response Group

The following response groups are child response groups of SellerListing.

• None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by SellerListing.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKey=[AWS Access Key ID]&
Operation=SellerListingSearch&
SellerId=[Seller ID]&
ResponseGroup=SellerListing&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by SellerListing.

```
<SellerListing>
  <ExchangeId>Y06Y0322155Y6575786</ExchangeId>
  <ListingId>0909R298811</ListingId>
  <ASIN>0451205367</ASIN>
  <Title>Richest Man in Babylon [Paperback] by Clason, George S.</Title>
  <Price>
    <Amount>273</Amount>
    <CurrencyCode>USD</CurrencyCode>
    <FormattedPrice>$2.73</FormattedPrice>
  </Price>
  <StartDate>2005-09-10</StartDate>
  <EndDate>2008-08-25</EndDate>
  <Status>Open</Status>
  <Quantity>293</Quantity>
  <Condition>new</Condition>
  <SubCondition>new</SubCondition>
  <Seller>
    <SellerId>ASYDZOX0HKBSE</SellerId>
    <Nickname>any_book</Nickname>
  </Seller>
</SellerListing>
```

Similarities Response Group

The Similarities response group returns titles and ASINs of items that are similar to the one specified in the request.

This response group is often used in conjunction with ItemLookup to return items that are similar to the one specified in the request.

Relevant Operations

Operations that can use this response group include:

• ItemLookup
• ItemSearch
• ListLookup
• SimilarityLookup

Response Elements

The following table describes the elements returned by Similarities.

- ASIN
- Title
- TotalPages
- TotalResults

Similarities also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of Similarities.

- None

Child Response Group

The following response groups are child response groups of Similarities.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by Similarities.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKey=[AWS Access Key ID]&
Operation=ItemSearch&
Condition=All&
SearchIndex=Blended&
Keywords=Mustang&
Merchant=All&
ResponseGroup=Similarities
```

Sample Response Snippet

The following response snippet shows the elements returned by Similarities.

```
<SimilarProduct>
  <ASIN>B00004GJVO</ASIN>
  <Title>Minor Move</Title>
</SimilarProduct>
```

Small Response Group

The Small response group returns basic information about items in a response. The information includes the item's ASIN, DetailPageURL, title, product group, and author.

This response group is often used with ItemLookup, ItemSearch, or SimilarityLookup to return basic information about the items in the response.

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes the elements returned by Small.

- Actor
- Artist
- ASIN
- Author
- CorrectedQuery
- Creator
- DetailPageURL
- Director
- Keywords
- Manufacturer
- Message
- ProductGroup
- Role
- Title
- TotalPages
- TotalResults

Small also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of Small.

- Large
- Medium

Child Response Group

The following response groups are child response groups of Small.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by Small.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKey=[AWS Access Key ID]&
Operation=ItemSearch&
Condition=All&
SearchIndex=Blended&
Keywords=Mustan&
Merchant=All&
ResponseGroup=Small&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by Small.

```
<CorrectedQuery>
  <Keywords>mustang</Keywords>
  <Message>We found no matches for (keywords=Mustan). Below are results for
(keywords=mustang).</Message>
 </CorrectedQuery>
<Item>
  <ASIN>B0002Y69UO</ASIN>
<DetailPageURL>http://www.amazon.com/exec/obidos/redirect?tag=ws%26link_code=
xm2%26camp=2025%26creative=165953%26path=http://www.amazon.com/gp/redirect.ht
ml%253fASIN=B0002Y69UO%2526tag=ws%2526lcode=xm2%2526cID=2025%2526ccmID=165953
%2526location=/o/ASIN/B0002Y69UO%25253FSubscriptionId=1V9M7E1ZATWETZDS6W82</D
etailPageURL>
  <ItemAttributes>
    <Actor>America's Favorite Cars</Actor>
    <ProductGroup>DVD</ProductGroup>
    <Title>America's Favorite Cars - The Complete Mustang 40th An
niversary</Title>
  </ItemAttributes>
</Item>
```

Notice that the Keywords value, Mustan, was considered misspelled. The search results were for the word, Mustang, instead.

Subjects Response Group

The Subjects response group returns a book's Subject description, which characterizes the book's content.

This response group is often used with ItemSearch and ItemLookup to return the subjects by which a book can be categorized.

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes the elements returned by Subjects.

- Subject

Subjects also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of Subjects.

- None

Child Response Group

The following response groups are child response groups of Subjects.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by Subjects.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
Condition=All&
SearchIndex=Blended&
Keywords=Brando&
Merchant=All&
ResponseGroup=Subjects&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by Subjects.

```
<Item>
 <ASIN>9589393314</ASIN>
 <Subjects>
   <Subject>Central America</Subject>
   <Subject>Colombia</Subject>
   <Subject>Natural history</Subject>
   <Subject>Travel / South America</Subject>
 </Subjects>
```

TaggedGuides Response Group

The TaggedGuides response group returns all guides labeled by a specified tag. For more information about tags, see Tags.

In the tag-related response groups, Tags and TagSummary specify the amount of informtion returned.

The other tag-related response groups, TaggedGuides, TaggedItems, and TaggedListmaniaLists, specify the kind of entity tagged.

Relevant Operations

Operations that can use this response group include:

- CustomerContentLookup
- ItemLookup
- ItemSearch
- TagLookup

Response Elements

The following table describes the elements returned by TaggedGuides.

- Name
- Tag
- Tags
- TagType
- TotalUsages

TaggedGuides also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of TaggedGuides.

- None

Child Response Group

The following response groups are child response groups of TaggedGuides.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by TaggedGuides.

```
http://ecs.amazonaws.com/onca/xml
?Service=AWSECommerceService&
AWSAccessKeyId=[Access Key ID]&
AssociateTag=[Associate Tag]&
Operation=TagLookup&
ItemId=0545010225&
ResponseGroup=TaggedGuides&
Marketplace=us&
Version=2008-06-26&
TagName=tai
```

Sample Response Snippet

The following response snippet shows the elements returned by TaggedGuides.

```
<Tags>
  <Tag>
    <Name>tai</Name>
    <TagType>Guides</TagType>
    <TotalUsages>0</TotalUsages>
  </Tag>
</Tags>
```

TaggedItems Response Group

The TaggedItems response group returns information about all items labeled by a specified tag. Information includes the first and last time an item was tagged, how many times it was tagged, and who tagged it. For more information about tags, see Tags.

In the tag-related response groups, Tags and TagSummary specify the amount of informtion returned. The other tag-related response groups, TaggedGuides, TaggedItems, and TaggedListmaniaLists, specify the kind of entity tagged.

Relevant Operations

Operations that can use this response group include:

- CustomerContentLookup
- ItemLookup
- ItemSearch
- TagLookup

Response Elements

The following table describes the elements returned by TaggedItems.

- ASIN
- CustomerId
- DistinctUsers
- FirstTagging
- Item
- LastTagging
- Name
- Tag
- TaggedItems
- TagName
- Tags
- TagType
- Time
- TotalUsages
- UserId

TaggedItems also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of TaggedItems.

• None

Child Response Group

The following response groups are child response groups of TaggedItems.

• None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by TaggedItems.

```
http://ecs.amazonaws.com/onca/xml
?Service=AWSECommerceService&
AWSAccessKeyId=[Access Key ID]&
AssociateTag=[Associate Tag]&
Operation=TagLookup&
ItemId=0545010225&
ResponseGroup=TaggedItems&
Marketplace=us&
Version=2008-06-26&
TagName=japan
```

Sample Response Snippet

The following response snippet shows the elements returned by TaggedItems.

```
<Tags>
  ...
  <Tag>
    <Name>japan</Name>
    <TagType>Items</TagType>
    <TotalUsages>1779</TotalUsages>
    <TaggedItems>
      <List>
        <ListId>15HSHKBGFT9PR</ListId>
      </List>
      <DistinctUsers>10</DistinctUsers>
      <TotalUsages>10</TotalUsages>
      <FirstTagging>
        <UserId>AKYNIMNI8LOBP</UserId>
        <Time>2007 01 01 16:16:54</Time>
      </FirstTagging>
      <LastTagging>
        <UserId>AKYNIMNI8LOBP</UserId>
        <Time>2007 01 01 16:16:54</Time>
      </LastTagging>
    </TaggedListmaniaLists>
    <TaggedListmaniaLists>
      <List>
        <ListId>1H6IBS7W62367</ListId>
      </List>
      <DistinctUsers>1</DistinctUsers>
      <TotalUsages>1</TotalUsages>
```

```
    <FirstTagging>
      <UserId>A3F9988KGE684U</UserId>
      <Time>2007 03 29 17:03:33</Time>
    </FirstTagging>
    <LastTagging>
      <UserId>A3F9988KGE684U</UserId>
      <Time>2007 03 29 17:03:33</Time>
    </LastTagging>
  </TaggedItems>
 </Tag>
</Tags>
```

TaggedListmaniaLists Response Group

The TaggedListmaniaLists response group returns all Listmania lists labeled by a specified tag. For more information about tags, see Tags.

In the tag-related response groups, Tags and TagSummary specify the amount of informtion returned. The other tag-related response groups, TaggedGuides, TaggedItems, and TaggedListmaniaLists, specify the kind of entity tagged.

Relevant Operations

Operations that can use this response group include:

- CustomerContentLookup
- ItemLookup
- ItemSearch
- TagLookup

Response Elements

The following table describes the elements returned by TaggedListmaniaLists.

- DistinctUsers
- FirstTagging
- Item
- LastTagging
- Name
- TTag
- Tags
- TagType
- TotalUsages
- UserId

TaggedListmaniaLists also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of TaggedListmaniaLists.

• None

Child Response Group

The following response groups are child response groups of TaggedListmaniaLists.

• None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by
TaggedListmaniaLists.

```
http://ecs.amazonaws.com/onca/xml
?Service=AWSECommerceService&
AWSAccessKeyId=[Access Key ID]&
AssociateTag=[Associate Tag]&
Operation=TagLookup&
ItemId=0545010225&
ResponseGroup=TaggedListmaniaLists&
Marketplace=us&
Version=2008-06-26&
TagName=japan
```

Sample Response Snippet

The following response snippet shows the elements returned by TaggedListmaniaLists.

```
<Tags>
  <Tag>
    <Name>japan</Name>
    <TagType>ListmaniaLists</TagType>
    <TotalUsages>39</TotalUsages>
    <TaggedListmaniaLists>
      <List>
        <ListId>15HSHKBGFT9PR</ListId>
      </List>
      <DistinctUsers>1</DistinctUsers>
      <TotalUsages>1</TotalUsages>
      <FirstTagging>
        <UserId>AKYNIMNI8LOBP</UserId>
        <Time>2007 01 01 16:16:54</Time>
      </FirstTagging>
      <LastTagging>
        <UserId>AKYNIMNI8LOBP</UserId>
        <Time>2007 01 01 16:16:54</Time>
      </LastTagging>
    </TaggedListmaniaLists>
    <TaggedListmaniaLists>
      <List>
        <ListId>1H6IBS7W62367</ListId>
      </List>
      <DistinctUsers>1</DistinctUsers>
      <TotalUsages>1</TotalUsages>
      <FirstTagging>
        <UserId>A3F9988KGE684U</UserId>
        <Time>2007 03 29 17:03:33</Time>
      </FirstTagging>
      <LastTagging>
        <UserId>A3F9988KGE684U</UserId>
        <Time>2007 03 29 17:03:33</Time>
      </LastTagging>
    </TaggedListmaniaLists>
  </Tag>
```

```
</Tags>
```

Tags Response Group

The Tags response group returns complete information about tags associated with specified items. Information includes the first and last time an item was tagged, how many times it was tagged, and who tagged it. For more information about tags, see Tags.

Relevant Operations

Operations that can use this response group include:

- CustomerContentLookup
- ItemLookup
- ItemSearch
- TagLookup

Response Elements

The following table describes the elements returned by Tags.

- ASIN
- CustomerId
- DistinctUsers
- FirstTagging
- Item
- LastTagging
- Name
- Tag
- TaggedItems
- TagName
- Tags
- TagType
- Time
- TotalUsages
- UserId

Tags also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of Tags.

- None

Child Response Group

The following response groups are child response groups of Tags.

- TaggedGuides
- TaggedItems
- TaggedListmaniaLists
- TagsSummary

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by Tags.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[Access Key ID]&
AssociateTag=[Associate Tag]&
Operation=TagLookup&
ItemId=0545010225&
ResponseGroup=Tags&
Marketplace=us&
Version=2008-06-26&
TagName=tai&
CustomerId=[Customer ID]
```

Sample Response Snippet

The following response snippet shows the elements returned by Tags.

```
<Tags>
...
<Tag>
  <Name>tai</Name>
  <TagType>Items</TagType>
  <DistinctItems>1</DistinctItems>
  <DistinctUsers>1</DistinctUsers>
  <TotalUsages>1</TotalUsages>
  <FirstTagging>
    <EntityId>B00005A1UV</EntityId>
    <UserId>A2ELLA3OQ06A6Z</UserId>
    <Time>2005-12-07 14:41:52</Time>
  </FirstTagging>
  <LastTagging>
    <EntityId>B00005A1UV</EntityId>
    <UserId>A2ELLA3OQ06A6Z</UserId>
    <Time>2005-12-07 14:41:52</Time>
  </LastTagging>
  <TaggedItems>
    <Item>
      <ASIN>B00005A1UV</ASIN>
    </Item>
  </TaggedItems>
</Tag>
...
</Tags>
```

TagsSummary Response Group

The TagsSummary response group returns the items tagged by a specified tag. For more information about tags, see Tags.

In the tag-related response groups, Tags and TagSummary specify the amount of informtion returned. The other tag-related response groups, TaggedGuides, TaggedItems, and TaggedListmaniaLists, specify

the kind of entity tagged.

Relevant Operations

Operations that can use this response group include:

- CustomerContentLookup
- ItemLookup
- ItemSearch
- TagLookup

Response Elements

The following table describes the elements returned by TagsSummary.

- ASIN
- Item
- Name
- Tag
- TaggedItems
- TagName
- Tags
- TotalUsages

TagsSummary also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of TagsSummary.

- None

Child Response Group

The following response groups are child response groups of TagsSummary.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by TagsSummary.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[Access Key ID]&
AssociateTag=[Associate Tag]&
Operation=TagLookup&
ItemId=0545010225&
ResponseGroup=TagsSummary&
Marketplace=us&
```

```
Version=2008-06-26&
TagName=tai
```

Sample Response Snippet

The following response snippet shows the elements returned by TagsSummary.

```
<TagsSummary>
...
<Tag>
  <Name>tai</Name>
  <TagType>Items</TagType>
  <TotalUsages>1</TotalUsages>
  <TaggedItems>
    <Item>
      <ASIN>B00005A1UV</ASIN>
    </Item>
  </TaggedItems>
  <TaggedItems>
    <Item>
      <ASIN>1886969434</ASIN>
    </Item>
  </TaggedItems>
</Tag>
...
</Tags>
```

TopSellers Response Group

The TopSellers response group returns the ASINs and titles of the ten best sellers within a specified browse node.

Availability

This response group is available in all locales.

Relevant Operations

Operations that can use this response group include:

• BrowseNodeLookup

Response Elements

The following table describes the elements returned by TopSellers.

• Actor for the Video search index
• Artist for the Music search index
• ASIN
• Authors for the Books search index
• DetailPageURL
• ProductGroup
• Title
• TopItemSet

TopSellers also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of TopSellers.

• None

Child Response Group

The following response groups are child response groups of TopSellers.

• None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by TopSellers.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=BrowseNodeLookup&
BrowseNodeId=20&
ResponseGroup=TopSellers&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by TopSellers.

```
<TopItemSet>
    <Type>TopSellers</Type>
    <TopItem>
            <ASIN>0553576399</ASIN>
            <Title>Distraction</Title>
            <DetailPageURL>
ht
tp://www.amazon.com/gp/redirect.html%3FASIN=0553576399%26tag=ws%26lcode=xm2%2
6cID=2025%26ccmID=165953%26location=/Distraction-Bruce-Sterling/dp/0553576399
%253FSubscriptionId=1R2TGZ5HQ233N0M8N2R2
            </DetailPageURL>
            <ProductGroup>Book</ProductGroup>
            <Author>Bruce Sterling</Author>
        </TopItem>
        <TopItem>
         ....
         .....
</TopItemSet>
```

Tracks Response Group

The Tracks response group returns the title and number of each track on each CD in the response. For example, you could use ItemLookup to return Tracks information about a specified CD.

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes the elements returned by Tracks.

- Number
- TotalPages
- TotalResults
- Track

Tracks also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of Tracks.

- None

Child Response Group

The following response groups are child response groups of Tracks.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by Tracks.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
Condition=All&
SearchIndex=Blended&
Keywords=GodSmack&
Merchant=All&
ResponseGroup=Tracks&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by Tracks.

```
<Item>
  <ASIN>B000EXOAAO</ASIN>
```

```
<Tracks>
  <Disc Number="1">
    <Track Number="1">Livin In Sin</Track>
    <Track Number="2">Speak</Track>
    <Track Number="3">The Enemy</Track>
    <Track Number="4">Shine Down</Track>
    <Track Number="5">Hollow</Track>
    <Track Number="6">No Rest For The Wicked</Track>
    <Track Number="7">Bleeding Me</Track>
    <Track Number="8">Voodoo Too</Track>
    <Track Number="9">Temptation</Track>
    <Track Number="10">Mama</Track>
    <Track Number="11">One Rainy Day</Track>
  </Disc>
</Tracks>
</Item>
```

TransactionDetails Response Group

The TransactionDetails response group returns information about customer transactions, including:

- Condition of the transaction
- Date of the transaction
- Seller ID
- Total dollar amount of the transaction

TransactionDetails does not return information about the items purchased or about the customers who completed the transaction.

Relevant Operations

Operations that can use this response group include:

- TransactionLookup

Response Elements

The following table describes the elements returned by TransactionDetails.

- Amount
- CurrencyCode
- FormattedPrice
- ShipmentItems
- Shipments
- Totals
- TransactionDate
- TransactionDateEpoch
- TransactionId
- TransactionItem
- TransactionItemId
- TransactionItems

`TransactionDetails` also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of TransactionDetails.

• None

Child Response Group

The following response groups are child response groups of TransactionDetails.

• None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by TransactionDetails.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=TransactionLookup&
TransactionId=011-6222227-3333335&
ResponseGroup=TransactionDetails&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by TransactionDetails.

```
<Transaction>
  <TransactionId>00269664477138425</TransactionId>
  <SellerId>ATVPDKIKX0DER</SellerId>
  <Condition>Complete</Condition>
  <TransactionDate>20050608T19:19:27</TransactionDate>
  <TransactionDateEpoch>1118258367</TransactionDateEpoch>
  <SellerName>Amazon.com</SellerName>
  <Totals>
    <Total>
      <Amount>1879</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$18.79</FormattedPrice>
    </Total>
    <Subtotal>
      <Amount>1485</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$14.85</FormattedPrice>
    </Subtotal>
    <Tax>
      <Amount>144</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$1.44</FormattedPrice>
    </Tax>
    <ShippingCharge>
      <Amount>399</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$3.99</FormattedPrice>
    </ShippingCharge>
    <Promotion>
      <Amount>149</Amount>
```

```
        <CurrencyCode>USD</CurrencyCode>
        <FormattedPrice>$1.49</FormattedPrice>
      </Promotion>
    </Totals>
    <TransactionItems>
      <TransactionItem>
        <TransactionItemId>jooloslsnpl</TransactionItemId>
        <Quantity>1</Quantity>
        <UnitPrice>
          <Amount>1485</Amount>
          <CurrencyCode>USD</CurrencyCode>
          <FormattedPrice>$14.85</FormattedPrice>
        </UnitPrice>
        <TotalPrice>
          <Amount>1485</Amount>
          <CurrencyCode>USD</CurrencyCode>
          <FormattedPrice>$14.85</FormattedPrice>
        </TotalPrice>
      </TransactionItem>
    </TransactionItems>
    <Shipments>
      <Shipment>
        <Condition>Shipped</Condition>
        <ShipmentItems>
          <TransactionItemId>jooloslsnpl</TransactionItemId>
        </ShipmentItems>
      </Shipment>
    </Shipments>
  </Transaction>
</Transactions>
```

VariationMinimum Response Group

The VariationMinimum response group returns all of the child ASINs of each parent ASIN in the response. For example, if the response contains the parent ASIN, Brand X T-Shirt, this response group will return the child ASINs for Brand X T-Shirt, including:

- Small, Blue, Brand X T-Shirt
- Medium, Blue, Brand X T-Shirt
- Large, Blue, Brand X T-Shirt
- Small, Red, Brand X T-Shirt
- Medium, Red, Brand X T-Shirt
- Large, Red, Brand X T-Shirt

Variation Dimensions

A variation is a child ASIN. The parent ASIN is an abstraction of the children items. For example, Shirt is a parent ASIN. Parent ASINs cannot be sold. A child ASIN of it would be a blue shirt, size 16, sold by MyApparelStore. This child ASIN is one of potentially many variations. The ways in which variations differ are called dimensions. In the preceding example, size and color are the dimensions. Parent ASINs therefore return two related elements:

- VariationDimensions
- VariationDimension

For example,

```
<VariationDimensions>
```

```
  <VariationDimension>ClothingSize</VariationDimension>
  <VariationDimension>Color</VariationDimension>
</VariationDimensions>
```

The values returned by these elements are the dimensions listed in the child ASIN's response, for example,

```
<Ite>
  ...
  <ItemAttributes>
  ...
  <ClothingSize>Large</ClothingSize>
  <Color>Black</Color>
  ...
  </ItemAttributes>
  ...
</Item>
```

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes the elements returned by VariationMinimum.

- ASIN

VariationMinimum also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of VariationMinimum.

- Variations

Child Response Group

The following response groups are child response groups of VariationMinimum.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by VariationMinimum.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
Condition=All&
SearchIndex=Apparel&
Keywords=Shirt&
ResponseGroup=VariationMinimum&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by VariationMinimum.

```
<ASIN>B000EI6M5A</ASIN>
<Item>
  <ASIN>B000EI6MI2</ASIN>
</Item>
<Item>
  <ASIN>B000EIA58U</ASIN>
</Item>
<Item>
  <ASIN>B000F1OAFU</ASIN>
</Item>
<Item>
  <ASIN>B000BNKS80</ASIN>
</Item>
<Item>
  <ASIN>B000EWEI1G</ASIN>
</Item>
```

Variations Response Group

The Variations response group is a parent response group that returns the contents of the
VariationSummary and VariationMinimum response groups plus other variation details, such as item
attributes, offers, and offer listings for each variation in the response.

Variation Dimensions

A variation is a child ASIN. The parent ASIN is an abstraction of the children items. For example, Shirt
is a parent ASIN. Parent ASINs cannot be sold. A child ASIN of it would be a blue shirt, size 16, sold
by MyApparelStore. This child ASIN is one of potentially many variations. The ways in which
variations differ are called dimensions. In the preceding example, size and color are the dimensions.
Parent ASINs therefore return two related elements:

- VariationDimensions
- VariationDimension

For example,

```
<VariationDimensions>
  <VariationDimension>ClothingSize</VariationDimension>
  <VariationDimension>Color</VariationDimension>
</VariationDimensions>
```

The values returned by these elements are the dimensions listed in the child ASIN's response, for
example,

```
<Item>
```

```
   ...
   <ItemAttributes>
   ...
   <ClothingSize>Large</ClothingSize>
   <Color>Black</Color>
    ...
   </ItemAttributes>
   ...
</Item>
```

The following lists some of the Amazon Associates Web Service variation dimensions:

- GemType (string)
- HandOrietation (string)
- HardwarePlatform (string)
- PackageQuantity (nonNegativeInteger)
- ItemDimensions/Length (DecimalWithUnits)
- ItemDimensions/Width (DecimalWithUnits)
- MetalType (string)
- Model (string)
- OperatingSystem (string)
- ProductTypeSubcategory (string)
- ScentName (string) StyleName (string)
- TotalDiamondWeight (DecimalWithUnits)
- TotalGemWeight (DecimalWithUnits)

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Response Elements

The following table describes the elements returned by Variations.

- Amount
- ASIN
- CurrencyCode
- FlavorName
- FormattedPrice
- GolfClubFlex
- GolfClubLoft
- SingleMerchantId

Variations also returns the elements that all response groups return, which is described in Elements

Parent Response Group

The following response groups are parent response groups of Variations.

• None

Child Response Group

The following response groups are child response groups of Variations.

• VariationMinimum
• VariationSummary

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by Variations.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
SearchIndex=Apparel&
Keywords=Hooded%20Short%20Down%20Jacket&
ResponseGroup=Variations&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by Variations.

```
<ItemSearchRequest>
  <Keywords>Hooded Short Down Jacket</Keywords>
  <ResponseGroup>Variations</ResponseGroup>
  <SearchIndex>Apparel</SearchIndex>
</ItemSearchRequest>
</Request>
<Item>
  <ASIN>B000CCIIT6</ASIN>
</Item>
<Item>
  <ASIN>B000CCIITQ</ASIN>
</Item>
<Item>
  <ASIN>B000CCONPO</ASIN>
</Item>
<Item>
  <ASIN>B000CCMQ1W</ASIN>
</Item>
<Item>
  <ASIN>B000CDDRJ6</ASIN>
</Item>
<Item>
  <ASIN>B000CCIISC</ASIN>
</Item>
<Item>
  <ASIN>B000CCIIRI</ASIN>
</Item>
<Item>
  <ASIN>B000BVA9AE</ASIN>
</Item>
```

```
<Item>
  <ASIN>B000CCMQFS</ASIN>
</Item>
<Item>
  <ASIN>B000CDDRJG</ASIN>
</Item>
</Items>
```

This response shows that the ASIN in the response has ten variations.

VariationImages Response Group

The VariationImages response group displays different image variations of the same item in four sizes: swatch, small, medium, and large, where the swatch image is smaller than the small image. `VariationImages` is used when there are variations of an item for sale. For example, a shirt for sale might come in four colors. If VariationImages is used as the response group, the shirt will be displayed in sixteen images: four image sizes of each of the four colors.

The images returned are associated with the merchant selling the item. For that reason, you must specify the merchant ID in the request when you use the VariationImages response group. MerchantId, however, defaults to "Amazon." So, if the item is being sold by Amazon, specifying a MerchantId is not required. If you do not specify a MerchantId and a merchant other than Amazon is selling the item, Amazon Associates Web Service will not return images.

Parent ASINs do not always have images associated with them; their children, however, should.

Relevant Operations

Operations that can use this response group include:

- ItemLookup

Response Elements

The following table describes the elements returned by VariationImages. The elements on the left side of a slash mark are the parents of the elements on the right side of the slash mark.

- Height
- LargeImage
- MediumImage
- SmallImage
- SwatchImage
- ThumbnailImage
- TinyImage
- URL
- Width

VariationImages also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of VariationImages.

• None

Child Response Group

The following response groups are child response groups of VariationImages.

• None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by VariationImages.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=
        [AWS Access Key ID]
      &
Operation=ItemLookup&
ItemId=0239409223&
ResponseGroup=VariationImages
```

Sample Response Snippet

The following response snippet shows the elements returned by VariationImages.

```
<ImageSets>
  <ImageSet Category="primary">

  <SmallImage>
    <URL>
    http://images.amazon.com/images/P/B99999999A.01._SCTHUMBZZZ_.jpg
    </URL>
    <Height Units="pixels">60</Height>
    <Width Units="pixels">60</Width>
  </SmallImage>

  <MediumImage>
    <URL>
    http://images.amazon.com/images/P/B99999999A.01._SCMZZZZZZZ_.jpg
    </URL>
    <Height Units="pixels">140</Height>
    <Width Units="pixels">140</Width>
  </MediumImage>

  <LargeImage>
    <URL>
    http://images.amazon.com/images/P/B99999999A.01._SCLZZZZZZZ_.jpg
    </URL>
    <Height Units="pixels">500</Height>
    <Width Units="pixels">500</Width>
    </LargeImage>
    </ImageSet>
  <ImageSet Category="variant">

  <SmallImage>
    <URL>
    http://images.amazon.com/images/P/B99999999A.01.PT01._SCTHUMBZZZ_.jpg
    </URL>
    <Height Units="pixels">48</Height>
    <Width Units="pixels">60</Width>
  </SmallImage>
```

```
<MediumImage>
  <URL>
  http://images.amazon.com/images/P/B99999999A.01.PT01._SCMZZZZZZ_.jpg
  </URL>
  <Height Units="pixels">120</Height>
  <Width Units="pixels">150</Width>
</MediumImage>

<LargeImage>
  <URL>
  http://images.amazon.com/images/P/B99999999A.01.PT01._SCLZZZZZZ_.jpg
  </URL>
  <Height Units="pixels">400</Height>
  <Width Units="pixels">500</Width>
</LargeImage>

</ImageSet>
```

VariationMatrix Response Group

The VariationMatrix response group returns, for a given parent ASIN, the variation dimension name and value of each child ASIN. If a returned item does not have variations, the VariationMatrix response group will not return any data. For example, rings vary by ring size. RingSize, therefore, is the dimension related to this item. The VariationMatrix response group would only return, in this example, <RingSize> elements. The VariationMatrix response group returns nothing if the returned items do not have variations. For more information, see, Returning Variation Dimension Information Only.

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch

Response Elements

The following table describes the elements returned by VariationMatrix.

- ClothingSize
- Color
- FlavorName
- GemType
- GolfClubFlex
- GolfClubLoft
- HandOrientation
- HardwarePlatform
- ItemDimensions/Length
- ItemDimensions/Width
- MaterialType
- MaximumWeightRecommendation
- MetalType
- Model

- OperatingSystem
- PackageQuantity
- ProductTypeSubcategory
- RingSize
- ScentName
- ShaftMaterialType
- Size
- Style
- TotalDiamondWeight
- TotalGemWeight
- VariationDimension

VariationMatrix also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of VariationMatrix.

- None

Child Response Group

The following response groups are child response groups of VariationMatrix.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by VariationMatrix.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemLookup&
ItemId=B0008G23PQ&
MerchantId=All&
Condition=All&
ResponseGroup=VariationMatrix&
Version=2008-01-01
```

Sample Response Snippet

The following response snippet shows the elements returned by VariationMatrix.

```
<Item>
  <ASIN>B0008G23PQ</ASIN>
  <Variations>
  <VariationDimensions>
    <VariationDimension>ClothingSize</VariationDimension>
    <VariationDimension>Color</VariationDimension>
  </VariationDimensions>
<Item>
  <ASIN>B0008EOA9U</ASIN>
  <ItemAttributes>
```

```
      <ClothingSize>29W x 30L</ClothingSize>
      <Color>Grey</Color>
    </ItemAttributes>
</Item>
<Item>
    <ASIN>B0008EO9J6</ASIN>
    <ItemAttributes>
      <ClothingSize>29W x 30L</ClothingSize>
      <Color>Navy</Color>
    </ItemAttributes>
</Item>
```

VariationOffers Response Group

The VariationOffers response group enables you to retrieve the offers for the children of a parent ASIN. VariationOffers is similar to the Variations response group, however, item attributes are not returned for the individual variations.Variations is the parent response group of VariationOffers.

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch

Response Elements

The following table describes the elements returned by VariationOffers. In the Ancestry column, In the Ancestry column, the elements on the left side of a slash mark are the parents of the elements on the right side of the slash mark.

- Amount
- ASIN
- Availability
- AvailabilityAttributes
- AverageFeedbackRating
- Condition
- ConditionNote
- CurrencyCode
- ExchangeId
- FormattedPrice
- GlancePage
- IsEligibleForSuperSaverShipping
- LoyaltyPoints
- MaximumHours
- MerchantId
- MinimumHours
- Name
- OfferListingId
- Quantity
- PostalCode

- SellerId
- State
- SubCondition
- TotalCollectible
- TotalFeedback
- TotalNew
- TotalOfferPages
- TotalOffers

VariationOffers also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of VariationOffers.

- Variations

Child Response Group

The following response groups are child response groups of VariationOffers.

- None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by VariationOffers.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=[AWS Access Key ID]&
Operation=ItemSearch&
ItemId=B000P4VW1M&
MerchantId=All&
Condition=All&
ResponseGroup=VariationOffers&
Version=2008-01-01
```

Sample Response Snippet

The following response snippet shows the elements returned by VariationOffers.

```
<Item>
  <ASIN>B000P4VW1M</ASIN>
  <VariationSummary>
    <LowestPrice>
      <Amount>12900</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$129.00</FormattedPrice>
    </LowestPrice>
    <HighestPrice>
      <Amount>12900</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$129.00</FormattedPrice>
    </HighestPrice>
    <SingleMerchantId>ATVPDKIKX0DER</SingleMerchantId>
```

```
    </VariationSummary>
    <Variations>
      <TotalVariations>5</TotalVariations>
      <TotalVariationPages>1</TotalVariationPages>
      <Item>
        <ASIN>B000N637Y2</ASIN>
        <Offers>
          <Offer>
            <Merchant>
              <MerchantId>ATVPDKIKX0DER</MerchantId>
              <Name>Amazon.com</Name>
              <AverageFeedbackRating>0.0</AverageFeedbackRating>
              <TotalFeedback>0</TotalFeedback>
            </Merchant>
            <OfferAttributes>
              <Condition>New</Condition>
              <SubCondition>new</SubCondition>
            </OfferAttributes>
            <OfferListing>
<OfferListingId>ct%2FbvUK%2F9aRAxMyfX4EnsglyWuwchEGTLsR7xZwnrRt9AwU%2Fe4yKOeV
DEIdVSBUhrBFoR4VZWR1aUBZX%2FhzSDQ%3D%3D</OfferListingId>
              <Price>
                <Amount>12900</Amount>
                <CurrencyCode>USD</CurrencyCode>
                <FormattedPrice>$129.00</FormattedPrice>
              </Price>
              <AmountSaved>
                <Amount>28428</Amount>
                <CurrencyCode>USD</CurrencyCode>
                <FormattedPrice>$284.28</FormattedPrice>
              </AmountSaved>
              <PercentageSaved>69</PercentageSaved>
              <Availability>In stock soon. Order now to get in line. First
come, first served.</Availability>
              <AvailabilityAttributes>
                <AvailabilityType>unknown</AvailabilityType>
                <MinimumHours>672</MinimumHours>
                <MaximumHours>1008</MaximumHours>
              </AvailabilityAttributes>
<IsEligibleForSuperSaverShipping>1</IsEligibleForSuperSaverShipping>
            </OfferListing>
          </Offer>
        </Offers>
</Item>
</Item>
```

VariationSummary Response Group

The VariationSummary response group provides the lowest price, highest price, lowest sale price, and highest sale price for all child ASINs in a response.

Parent ASINs do not have offers; their children do. For example, you cannot buy a shirt (the parent ASIN). You can, however, buy a shirt that is a certain color and size (the child ASIN).

Relevant Operations

Operations that can use this response group include:

- ItemLookup
- ItemSearch
- ListLookup
- SimilarityLookup

Variation Dimensions

A variation is a child ASIN. The parent ASIN is an abstraction of the children items. For example, Shirt is a parent ASIN. Parent ASINs cannot be sold. A child ASIN of it would be a blue shirt, size 16, sold by MyApparelStore. This child ASIN is one of potentially many variations. The ways in which variations differ are called dimensions. In the preceding example, size and color are the dimensions. Parent ASINs therefore return two related elements:

- VariationDimensions
- VariationDimension

For example,

```
<VariationDimensions>
  <VariationDimension>ClothingSize</VariationDimension>
  <VariationDimension>Color</VariationDimension>
</VariationDimensions>
```

The values returned by these elements are the dimensions listed in the child ASIN's response, for example,

```
<Item>
  ...
  <ItemAttributes>
  ...
  <ClothingSize>Large</ClothingSize>
  <Color>Black</Color>
   ...
  </ItemAttributes>
  ...
</Item>
```

Response Elements

The following table describes the elements returned by VariationSummary.

- Amount
- CurrencyCode
- FormattedPrice
- SingleMerchantId

VariationSummary also returns the elements that all response groups return, which is described in Elements Common to All Response Groups.

Parent Response Group

The following response groups are parent response groups of VariationSummary.

- None

Child Response Group

The following response groups are child response groups of VariationSummary.

• None

Sample REST Use Case

The following request was used to illustrate the XML response elements returned by VariationSummary.

```
http://ecs.amazonaws.com/onca/xml?
Service=AWSECommerceService&
AWSAccessKeyId=
        [AWS Access Key ID]
        &
Operation=ItemLookup&
ItemId=B00006XYAA&
MerchantId=All&
ResponseGroup=VariationSummary&
Version=2008-06-26
```

Sample Response Snippet

The following response snippet shows the elements returned by VariationSummary.

```
<Item>
  <ASIN>B00006XYAA</ASIN>
  <VariationSummary>
    <LowestPrice>
      <Amount>1450</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$14.50</FormattedPrice>
    </LowestPrice>
    <HighestPrice>
      <Amount>1750</Amount>
      <CurrencyCode>USD</CurrencyCode>
      <FormattedPrice>$17.50</FormattedPrice>
    </HighestPrice>
    <SingleMerchantId>A3BHV8OQ3W90PJ</SingleMerchantId>
  </VariationSummary>
</Item>
```

Response Elements Common to All Response Groups

The following table describes and shows the parentage of the elements returned by all response groups.

Response Element	Ancestry	Definition
ASIN	Item/ASIN	A number distributed by Amazon that uniquely identifies an item.
Code	Errors/Error/Code	Error code if there is an error
IsValid	Request/IsValid	Is True if the request is valid
Message	Errors/Error/Message	Error message that corresponds with error code
Name	Arguments/Argument/Name	Name of a parameter in the request
RequestId	OperationRequest/RequestId	Unique number that identifies the request

Response Element	Ancestry	Definition
TotalPages	List/TotalPages	Number of pages found. There are up to ten items per page.
TotalResults	List/TotalResults	The total number of items found. Up to ten are returned per request. . By default, the first ten items are returned.
UserAgent	OperationRequest/UserAgent	The name and version of the Web browser
Value	Arguments/Argument/Value	A value of a parameter in the request

Response Elements

This chapter provides a description of all ECS response elements. In the Ancestry paragraphs, the elements on the left side of a slash mark are the parents of the elements on the right side of the slash mark.

Response Element	Definition
About	Describes the seller. Ancestry: Seller/About
AboutMe	Information a customer supplies about themselves Ancestry: Seller/About
Actor	Actor associated with the item. Ancestry: ItemAttributes
AdditionalName	For baby registries, this field is used for the name of the other parent. Ancestry: List/AdditionalName
Address1	Street address Ancestry: ItemAttributes/Address Offers/Offer/OfferListing/Address1
Address2	Street address Ancestry: ItemAttributes/Address Offers/Offer/OfferListing/Address2
Address3	Street address Ancestry: ItemAttributes/Address Offers/Offer/OfferListing/Address3
AlternateVersion	Container for AlternateVersion information, including ASIN, Title, and Binding. Ancestry: None
AmazonMaximumAge	Maximum age in months of the person who will enjoy the item.

Response Element	Definition
	For example, a book might be targeted at kids up to three years old. Three would be the value for the MaximumAge. Ancestry: ItemAttributes
AmazonMinimumAge	Youngest age in months that a person should be to use the item. Ancestry: ItemAttributes
Amount	Price in terms of the lowest currency denomination, for example, pennies. The price, in terms of the lowest currency denomination, for example, pennies, of an item in the cart. The total price, in terms of the lowest currency denomination, of one or more of the same item in the Saved For Later area. If, for example, Saved For Later contains two orders of the same book, this amount would be the sum total of those two books. Ancestry: ItemAttributes/ListPrice OfferSummary/LowestUsedPrice OfferSummary/LowestCollectiblePrice OfferSummary/LowestNewPrice OfferSummary/LowestRefurbishedPrice/Amount Offers/Offer/OfferListing/Price/Amount Offers/Offer/OfferListing/SalePrice/Amount Transaction/TransactionItems/TransactionItem/UnitPrice VariationSummary/LowestPrice VariationSummary/HighestSalePrice
ApertureModes	Aperture modes associated with items that have lenses. Ancestry: ItemAttributes
Artist	Artist associated with the item. Ancestry: ItemAttributes
ASIN	A positive integer distributed by Amazon that uniquely identifies an item. ASIN of the new release, item, or similar item Ancestry: Item/ASIN CartItem SavedForLaterItem Cart/NewReleases/NewRelease NewReleases/NewRelease/ASIN OtherCategoriesSimilarProduct/ASIN SimilarProduct SimilarViewedProduct, CustomerReviews/Review
AspectRatio	The ratio of an item's length to its width. Ancestry: ItemAttributes
AudienceRating	Audience rating for a movie. The rating suggests the age for which the movie is appropriate. The rating format varies by locale. Ancestry: ItemAttributes
AudioFormat	Format, such as MP3, of the audio media. Ancestry: ItemAttributes/Languages/Language
Author	Author associated with the item. Ancestry: ItemAttributes

Response Element	Definition
Availability	How soon the item can be shipped. Ancestry: Offers/Offer/OfferListing/Availability
AvailabilityAttributes	Container for availability information, including AvailabilityType, MaximumHours and MinimumHours. Ancestry: Offers/Offer/OfferListing
AverageFeedbackRating	Customer review of an item represented by a number of stars where 5 stars is the highest rating, 0 the lowest. This element contains the average of all customer ratings of the item. Ancestry: Offers/Offer/Seller/AverageFeedbackRating
AverageRating	An average of all of the ratings entered by customers where 5 is the best. Ancestry: CustomerReviews, List
BackFinding	The metal in jewelry, for example, 14 K gold. Ancestry: ItemAttributes
BandMaterialType	Type of material used to make the band in a piece of jewelry. Ancestry: ItemAttributes
Batteries	Batteries required or not Ancestry: ItemAttributes
BatteriesIncluded	Whether batteries are included Ancestry: ItemAttributes
BatteryDescription	A description of the batteries that are required for the item to work. Ancestry: ItemAttributes
BatteryType	Required battery type Ancestry: ItemAttributes
Benefit	Container for information relating to a promotional benefit. Ancestry: Benefits
Benefits	Continter for one or more Benefit elements. Ancestry: None
BenefitType	Specifies the type of promotion, for example, Free, FixedAmountOff, PercentOff, and TieredFixedAmountOff. Ancestry: Benefits/Benefit/BenefitType
BenefitDescription	Text that describes the promotion. Ancestry: Offers/Offer/Promotions/Promotion/Summary
BezelMaterialType	Material that makes up the bezel of jewelry, for example, a ring. Ancestry: ItemAttributes

Response Element	Definition
BinItemCount	Number of items in a bin. Ancestry: SearchBinSets/SearchBinSet/Bin/BinItemCount
BinName	Name of the bin. Ancestry: SearchBinSets/SearchBinSet/Bin/BinName
Binding	Typically but not always similar to the product category. Ancestry: ItemAttributes
Birthday	A customer's birth date. Ancestry: CustomerFull
Brand	An item's brand. Ancestry: ItemAttributes, Large, Medium
BrowseNodeId	A positive integer that uniquely identifies a parent product category. Ancestry: BrowseNode/Ancestors/BrowseNode BrowseNode/Children/BrowseNode
CalendarType	Type of calendar Ancestry: ItemAttributes
CameraManualFeatures	Manual features of a camera Ancestry: ItemAttributes
CartId	A positive integer that uniquely identifies a cart. All operations on a cart must include this value, which is generated by CartCreate. Ancestry: Cart
CartItem	A parent element for many child elements, including CartItemId, MerchantId, SellerId, Quantity, Title, ProductGroup, Price, and ItemTotal. Ancestry: Cart/CartItems
CartItemId	A positive integer that uniquely identifies an item in a cart or in the Saved For Later area. You must use this value to modify cart items or Saved For Later items. Other identifiers, such as ASINs, do not work. Ancestry: CartItem SavedForLaterItem
CartItems	A parent element for many child elements, including SubTotal, and CartItem. Ancestry: Cart
CaseDiameter	Distance from corner to corner of a case Ancestry: ItemAttributes
CaseMaterialType	The material of which a case is made.

Response Element	Definition
	Ancestry: ItemAttributes
CaseThickness	Thickness of a case Ancestry: ItemAttributes
CaseType	Type of case Ancestry: ItemAttributes
Category	Specifies the kind of promotion. Valid values include FreeShipping, BuyAmountXGetAmountOffX, and ForEachAmountXGetAmountOffX. For more information, see Promotion Types. Ancestry: Offers/Offer/Promotions/Promotion/Summary
CDRWDescription	Description of CD read-write peripheral device. Ancestry: ItemAttributes
ChainType	Type of chain, typically, in jewelry. Ancestry: ItemAttributes
City	City Ancestry: ItemAttributes/Address
ClaspType	Type of clasp on a piece of jewelry Ancestry: ItemAttributes
ClothingSize	Size of clothes Ancestry: ItemAttributes
Code	Number that uniquely identifies an error. Ancestry: Errors/Error
Collection	Container for items that are part of a collection. For more information, see Collections Ancestry: None
CollectionItem	An item that is part of a collection of items. For more information, see Collections Ancestry: None
CollectionParent	The parent item has an ASIN but it cannot be purchase. It names the collection. CollectionItems are children of the Collection Parent and can be purchased. For more information, see Collections Ancestry: None
Collections	Container for one or more collection objects. For more information, see Collections Ancestry: None
Color	Color

Response Element	Definition
	Ancestry: ItemAttributes
Comment	Comment typically about the purpose of the list. Ancestry: List, ListItems
Compatibility	Compatibility Ancestry: ItemAttributes
ComponentType	Specifies what the promotion applies to, for example, Shipping, ItemPrice, Subtotal. Ancestry: Benefits/Benefit
Condition	Specifies the condition of the item, such as new, used, collectible, or refurbished. Ancestry: SellerListing/Condition Offers/Offer/OfferAttributes/Condition
ConditionNote	A note that describes the Condition. Ancestry:
Content	The content of the review. Ancestry: Offers/Offer/OfferAttributes/ConditionNote
CorrectedQuery	A parent element that contains the elements related to a corrected keyword. See Keywords. Ancestry: Items
Country	A customer's country. Ancestry: CustomerFull, CustomerInfo, OfferFull, OfferListings
CouponCombinationType	Specifies the kinds of promotional coupons that can be combined, for example, Unrestricted, Preferential, and Exclusive. Ancestry: None
CPUManufacturer	Manufacturer of the CPU Ancestry: ItemAttributes
CPUSpeed	CPU speed Ancestry: ItemAttributes
CPUType	CPU type, such as P4. Ancestry: ItemAttributes
Creator	Creator associated with the item. Ancestry: ItemAttributes
CreationDate	The date an API element was created. Ancestry: Help
CurrencyAmount	Price in terms of the lowest currency denomination, for example, pennies.

Response Element	Definition
	Ancestry: EligibilityRequirements/EligibilityRequirement/
CurrencyCode	An abbreviation that specifies the format of the price for the associated locale. Ancestry: ItemAttributes/ListPrice CartItem/ItemTotal Cart/SavedForLaterItems/SubTotal Cart/CartItems/SubTotal SavedForLaterItem/ItemTotal SavedForLaterItem/Price CartItem/Price Cart/SubTotal EligibilityRequirements/EligibilityRequirement/CurrencyAmount Benefits/Benefit/FixedAmount OfferSummary/LowestCollectiblePrice/CurrencyCode OfferSummary/LowestNewPrice/CurrencyCode OfferSummary/LowestRefurbishedPrice/CurrencyCode OfferSummary/LowestUsedPrice/CurrencyCode Offers/Offer/OfferListing/Price/CurrencyCode Offers/Offer/OfferListing/SalePrice/CurrencyCode Transaction/Totals/Total VariationSummary/HighestPrice VariationSummary/LowestSalePrice VariationSummary/HighestSalePrice VariationSummary/LowestPrice
CustomerId	A positive number distributed by Amazon that unqiely identifies a customer who entered a review. Ancestry: CustomerReviews/Review/CustomerId
CustomerName	Name of the list owner. Ancestry: List/CustomerName
CustomerNickname	Nickname of list owner Ancestry: List
CustomerReview	A review of a seller submitted by a customer. Ancestry: CustomerFull, CustomerReviews
CustomerReviews	A containter for one or more CustomerReview objects. Ancestry: CustomerFull, CustomerReviews
Date	The date the review was created. Ancestry: CustomerReviews/Review
DateAdded	Date the item was added to the list. Ancestry: ListItem/DateAdded
DateCreated	Date the list was created, in the form yyyy-mm-dd.

Response Element	Definition
	Ancestry: List/DateCreated
Day	Day Ancestry: ItemAttributes/HoursOfOperation/Hours
DelayBetweenShots	The necessary delay between shots. Ancestry: ItemAttributes
Department	Department Ancestry: ItemAttributes
Details	Container for all of the elements that describe a promotion. Ancestry:
DetailPageURL	URL of the detail page, which describes an item and enables the customer to add it to their cart, for example, http://www.amazon.com/gp/redirect.html%3FASIN=B00005R 09P%26tag=ws%26lcode=xm2%26cID=2025%26ccmID=16 5953%26location=/Programming-Perl-2nd-Larry-Wall/dp/ B00005R09PSubscriptionId=1VQXXXXNR2. Ancestry: ItemAttributes
DeweyDecimalNumber	Dewey decimal number Ancestry: ItemAttributes
DialColor	Color of the dial, typically, of a watch face Ancestry: ItemAttributes
DialWindowMaterialType	Material that makes up the transparent face of a watch. Ancestry: ItemAttributes
DigitalZoom	Specifies the zoom ratio. Ancestry: ItemAttributes
Director	Director Ancestry: ItemAttributes
DisplaySize	Size of the display, typically the length of the diagonal across the display surface. Ancestry: ItemAttributes
DistinctUsers	Number of different users that created tags for an entity. Ancestry: Tagged Items, TaggedListmaniaLists, Tag
DVDLayers	Specifies whether the DVD is a dual-layer DVD-9 movie or a single-layer DVD-5 movie. Ancestry: ItemAttributes
DVDRWDescription	Description of the DVD player's read and write functionality. Ancestry: ItemAttributes

Response Element	Definition
DVDSides	Specifies whether one or two sides of the DVD has recorded information. Ancestry: ItemAttributes
EAN	European Article Number, which is a number that uniquely identifies an item. Ancestry: ItemAttributes
Edition	Edition Ancestry: ItemAttributes
EditorialReviewIsLinkSuppressed	Boolean value that specifies whether or not the link to the editorial review is displayed. Ancestry: EditorialReview
Element	An xml tag returned. Ancestry: Help
EligibilityRequirement	Container for one or more EligibilityRequirementType elements. Ancestry: EligibilityRequirements
EligibilityRequirementDescription	Specifies the conditions necessary to qualify for the promotion. Ancestry: Offers/Offer/Promotions/Promotion/Summary
EligibilityRequirements	Container for one or more EligibilityRequirement elements. Ancestry: None
EligibilityRequirementType	Specifies the eligibility requirements to qualify for the promotion, for example, MinPurchase, MinQuantity, or, ForEachQuantity. Ancestry: EligibilityRequirements/EligibilityRequirement
EndDate	Specifies a date when the item will stop being sold. Or, specifies the last day and ending time (GMT) of the promotion. Ancestry: SellerListing/EndDate, Offers/Offer/Promotions/Promotion/Summary
EpisodeSequence	Television shows are broadcast in sequence. Each show is called an episode. EpisodeSequence specifies the number of the show in the series of episodes.
ExchangeId	Token that uniquely identifies an SDP-Marketplace, auction, Merchant@, Merchant.Com listings, or an offer in the Marketplace. Exchange IDs are available for every item offered by a third-party seller. When using ExchangeId, you must also specify a matching SellerID and ASIN. Ancestry: SellerListing SavedForLaterItem OfferSummary/LowestNewPrice/FormattedPrice OfferSummary/LowestRefurbishedPrice/FormattedPrice

Response Element	Definition
	OfferSummary/LowestUsedPrice/FormattedPrice Offers/Offer/OfferListing/Price/FormattedPrice Offers/Offer/OfferListing/SalePrice/FormattedPrice CartItem
ESRBAgeRating	The Entertainment Software Rating Board (ESRB) sets ratings, advertising guidelines, and online privacy principles for video and computer games in the United States and Canada. The value, CEROAgeRating specifies that a video or software game (search indices Software and VideoGames) is suitable for everyone to play. Ancestry: ItemAttributes
ExternalDisplaySupportDescription	Specifies whether the items supports an external display. Ancestry: ItemAttributes
FabricType	The type of fabric used in the item. Ancestry: ItemAttributes
FaxNumber	Fax number Ancestry: ItemAttributes
Feature	An item's feature Ancestry: ItemAttributes
Feedback	Provides customer feedback about the seller. Ancestry:
FeedbackRating	Provides an average customer rating of the merchant where 5 is the best and 0 is the worst. Ancestry: Seller/FeedbackRating
FirstIssueLeadTime	The wait time to expect before receiving the first issue in a newspaper or magazine subscription. Ancestry: ItemAttributes
FirstTagging	Container for information relating to the first time the entity was tagged. Ancestry: TaggedItems, TaggedListmaniaLists, Tag
FixedAmount	Specifies the price in terms of the lowest currency denomination. Ancestry: Benefits/Benefit
FlavorName	The flavor of an item. Typically used as a variation dimension. Ancestry: ItemAttributes
FloppyDiskDriveDescription	Description of a computer's floopy drive. Ancestry: ItemAttributes
Format	An item's format Ancestry: ItemAttributes

Response Element	Definition
FormattedPrice	The price formatted as it should be displayed to the user. The formatting is specified by CurrencyCode and varies by country. Or, the discounted price formatted for display.
	Ancestry: ItemAttributes/ListPrice
	SavedForLaterItem/ExchangeId
	CartItem/ExchangeId,
	EligibilityRequirements/EligibilityRequirement/CurrencyAmount
	Benefits/Benefit/FixedAmount
	OfferSummary/LowestUsedPrice/FormattedPrice
	OfferSummary/LowestCollectiblePrice/FormattedPrice
	OfferSummary/LowestNewPrice/FormattedPrice
	Transaction/TransactionItems/TransactionItem/TotalPrice
Genre	Specifies the genre, such as romance, of a digital item.
GemType	The type of gem.
	Ancestry: ItemAttributes/GemType
GemTypeSetElement	Returns multiple values for the gem types.
	Ancestry: Variations/Item/ItemAttributes
GlancePage	URL of a seller's web page. A GlancePage is not returned when the merchant is Amazon.
	Ancestry:
	Offers/Offer/Seller/Glancepage
	Offers/Offer/Merchant/GlancePage
GolfClubFlex	The flex (regular or stiff) of a golf club.
	Ancestry: ItemAttributes
GolfClubLoft	The loft (number of degrees) of a golf club.
	Ancestry: ItemAttributes
GraphicsCardInterface	The type of computer graphic card interface.
	Ancestry: ItemAttributes
GraphicsDescription	Description of the computer graphics card.
	Ancestry: ItemAttributes
GraphicsMemorySize	The amount of memory resident on in a computer graphics card.
	Ancestry: ItemAttributes
GroupClaimCode	An alphanumeric token to use to claim the promotional benefit.
	Ancestry: None
HandOrientation	Left or right handedness
	Ancestry: Variations/Item/ItemAttributes
HardDiskCount	Number of hard drives in a computer.

Response Element	Definition
	Ancestry: ItemAttributes
HardDiskSize	The amount of memory contained in a hard drive. Ancestry: ItemAttributes
HardwarePlatform	Hardware Ancestry: Variations/Item/ItemAttributes
HasAutoFocus	Specifies whether the item has auto focus. Ancestry: ItemAttributes
HasBurstMode	Specifies whether or not the item has burst mode. Ancestry: ItemAttributes
HasInCameraEditing	Specifies whether a camera has editing functionality. Ancestry: ItemAttributes
HasRedEyeReduction	Specifies whether or not the camera has a mechanism for preventing red eyes in pictures. Ancestry: ItemAttributes
HasSelfTimer	Specifies whether or not the item has a timer. Ancestry: ItemAttributes
HasTripodMount	Specifies whether or not the item has a mount to connect to a tripod. Ancestry: ItemAttributes
HasVideoOut	Specifies whether or not the item has an output for video. Ancestry: ItemAttributes
HasViewfinder	Specifies whether or not the item has a view finder. Ancestry: ItemAttributes
Height	Height of an item, package, or image. Ancestry: ItemAttributes/ItemDimensions ItemAttributes/PackageDimensions ImageSets/ImageSet/LargeImage ImageSets/ImageSet/MediumImage ImageSets/ImageSet/SmallImage ImageSets/ImageSet/TinyImaget ImageSets/ImageSet/SwatchImage/Height ItemAttributes
HelpfulVotes	The number of customers who felt that the review was helpful. Ancestry: CustomerReviews/Review/HelpfulVotes
HMAC	Hashing for Message Authentication (HMAC) is a keyed hash function that is used with a CryptographicHashFunction such as SHA-1 or MD5 that cannot be computed with out the key. This is used to identify and secure a cart. Each cart operation must include this value. Ancestry: Cart

Response Element	Definition
Hours	Hours Ancestry: ItemAttributes/HoursOfOperation
HoursOfOperation	Defines the hours of a store's operations. Ancestry: ItemAttributes
Image	An image associated with a seller's item. Ancestry: SellerListing/Image
IncludedSoftware	Specifies the software included in the purchase. Ancestry: ItemAttributes
IncludesMp3Player	Specifies whether or not the item contains an MP3 player. Ancestry: ItemAttributes
Ingredients	Ingredient Ancestry: ItemAttributes
IngredientsSetElement	Multiple ingredients. Used instead of Ingredients when the item is made of more than one ingredient. Ancestry: Variations/Item/ItemAttributes
IsAutographed	Specifies whether or not the item is autographed. Ancestry: ItemAttributes
ISBN	ISBN number Ancestry: ItemAttributes
IsCategoryRoot	Boolean value that specifies if the browse node is at the top of the browse node tree. Ancestry: BrowseNodes
IsEligibleForPrime	Specifies whether the item is eligible for prime shipping. Ancestry: Offers/Offer/OfferListing/IsEligibleForPrime
IsEligibleForSuperSaverShipping	Specifies whether the item is eligible for super saving shipping. Ancestry: Offers/Offer/OfferListing/IsEligibleForSuperSaverShipping
IsEmailNotifyAvailable	The value of IsEmailNotifyAvailable is a boolean where 1 means that an Email can be sent when the item is in stock, 0 when an Email cannot be sent. This functionality is not available for all offers.
IsFragile	Species whether or not the item is fragile. Ancestry: ItemAttributes
IsInBenefitSet	A boolean value. When True, the associated ASIN is what the customer receives as part of the promotion. Ancestry: ItemApplicability

Response Element	Definition
IsInEligibilityRequirementSet	A boolean value. When True, the associated ASIN is what the customer must purchase to qualify for the promotion. Ancestry: ItemApplicability
IsLabCreated	Specifies whether or not the item was created in a lab. Ancestry: ItemAttributes
IsLinkSuppressed	"1" (true) if there were any HTML links in editorial reviews that have been suppressed. Ancestry: EditorialReview
IsMemorabilia	Specifies whether the item is considered memorabilia. Ancestry: ItemAttributes
ISOEquivalent	The ISO equivalent of a digital camera is what the film sensitivity would be if the camera used film. The higher the number, the more sensitive the camera, the less light required to take the photograph. Ancestry: ItemAttributes
Item	Container for information about an item. Ancestry: ItemAttributes
ItemApplicability	Container for ASIN, IsInBenefitSet, and IsInEligibilityRequirementSet. This group of values specifies whether the ASIN is what the customer receives as part of the promotion, whether the ASIN is what the customer needs to purchase to qualify for the promotion, or both. Ancestry: ItemApplicability/ItemApplicability
IssuesPerYear	Number of issues per year, usually, in a subscription. Ancestry: ItemAttributes
IsValid	Boolean value that specifies whether the request syntax was correct. Ancestry: Request
ItemAttributes	Container for many attributes that describe an item. Children: Over 200 elements.
KeyboardDescription	Description of the keyboard Ancestry: ItemAttributes
Keywords	The (corrected) words used in a search. Ancestry: Items/CorrectedQuery
Label	Label Ancestry: ItemAttributes
LargeImage	Container for a large image Ancestry: ImageSets/ImageSet

Response Element	Definition
LastModified	Date when the list was last modified Ancestry: List/LastModified
LastTagging	Container for information relating to the last time the entity was tagged. Ancestry: TaggedItems, TaggedListmaniaLists, Tag
LegalDisclaimer	Legal disclaimer Ancestry: ItemAttributes
Length	Length Ancestry: ItemAttributes/ItemDimensions ItemAttributes/PackageDimensions/Length ItemAttributes
LineVoltage	The voltage used. Ancestry: ItemAttributes
ListId	A positive integer distributed by Amazon that uniquely identifies a list. Ancestry: ListmaniaLists/ListmaniaList
ListingId	A number that uniquely identifies a seller's item within a given year. This values, also known as the Exchange Code, is a shortened form of the ExchangeId, whose uniqueness is not limited to a single year. Ancestry: SellerListing/ListingId
ListItemId	A number that uniquely identifies an item on a list. Ancestry: ListItem/ListItemId
ListName	Name of a Listmania list. Ancestry: ListmaniaLists/ListmaniaList List
ListOwner	Name of the list owner. Ancestry: CartItem SavedForLaterItem
ListType	The type of list an item in the cart is on. The item might be in the Saved For Later area. Ancestry: CartItem SavedForLaterItem
ListURL	URL where you can find the list. The URL is the same for all lists except for the final filename, which is the ListId. In this way you can display the list by just knowing the ListId. Ancestry: List
Location	Location of the seller. Ancestry: Seller/Location

Response Element	Definition
LongSynopsis	A long summary of a digital item. See ShortSynopsis. Ancestry: ItemAttributes
LoyaltyPoints	In the JP locale only, loyalty points are returned. Loyalty points are used to generate sales. Ancestry: Offers/Offer
LoyaltyPoints	The number of points awarded as part of a purchase. Points translate into rewards. Ancestry: Offers, VariationOffers
MacroFocusRange	Describes the macro focus feature. Ancestry: ItemAttributes
MagazineType	Describes the genre of the magazine. Ancestry: ItemAttributes
Manufacturer	Manufacturer Ancestry: ItemAttributes
ManufacturerLaborWarrantyDescription	Describes the manufacturer's labor warranty Ancestry: ItemAttributes
ManufacturerMaximumAge	Defines the maximum age in months the user should be to enjoy the use of the item. For example, for a toy targeted at kids from ages 2 to 4, 4 would be the value for the ManufacturerMaximumAge. Ancestry: ItemAttributes
ManufacturerMinimumAge	Defines the minimum age in months the user should be to enjoy the use of the item. For example, for a toy targeted at kids from ages 2 to 4, 2 would be the value for the ManufacturerMiniimumAge. Ancestry: ItemAttributes
ManufacturerPartsWarrantyDescription	Describes the manufacturer's parts warranty Ancestry: ItemAttributes
MaterialType	The type of material used in the item. Ancestry: ItemAttributes
MaterialTypeSetElement	Returns multiple values describing the different materials that constitute the item. Ancestry: Variations/Item/ItemAttributes
MaximumAperture	The larges lens aperture Ancestry: ItemAttributes
MaximumColorDepth	The number of bytes used to display colors in digital media. Ancestry: ItemAttributes

Response Element	Definition
MaximumFocalLength	The maximum focal length of the lens. Ancestry: ItemAttributes
MaximumHighResolutionImages	The highest image resolution provided by the item. Ancestry: ItemAttributes
MaximumHours	The maximum number of hours for which the item might be available. Ancestry: Offers/Offer/OfferListing/AvailabilityAttributes
MaximumHorizontalResolution	The highest resolution provided on the horizontal axis--the higher the number, the greater the resolution. Ancestry: None
MaximumLowResolutionImages	The lowest image resolution an item provides. Ancestry: ItemAttributes
MaximumResolution	The highest image resolution an item provides. Ancestry: ItemAttributes
MaximumShutterSpeed	The fastest speed of a camera shutter, This value is an of time. The unit of time is captured in the Units element. Ancestry: ItemAttributes
MaximumVerticalResolution	Highest image resolution on the vertical axis. Ancestry: ItemAttributes
MaximumWeightRecommendation	The maximum weight an item should hold. Ancestry: ItemAttributes
MediumImage	Container for a medium image Ancestry: ImageSets/ImageSet
MemorySlotsAvailable	Specifies whether or not the item has slots for memory additions. Ancestry: ItemAttributes
MerchandisingMessage	MerchandisingMessage contains text entered by a merchant that describes a promotion. Ancestry: None
MerchantId	A positive integer distributed by Amazon that uniquely identifies a merchant. Or, the legacy merchant ID that is associated with the promotion. In contrast, the element, OwningMerchantId, is an updated ID for the same merchant. These IDs may or may not be the same. Ancestry: CartItem SavedForLaterItem
Message	Message, or, a description of an error. Ancestry: Items/CorrectedQuery, Errors/Error

Response Element	Definition
MetalStamp	A distinctive marking in metal usually associated with jewelry. Ancestry: ItemAttributes
MetalType	The type of metal used in the item. Ancestry: ItemAttributes
MinimumHours	The minimum number of hours for which the item is available. Ancestry: Offers/Offer/OfferListing/AvailabilityAttributes
MiniMovieDescription	Short description of a movie. Ancestry: ItemAttributes
MinimumFocalLength	The shortest focal length of an item. Ancestry: ItemAttributes
MinimumShutterSpeed	The longest time a camera shutter can stay open. Ancestry: ItemAttributes
Model	Model Ancestry: ItemAttributes
ModemDescription	Description of a modem. Ancestry: ItemAttributes
MonitorSize	Size of a monitor expressed as the length between opposite corners of the monitor Ancestry: ItemAttributes
MonitorViewableDiagonalSize	The length between opposite corners of the monitor in which the image actually appears. Ancestry: ItemAttributes
MouseDescription	Description of a computer mouse. Ancestry: ItemAttributes
MPN	Manufacturer's part number. Ancestry: ItemAttributes
Name	Name of customer of item in a bin. Or, the name of a parameter passed in the request. Ancestry: ItemAttributes/Address ItemAttributes/Languages/Language BrowseNode/Ancestors/BrowseNode BrowseNode/Children/BrowseNode, Seller, SearchBinSets, SearchBinSet/Bin/BinParameter, Arguments/Argument
NativeResolution	The maximum resolution of a flat panel display. Ancestry: ItemAttributes
Neighborhood	Neighborhood Ancestry: ItemAttributes

Response Element	Definition
NetworkInterfaceDescription	Description of the item's network interface. Ancestry: ItemAttributes
Nickname	Seller's nickname Ancestry: SellerListing/Seller
NotebookDisplayTechnology	Describes the technology used in the notebook computer's display Ancestry: ItemAttributes
NotebookPointingDeviceDescription	Describes the pointing device used by the notebook computer. Ancestry: ItemAttributes
Number	An attribute in the Disc tag that denotes the CD number in the item, for example, <Disc Number="1">. Items with multiple CDs would have multiple values for Disc. Or, an attribute in the Track tag that denotes the track number on the CD, for example, <Track Number="9">Now Or Never</Track>. Ancestry: Tracks/Disc Tracks/Disc/Track
NumberOfDiscs	Number of discs an item can hold or use. Ancestry: ItemAttributes
NumberOfIssues	Number of issues in a subscription. Ancestry: ItemAttributes
NumberOfItems	Number of items. Ancestry: ItemAttributes
NumberOfPages	Number of pages. Ancestry: ItemAttributes
NumberOfPearls	Number of pearls in an item Ancestry: ItemAttributes
NumberOfRapidFireShots	The number of shots that can be fired sequentially. Ancestry: ItemAttributes
NumberOfStones	Number of stones in an item Ancestry: ItemAttributes
NumberOfTracks	Number of recorded track on a CD. Ancestry: ItemAttributes
OccasionDate	Specifies the date of an occasion, such as a wedding or birthday. Ancestry: List/OccasionDate
OfferListingId	A number that uniquely identifies an offer listing. This number represents a sales offer from a specific merchant. Ancestry: Offers/Offer/OfferListing

Response Element	Definition
OperatingSystem	Specifies the name of the operating system on a computer. Ancestry: VariationMatrix
Operation	Specifies the name of the operation, such as ItemLookup. Ancestry: Help
OpticalZoom	Specifies the optical, as opposed to the electronic, zoom. Ancestry: ItemAttributes
OriginalAirDate	The date upon which the digital item was first broadcast. Ancestry: ItemAttributes
OriginalReleaseDate	Specifies the date the item was originally released. Items that have been released multiple times have both release dates and original release dates. See ReleaseDate. Ancestry: ItemAttributes
OtherCategoriesSimilarProducts	Parent element for Title and ASIN of similar products in other product groups Ancestry: Cart
OwningMerchantId	The merchant ID that is associated with the promotion. OwningMerchantId is an updated ID for MerchantId. These IDs may or may not be the same. Ancestry: None
PackageQuantity	Quantity in a package Ancestry: Variations/Item/ItemAttributes/
Parameter	A parameter that an operation can or must use. Ancestry: Help
ParentASIN	A parent ASIN for an item in Saved For Later or the Active areas of a cart.. Ancestry: CartItem SavedForLaterItem
PartnerName	For wedding registries, this is the name of the bride or groom. Ancestry: List/PartnerName
PearlLustre	The luster of the pearl. Ancestry: ItemAttributes
PearlMinimumColor	The pearl's minimum color. Ancestry: ItemAttributes
PearlShape	The shape of the pearl. Ancestry: ItemAttributes
PearlStringingMethod	The means used to string the pearls.

Response Element	Definition
	Ancestry: ItemAttributes
PearlSurfaceBlemishes	A description of the surface blemishes on the pearl. Ancestry: ItemAttributes
PearlType	Pearl type is categorized by the shape and size of the pearl. Ancestry: ItemAttributes
PearlUniformity	Describes the uniformity of color of the pearl. Ancestry: ItemAttributes
PhoneNumber	Phone number Ancestry: ItemAttributes
PhotoFlashType	Description of the camera's flash. Ancestry: ItemAttributes
PictureFormat	Describes the format of an electronic image. Ancestry: ItemAttributes
Platform	Operating system. Ancestry: ItemAttributes
PostalCode	Postal code, such as a zip code. Ancestry: ItemAttributes/Address Offers/Offer/OfferListing
Price	A parent element for Amount, CurrencyCode, and FormattedPrice. In this case, the price is for an item in the Active or Saved For Later areas, respectively. Ancestry: CartItem SavedForLaterItem
PriceRating	Defines how expensive an item is. For example, for apparel, 1=under $15 2=$15-30 3=$30-45 4=over $45. Ancestry: ItemAttributes
ProcessorCount	The number of processors in an item. Ancestry: ItemAttributes
ProductGroup	The product category an item belongs to. The name of a category, such as sporting goods, to which an item in the cart belongs. The name of a category, such as sporting goods, to which an item in Saved For Later belongs. Ancestry: ItemAttributes/ProductGroup CartItem/ProductGroup SavedForLaterItem
ProductTypeSubcategory	Subcategory of product type Ancestry: Variations/Item/ItemAttributes
Promotion	Container for one or more Details elements.

Response Element	Definition
	Ancestry: Offers/OfferPromotions
PromotionCategory	Specifies the kind of promotion. Valid values include FreeShipping, BuyAmountXGetAmountOffX, and ForEachAmountXGetAmountOffX. For more information, see Promotion Types. Ancestry: Offers/OfferPromotions/Promotion/Summary
PromotionId	An alphanumeric token that uniquely identifies a promotion. Ancestry: Offers/Offer/Promotions/Promotion/Summary
Promotions	A container for one or more Promotion elements. Ancestry: Offers/Offer
PublicationDate	Publication date. Ancestry: ItemAttributes
Publisher	Publisher Ancestry: ItemAttributes
PurchaseURL	A URL that the customer must use to purchase the items in their cart. Ancestry: Cart
Quantity	The number of a particular item in a cart. Or, the number of items in stock.Or, the number of a particular item in Saved For Later. Ancestry: CartItem, SellerListing SavedForLaterItem
QuantityDesired	The number of items the customer wants. Ancestry: ListFull, ListItems
QuantityReceived	The number of items the customer received. Ancestry: ListFull, ListItems
Rating	A customer's rating in their review where a rating of 5 is the best. Ancestry: CustomerReviews/Review
ReadingLevel	Describes the reading difficulty of the book. Ancestry: ItemAttributes
RegistryNumber	Number that identifies a registry, such as a wedding registry. Ancestry: ListFull
RegionCode	A code that specifies a region. Ancestry: ItemAttributes
RegistryName	Name of a wedding or baby registry. Ancestry: List/RegistryName
RelatedItem	Container for an item that is related to the one specified in the

Response Element	Definition
	ItemLookup request.
	Ancestry: RelatedItems
	Children: Item, ASIN , ItemAttributes
RelatedItems	A container for one or more items that are related to the one specified in an ItemLookup request. This value is only returned with the Relateditems response group.
	Children: Relationship, Relationshiptype, RelatedItemCount, RelatedItemPageCount, RelatedItemPage, RelatedItem.
RelatedItemsCount	Specifies the number of related items found. This number, however, can be larger than the actual number returned because not all related items found are available.
RelatedItemPage	Specifies which page of related items has been returned.
	Ancestry: RelatedItems
RelatedItemPageCount	Specifies the number of pages of related items found. There are up to ten items per page.
	Ancestry: RelatedItems
Relationship	Child or parent. Relationships are uni-directional: either parent to child, or child to parent.
	Ancestry: RelatedItems
RelationshipType	Specifies how the related item relates to the specified item in the ItemLookup request, for example, Tracks. For more information, go to the ItemLookup page.
	Ancestry: RelatedItems
ReleaseDate	Date on which the item was was latest released. Items that have been released multiple times have both release dates and original release dates. See ReleaseDate.
	Ancestry: ItemAttributes
RemovableMemory	Specifies whether or not the memory is removable.
	Ancestry: ItemAttributes
RequestId	A number that uniquely identifies a request
	Ancestry: OperationRequest
ResolutionModes	Specifies the resolution modes of the item.
	Ancestry: ItemAttributes
ResponseGroup	An ECS response group.
	Ancestry: Help
RingSize	Size of a ring.
	Ancestry: ItemAttributes
Role	Role
	Ancestry: ItemAttributes/Creator

Response Element	Definition
RunningTime	The duration of a presentation. Ancestry: ItemAttributes
SalesRank	Indicates how well an item is selling within its product category. The lower the number, the better the item has sold. Ancestry: Item
SavedForLaterItem	A positive integer that uniquely identifies an item in Saved For Later. Ancestry: Cart/SavedForLaterItems Cart
SeasonSequence	A television show broadcast over a year, which typically has thirteen new shows, is called a season of shows. SeasonSequence specifies the season in which the digital asset was broadcast. Ancestry: ItemAttributes
ScentName	Scent of perfume or cologne Ancestry: Variations/Item/ItemAttributes/
SearchBinSet	A means by which to categorize results, such as price range. Ancestry: SearchBinSets
SearchBinSets	Parent element for SearchBins element. Ancestry: SearchBinSets
SecondaryCacheSize	Size of the secondary cache. Ancestry: ItemAttributes
SellerId	A positive integer that uniquely identifies the seller, or the seller of an item that is in either the Active or Saved For Later areas of a cart. Ancestry: SavedForLaterItem SellerListing/Seller CartItem Offers/Offer/Seller
SellerLegalName	Seller's legal name. This can differ from the Name value. For example, Amazon could be the value for the Name, but Amazon.com for the Legalname. Ancestry: Seller
SellerNickname	The nickname of the seller of an item in Saved For Later. The nickname is often a less formal version of the merchant's official name, such as, MyCompany, as opposed to MyCompany Ltd.. Ancestry: CartItem, Seller
SettingType	The setting type used in a piece of jewelry. Ancestry: ItemAttributes

Response Element	Definition
ShaftMaterialType	Material the shaft is composed of Ancestry: Variations/Item/ItemAttributes/
ShipmentItems	The items in a specific shipment. Ancestry: Transaction/Shipments/Shipment
Shipments	The shipments Ancestry: Transaction
ShortSynopsis	A short summary of a digital item. See LongSynopsis. Ancestry: ItemAttributes
SimilarProducts	Parent element for Title and ASIN of similar products in the same product group Ancestry: Cart
SimilarViewedProducts	Parent element for Title and ASIN of similar products in the same product group that have been viewed Ancestry: Cart
SingleMerchantId	ID of a merchant that applies across all of the variations of an item. Ancestry: VariationSummary
Size	Size Ancestry: ItemAttributes
SizePerPearl	Size of the pearl(s) in a piece of jewelry. Ancestry: ItemAttributes
SKU	Stock Keeping Unit (SKU) is a number that uniquely identifies an item. Ancestry: ItemAttributes SellerListing
SmallImage	Container for a small image. Thumbnail and Small images are the same size. Ancestry: ImageSets/ImageSet
SoundCardDescription	Describes a computer's sound card. Ancestry: ItemAttributes
Source	Where the review was entered. Typically, this is Amazon.com. It is possible, however, for customers to enter reviews from other sites. Ancestry: EditorialReviews/EditorialReview
SpeakerDescription	Describes the item's speakers. Ancestry: ItemAttributes
SpecialFeatures	Describes an item's special features.

Response Element	Definition
	Ancestry: ItemAttributes
StartDate	The data an item goes on sale. Or, specifies the first day and beginning time (GMT) of the promotion. Ancestry: SellerListing, Offers/Offer/Promotions/Promotion/Summary
StartYear	A digital item might have been broadcast over a number of years. StartYear specifies the year of the first broadcast. Ancestry: ItemAttributes
State	State Ancestry: ItemAttributes
Status	Specifies whether an item is for sale (Open) or not (Closed). To determine if an item is truly available, this value must be Open, Quantity must be greater than zero and also the value of QuantityAllocated. Ancestry:
StoneClarity	The clarity of a gem. Ancestry: ItemAttributes
StoneColor	The color of a gem. Ancestry: ItemAttributes
StoneCut	The cut of a gem. Ancestry: ItemAttributes
StoneShape	The shape of a gem. Ancestry: ItemAttributes
StoneWeight	The number of karats of a gem. Ancestry: ItemAttributes
StoreId	A number that uniquely identifies the seller's store. Ancestry: SellerListing/Seller
StoreName	The name of the seller's store. Ancestry: SellerListing/Seller
Studio	The name of the studio, such as Warner Brothers, that produced a digital item. Ancestry: ItemAttributes
Style	Style Ancestry: Variations/Item/ItemAttributes/
Subject	A book's Subject description, which characterizes the book's content. Ancestry: Subjects

Response Element	Definition
SubCondition	The condition of an item. This tag helps to further describes items that are not new. Values, for example, are mint, very good, and good. Ancestry: SellerListing/SubCondition
SubscriptionLength	The duration of a subscription. Ancestry: ItemAttributes
Summary	A short summary of the content of the review. Or, a container for all promotion information, including the elements BenefitDescription, Category, EndDate, EligibilityRequirementsDescription, PromotionId, StartDate, and TermsAndConditions. Ancestry: CustomerReviews/Review/Summary, Offers/Offer/Promotions/Promotion
SupportedImageType	The image formats supported by the item. Ancestry: ItemAttributes
SwatchImage	Container for a swatch image, which is smaller than a Small image. Ancestry: ImageSets/ImageSet
SystemBusSpeed	The bus speed of the motherboard. Ancestry: ItemAttributes
SystemMemorySize	The size of the item's RAM. Ancestry: ItemAttributes
SystemMemorySizeMax	The maximum RAM size an item can be expanded to. Ancestry: ItemAttributes
SystemMemoryType	The type of RAM memory used. Ancestry: ItemAttributes
Tag	A customer-created tag for an item, such as BobsBestMovie. Ancestry: TaggedGuides, TaggedItems, TaggedListmaniaLists, Tag
TaggedItems	Container for Tag elements, such as Item and DistinctUsers. Ancestry: TaggedGuides, TaggedItems, TaggedListmaniaLists, Tag
TagName	Tag name. Ancestry: TaggedGuides, TaggedItems, TaggedListmaniaLists, Tag
Tags	Container for all Tag elements. Ancestry: None
TagType	Describes the entity tagged, for example, Items.

Response Element	Definition
	Ancestry: TaggedGuides, TaggedItems, TaggedListmaniaLists, Tag
TermsAndConditions	Specifies the terms and conditions of the promotion. Ancestry: Offers/Offer/Promotions/Promotion/Summary
TheatricalReleaseDate	The date of a theatrical release. Ancestry: ItemAttributes
ThumbnailImage	Container for a Thumbnail image. Thumbnail and Small images are the same size. Ancestry: ImageSets/ImageSet
Time	The time an entity was tagged. Ancestry: TaggedItems, Tags
TinyImage	Container for a tiny image Ancestry: ImageSets/ImageSet
Title	Title or the name of the accessory, item, new release, similar products in other product groups, similar products in the same product group, similar products in the same product group that have been viewed Ancestry: ItemAttributes Accessories/Accessory SavedForLaterItem Cart/NewReleases/NewRelease/Title CartItem OtherCategoriesSimilarProduct SimilarProduct SimilarViewedProduct TopSellers/TopSeller
TopItem	Container object for information related to ranked responses, including MostGifted, MostWishedFor, TopSellers, and NewReleases. Information contained includes ASIN, Title, DetailPageURL, ProductGroup, Author, Artist, and Actor. Ancestry: MostGifted, MostWishedFor, TopSellers, NewReleases Children: ASIN, Title, DetailPageURL, ProductGroup, Actor, Artist, Author
TotalCollectible	The total number of collectible items for sale. Ancestry: OfferSummary
TotalDiamondWeight	Total weight of all of the diamonds in a piece of jewelry. Ancestry: ItemAttributes
TotalExternalBaysFree	The number of free external bays in a computer. Ancestry: ItemAttributes
TotalFeedback	Average rating of the customers' feedback about the seller. Ancestry: Offers/Offer/Seller
TotalFeedbackPages	Specifies the number of pages of customer feedback. Up to twenty customer reviews are returned per page.

Response Element	Definition
	Ancestry: Seller
TotalFirewirePorts	The number of firewire ports an item has. Ancestry: ItemAttributes
TotalGemWeight	Total weight of all of the gems in a piece of jewelry. Ancestry: ItemAttributes
TotalInternalBaysFree	Number of internal bays free in a computer Ancestry: ItemAttributes
TotalItems	The total number of items found on the list. Each page holds up to ten items. Ancestry: Items/TotalItems
TotalMetalWeight	Total weight of all of the metal in a piece of jewelry. Ancestry: ItemAttributes
TotalNew	The total number of new items for sale. Ancestry: OfferSummary
TotalNTSCPALPorts	Total number of NTSC and PAL video ports. Ancestry: ItemAttributes
TotalOfferPages	Number of pages of offers. Up to twenty offers are returned per page. By default, the first ten offers are returned in the response. Ancestry: Offers
TotalOffers	Total number of offers. Ancestry: Offers
TotalPages	The total number of pages found in a response. Each page holds up to ten items. Ancestry: Items
TotalParallelPorts	Total number of parallel ports. Ancestry: ItemAttributes
TotalPCCardSlots	Total number of PC card slots in a computer. Ancestry: ItemAttributes
TotalPCISlotsFree	Number of free PCI card slots in a computer. Ancestry: ItemAttributes
TotalRatings	Catalogs all customer ratings of the seller. Ancestry: Seller/TotalRatings
TotalRefurbished	The total number of refurbished items for sale. Ancestry: OfferSummary
TotalResults	Total number of items found by the request. Only ten are returned

Response Element	Definition
	at a time. Ancestry: Items, List
TotalReviewPages	The number of pages of reviews found. Up to ten reviews are returned in a response Ancestry: CustomerReviews
TotalReviews	Total number of reviews of an item. Ancestry: CustomerReviews
Totals	Container object for all other Total* elements, including Total, SubTotal, Tax, ShippingCharges, Promotion, and so forth. Ancestry: Transaction
TotalSerialPorts	Total number of serial ports on an item. Ancestry: ItemAttributes
TotalSVideoOutPorts	Total number of SVideo out connectors. Ancestry: ItemAttributes
TotalTimesRead	The number of times a list has been viewed. Ancestry: List
TotalUsages	The number of times an entity has been accessed. Ancestry: TaggedGuides, TaggedItems, TaggedListmaniaLIsts, Tags
TotalUSBPorts	Total number of USB2 ports on an item. Ancestry: ItemAttributes
TotalUSB2Ports	Total number of USB1 ports on an item. Ancestry: ItemAttributes
TotalUsed	The total number of used items for sale. Ancestry: OfferSummary
TotalVGAOutPorts	Total number of VGA (video) outputs on an item. Ancestry: ItemAttributes
TotalVotes	The total number of review votes cast. Ancestry: CustomerReviews/Review/TotalVotes
Track	Refers to each track on a CD. On a music CD, each track corresponds to a song. Ancestry: Tracks/Disc
TransactionDate	The date on which the transaction began of the form yyyy-mm-ddThh.mm.ss, for example, 2005-06-08T19:19:27. Ancestry: Transaction
TransactionDateEpoch	The date on which the transaction began in the form of epoch

Response Element	Definition
	seconds. Ancestry: Transaction
`TransactionId`	A series of dash-separated integers, such as 111-222-333, that uniquely identify a transaction. Ancestry: Transaction
`TransactionItem`	Container for all of the information related to a specified transaction. Ancestry: Transaction
`TransactionItemId`	A string that uniquely identifies a transaction item. Ancestry: Transaction/TransactionItems/TransactionItem
`TransactionItems`	Container for TransactionItem Ancestry: Transaction
`Type`	Type, depending on the context. If the ancestor is TopItemSet, the Type is the ranking criteria, such as MostGifted. Ancestry: ItemAttributes/Languages/Language, TopItemSet
`Unit`	This is the unit of time returned by the element, MaximumShutterSpeed. Ancestry: ItemAttributes
`UPC`	Universal Product Code, which is a 12 digit number, 6 of which represents an item's manufacturer. These numbers are translated into a bar code that is printed on an item or its packaging. Ancestry: ItemAttributes SellerListing
`URL`	URL of an image. Ancestry: Variations/Item/ImageSets/ImageSet/LargeImage Variations/Item/ImageSets/ImageSet/SwatchImage Variations/Item/ImageSets/ImageSet/MediumImage Variations/Item/ImageSets/ImageSet/SmallImage
`URLEncodedHMAC`	A URL-encoded version of the HMAC that can be used directly in a request. Ancestry: Cart
`UserAgent`	The client application, for example, web browsers, search engine crawlers, mobile phones, screen readers and braille browsers. The text associated with UserAgent contains the application name, version, host operating system, and language. Ancestry: OperationRequest
`UserId`	An alphanumeric token that uniquely identifies the customer that tagged the entity.

Response Element	Definition
	Ancestry:
Value	The value of a parameter passed in the request. Or, the value for item in bin. Ancestry: TaggedItems, TaggedListmaniaLists, Tags
VariationDenomination	Describes the variation. Typically used in the Electronics product category. Ancestry: ItemAttributes
VariationDescription	Describes the variation. A variation is a particular instance of an item, for example, a specific size and color of a shirt. Ancestry: ItemAttributes
VariationDimension	Container for dimensions Ancestry: Variations/VariationDimensions/
Version	ECS version number. Ancestry: Help
Warranty	Warranty terms Ancestry: ItemAttributes
WatchMovementType	The type of movement used in a watch. Ancestry: ItemAttributes
WaterResistanceDepth	How deep a watch can go in water before water leaks into it. Ancestry: ItemAttributes
Weight	Weight Ancestry: ItemAttributes/ItemDimensions ItemAttributes/PackageDimensions/Weight ItemAttributes
Width	Width Ancestry: ItemAttributes/ItemDimensions ItemAttributes/PackageDimensions/Width ItemAttributes Variations/Item/ImageSets/ImageSet/SwatchImage Variations/Item/ImageSets/ImageSet/LargeImage Variations/Item/ImageSets/ImageSet/SmallImage Variations/Item/ImageSets/ImageSet/MediumImage
WillShipExpedited	Specifies whether seller can ship items faster than normal delivery. Ancestry: SellerListing/WillShipExpedited
WillShipInternational	Specifies whether seller will ship item to international destinations. Ancestry: SellerListing/WillShipInternational
WishListId	An alphanumeric token that uniquely identifies a wish list.

Response Element	Definition
	Ancestry: CustomerFull, CustomerLists

ItemSearch Sort Values By Locale

The `ItemSearch Sort` parameter enables you to choose the order of the items in a response. Available sort values vary by locale and search index.

There are many sort values. The majority are not applied unless the Sort parameter is included in the request. There are two sort values, however, that are used by default:

- For an ItemSearch requests that do not use the BrowseNode parameter, results are sorted by Relevance.
- For an ItemSearch requests that do use the BrowseNode parameter, results are sorted by BestSeller ranking.

To see the sort values that can be used, click on one of the following locales:

- CA Sort Values
- DE Sort Values
- FR Sort Values
- JP Sort Values
- UK Sort Values
- US Sort Values

Sort Values for CA

Contents

- Books
- Classical
- DVD
- ForeignBooks
- Music
- Software
- SoftwareVideoGames
- VHS
- Video
- VideoGames

SearchIndex: Books

Value	Description
salesrank	Bestselling

Value	Description
pricerank	Price: low to high
inverse-pricerank	Price: high to low
daterank	Pub Date: New to Old
titlerank	Alphabetical: A to Z

SearchIndex: Classical

Value	Description
salesrank	Bestselling
titlerank	Alphabetical: A to Z
orig-rel-date	Rel Date: New to Old

SearchIndex: DVD

Value	Description
salesrank	Bestselling
titlerank	Alphabetical: A to Z

SearchIndex: ForeignBooks

Value	Description
salesrank	Bestselling
pricerank	Price: low to high
inverse-pricerank	Price: high to low
daterank	Publication date: newer to older
titlerank	Alphabetical: A to Z

SearchIndex: Music

Value	Description
salesrank	Bestselling
titlerank	Alphabetical: A to Z
orig-rel-date	Rel Date: New to Old

SearchIndex: Software

Value	Description
salesrank	Bestselling
pricerank	Price: low to high
inverse-pricerank	Price: high to low
titlerank	Alphabetical: A to Z
-daterank	Rel Date: Old to New

SearchIndex: SoftwareVideoGames

Value	Description
salesrank	Bestselling
pricerank	Price: low to high
inverse-pricerank	Price: high to low
titlerank	Alphabetical: A to Z
-daterank	Rel Date: Old to New

SearchIndex: VHS

Value	Description
salesrank	Bestselling
-titlerank	Alphabetical: Z to A

SearchIndex: Video

Value	Description
salesrank	Bestselling
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: VideoGames

Value	Description
salesrank	Bestselling
pricerank	Price: low to high

Value	Description
inverse-pricerank	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

Sort Values for DE

Contents

SearchIndex: Apparel

Value	Description
price	Price: low to high
-price	Price: high to low
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for

Value	Description
	example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling to worst selling

SearchIndex: Baby

Value	Description
price	Price: low to high
-price	Price: high to low
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling to worst selling

SearchIndex: Books

Value	Description
salesrank	Bestselling
reviewrank	Average customer review: high to low
pricerank	Price: low to high
inverse-pricerank	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Classical

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
pubdate	Publication date: most recent to oldest
-pubdate	Publication date: oldest to most recent

Value	Description
publication_date	Publication date: most recent to oldest
-publication_date	Publication date: oldest to most recent
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: DVD

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Electronics

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: ForeignBooks

Value	Description
salesrank	Bestselling
reviewrank	Average customer review: high to low
pricerank	Price: low to high
inverse-pricerank	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: HealthPersonalCare

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: HomeGarden

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Kitchen

Value	Description
price	Price: low to high
-price	Price: high to low
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling to worst selling

SearchIndex: Magazines

Value	Description
salesrank	Bestselling
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Music

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
pubdate	Publication date: most recent to oldest
-pubdate	Publication date: oldest to most recent
publicationdate	Publication date: most recent to oldest
-publicationdate	Publication date: oldest to most recent
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: MusicTracks

Value	Description
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: OutdoorLiving

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: PCHardware

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z

Value	Description
-titlerank	Alphabetical: Z to A

SearchIndex: Photo

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Software

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
-date	Publication date: newer to older
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: SportingGoods

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A
release-date	Release date: older to newer
-release-date	Release date: newer to older

SearchIndex: SoftwareVideoGames

Value	Description
salesrank	Bestselling
reviewrank	Average customer review: high to low
price	Price: low to high
inverse-pricerank	Price: high to low
-date	Publication date: newer to older
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Tools

Value	Description
salesrank	Bestselling
price	Price: low to high
-pricerank	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Toys

Value	Description
pmrank	Featured items
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
-date	Pub Date: Old to New
titlerank	Alphabetical: A to Z

SearchIndex: VHS

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z

Value	Description
-titlerank	Alphabetical: Z to A

SearchIndex: Video

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: VideoGames

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
-date	Publication date: newer to older
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Watches

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

Sort Values for FR

Contents

- Books

- Classical
- DVD
- Electronics
- ForeignBooks
- Kitchen
- Music
- MusicTracks
- Software
- SoftwareVideoGames
- VHS
- Video
- VideoGames
- Watches

SearchIndex: Books

Value	Description
salesrank	Bestselling to worse selling
pricerank	Price: low to high
inverse-pricerank	Price: high to low
-daterank	Pub Date: Old to New
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Classical

Value	Description
salesrank	Bestselling
pricerank	Price: low to high
price	Price: low to high
inverse-pricerank	Price: high to low
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: A to Z

SearchIndex: DVD

Value	Description
amzrank	Alphabetical: A to Z

Value	Description
availability	Most to least available
salesrank	Bestselling
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Electronics

Value	Description
salesrank	Bestselling
price	Price: Low to high
-price	Price: High to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: ForeignBooks

Value	Description
salesrank	Bestselling
pricerank	Price: low to high
inverse-pricerank	Price: high to low
-daterank	Publication date: Old to New
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Kitchen

Value	Description
price	Price: low to high
-price	Price: high to low
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling to worst selling

SearchIndex: Music

Value	Description
salesrank	Bestselling
pricerank	Price: low to high
inverse-pricerank	Price: high to low
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: MusicTracks

Value	Description
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Software

Value	Description
salesrank	Bestselling
price	Price: low to high
-pricerank	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: A to Z

SearchIndex: SoftwareVideoGames

Value	Description
salesrank	Bestselling
price	Price: low to high
-pricerank	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: A to Z
-date	Rel Date: Old to New

SearchIndex: VHS

Value	Description
amzrank	Most to least available
availability	Most to least available
salesrank	Bestselling
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Video

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: VideoGames

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
date	Rel Date: new to old
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Watches

Value	Description
price	Price: low to high
-price	Price: high to low
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in

Value	Description
	descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling to worst selling

Sort Values for JP

Contents

SearchIndex: Apparel

Value	Description
price	Price: low to high
-price	Price: high to low
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling to worst selling

SearchIndex: Baby

Value	Description
psrank	Bestseller ranking taking into consideration projected sales.The lower the value, the better the sales.
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z

SearchIndex: Beauty

Value	Description
price	Price: low to high
-price	Price: high to low
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
reviewrank	Highest to lowest ratings in customer reviews.

SearchIndex: Books

Value	Description
salesrank	Bestselling
pricerank	Price: low to high
inverse-pricerank	Price: high to low
daterank	Publication date: newer to older
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Classical

Value	Description
salesrank	Bestselling
pricerank	Price: low to high

Value	Description
-pricerank	Price: high to low
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A
-orig-rel-date	Release date: newer to older
orig-rel-date	Release date: older to newer
releasedate	Release date: newer to older
-releasedate	Release date: older to newer

SearchIndex: DVD

Value	Description
salesrank	Bestselling
pricerank	Price: low to high
-pricerank	Price: high to low
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A
-orig-rel-date	Release date: newer to older
orig-rel-date	Release date: older to newer
releasedate	Release date: older to newer
-releasedate	Release date: newer to older

SearchIndex: Electronics

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

Value	Description
-releasedate	Release date: newer to older
releasedate	Release date: older to newer

SearchIndex: ForeignBooks

Value	Description
salesrank	Bestselling
pricerank	Price: low to high
inverse-pricerank	Price: high to low
daterank	Publication date: newer to older
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: HealthPersonalCare

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Hobbies

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A
release-date	Release date: older to newer
-release-date	Release date: newer to older
mfg-age-min	Minimum age of user sorted from youngest to oldest.
-mfg-age-min	Minimum age of user sorted from oldest to youngest.

SearchIndex: Kitchen

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A
-release-date	Release date: newer to older
release-date	Release date: older to newer
releasedate	Items are sorted such that the most recently released item is listed first. Same as release-date.
-releasedate	Items are sorted such that the last released item is listed first. Same as -release-date.

SearchIndex: Music

Value	Description
salesrank	Bestselling
pricerank	Price: low to high
-pricerank	Price: high to low
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A
-orig-rel-date	Release date: newer to older
orig-rel-date	Release date: older to newer
releasedate	Release date: older to newer
-releasedate	Release date: newer to older

SearchIndex: MusicTracks

Value	Description
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Software

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A
-release-date	Release date: newer to older
release-date	Release date: older to newer
releasedate	Items are sorted such that the most recently released item is listed first. Same as release-date.
-releasedate	Items are sorted such that the last released item is listed first. Same as -release-date.

SearchIndex: SportingGoods

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A
releasedate	Release date: older to newer
-releasedate	Release date: newer to older

SearchIndex: Toys

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A
-release-date	Release date: newer to older
release-date	Release date: older to newer

Value	Description
releasedate	Items are sorted such that the most recently released item is listed first. Same as release-date.
-releasedate	Items are sorted such that the last released item is listed first. Same as -release-date.

SearchIndex: VHS

Value	Description
salesrank	Bestselling
pricerank	Price: low to high
-pricerank	Price: high to low
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A
-orig-rel-date	Release date: newer to older
orig-rel-date	Release date: older to newer
releasedate	Release date: older to newer
-releasedate	Release date: newer to older

SearchIndex: Video

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
pricerank	Price: low to high
-pricerank	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A
-orig-rel-date	Release date: newer to older
orig-rel-date	Release date: older to newer
releasedate	Release date: older to newer
-releasedate	Release date: newer to older

SearchIndex: VideoGames

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A
-release-date	Release date: newer to older
release-date	Release date: older to newer
releasedate	Items are sorted such that the most recently released item is listed first. Same as release-date.
-releasedate	Items are sorted such that the last released item is listed first. Same as -release-date.

SearchIndex: Watches

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

Sort Values for UK

Contents

- Apparel
- Baby
- Books
- Classical
- DVD
- Electronics
- HealthPersonalCare
- HomeGarden
- Kitchen
- Music
- MusicTracks

- OutdoorLiving
- Software
- SoftwareVideoGames
- Toys
- VHS
- Video
- VideoGames
- Watches

SearchIndex: Apparel

Value	Description
price	Price: low to high
-price	Price: high to low
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling to worst selling

SearchIndex: Baby

Value	Description
price	Price: low to high
-price	Price: high to low
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling to worst selling

SearchIndex: Books

Value	Description
salesrank	Bestselling
reviewrank	Average customer review: high to low
pricerank	Price: low to high
inverse-pricerank	Price: high to low

Value	Description
daterank	Publication date: older to newer
pubdate	Publication date: older to newer
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Classical

Value	Description
salesrank	Bestselling
reviewrank	Average customer review: high to low
price	Price: low to high
-price	Price: high to low
inverse-pricerank	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: DVD

Value	Description
salesrank	Bestselling
reviewrank	Average customer review: high to low
price	Price: low to high
-price	Price: high to low
inverse-pricerank	Price: high to low
daterank	Publication date: older to newer
releasedate	Publication date: older to newer
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Electronics

Value	Description
salesrank	Bestselling
reviewrank	Average customer review: high to low

Value	Description
price	Price: low to high
inverse-pricerank	Price: high to low
daterank	Publication date: older to newer
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: HealthPersonalCare

Value	Description
salesrank	Bestselling
reviewrank	Average customer review: high to low
price	Price: low to high
-price	Price: high to low
daterank	Publication date: older to newer
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: HomeGarden

Value	Description
salesrank	Bestselling
reviewrank	Average customer review: high to low
price	Price: low to high
-price	Price: high to low
daterank	Publication date: older to newer
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Kitchen

Value	Description
salesrank	Bestselling
reviewrank	Average customer review: high to low
price	Price: low to high

Value	Description
-price	Price: high to low
daterank	Publication date: older to newer
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Music

Value	Description
salesrank	Bestselling
reviewrank	Average customer review: high to low
price	Price: low to high
-price	Price: high to low
inverse-pricerank	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: MusicTracks

Value	Description
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: OutdoorLiving

Value	Description
salesrank	Bestselling
reviewrank	Average customer review: high to low
price	Price: low to high
-price	Price: high to low
daterank	Publication date: older to newer
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Software

Value	Description
salesrank	Bestselling
reviewrank	Average customer review: high to low
price	Price: low to high
inverse-pricerank	Price: high to low
daterank	Publication date: older to newer
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: SoftwareVideoGames

Value	Description
salesrank	Bestselling
reviewrank	Average customer review: high to low
price	Price: low to high
inverse-pricerank	Price: high to low
daterank	Publication date: older to newer
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Toys

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
-mfg-age-min	Age: high to low
mfg-age-min	Age: low to high

SearchIndex: VHS

Value	Description
salesrank	Bestselling

Value	Description
reviewrank	Average customer review: high to low
price	Price: low to high
-price	Price: high to low
inverse-pricerank	Price: high to low
daterank	Publication date: older to newer
releasedate	Publication date: older to newer
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Video

Value	Description
salesrank	Bestselling
reviewrank	Average customer review: high to low
price	Price: low to high
-price	Price: high to low
inverse-pricerank	Price: high to low
daterank	Publication date: older to newer
releasedate	Publication date: older to newer
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: VideoGames

Value	Description
salesrank	Bestselling
reviewrank	Average customer review: high to low
price	Price: low to high
inverse-pricerank	Price: high to low
daterank	Publication date: older to newer
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Watches

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

Sort Values for US

Contents

- All
- Apparel
- Automotive
- Baby
- Beauty
- Books
- Classical
- DigitalMusic
- DVD
- Electronics
- GourmetFood
- Grocery
- HealthPersonalCare
- HomeGarden
- Industrial
- Jewelry
- KindleStore
- Kitchen
- Magazines
- Merchants
- Miscellaneous
- MP3Downloads
- Music
- MusicalInstruments
- MusicTracks
- OfficeProducts
- OutdoorLiving
- PCHardware
- PetSupplies

- Photo
- SilverMerchants
- Software
- SportingGoods
- Tools
- Toys
- UnboxVideo
- VHS
- Video
- VideoGames
- Watches
- Wireless
- WirelessAccessories

SearchIndex: All

You cannot use any sort parameters with the All search index.

SearchIndex: Apparel

Value	Description
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling
pricerank	Price: low to high
inverseprice	Price: high to low
-launch-date	Newest arrivals
sale-flag	On sale

SearchIndex: Automotive

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Baby

Value	Description
psrank	Bestseller ranking taking into consideration projected sales.The lower the value, the better the sales.
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z

SearchIndex: Beauty

Value	Description
pmrank	Featured items
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
-launch-date	Newest arrivals
sale-flag	On sale

SearchIndex: Books

Value	Description
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling
reviewrank	Average customer review: high to low
pricerank	Price: low to high
inverse-pricerank	Price: high to low
daterank	Publication date: newer to older
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Classical

Value	Description
psrank	Bestseller ranking taking into consideration projected sales.The lower the value, the better the sales.
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A
orig-rel-date	Release date: newer to older
-orig-rel-date	Release date: older to newer
releasedate	Release date: newer to older
-releasedate	Release date: older to newer

SearchIndex: DigitalMusic

Value	Description
songtitlerank	Most popular
uploaddaterank	Date added

SearchIndex: DVD

Value	Description
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-video-release-date	Release date: newer to older
releasedate	Release date: newer to older

SearchIndex: Electronics

Value	Description
pmrank	Featured items
salesrank	Bestselling
reviewrank	Average customer review: high to low
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z

SearchIndex: GourmetFood

Value	Description
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling
pricerank	Price: low to high
inverseprice	Price: high to low
launch-date	Newest arrivals
sale-flag	On sale

SearchIndex: Grocery

Value	Description
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling
pricerank	Price: low to high
inverseprice	Price: high to low
launch-date	Newest launches first
sale-flag	On sale

SearchIndex: HealthPersonalCare

Value	Description
pmrank	Featured items
salesrank	Bestselling
pricerank	Price: low to high
inverseprice	Price: high to low
launch-date	Newest arrivals
sale-flag	On sale

SearchIndex: HomeGarden

Value	Description
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex:Industrial

Value	Description
pmrank	Featured items
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Jewelry

Value	Description
pmrank	Featured items
salesrank	Bestselling
pricerank	Price: low to high

Value	Description
inverseprice	Price: high to low
launch-date	Newest arrivals

SearchIndex: KindleStore

Value	Description
daterank	Publication date: newer to older
-edition-sales-velocity	Quickest to slowest selling products.
price	Price: low to high
-price	Price: high to low
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
reviewrank	Average customer review: high to low

SearchIndex: Kitchen

Value	Description
pmrank	Featured items
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Magazines

Value	Description
subslot-salesrank	Bestselling
reviewrank	Average customer review: high to low
price	Price: low to high
-price	Price: high to low
daterank	Publication date: newer to older

Value	Description
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Merchants

Value	Description
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling
pricerank	Price: low to high
inverseprice	Price: high to low
-launch-date	Newest arrivals
sale-flag	On sale

SearchIndex: Miscellaneous

Value	Description
pmrank	Featured items
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: MP3Downloads

Value	Description
price	Price: low to high
-price	Price: high to low
-releasedate	Release date: most recent to oldest
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles,

Value	Description
	and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling

SearchIndex: Music

Value	Description
psrank	Bestseller ranking taking into consideration projected sales.The lower the value, the better the sales.
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A
artistrank	Artist name: A to Z
orig-rel-date	Original release date of the item listed from newer to older. See release-date, which sorts by the latest release date.
release-date	Sorts by the latest release date from newer to older. See orig-rel-date, which sorts by the original release date.
releasedate	Release date: most recent to oldest
-releasedate	Release date: oldest to most recent

SearchIndex: MusicalInstruments

Value	Description
pmrank	Featured items
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
-launch-date	Newest arrivals
sale-flag	On sale

SearchIndex: MusicTracks

Value	Description
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: OfficeProducts

Value	Description
pmrank	Featured items
salesrank	Bestselling
reviewrank	Average customer review: high to low
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z

SearchIndex: OutdoorLiving

Value	Description
psrank	Bestseller ranking taking into consideration projected sales.The lower the value, the better the sales.
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: PCHardware

Value	Description
psrank	Bestseller ranking taking into consideration projected sales.The lower the value, the better the sales.
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z

SearchIndex: PetSupplies

Value	Description
+pmrank	Featured items
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Photo

Value	Description
pmrank	Featured items
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: SilverMerchants

Value	Description
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling
pricerank	Price: low to high
inverseprice	Price: high to low
-launch-date	Newest arrivals
sale-flag	On sale

SearchIndex: Software

Value	Description
pmrank	Featured items
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z

SearchIndex: SportingGoods

Value	Description
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling
pricerank	Price: low to high
inverseprice	Price: high to low
launch-date	Newest arrivals
sale-flag	On sale

SearchIndex: Tools

Value	Description
pmrank	Featured items
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: Toys

Value	Description
pmrank	Featured items
salesrank	Bestselling

Value	Description
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-age-min	Age: high to low

SearchIndex: UnboxVideo

Value	Description
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-video-release-date	Release date: newer to older

SearchIndex: VHS

Value	Description
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-video-release-date	Release date: newer to older
-releasedate	Release date: newer to older

SearchIndex: Video

Value	Description
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z
-video-release-date	Release date: newer to older
-releasedate	Release date: newer to older

SearchIndex: VideoGames

Value	Description
pmrank	Featured items
salesrank	Bestselling
price	Price: low to high
-price	Price: high to low
titlerank	Alphabetical: A to Z

SearchIndex: Watches

Value	Description
price	Price: low to high
-price	Price: high to low
relevancerank	Items ranked according to the following criteria: how often the keyword appears in the description, where the keyword appears, for example, the ranking is higher when keywords are found in titles, and, if there are multiple keywords, how closely they occur in descriptions, and, finally, how often customers purchased the products they found using the keyword.
reviewrank	Average customer review: high to low
salesrank	Bestselling to worst selling

SearchIndex: Wireless

Value	Description
daterank	Publication date: newer to older
pricerank	Price: low to high
inverse-pricerank	Price: high to low
reviewrank	Average customer review: high to low
salesrank	Bestselling
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

SearchIndex: WirelessAccessories

Value	Description
psrank	Bestseller ranking taking into consideration projected sales.The lower the value, the better the sales.
salesrank	Bestselling
titlerank	Alphabetical: A to Z
-titlerank	Alphabetical: Z to A

Search Index and ItemSearch Parameter Combinations

For a given search index, only some `ItemSearch` parameters are valid. Also, each locale supports only a subset of all search index values. The following sections explain, by locale and by search index, which `ItemSearch` parameters can be used in a request. For example, in the US locale, when SearchIndex is "Blended," the only parameter that can be used in an ItemSearch request is Keywords.

- Amazon.ca (CA) Combinations
- Amazon.de (DE) Combinations
- Amazon.fr (FR) Combinations
- Amazon.co.jp (JP) Combinations
- Amazon.co.uk (UK) Combinations
- Amazon.com (US) Combinations

SearchIndex-ItemSearch Parameter Combinations for CA

This Search Index Matrix shows you which `ItemSearch` parameters may be used with each of the available `SearchIndex` values for the CA locale.

Contents

SearchIndex: Blended

- Keywords

SearchIndex: Books

In an `ItemSearch` request, when the *SearchIndex* parameter equals "VALUE", only the following parameters can be used in the request.

• Author	• ItemPage	• Power
• BrowseNode	• Keywords	• Publisher
• Condition	• MaximumPrice	• Sort
• Count	• MerchantId	• Title
	• MinimumPrice	

SearchIndex: Classical

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Classical", only the following parameters can be used in the request.

• Author	• Count	• MerchantId
• BrowseNode	• ItemPage	• MinimumPrice
• Composer	• Keywords	• MusicLabel
• Condition	• MaximumPrice	• Sort
• Conductor		• Title

SearchIndex: DVD

In an `ItemSearch` request, when the *SearchIndex* parameter equals "DVD", only the following parameters can be used in the request.

• Actor	• Director	• MerchantId
• AudienceRating	• ItemPage	• MinimumPrice
• BrowseNode	• Keywords	• Publisher
• Condition	• MaximumPrice	• Sort
• Count		• Title

SearchIndex: ForeignBooks

In an `ItemSearch` request, when the `SearchIndex` parameter equals "ForeignBooks", only the following parameters can be used in the request.

• BrowseNode	• Keywords	• Power
• Condition	• MaximumPrice	• Publisher
• Count	• MerchantId	• Sort
• ItemPage	• MinimumPrice	• Title

SearchIndex: Music

In an `ItemSearch` request, when the `SearchIndex` parameter equals "Music", only the following parameters can be used in the request.

• Artist	• ItemPage	• MusicLabel
• BrowseNode	• Keywords	• Power
• Condition	• MaximumPrice	• Sort
• Count	• MerchantId	• Title
	• MinimumPrice	

SearchIndex: Software

In an `ItemSearch` request, when the `SearchIndex` parameter equals "Software", only the following parameters can be used in the request.

• BrowseNode	• ItemPage	• MerchantId
• Condition	• Keywords	• MinimumPrice
• Count	• Manufacturer	• Sort
	• MaximumPrice	• Title

SearchIndex: SoftwareVideoGames

In an `ItemSearch` request, when the *SearchIndex* parameter equals "SoftwareVideoGames", only the following parameters can be used in the request.

• Author	• ItemPage	• MerchantId
• BrowseNode	• Keywords	• MinimumPrice
• Condition	• Manufacturer	• Sort
• Count	• MaximumPrice	• Title

SearchIndex: VHS

In an `ItemSearch` request, when the *SearchIndex* parameter equals "VHS", only the following parameters can be used in the request.

• Actor	• Director	• MinimumPrice
• BrowseNode	• ItemPage	• Publisher
• Condition	• Keywords	• Sort
• Count	• MaximumPrice	• Title
	• MerchantId	

SearchIndex: Video

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Video", only the following parameters can be used in the request.

• Actor	• Director	• MerchantId
• AudienceRating	• ItemPage	• MinimumPrice
• BrowseNode	• Keywords	• Publisher
• Condition	• MaximumPrice	• Sort
• Count		• Title

SearchIndex: VideoGames

In an `ItemSearch` request, when the *SearchIndex* parameter equals "VideoGames", only the following parameters can be used in the request.

• Author	• ItemPage	• MerchantId
• Brand	• Keywords	• MinimumPrice
• BrowseNode	• Manufacturer	• Sort

• Condition • Count	• MaximumPrice	• Title

SearchIndex-ItemSearch Parameter Combinations for DE

This Search Index Matrix shows you which `ItemSearch` parameters may be used with each of the available *SearchIndex* values for the DE locale.

Contents

- [Apparel](#)
- [Baby](#)
- [Blended](#)
- [Books](#)
- [Classical](#)
- [DVD](#)
- [Electronics](#)
- [ForeignBooks](#)
- [HealthPersonalCare](#)
- [HomeGarden](#)
- [Kitchen](#)
- [Magazines](#)
- [Music](#)
- [MusicTracks](#)
- [OutdoorLiving](#)
- [PCHardware](#)
- [Photo](#)
- [Software](#)
- [SoftwareVideoGames](#)
- [SportingGoods](#)
- [Tools](#)
- [Toys](#)
- [VHS](#)
- [Video](#)
- [VideoGames](#)
- [Watches](#)

SearchIndex: Apparel

In an `ItemSearch` request, when the *SearchIndex* parameter equals "apparel", only the following parameters can be used in the request.

• Author • Availability	• Format • ISPUPostalCode	• Performer • PostalCode

• Brand	• ItemPage	• Sort
• BrowseNode	• Keywords	• State
• Condition	• Magazines	• Title
• Count	• Manufacturer	
• DeliveryMethod	• MerchantId	

SearchIndex: Baby

In an `ItemSearch` request, when the `SearchIndex` parameter equals "Baby", only the following parameters can be used in the request.

• Brand	• ItemPage	• MerchantId
• BrowseNode	• Keywords	• MinimumPrice
• Condition	• Manufacturer	• Sort
	• MaximumPrice	• State
		• Title

SearchIndex: Blended

• Keywords

SearchIndex: Books

In an `ItemSearch` request, when the `SearchIndex` parameter equals "Books", only the following parameters can be used in the request.

• Author	• Keywords	• Power
• BrowseNode	• MaximumPrice	• Publisher
• Condition	• MerchantId	• Sort
• ItemPage	• MinimumPrice	• Title

SearchIndex: Classical

In an `ItemSearch` request, when the `SearchIndex` parameter equals "Music", only the following parameters can be used in the request.

• Artist	• Format	• Performer
• Availability	• ItemPage	• PostalCode
• BrowseNode	• Keywords	• Sort
• Composer	• Magazines	• State

• Conductor	• MusicLabel	• Title
• Count	• Orchestra	

SearchIndex: DVD

In an `ItemSearch` request, when the `SearchIndex` parameter equals "DVD", only the following parameters can be used in the request.

• Actor	• Format	• Performer
• Availability	• ItemPage	• PostalCode
• BrowseNode	• Keywords	• Sort
• Composer	• Magazines	• State
• Conductor	• MusicLabel	• Title
• Count	• Orchestra	

SearchIndex: Electronics

In an `ItemSearch` request, when the `SearchIndex` parameter equals "Electronics", only the following parameters can be used in the request.

• BrowseNode	• Manufacturer	• MinimumPrice
• Condition	• MaximumPrice	• Sort
• ItemPage	• MerchantId	• Title
• Keywords		

SearchIndex: ForeignBooks

In an `ItemSearch` request, when the `SearchIndex` parameter equals "ForeignBooks", only the following parameters can be used in the request.

• Author	• Keywords	• Publisher
• BrowseNode	• MaximumPrice	• Sort
• Condition	• MerchantId	• Title
• ItemPage	• MinimumPrice	

SearchIndex: HealthPersonalCare

In an `ItemSearch` request, when the `SearchIndex` parameter equals "HealthPersonalCare", only the following parameters can be used in the request.

• BrowseNode	• Manufacturer	• MinimumPrice
• Condition	• MaximumPrice	• Sort
• ItemPage	• MerchantId	• Title
• Keywords		

SearchIndex: HomeGarden

In an `ItemSearch` request, when the *SearchIndex* parameter equals "HomeGarden", only the following parameters can be used in the request.

• BrowseNode	• Manufacturer	• MinimumPrice
• Condition	• MaximumPrice	• Sort
• ItemPage	• MerchantId	• Title
• Keywords		

SearchIndex: Kitchen

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Kitchen", only the following parameters can be used in the request.

• Author	• Format	• Performer
• Availability	• ISPUPostalCode	• PostalCode
• Brand	• ItemPage	• Sort
• BrowseNode	• Keywords	• State
• Condition	• Magazines	• Title
• Count	• Manufacturer	
• DeliveryMethod	• MerchantId	

SearchIndex: Magazines

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Magazines", only the following parameters can be used in the request.

• BrowseNode	• MaximumPrice	• Publisher
• Condition	• MerchantId	• Sort
• ItemPage	• MinimumPrice	• Title
• Keywords		

SearchIndex: Music

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Music", only the following parameters can be used in the request.

• Artist	• ItemPage	• PostalCode
• Availability	• Keywords	• Sort
• BrowseNode	• Magazines	• State
• Count	• MusicLabel	• Title
• Format	• Performer	

SearchIndex: MusicTracks

In an `ItemSearch` request, when the *SearchIndex* parameter equals "MusicTracks", only the following parameters can be used in the request.

• Condition	• MaximumPrice	• MinimumPrice
• ItemPage	• MerchantId	• Sort
• Keywords		

SearchIndex: OutdoorLiving

In an `ItemSearch` request, when the *SearchIndex* parameter equals "OutdoorLiving", only the following parameters can be used in the request.

• BrowseNode	• Manufacturer	• MinimumPrice
• Condition	• MaximumPrice	• Sort
• ItemPage	• MerchantId	• Title
• Keywords		

SearchIndex: PCHardware

In an `ItemSearch` request, when the *SearchIndex* parameter equals "PCHardware", only the following parameters can be used in the request.

• BrowseNode	• Manufacturer	• MinimumPrice
• Condition	• MaximumPrice	• Sort
• ItemPage	• MerchantId	• Title
• Keywords		

SearchIndex: Photo

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Photo", only the following parameters can be used in the request.

• BrowseNode	• Manufacturer	• MinimumPrice
• Condition	• MaximumPrice	• Sort
• ItemPage	• MerchantId	• Title
• Keywords		

SearchIndex: Software

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Software", only the following parameters can be used in the request.

• BrowseNode	• Manufacturer	• MinimumPrice
• Condition	• MaximumPrice	• Sort
• ItemPage	• MerchantId	• Title
• Keywords		

SearchIndex: SoftwareVideoGames

In an `ItemSearch` request, when the *SearchIndex* parameter equals "SoftwareVideoGames", only the following parameters can be used in the request.

• BrowseNode	• Manufacturer	• MinimumPrice
• Condition	• MaximumPrice	• Sort
• ItemPage	• MerchantId	• Title
• Keywords		

SearchIndex: SportingGoods

In an `ItemSearch` request, when the *SearchIndex* parameter equals "SportingGoods", only the following parameters can be used in the request.

• BrowseNode	• Manufacturer	• MinimumPrice
• Condition	• MaximumPrice	• Sort
• ItemPage	• MerchantId	• Title
• Keywords		

SearchIndex: Tools

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Tools", only the following parameters can be used in the request.

• Condition	• MaximumPrice	• Sort
• ItemPage	• MerchantId	• Title
• Keywords	• MinimumPrice	

SearchIndex: Toys

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Toys", only the following parameters can be used in the request.

• BrowseNode	• ItemPage	• Sort
• Condition	• Keywords	• MerchantId
• Count		• Title

SearchIndex: VHS

In an `ItemSearch` request, when the *SearchIndex* parameter equals "VHS", only the following parameters can be used in the request.

• Actor	• Format	• PostalCode
• AudienceRating	• ItemPage	• Publisher
• Availability	• Keywords	• Sort
• BrowseNode	• Magazines	• State
• Count	• Performer	• Title
• Director		

SearchIndex: Video

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Music", only the following parameters can be used in the request.

• Actor	• Format	• PostalCode
• AudienceRating	• ItemPage	• Publisher
• Availability	• Keywords	• Sort
• BrowseNode	• Magazines	• State
• Count	• Performer	• Title

• Director		

SearchIndex: VideoGames

In an `ItemSearch` request, when the `SearchIndex` parameter equals "Music", only the following parameters can be used in the request.

• BrowseNode • Condition • ItemPage • Keywords	• Manufacturer • MaximumPrice • MerchantId • MinimumPrice	• MPAARating • Sort • Title

SearchIndex: Watches

In an `ItemSearch` request, when the `SearchIndex` parameter equals "Watches", only the following parameters can be used in the request.

• BrowseNode • Condition • ItemPage • Keywords	• MerchantId • MinimumPrice • Sort	• State • TextStream • Title

SearchIndex-ItemSearch Parameter Combinations for FR

This Search Index Matrix shows you which `ItemSearch` parameters may be used with each of the available `SearchIndex` values for the FR locale.

Contents

- Video
- VideoGames
- Watches

SearchIndex: Blended

- Keywords

SearchIndex: Books

In an `ItemSearch` request, when the `SearchIndex` parameter equals "Books", only the following parameters can be used in the request.

• Author	• ItemPage	• Power
• BrowseNode	• Keywords	• Publisher
• Condition	• MaximumPrice	• Sort
• Count	• MerchantId	• Title
	• MinimumPrice	

SearchIndex: Classical

In an `ItemSearch` request, when the `SearchIndex` parameter equals "Classical", only the following parameters can be used in the request.

• Actor	• Format	• Performer
• Availability	• ItemPage	• PostalCode
• BrowseNode	• Keywords	• Sort
• Composer	• Magazines	• State
• Conductor	• MusicLabel	• Title
• Count	• Orchestra	

SearchIndex: DVD

In an `ItemSearch` request, when the `SearchIndex` parameter equals "DVD", only the following parameters can be used in the request.

• Actor	• Format	• PostalCode
• AudienceRating	• ItemPage	• Publisher
• Availability	• Keywords	• Sort
• BrowseNode	• Magazines	• State
• Count	• Performer	• Title
• Director		

SearchIndex: Electronics

In an ItemSearch request, when the *SearchIndex* parameter equals "Electronics", only the following parameters can be used in the request.

• BrowseNode	• Manufacturer	• MinimumPrice
• Condition	• MaximumPrice	• Sort
• ItemPage	• MerchantId	• Title
• Keywords		

SearchIndex: ForeignBooks

In an ItemSearch request, when the *SearchIndex* parameter equals "ForeignBooks", only the following parameters can be used in the request.

• Author	• ItemPage	• Power
• BrowseNode	• Keywords	• Publisher
• Condition	• MaximumPrice	• Sort
• Count	• MerchantId	• Title
	• MinimumPrice	

SearchIndex: Kitchen

In an ItemSearch request, when the *SearchIndex* parameter equals "Kitchen", only the following parameters can be used in the request.

• Author	• Format	• Performer
• Availability	• ISPUPostalCode	• PostalCode
• Brand	• ItemPage	• Sort
• BrowseNode	• Keywords	• State
• Condition	• Magazines	• Title
• Count	• Manufacturer	
• DeliveryMethod	• MerchantId	

SearchIndex: Music

In an ItemSearch request, when the *SearchIndex* parameter equals "Music", only the following parameters can be used in the request.

• Artist	• ItemPage	• PostalCode
• Availability	• Keywords	• Sort
• BrowseNode	• Magazines	• State
• Count	• MusicLabel	• Title
• Format	• Performer	

SearchIndex: MusicTracks

In an `ItemSearch` request, when the `SearchIndex` parameter equals "MusicTracks", only the following parameters can be used in the request.

• BrowseNode	• ItemPage	• MerchantId
• Condition	• Keywords	• MinimumPrice
• Count		• Sort

SearchIndex: Software

In an `ItemSearch` request, when the `SearchIndex` parameter equals "Software", only the following parameters can be used in the request.

• BrowseNode	• ItemPage	• MerchantId
• Condition	• Keywords	• MinimumPrice
• Count	• Manufacturer	• Sort
	• MaximumPrice	• Title

SearchIndex: SoftwareVideoGames

In an `ItemSearch` request, when the `SearchIndex` parameter equals "SoftwareVideoGames", only the following parameters can be used in the request.

• Author	• ItemPage	• MerchantId
• BrowseNode	• Keywords	• MinimumPrice
• Condition	• Manufacturer	• Sort
• Count	• MaximumPrice	• Title

SearchIndex: VHS

In an `ItemSearch` request, when the `SearchIndex` parameter equals "VHS", only the following

parameters can be used in the request.

• Actor	• Format	• PostalCode
• AudienceRating	• ItemPage	• Publisher
• Availability	• Keywords	• Sort
• BrowseNode	• Magazines	• State
• Count	• Performer	• Title
• Director		

SearchIndex: Video

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Video", only the following parameters can be used in the request.

• Actor	• Director	• Publisher
• AudienceRating	• ItemPage	• Sort
• Availability	• Keywords	• State
• BrowseNode	• PostalCode	• Title

SearchIndex: VideoGames

In an `ItemSearch` request, when the *SearchIndex* parameter equals "VideoGames", only the following parameters can be used in the request.

• Author	• ItemPage	• MerchantId
• Brand	• Keywords	• MinimumPrice
• BrowseNode	• Manufacturer	• Sort
• Condition	• MaximumPrice	• Title
• Count		

SearchIndex: Watches

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Watches", only the following parameters can be used in the request.

• BrowseNode	• MerchantId	• State
• Condition	• MinimumPrice	• TextStream
• ItemPage	• Sort	• Title
• Keywords		

SearchIndex-ItemSearch Parameter Combinations for JP

This Search Index Matrix shows you which `ItemSearch` parameters may be used with each of the available *SearchIndex* values for the JP locale.

Contents

SearchIndex: Apparel

In an `ItemSearch` request, when the *SearchIndex* parameter equals "apparel", only the following parameters can be used in the request.

• Author	• Format	• Performer
• Availability	• ISPUPostalCode	• PostalCode
• Brand	• ItemPage	• Sort
• BrowseNode	• Keywords	• State
• Condition	• Magazines	• Title
• Count	• Manufacturer	
• DeliveryMethod	• MerchantId	

SearchIndex: Baby

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Baby", only the following

parameters can be used in the request.

• Brand • BrowseNode • Condition	• ItemPage • Keywords • Manufacturer • MaximumPrice	• MerchantId • MinimumPrice • Sort • State • Title

SearchIndex: Beauty

In an `ItemSearch` request, when the *SearchIndex* parameter equals " Beauty", only the following parameters can be used in the request.

• Brand • BrowseNode • Condition	• ItemPage • Keywords • Manufacturer • MaximumPrice	• MerchantId • MinimumPrice • Sort • Title

SearchIndex: Blended

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Blended", only the following parameters can be used in the request.

• Keywords

SearchIndex: Books

In an `ItemSearch` request, when the *SearchIndex* parameter equals "VALUE", only the following parameters can be used in the request.

• Author • BrowseNode • Condition • ItemPage	• Keywords • MaximumPrice • MerchantId • MinimumPrice	• Power • Publisher • Sort • Title

SearchIndex: Classical

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Classical", only the following parameters can be used in the request.

• Actor	• Format	• Performer

• Availability	• ItemPage	• PostalCode
• BrowseNode	• Keywords	• Sort
• Composer	• Magazines	• State
• Conductor	• MusicLabel	• Title
• Count	• Orchestra	

SearchIndex: DVD

In an `ItemSearch` request, when the *SearchIndex* parameter equals "DVD", only the following parameters can be used in the request.

• Actor	• Format	• PostalCode
• AudienceRating	• ItemPage	• Publisher
• Availability	• Keywords	• Sort
• BrowseNode	• Magazines	• State
• Count	• Performer	• Title
• Director		

SearchIndex: Electronics

In an `ItemSearch` request, when the *SearchIndex* parameter equals "VALUE", only the following parameters can be used in the request.

• Brand	• Keywords	• MinimumPrice
• BrowseNode	• MaximumPrice	• Sort
• Condition	• MerchantId	• Title
• ItemPage		

SearchIndex: ForeignBooks

In an `ItemSearch` request, when the *SearchIndex* parameter equals "ForeignBooks", only the following parameters can be used in the request.

• Author	• Keywords	• Publisher
• BrowseNode	• MaximumPrice	• Sort
• Condition	• MerchantId	• Title
• ItemPage	• MinimumPrice	

SearchIndex: HealthPersonalCare

In an `ItemSearch` request, when the *SearchIndex* parameter equals "HealthPersonalCare", only the following parameters can be used in the request.

• BrowseNode	• Manufacturer	• MinimumPrice
• Condition	• MaximumPrice	• Sort
• ItemPage	• MerchantId	• Title
• Keywords		

SearchIndex: Hobbies

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Hobbies", only the following parameters can be used in the request.

• BrowseNode	• Manufacturer	• MinimumPrice
• Condition	• MaximumPrice	• Sort
• ItemPage	• MerchantId	• Title
• Keywords		

SearchIndex: Kitchen

In an `ItemSearch` request, when the *SearchIndex* parameter equals "VALUE", only the following parameters can be used in the request.

• Brand	• Keywords	• MinimumPrice
• BrowseNode	• Manufacturer	• Sort
• Condition	• MaximumPrice	• Title
• ItemPage	• MerchantId	

SearchIndex: Music

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Music", only the following parameters can be used in the request.

• Artist	• ItemPage	• PostalCode
• Availability	• Keywords	• Sort
• BrowseNode	• Magazines	• State
• Count	• MusicLabel	• Title
• Format	• Performer	

SearchIndex: MusicTracks

In an `ItemSearch` request, when the `SearchIndex` parameter equals "MusicTracks", only the following parameters can be used in the request.

• Condition	• MaximumPrice	• MinimumPrice
• ItemPage	• MerchantId	• Sort
• Keywords		

SearchIndex: Software

In an `ItemSearch` request, when the `SearchIndex` parameter equals "Software", only the following parameters can be used in the request.

• Brand	• Keywords	• MinimumPrice
• BrowseNode	• MaximumPrice	• Sort
• Condition	• MerchantId	• Title
• ItemPage		

SearchIndex: SportingGoods

In an `ItemSearch` request, when the `SearchIndex` parameter equals "SportingGoods", only the following parameters can be used in the request.

• BrowseNode	• Manufacturer	• MinimumPrice
• Condition	• MaximumPrice	• Sort
• ItemPage	• MerchantId	• Title
• Keywords		

SearchIndex: Toys

In an `ItemSearch` request, when the `SearchIndex` parameter equals "Toys", only the following parameters can be used in the request.

• BrowseNode	• Manufacturer	• MinimumPrice
• Condition	• MaximumPrice	• Sort
• ItemPage	• MerchantId	• Title
• Keywords		

SearchIndex: VHS

In an `ItemSearch` request, when the *SearchIndex* parameter equals "VHS", only the following parameters can be used in the request.

• Actor • AudienceRating • Availability • BrowseNode • Count • Director	• Format • ItemPage • Keywords • Magazines • Performer	• PostalCode • Publisher • Sort • State • Title

SearchIndex: Video

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Video", only the following parameters can be used in the request.

• Actor • AudienceRating • Availability • BrowseNode • Count • Director	• Format • ItemPage • Keywords • Magazines • Performer	• PostalCode • Publisher • Sort • State • Title

SearchIndex: VideoGames

In an `ItemSearch` request, when the *SearchIndex* parameter equals "VideoGames", only the following parameters can be used in the request.

• Brand • BrowseNode • Condition • ItemPage	• Keywords • Manufacturer • MaximumPrice • MerchantId	• MinimumPrice • Sort • Title

SearchIndex: Watches

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Watches", only the following parameters can be used in the request.

• BrowseNode • Condition • ItemPage • Keywords	• MerchantId • MinimumPrice • Sort	• State • TextStream • Title

SearchIndex-ItemSearch Parameter Combinations for UK

This Search Index Matrix shows you which `ItemSearch` parameters may be used with each of the available *SearchIndex* values for the UK locale.

Contents

SearchIndex: Blended

- Keywords

SearchIndex: Apparel

In an `ItemSearch` request, when the *SearchIndex* parameter equals "apparel", only the following parameters can be used in the request.

• Author	• Format	• Performer

• Availability	• ISPUPostalCode	• PostalCode
• Brand	• ItemPage	• Sort
• BrowseNode	• Keywords	• State
• Condition	• Magazines	• Title
• Count	• Manufacturer	
• DeliveryMethod	• MerchantId	

SearchIndex: Baby

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Baby", only the following parameters can be used in the request.

• Author	• Format	• Performer
• Availability	• ISPUPostalCode	• PostalCode
• Brand	• ItemPage	• Sort
• BrowseNode	• Keywords	• State
• Condition	• Magazines	• Title
• Count	• Manufacturer	
• DeliveryMethod	• MerchantId	

SearchIndex: Books

In an `ItemSearch` request, when the *SearchIndex* parameter equals "VALUE", only the following parameters can be used in the request.

• Author	• Keywords	• Power
• BrowseNode	• MaximumPrice	• Publisher
• Condition	• MerchantId	• Sort
• ItemPage	• MinimumPrice	• Title

SearchIndex: Classical

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Classical", only the following parameters can be used in the request.

• Actor	• Format	• Performer
• Availability	• ItemPage	• PostalCode
• BrowseNode	• Keywords	• Sort
• Composer	• Magazines	• State
• Conductor	• MusicLabel	• Title

• Count	• Orchestra	

SearchIndex: DVD

In an `ItemSearch` request, when the `SearchIndex` parameter equals DVD", only the following parameters can be used in the request.

• Actor • AudienceRating • Availability • BrowseNode • Count • Director	• Format • ItemPage • Keywords • Magazines • Performer	• PostalCode • Publisher • Sort • State • Title

SearchIndex: Electronics

In an `ItemSearch` request, when the `SearchIndex` parameter equals Electronics", only the following parameters can be used in the request.

• Brand • BrowseNode • Condition • ItemPage	• Keywords • Manufacturer • MaximumPrice • MerchantId	• MinimumPrice • Sort • Title

SearchIndex: HealthPersonalCare

In an `ItemSearch` request, when the `SearchIndex` parameter equals "VALUE", only the following parameters can be used in the request.

• Brand • BrowseNode • Condition • ItemPage • Brand	• BrowseNode • Condition • ItemPage • Keywords • Manufacturer	• MaximumPrice • MerchantId • MinimumPrice • Sort • Title

SearchIndex: HomeGarden

In an `ItemSearch` request, when the `SearchIndex` parameter equals "HomeGarden", only the following parameters can be used in the request.

- Brand
- BrowseNode
- Condition
- ItemPage
- Keywords
- Manufacturer
- MaximumPrice
- MerchantId
- MinimumPrice
- Sort
- Title

SearchIndex: Kitchen

In an `ItemSearch` request, when the `SearchIndex` parameter equals "VALUE", only the following parameters can be used in the request.

• Brand	• Keywords	• MinimumPrice
• BrowseNode	• Manufacturer	• Sort
• Condition	• MaximumPrice	• Title
• ItemPage	• MerchantId	

SearchIndex: Music

In an `ItemSearch` request, when the `SearchIndex` parameter equals " Music", only the following parameters can be used in the request.

• Artist	• ItemPage	• PostalCode
• Availability	• Keywords	• Sort
• BrowseNode	• Magazines	• State
• Count	• MusicLabel	• Title
• Format	• Performer	

SearchIndex: MusicTracks

In an `ItemSearch` request, when the `SearchIndex` parameter equals "MusicTracks", only the following parameters can be used in the request.

• Condition • ItemPage • Keywords	• MaximumPrice • MerchantId	• MinimumPrice • Sort

SearchIndex: OutdoorLiving

In an `ItemSearch` request, when the *SearchIndex* parameter equals "OutdoorLiving", only the following parameters can be used in the request.

• Brand • BrowseNode • Condition • ItemPage	• Keywords • Manufacturer • MaximumPrice • MerchantId	• MinimumPrice • Sort • Title

SearchIndex: Software

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Software", only the following parameters can be used in the request.

• Brand • BrowseNode • Condition • ItemPage	• Keywords • Manufacturer • MaximumPrice • MerchantId	• MinimumPrice • Sort • Title

SearchIndex: SoftwareVideoGames

In an `ItemSearch` request, when the *SearchIndex* parameter equals "SoftwareVideoGames", only the following parameters can be used in the request.

• Brand • BrowseNode • Condition • ItemPage	• Keywords • Manufacturer • MaximumPrice • MerchantId	• MinimumPrice • Sort • Title

SearchIndex: Toys

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Toys", only the following parameters can be used in the request.

• Brand	• Keywords	• MinimumPrice
• BrowseNode	• Manufacturer	• Sort
• Condition	• MaximumPrice	• Title
• ItemPage	• MerchantId	

SearchIndex: VHS

In an `ItemSearch` request, when the `SearchIndex` parameter equals "VHS", only the following parameters can be used in the request.

• Actor	• Format	• PostalCode
• AudienceRating	• ItemPage	• Publisher
• Availability	• Keywords	• Sort
• BrowseNode	• Magazines	• State
• Count	• Performer	• Title
• Director		

SearchIndex: Video

In an `ItemSearch` request, when the `SearchIndex` parameter equals "VALUE", only the following parameters can be used in the request.

• Actor	• Format	• PostalCode
• AudienceRating	• ItemPage	• Publisher
• Availability	• Keywords	• Sort
• BrowseNode	• Magazines	• State
• Count	• Performer	• Title
• Director		

SearchIndex: VideoGames

In an `ItemSearch` request, when the `SearchIndex` parameter equals "VALUE", only the following parameters can be used in the request.

• Brand	• Keywords	• MinimumPrice
• BrowseNode	• Manufacturer	• Sort
• Condition	• MaximumPrice	• Title
• ItemPage	• MerchantId	

SearchIndex: Watches

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Watches", only the following parameters can be used in the request.

• BrowseNode • Condition • ItemPage • Keywords	• MerchantId • MinimumPrice • Sort	• State • TextStream • Title

SearchIndex-ItemSearch Parameter Combinations for US

This Search Index Matrix shows you which `ItemSearch` parameters may be used with each of the available *SearchIndex* values for the US locale.

Contents

- All
- Apparel
- Automotive
- Baby
- Beauty
- Blended
- Books
- Classical
- DigitalMusic
- DVD
- Electronics
- GourmetFood
- HealthPersonalCare
- HomeGarden
- Industrial
- Jewelry
- KindleStore
- Kitchen
- Magazines
- Merchants
- Miscellaneous
- MP3Downloads
- Music
- MusicalInstruments
- MusicTracks
- OfficeProducts
- OutdoorLiving

- PCHardware
- PetSupplies
- Photo
- SilverMerchants
- Software
- SportingGoods
- Tools
- Toys
- UnboxVideo
- VHS
- Video
- VideoGames
- Watches
- Wireless
- WirelessAccessories

SearchIndex: All

In `ItemSearch` request, when *SearchIndex* equals "All", only the following parameters can be used in a request.

- Keywords

SearchIndex: Apparel

In an `ItemSearch` request, when the *SearchIndex* parameter equals "apparel", only the following parameters can be used in the request.

• Brand • BrowseNode • Condition	• ItemPage • Keywords • Manufacturer • MaximumPrice • MerchantId	• MinimumPrice • Sort • State • TextStream • Title

SearchIndex: Automotive

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Automotive", only the following parameters can be used in the request.

• Brand • BrowseNode • Condition	• ItemPage • Keywords • Manufacturer • MaximumPrice • MerchantId	• MinimumPrice • Sort • State • TextStream • Title

SearchIndex: Baby

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Baby", only the following parameters can be used in the request.

• Brand • BrowseNode • Condition	• ItemPage • Keywords • Manufacturer • MaximumPrice	• MerchantId • MinimumPrice • Sort • State • Title

SearchIndex: Beauty

In an `ItemSearch` request, when the *SearchIndex* parameter equals " Beauty", only the following parameters can be used in the request.

• Brand • BrowseNode • Condition	• ItemPage • Keywords • Manufacturer • MaximumPrice	• MerchantId • MinimumPrice • Sort • Title

SearchIndex: Blended

• Keywords

SearchIndex: Books

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Books", only the following parameters can be used in the request.

• Author • BrowseNode • Condition	• ItemPage • Keywords • MaximumPrice • MerchantId • MinimumPrice	• Power • Publisher • Sort • State • TextStream • Title

SearchIndex: Classical

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Classical", only the following parameters can be used in the request.

• Artist	• Count	• Orchestra
• Author	• Format	• Performer
• Availability	• ItemPage	• PostalCode
• BrowseNode	• Keywords	• Sort
• Composer	• Magazines	• State
• Conductor	• MusicLabel	• Title

SearchIndex: DigitalMusic

In an `ItemSearch` request, when the *SearchIndex* parameter equals "DigitalMusic", only the following parameters can be used in the request.

• Actor	• Keywords	• Sort
• BrowseNode	• MaximumPrice	• State
• Condition	• MerchantId	• Title
• Director	• MinimumPrice	
• ItemPage		

SearchIndex: MP3Downloads

In an `ItemSearch` request, when the *SearchIndex* parameter equals "MP3Downloads", only the following parameters can be used in the request.

- Browsenode
- Keyword
- Title

SearchIndex: DVD

In an `ItemSearch` request, when the *SearchIndex* parameter equals "DVD", only the following parameters can be used in the request.

• Actor	• Format	• PostalCode
• AudienceRating	• ItemPage	• Publisher
• Availability	• Keywords	• Sort
• BrowseNode	• Magazines	• State
• Count	• Performer	• Title
• Director		

SearchIndex: Electronics

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Electronics", only the following parameters can be used in the request.

• BrowseNode • Condition	• ItemPage • Keywords • Manufacturer • MaximumPrice	• MerchantId • MinimumPrice • Sort • State • TextStream • Title

SearchIndex: GourmetFood

In an `ItemSearch` request, when the *SearchIndex* parameter equals "GourmetFood", only the following parameters can be used in the request.

• BrowseNode • ItemPage	• Keywords • MaximumPrice • MerchantId • MinimumPrice	• Sort • State • TextStream • Title

SearchIndex: HealthPersonalCare

In an `ItemSearch` request, when the *SearchIndex* parameter equals "HealthPersonalCare", only the following parameters can be used in the request.

• Brand • BrowseNode • Condition	• Manufacturer • MaximumPrice • MerchantId • MinimumPrice	• ItemPage • Keywords • Sort • State • Title

SearchIndex: HomeGarden

- Brand
- BrowseNode
- Condition
- ItemPage
- Keywords

- Manufacturer
- MaximumPrice
- MerchantId
- MinimumPrice
- Sort
- Title

SearchIndex: Industrial

- BrowseNode
- Keywords
- Manufacturer
- Title

SearchIndex: Jewelry

In an `ItemSearch` request, when the `SearchIndex` parameter equals "Jewelry", only the following parameters can be used in the request.

• BrowseNode	• MaximumPrice	• State
• Condition	• MerchantId	• TextStream
• ItemPage	• MinimumPrice	• Title
• Keywords	• Sort	

SearchIndex: KindleStore

- Author
- BrowseNode
- Condition
- ItemPage
- Keywords
- MaximumPrice
- MerchantId
- MinimumPrice
- Power
- Publisher
- Sort
- TextStream
- Title

SearchIndex: Kitchen

In an `ItemSearch` request, when the `SearchIndex` parameter equals "Kitchen", only the following parameters can be used in the request.

• Brand	• MaximumPrice	• Keywords
• BrowseNode	• MerchantId	• Sort
• Condition	• MinimumPrice	• State
• Manufacturer	• ItemPage	• Title

SearchIndex: Magazines

In an `ItemSearch` request, when the `SearchIndex` parameter equals "Magazines", only the following parameters can be used in the request.

• BrowseNode	• ItemPage	• MinimumPrice
• Condition	• Keywords	• Publisher
	• MaximumPrice	• State
	• MerchantId	• Sort
		• Title

SearchIndex: Merchants

In an `ItemSearch` request, when the `SearchIndex` parameter equals "Merchants", only the following parameters can be used in the request.

• Keywords	• AudienceRating	• Conductor
• Title	• Manufacturer	• City
• BrowseNode	• MusicLabel	• Neighborhood
• Artist	• Composer	• Orchestra
• Author	• Publisher	• TextStream
• Actor	• Brand	
• Director		

SearchIndex: Miscellaneous

In an `ItemSearch` request, when the `SearchIndex` parameter equals "Miscellaneous", only the following parameters can be used in the request.

• Brand	• ItemPage	• MerchantId
• BrowseNode	• Keywords	• MinimumPrice
• Condition	• MaximumPrice	• Sort
		• State
		• Title

SearchIndex: Music

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Music", only the following parameters can be used in the request.

• Artist	• ItemPage	• PostalCode
• Availability	• Keywords	• Sort
• BrowseNode	• Magazines	• State
• Count	• MusicLabel	• Title
• Format	• Performer	

SearchIndex: MusicalInstruments

In an `ItemSearch` request, when the *SearchIndex* parameter equals "MusicalInstruments", only the following parameters can be used in the request.

• Brand	• MaximumPrice	• ItemPage
• BrowseNode	• MerchantId	• Keywords
• Condition	• MinimumPrice	• Sort
• Manufacturer		• Title

SearchIndex: MusicTracks

In an `ItemSearch` request, when the *SearchIndex* parameter equals "MusicTracks", only the following parameters can be used in the request.

• Condition	• Keywords	• MinimumPrice
• ItemPage	• MaximumPrice	• Sort
	• MerchantId	• State

SearchIndex: OfficeProducts

In an `ItemSearch` request, when the *SearchIndex* parameter equals "OfficeProducts", only the following parameters can be used in the request.

• Brand	• MaximumPrice	• Keywords
• BrowseNode	• MerchantId	• Sort
• Condition	• MinimumPrice	• State

• Manufacturer	• ItemPage	• Title

SearchIndex: OutdoorLiving

In an `ItemSearch` request, when the *SearchIndex* parameter equals "OutdoorLiving", only the following parameters can be used in the request.

• Brand	• MaximumPrice	• Keywords
• BrowseNode	• MerchantId	• Sort
• Condition	• MinimumPrice	• State
• Manufacturer	• ItemPage	• Title

SearchIndex: PCHardware

In an `ItemSearch` request, when the *SearchIndex* parameter equals "PCHardware", only the following parameters can be used in the request.

• Brand	• MaximumPrice	• Keywords
• BrowseNode	• MerchantId	• Sort
• Condition	• MinimumPrice	• State
• Manufacturer	• ItemPage	• Title

SearchIndex: PetSupplies

In an `ItemSearch` request, when the *SearchIndex* parameter equals "PetSupplies", only the following parameters can be used in the request.

• Author	• ItemPage	• MerchantId
• Brand	• Keywords	• MinimumPrice
• BrowseNode	• Manufacturer	• Sort
• Condition	• MaximumPrice	• State
• Count		• Title

SearchIndex: Photo

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Photo", only the following parameters can be used in the request.

• Brand	• MerchantId	• State
• BrowseNode	• MinimumPrice	• TextStream
• Condition	• ItemPage	• Title
• Manufacturer	• Keywords	
• MaximumPrice	• Sort	

SearchIndex: SilverMerchants

In an `ItemSearch` request, when the *SearchIndex* parameter equals "SilverMerchants", only the following parameters can be used in the request.

• Keywords	• AudienceRating	• Conductor
• Title	• Manufacturer	• City
• BrowseNode	• MusicLabel	• Neighborhood
• Artist	• Composer	• Orchestra
• Author	• Publisher	• TextStream
• Actor	• Brand	
• Director		

SearchIndex: Software

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Software", only the following parameters can be used in the request.

• Brand	• MaximumPrice	• Keywords
• BrowseNode	• MerchantId	• Sort
• Condition	• MinimumPrice	• State
• Manufacturer	• ItemPage	• Title

SearchIndex: SportingGoods

In an `ItemSearch` request, when the *SearchIndex* parameter equals "SportingGoods", only the following parameters can be used in the request.

• Brand	• Keywords	• MinimumPrice
• BrowseNode	• Manufacturer	• Sort
• Condition	• MaximumPrice	• State
• ItemPage	• MerchantId	• Title

SearchIndex: Tools

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Tools", only the following parameters can be used in the request.

• Brand	• Keywords	• MinimumPrice
• BrowseNode	• Manufacturer	• Sort
• Condition	• MaximumPrice	• State
• ItemPage	• MerchantId	• Title

SearchIndex: Toys

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Toys", only the following parameters can be used in the request.

• BrowseNode	• ItemPage	• MerchantId
• Condition	• Keywords	• MinimumPrice
	• MaximumPrice	• Sort
		• State
		• TextStream
		• Title

SearchIndex: UnboxVideo

In an `ItemSearch` request, when the *SearchIndex* parameter equals "UnboxVideo", only the following parameters can be used in the request.

• Actor	• ItemPage	• MPAARating
• BrowseNode	• Keywords	• Publisher
• Condition	• MaximumPrice	• Sort
• Director	• MerchantId	• State
	• MinimumPrice	• TextStream
		• Title

SearchIndex: VHS

In an `ItemSearch` request, when the *SearchIndex* parameter equals "VHS", only the following parameters can be used in the request.

• Actor	• Format	• PostalCode

• AudienceRating	• ItemPage	• Publisher
• Availability	• Keywords	• Sort
• BrowseNode	• Magazines	• State
• Count	• Performer	• Title
• Director		

SearchIndex: Video

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Video", only the following parameters can be used in the request.

• Actor	• Format	• PostalCode
• AudienceRating	• ItemPage	• Publisher
• Availability	• Keywords	• Sort
• BrowseNode	• Magazines	• State
• Count	• Performer	• Title
• Director		

SearchIndex: VideoGames

In an `ItemSearch` request, when the *SearchIndex* parameter equals "VideoGames", only the following parameters can be used in the request.

• Brand	• Keywords	• Sort
• BrowseNode	• Manufacturer	• State
• Condition	• MaximumPrice	• TextStream
• ItemPage	• MerchantId	• Title
	• MinimumPrice	

SearchIndex: Watches

In an `ItemSearch` request, when the *SearchIndex* parameter equals "Watches", only the following parameters can be used in the request.

• BrowseNode	• MerchantId	• State
• Condition	• MinimumPrice	• TextStream
• ItemPage	• Sort	• Title
• Keywords		

SearchIndex: Wireless

In an `ItemSearch` request, when the `SearchIndex` parameter equals "Wireless", only the following parameters can be used in the request.

• BrowseNode • Condition • ItemPage	• Keywords • MaximumPrice • MerchantId • MinimumPrice	• Sort • State • Title

SearchIndex: WirelessAccessories

In an `ItemSearch` request, when the `SearchIndex` parameter equals "WirelessAccessories", only the following parameters can be used in the request.

• BrowseNode • Condition • ItemPage	• Keywords • MaximumPrice • MerchantId	• MinimumPrice • Sort • Title

Search Index Support by Locale

The following table provides a list of the search indices available by locale. A check mark in the following table indicates that a search index is available in a particular locale.

☞ **Note**

All search index names are case-sensitive.

Search Index Name	US	UK	DE	JP	FR	CA
All	✓					
Apparel	✓	✓	✓	✓		
Automotive	✓					
Baby	✓	✓	✓	✓		
Beauty	✓			✓		
Blended						

Search Index Name	US	UK	DE	JP	FR	CA
	✓	✓	✓	✓	✓	✓
Books	✓	✓	✓	✓	✓	✓
Classical	✓	✓	✓	✓	✓	✓
DigitalMusic	✓					
DVD	✓	✓	✓	✓	✓	✓
Electronics	✓	✓	✓	✓	✓	
ForeignBooks			✓	✓	✓	✓
GourmetFood	✓					
Grocery	✓					
HealthPersonalCare	✓	✓	✓	✓		
Hobbies				✓		
HomeGarden	✓	✓	✓			
Industrial	✓					
Jewelry	✓					
KindleStore	✓					
Kitchen	✓	✓	✓	✓	✓	
Magazines	✓		✓			
Merchants	✓					
Miscellaneous	✓					

Search Index Name	US	UK	DE	JP	FR	CA
MP3Downloads	✓					
Music	✓	✓	✓	✓	✓	✓
MusicalInstruments	✓					
MusicTracks	✓	✓	✓	✓	✓	
OfficeProducts	✓					
OutdoorLiving	✓	✓	✓			
PCHardware	✓		✓			
PetSupplies	✓					
Photo	✓		✓			
SilverMerchant	✓					
Software	✓	✓	✓	✓	✓	✓
SoftwareVideoGames		✓	✓		✓	✓
SportingGoods	✓	✓	✓	✓		
Tools	✓	✓	✓			
Toys	✓	✓	✓	✓	✓	
VHS	✓	✓	✓	✓	✓	✓
Video	✓	✓	✓	✓	✓	✓
VideoGames	✓	✓	✓	✓	✓	✓
Watches	✓	✓	✓		✓	

Search Index Name	US	UK	DE	JP	FR	CA
Wireless	✓					
WirelessAccessories	✓					

Browse Node IDs

The following table presents browse node IDs by search index and locale. These IDs represent the top level browse nodes only, You can use these IDs in a `BrowseNodeLookup` request to get additional browse node IDs. These IDs were valid as of the publication date of this guide.

	CA	DE	FR	JP	UK	US
All						1036682
Apparel		16435121		361245011	319532011	1036682
Automotive						15690151
Baby					60033031	165797011
Beauty						11055981
Blended	962454	3169011	57988031	562032	595312	1063498
Books	927726	541686	301130	465610	1025612	1000
Classical	962454	542676	301164	562034	520920	301668
DigitalMusic						301668
DVD		547664	409392	562002	283926	130
Electronics		578112	13910671	3510411	564514	13900851
ForeignBooks	927726	54071011	69633011	465610		
GourmetFood						114302011
Grocery						16310211
HealthPersonalCare		569604		161669011	11052591	3760931
Hobbies				13331821		
HomeGarden		3312411			11052591	1063498
Industrial						228013
Jewelry						3880591
KindleStore						1000
Kitchen		3169011	57988031	11717941	11052591	1063498
Magazines		1198526				44264011
Merchants						44263011

	CA	DE	FR	JP	UK	US
Miscellaneous						10304191
MP3Downloads						195208011
Music	962454	542676	301164	562032	520920	301668
MusicalInstruments						11965861
MusicTracks		542676	301164	562032	520920	44259011
OfficeProducts						1084128
OutdoorLiving		10925241			11052591	13900831
PCHardware		569604				493964
PetSupplies						1063498
Photo		569604				13900861
Software	3234171	542064	547972	637630	1025614	409488
SoftwareVideoGames	110218011	542064	548014		1025616	
SportingGoods		12950661		361245011	319532011	3375301
Tools					11052591	228013
Toys		12950661		13331821	560800	130
UnboxVideo						16261641
VHS	962072	736276	301176	561972	573398	404272
Video	952768	547664	409392	562002	283926	130
VideoGames	110218011	569604	548014	1060426	1025616	44263011
Watches		327473011	60937031	331952011	328229011	3880591
Wireless						408234
WirelessAccessories						408234

<u>Glossary</u>

A

Access Key ID	An alphanumeric token that uniquely identifies a request sender. This ID is associated with your Secret Access Key.
accessory	An related items, such as a camera, its carrying case and USB cord.
active area	In a shopping cart, this area contains the items that are ready to be purchased.
Amazon marketplace	The feature by which Amazon relates seller items directly to retail catalog items and content. This feature leverages the retail buying experience and content to third-party seller items. .
ASIN	(Amazon Standard Item Number) An alphanumeric token generated and assigned by Amazon that uniquely identifies an item for sale by Amazon. ASINs are unique within a locale, not across locales..

B

buyer	A person(s) agreeing to exchange money for an item delivered by a seller.

C

collection	An ensemble of related items, such as a coordinated set of sheets, pillow cases, and curtains.

D

E

F

G

H

I

ISBN	(International Standardized Book Number) An alphanumeric token that uniquely identifies a book. A book's EAN is typically set equal to the book's ISBN

J

JAN	(Japanese Article Number) The equivalent of the EAN that is used in Japan for products and barcodes.

K

L

locale	A region in which Amazon Associates Web Service is offered. In each locale, Amazon Associates Web Service offers support in the local language, currency, customs, and local shipping. Currently, there are six locales: CA, DE, FR, JP, UK, and US.

M

merchant	For the purposes of this document, a merchant is a third party who is selling on the Amazon.com web site but handles their own fulfillment. Merchants help expand the Amazon.com catalog of sellable items by providing Product Data for products Amazon.com currently has no data on, or relate their products to products already identified in the Amazon retail catalogs. Examples include Circuit City (both from a drop ship and in-store pickup point of view) and Ingram Micro (PC Store). For the purposes of the Bulk DP Creation project, "Merchant" does not include Toys R Us (since we carry all of their online inventory in our DCs).

marketplace	a place, physical or otherwise, where merchants offer goods for sale, and customers accept offers, place orders and make purchases. It is the logical container for all data and attributes associated with an eCommerce site. A marketplace is identified by a globally unique MarketplaceId. Marketplaces may be specific to data centers, but they should be considered global. They have a default language code and currency code, but they should be considered capable of multi-lingual and multi-currency support in designs. Only Amazon's Marketplaces are country-specific due to legacy reasons.
MarketplaceId	An alphanumeric token that identifies a locale, for example, DE: A1PA6795UKMFR9), FR: A13V1IB3VIYZZH, or a large merchant, for example, Amazon: ATVPDKIKX0DER.

N

O

offer	Item offered for sale. An offer is not associated with a merchant.
Offering	Offerings are the specific instances of a Merchant's possible stock items. A Merchant "can" have unique offerings for each product they carry and have either. A specific quantity associated with each product A stock availability state {In-Stock, Out-Of-Stock, Back-Ordered, Discontinued, Obsolete, On-Order, etc?} Saleable status is determined by positive inventory states of available quantity > 0, or ?In stock?. Offerings will have transactional rules (max quantity purchasable), condition types ('new', 'used'), and tax codes associated with them An offering is not a buyable entity on its own. An offering with an immediate availability relationship can be purchased. An Offering with a delayed availability relationship can only be ordered.
OfferListing	An item offered for sale by a specific seller or merchant.This is the inventory level specific buyable entity. It ties the merchant/customer, item, item location, pricing, and availability together. These currently represent items ?in-stock? that are essentially shipped at point of sale.

P

Product	Something offered for sale. Each product has an ASIN. There may be many offerings for a particular product. Product is synonymous with "item".

Q

R

S

SaveForLater	Contains items that a customer has chosen to buy but are currently unavailable, or items that a customer has designated they want to save and buy later.
Secret Access Key	A key assigned to you by Amazon Web Services (AWS) when you sign up for an AWS account. Used for request authentication.
seller	Sellers are individuals or companies that sell their own items. For most sellers, the items they sell must already be for sale on Amazon. The exception is the Amazon Advantage seller, who sells items that are not on Amazon.
Seller Central	A web site that allows merchants to manage their web sites and listings. Go to http://sellercentral.amazon.com
Single Detail Page (SDP)	The purpose of Single Detail Page is to expose, for any given retail ASIN, all instances of a product that can be purchased from the Amazon.com site. The display for an ASIN would incorporate links to alternate purchase channels for the same item. For example a books detail page would list a new book from Amazon.com and used/rare/collectable editions from fixed price MarketPlace sellers.
SKU	(Stock Keeping Unit) A merchant-specific identifier for a purchasable good, like a shirt or chair. Amazon's version of the SKU is the ASIN.

T

U

UPC	(Universal Product Code) A 12-digit item identifier used in the US and CA locales. The UPC is identifier used in barcodes.

V

variant	A single version of a given product that has variations. A variant is an item defined by its product, and the unique set of property values from each property in the full set of required properties for that item.
variation	Different versions of a given product. If a pair of pants is available in khaki and olive, then the pants are said to have two variations. Variations are one of the two types of product relationships we support (ensembles is the other).

W

X

Y

Z

Document Conventions

This section lists the common typographical and symbol use conventions for AWS technical publications.

Typographical Conventions

This section describes common typographical use conventions.

Convention	Description/Example
Call-outs	A call-out is a number in the body text to give you a visual reference. The reference point is for further discussion elsewhere. You can use this resource regularly.
Code in text	Inline code samples (including XML) and commands are identified with a special font. You can use the command `java -version`.
Code blocks	Blocks of sample code are set apart from the body and marked accordingly. ```# ls -l /var/www/html/index.html -rw-rw-r-- 1 root root 1872 Jun 21 09:33 / var/www/html/index.html # date Wed Jun 21 09:33:42 EDT 2006```
Emphasis	Unusual or important words and phrases are marked with a special font. You *must* sign up for an account before you can use the service.
Internal cross references	References to a section in the same document are marked. See ???.
Logical values, constants, and regular expressions, abstracta	A special font is used for expressions that are important to identify, but are not code. If the value is `null`, the returned response will be `false`.

Convention	Description/Example
Product and feature names	Named AWS products and features are identified on first use. Create an *Amazon Machine Image* (AMI).
Operations	In-text references to operations. Use the `GetHITResponse` operation.
Parameters	In-text references to parameters. The operation accepts the parameter `AccountID`.
Response elements	In-text references to responses. A container for one `CollectionParent` and one or more `CollectionItems`.
Technical publication references	References to other AWS publications. If the reference is hyperlinked, it is also underscored. For detailed conceptual information, see the *Amazon Mechanical Turk Developer Guide*.
User entered values	A special font marks text that the user types. At the password prompt, type **MyPassword**.
User interface controls and labels	Denotes named items on the UI for easy identification. On the **File** menu, click **Properties**.
Variables	When you see this style, you must change the value of the content when you copy the text of a sample to a command line. % ec2-register `<your-s3-bucket>`/image.manifest See also the following symbol convention.

Symbol Conventions

This section describes the common use of symbols.

Convention	Symbol	Description/Example
Mutually exclusive parameters	(Parentheses | and | vertical | bars)	Within a code description, bar separators denote options from which one must be chosen. `% data = hdfread (start | stride | edge)`

Optional parameters XML variable text	[square brackets]	Within a code description, square brackets denote completely optional commands or parameters.
		
		`% sed [-n, -quiet]`
		
		Use square brackets in XML examples to differentiate them from tags.
		
		`<CustomerId>[ID]</CustomerId>`

Variables	<arrow brackets>	Within a code sample, arrow brackets denote a variable that must be replaced with a valid value. `% ec2-register <your-s3-bucket>/image.manifest`

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