

Introduction

The SAGE® DataStream™ is a full-featured API designed to give promotional products distributors direct access to the vast SAGE product and supplier database in order to implement customized end-user search tools. Unlike our other research tools that are turn-key solutions, the DataStream was specifically developed for complete customization and integration into a distributor's own architecture.

The DataStream is an Internet-based interface that uses XML structured queries to obtain information.

The **Website DataStream** is used to integrate full product searching into your own website. There are several types of actions that can be made. Each action will return data in XML format, which you can then parse and use in your application as necessary. The web interface, e-commerce functionality, and other parts of your site are your responsibility. If you are looking for a turn-key solution instead of developing your own application, take a look at our SAGE PromoSearch™ product.

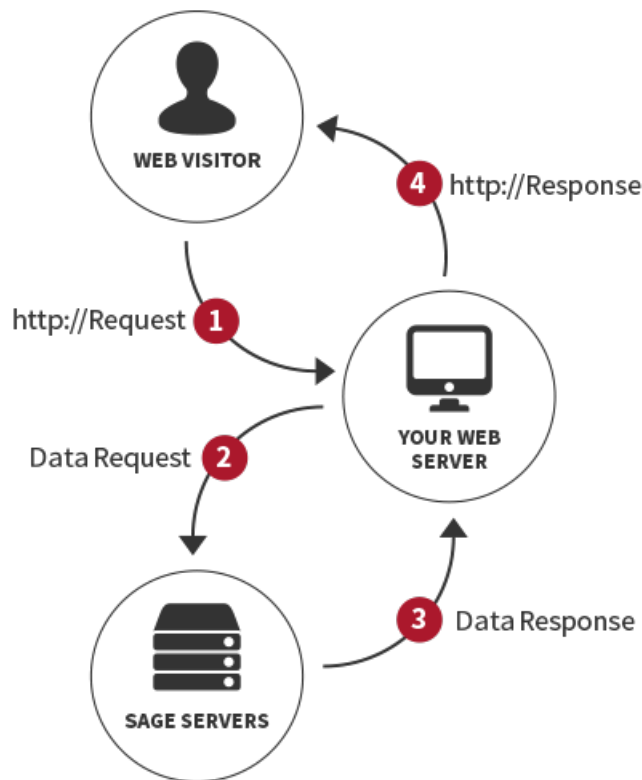
The information is obtained from our services in real-time as your application requires it. In general, storage of the data to be used for future database queries is prohibited so that your application will always have the most up-to-date information possible. Please see the license agreement for details. Local caching capability is available at an additional charge for specific applications that require it for a specific reason – but that is not a recommended solution in most cases.

Please keep in mind that in order to use and implement the DataStream, you will need general web programming expertise including sockets, XML, parsing, etc. Using the DataStream requires programming knowledge, not just web design knowledge. This guide and the DataStream in general are designed for experienced software developers.

We provide a collection of sample data (requests and responses) to allow you to take a look at some data before you begin your own implementation. The sample data is hyperlinked from the Knowledge Base article that contains this Developer's Guide.

Preparing Your Application

The first step to using the DataStream is to create a pipe to be used for communication with the SAGE servers. The pipe will be used in the background (i.e., separate from the connection from the web browser) in order to obtain data from the SAGE servers.



Each request is made using a standard HTTP POST with the request data being contained in an XML structure as the request's content. You can use any programming language and component that you wish to implement the connection to the SAGE server. Implementations are possible with ASP, Visual Basic, Perl, C/C++, Java, and any other language that is capable of creating a socket connection. Connections are made over the standard HTTPS port (port 443) using an encrypted connection. Based on current security recommendations and best practices, connections must be encrypted using **TLS 1.1 or TLS 1.2** (not SSL or TLS 1.0). Because your user ID and password are sent across the Internet with each request, you must use a secure SSL connection over port 443. Please see the Authentication section below regarding setting up a specific user name and password for the DataStream.

The requests should be submitted as posts to the following address:

```
https://www.promoplace.com/ws/ws.d11/XMLDataStream
```

No parameters are required in the query string because all of the necessary parameters are passed as part of the XML data that will be sent as the post request's content.

Authentication

Each request sent to the server must be accompanied with an Account #, Login ID, and password. This information is used to identify the request for authentication, access control and logging purposes.

Do not use your administrator account number and password for DataStream authentication. Instead, you should set up a specific user name and password that is used only for the DataStream access.

To setup a specific user name and password for DataStream access, visit www.SAGEmember.com and login with your

administrator login ID and password. Click the Users tab. Add a new user called “DataStream User” and assign a login ID and a password for the user. At the bottom of the page, give the user only rights to access "API" only. Then, set the “AcctID” field in your request to your SAGE account number, the “LoginID” to your user’s login ID, and “Password” to your user’s login password.

Submitting Queries

The following query actions can be made to the system:

Query Action	XML Website DataStream
CategoryList	Yes
ThemeList	Yes
SupplierList	Yes
Search	Yes
ProductDetail	Yes
SupplierInfo	Yes
SupplierProductDataDump	Yes (Local Cache Only)
SigStoreProducts	Yes

Each of the foregoing queries is further described below.

Product Category List (CategoryList)

The “CategoryList” query is used to obtain SAGE’s current category list, including the category name and the related category number. The list can be used to display a category list to your web visitors and/or to internally determine the SAGE category number for a given category. The category number is passed into the search query if you choose to search by category.

Request Structure:

Field name	Description	Type	Length	Required	Notes
Ver	API version	Float		*	
Auth	Authentication information	Auth Record		*	
CategoryList	Category list information	String		*	

Auth Record:

Field name	Description	Type	Length	Required	Notes
AcctID	Account number	Int		*	
LoginID	Login ID	String		*	
Password	Password	String		*	

CategoryList Record:

Field name	Description	Type	Length	Required	Notes
GetList	List type	Int		*	
Sort	Sort method (NAME or CATNUM)	String			

Notes:

- The Sort parameter tells the server in what order to send back the category list. The two options are sort by the category name or sort by the category number. If you are going to populate a drop-down or select list with the category list, you should use “NAME”

to sort by category name.

```
<?xml version="1.0" encoding="UTF-8"?>
<XMLDataStreamRequest>
  <Ver>3.2</Ver>
  <Auth>
    <AcctID>XXXXXX</AcctID>
    <LoginID>XXXXXXXX</LoginID>
    <Password>*****</Password>
  </Auth>
  <CategoryList>
    <GetList>1</GetList>
    <Sort>NAME</Sort>
  </CategoryList>
</XMLDataStreamRequest>
```

Response Structure:

Field name	Description	Type	Length	Required	Notes
Ver	API version	Float		*	
CategoryList	CategoryList Record	String		*	

CategoryList Record:

Field name	Description	Type	Length	Required	Notes
Category	Category	String			

Category Record:

Field name	Description	Type	Length	Required	Notes
Num	Category number	String			
Name	Category name	String			

Notes:

- The “Num” field returns the category number associated with the category with the label specified in the “Name” field. For example, Num would return “123” for the category “Flashlights”. The category numbers are three digit numbers between 001 and 899.
- If you have removed categories using the Search Restrictions area in sagemember.com, those removed categories will not show up in the category list response.

```

<?xml version="1.0" encoding="UTF-8"?>
<XMLDataStreamResponse>
  <Ver>3.2</Ver>
  <LegalNote>USE SUBJECT TO TERMS OF YOUR AGREEMENT.  UNAUTHORIZED USE PROHIBITED.  SUPPLIER INFORMATION IS CONFIDENTIAL.  (C) 2016 QUICK TECHNOLOGIES INC.</LegalNote>
  <CategoryList>
    <Category>
      <Num>224</Num>
      <Name>Address Books</Name>
    </Category>
    ...
    <Category>
      <Num>309</Num>
      <Name>Zipper Pulls</Name>
    </Category>
  </CategoryList>
</XMLDataStreamResponse>

```

Product Theme List (ThemeList)

The “CategoryList” query is used to obtain SAGE’s current category list, including the category name and the related category number. The list can be used to display a category list to your web visitors and/or to internally determine the SAGE category number for a given category. The category number is passed into the search query if you choose to search by category.

Request Structure:

Field name	Description	Type	Length	Required	Notes
Ver	API version	Float		*	
Auth	Authentication information	Auth Record		*	
ThemeList	Theme list information	String		*	

Auth Record:

Field name	Description	Type	Length	Required	Notes
AcctID	Account number	Int		*	
LoginID	Login ID	String		*	
Password	Password	String		*	

ThemeList Record:

Field name	Description	Type	Length	Required	Notes
GetList	List type	Int		*	

Notes:

- The Sort parameter tells the server in what order to send back the category list. The two options are sort by the category name or sort by the category number. If you are going to populate a drop-down or select list with the category list, you should use “NAME” to sort by category name.

```
<?xml version="1.0" encoding="UTF-8"?>
<XMLDataStreamRequest>
  <Ver>3.2</Ver>
  <Auth>
    <AcctID>XXXXXX</AcctID>
    <LoginID>XXXXXXXX</LoginID>
    <Password>*****</Password>
  </Auth>
  <ThemeList>
    <GetList>1</GetList>
  </ThemeList>
</XMLDataStreamRequest>
```

Response Structure:

Field name	Description	Type	Length	Required	Notes
Ver	API version	Float		*	
CategoryList	CategoryList Record	String		*	

ThemeList Record:

Field name	Description	Type	Length	Required	Notes
Theme	Theme name	String		*	

```
<?xml version="1.0" encoding="UTF-8"?>
<XMLDataStreamResponse>
  <Ver>3.2</Ver>
  <LegalNote>USE SUBJECT TO TERMS OF YOUR AGREEMENT. UNAUTHORIZED USE PROHIBITED. SUPPLIER INFORMATION IS CONFIDENTIAL. (C) 2016 QUICK TECHNOLOGIES INC.</LegalNote>
  <ThemeList>
    <Theme>3D</Theme>
    ...
    <Theme>Writing</Theme>
  </ThemeList>
</XMLDataStreamResponse>
```

Product Search (Search)

The “Search” query is used to perform a product search and return the results of the search. You should implement your own search page for your site and then create an XML string based on the input you receive from the web visitor. That stream is then passed to our servers for processing. You will receive a stream back containing the search results, which you can then process and display to the web visitor in an appropriate manner.

Request Structure

Field name	Description	Type	Length	Required	Notes
Ver	API version	Float		*	
Auth	Authentication information	Auth Record		*	
Search	Search Record	String		*	

Auth Record:

Field name	Description	Type	Length	Required	Notes
AcctID	Account number	Int		*	
LoginID	Login ID	String		*	

Field name	Description	Type	Length	Required	Notes
Password	Password	String		*	

Search Record:

Field name	Description	Type	Length	Required	Notes
Categories	Category Name or Number	String			
Keywords	Product Keywords	String			
Colors	Product Colors	String			
Themes	Product Themes	String			
QuickSearch	Quicksearch Input	String			
SPC	SAGE Product Code or SAGE ID	String			
ItemNum	Product's Actual Item Number	String			
ItemName	Product's Item Name	String			
PriceLow	Lowest Price in USD	Currency			
PriceHigh	Highest Price in USD	Currency			
Qty	Quantity	Int			
Verified	Verified Products	Bool			
Recyclable	Recyclable Products	Bool			
EnvFriendly	Environmental Friendly Products	Bool			
NewProduct	New Products Only	Bool			
UnionShop	Products Produced by a Union Shop	Bool			
AllAudiences	All Audiences	Bool			
Popular	All Audiences	Bool			
Fresh	Fresh ideas	Bool			
Timely	Timely products	Bool			
QCA	QCA-Certified Products	Bool			
ProdTime	Minimum production time in working days or '0' for any	Int			
IncludeRush	Include rush shipment	Bool			
MadeIn	Country made in. Blank for all or two-digit country code	String			
PrefGroups	Preference Groups. Blank=All or comma-separated list of numbers	String			
LineName	Specific Supplier's Line Name	String			
SiteCountry	Site country code (if diff from acct)	String			
Sort	Sort order for the products in the response	String			
ExtraReturnFields	Return additional fields in the response string	String			
StartNum	Record number to start with (1=FIRST)	Int			
MaxRecs	Max records to return per page	Int			
MaxTotalItems	Max items to find (<=1000)	Int			

Notes:

- The values for each of the search fields should be specified in the same manner as they are specified in SAGE WebStore. For more information, go to www.trywebexpress.com and click Search. From there, you can access help for each field that explains how information should be entered for the various fields.
- You should encourage your web visitors to only fill in the necessary fields. They should not fill in all of the search fields. If you are not using certain search fields in your application, you can remove the entire tag from your XML request if you wish.
- The Category field specifies the SAGE category name or number to be searched. For example, if you are looking for flashlights, you would have a category number of 123 or you can enter “flashlights”. The category numbers can be obtained using the CategoryList query action described above. You may enter multiple categories by separating each one with a comma.

- If you would like to search for a particular supplier's products, you can enter the supplier's SAGE # preceded by "S:" in the SPC field. For example, to search for products for SAGE # 51234, you would enter "S:51234" for the SPC. If you have a SAGE Product Code (a unique code assigned to each item in the database), you can enter that as-is in the SPC field. If you want to search for a particular item number (the number issued by the supplier), just enter it as-is in the ItemNum field. For example, to search for item number 123, you would enter 123 for the ItemNum.
- If you have a "quick search" box on your site, the value coming from that field should be put into the QuickSearch field. The difference between QuickSearch and Keywords is that QuickSearch will analyze the input to determine if it is a category, keyword or SPC. Then the search will be performed based on the appropriate field. If you put the text into the Keywords field instead, it will be searched only as keywords. This will yield a different result when, for example, a web visitor puts a category name such as "pens" in your quick search box.
- The IncludeRush field should be either "Y" or "N" depending on whether or not you want to include suppliers offering rush service in your production time searches. If set to yes, all suppliers offering rush service will be included in the search results even if the normal production time is outside of the specified production time. If the ProdTime field is empty or zero, the IncludeRush parameter is ignored.
- The PrefGroups field ties into the preference groups assigned in SAGE Online or SAGE Web. If this field is blank, all suppliers will be searched. To search only suppliers within one or more specific preference group, enter a comma-separated list of preference group ID numbers to search. The preference group ID numbers can be found in the preference group setup area within SAGE Online.
- SiteCountry allows you to specify a two-digit country code for the site's location. If not specified, the country code of your account will be used. The country code is used in searching to determine which products to show on the site. For example, if a supplier has a Canadian catalog and a US catalog, the catalog shown will be determined based on the site's location as specified here.
- The Sort field determines the sort order for the products in the response. The options are:
 - Blank - Indicates that the default sort will be used (as specified in WebStore Settings)
 - PRICE: Price sorting in lowest to highest order.
 - PRICEHIGHLOW: Price sorting in highest to lowest order.
 - BESTMATCH: Sort by the best match based on the criteria.
 - POPULARITY: Sort the items in terms of popularity, with most popular first.
 - PREFGROUP: Sort by preference groups.
- The StartNum and MaxRecs fields are used to return a subset of the total search results. This allows you to implement "records per page" functionality. If you do not wish to use these fields, leave both empty. However, if you do want to use this functionality, the StartNum should contain the starting record number for this request and the MaxRecs should contain the number of records to return. For example, if a search returns 110 total products and you would like to display records 1-20, you would enter "1" for StartNum and "20" for MaxRecs. Then, to show records 21-40, enter "21" as the StartNum and "20" again for MaxRecs.
- The MaxTotalItems field sets the maximum number of products to find in a search. If this field is not included, the default value of 1000 will be used. If you would like to return fewer than 1,000 matching products, use this field to set the maximum. If you would like to return more, you can set this to any number up to 2500. You cannot return more than 2,500 products in a search.
- The "ExtraReturnFields" parameter can be used to return additional fields in the response string. These should only be used if necessary - since they may materially increase the physical size of the response string. The options are:

- “ITEMNUM” will return the product’s actual item number
- “CATEGORY” will return the product category name
- “DESCRIPTION” will return the description for the item
- “COLORS” will return the color options for the item
- “THEMES” will return the themes for the item
- “NETPRICES” will return the extended price information, including net pricing, published (catalog) pricing and published (catalog) net pricing
- “SUPPID” will return the supplier’s SAGE #
- “LINE” will return the line name
- “COMPANY” will return the company name of the supplier
- “PRODTIME” will return the production time for the item

To return multiple extra fields, separate them with a comma (e.g., “LINE,COMPANY”).

```
<?xml version="1.0" encoding="UTF-8"?>
<XMLDataStreamRequest>
  <Ver>3.2</Ver>
  <Auth>
    <AcctID>XXXXXX</AcctID>
    <LoginID>XXXXXXX</LoginID>
    <Password>*****</Password>
  </Auth>
  <Search>
    <Category>Mugs</Category>
    <Keywords>Ceramic</Keywords>
  </Search>
</XMLDataStreamRequest>
```

Response Structure

Field name	Description	Type	Length	Required	Notes
Ver	API version	Float		*	
SearchResults	SearchResults Record	Search Results list information		*	

SearchResults:

Field name	Description	Type	Length	Required	Notes
Success	0/1	String			
ErrMsg	Error Message	String			
TotalFound	Items Found	String			
Items	Item Record	String			

Item Record:

Field name	Description	Type	Length	Required	Notes
Count	Item number in list	Int			
ProductID	Unique numeric ID for product	String			
SPC	SAGE Product Code	String			
PrName	Product name	String			
ItemNum	Item number	String			
Category	Item category	String			
Description	Item Description	String			

Field name	Description	Type	Length	Required	Notes
Colors	Item Colors	String			
Themes	Item Themes	String			
SupplID	Supplier SAGE number	String			
LineName	Supplier line name	String			
CompanyName	Confidential Company name	String			
Prc	Price (Shows range if no quantity entered)	Currency			
Net	Confidential net price	Currency			
ProdTime	Production time	Int			
ThumbPicLink	Link to thumbnail	String			

Notes

- The ItemNum, Category, Description, Colors, Themes, SupplID, LineName, CompanyName, ProdTime, and Net fields are optional. Please see the request structure for more information if you would like to return these fields. Note that these should only be returned if you intend to use them and they will not be returned unless you specifically request them in the request structure.
- The values for each of the search fields should be specified in the same manner as they are specified in SAGE WebStore. For more information, go to www.trywebexpress.com and click Search. From there, you can access help for each field that explains how information should be entered for keywords, colors, themes, SPC, and price search fields.
- The ThumbPicLink field is a specific link to the product image for the specified item. The last parameter of the query (“RS”) is the size of the picture in pixels (bounding box size). The options are 100, 150 (default), 200, 300, or 1800 pixels. To obtain a different size picture, change the RS parameter to the desired value. You can add an optional parameter C to set the cache control value of the returned image. The C parameter is specified in minutes. For example, C=2880 will respond with a 48 hour max-age value. If omitted, the default max-age cache value of 24 hours will apply.

```

<?xml version="1.0" encoding="UTF-8"?>
<XMLDataStreamResponse>
  <Ver>3.2</Ver>
  <LegalNote>USE SUBJECT TO TERMS OF YOUR AGREEMENT.  UNAUTHORIZED USE PROHIBITED.  SUPPLIER INFORMATION IS CONFIDENTIAL.  (C) 2016 QUICK TECHNOLOGIES INC.</LegalNote>
  <SearchResults>
    <Success>1</Success>
    <ErrMsg />
    <TotalFound>1000</TotalFound>
    <Items>
      <Item>
        <Count>1</Count>
        <ProductID>563392895</ProductID>
        <SPC>OCUVF-HLBBZ</SPC>
        <PrName>11 oz Ceramic Full Color Coffee Mug - Low 10 piece minimum!</PrName>
        <Prc>4.20 - 5.95</Prc>
        <ThumbPicLink>http://www.promoplace.com/ws/ws.dll/QPic?SN=68185&P=563392895&RS=150</ThumbPicLink>
      </Item>
      ...
      <Item>
        <Count>1000</Count>
        <ProductID>924241132</ProductID>
        <SPC>TDNBC-JHHWM</SPC>
        <PrName>16 Oz. Yellow and White Endeavor Bistro Mug with Spoon (4 Color Process)</PrName>
        <Prc>9.25 - 14.23</Prc>
        <ThumbPicLink>http://www.promoplace.com/ws/ws.dll/QPic?SN=66358&P=924241132&RS=150</ThumbPicLink>
      </Item>
    </Items>
  </SearchResults>
</XMLDataStreamResponse>

```

Product Detail (ProductDetail)

The “ProductDetail” query is used to obtain more information regarding a product that was returned from a “Search” query. You must either retain the ProductID from the search or pass in the SAGE Product Code (SPC) in order to access the detailed product information using this query.

Request Structure

Field name	Description	Type	Length	Required	Notes
Ver	API version	Float		*	
Auth	Authentication information	Auth Record		*	
ProductDetail	Product Detail	ProductDetail Record		*	

Auth Record:

Field name	Description	Type	Length	Required	Notes
AcctID	Account number	Int		*	
LoginID	Login ID	String		*	
Password	Password	String		*	

ProductDetail Record:

Field name	Description	Type	Length	Required	Notes
ProductID	Product ID or SPC	String		*	

Notes:

- The Product ID is the unique ID that is returned from the Search action. Note that you can locate a product by using the Product ID

or the SAGE Product Code (SPC), which is a 10-character alphabetic code that represents your personal, unique item number for every item in the SAGE database.

- If you would like the supplier's information to be returned as well, you can include 1 on the next line after the ProductID field. Note that this will return the same information as the SupplierInfo request. Please note that supplier information is confidential and should not be exposed to the general public

```
<?xml version="1.0" encoding="UTF-8"?>
<XMLDataStreamRequest>
  <Ver>3.2</Ver>
  <Auth>
    <AcctID>XXXXXX</AcctID>
    <LoginID>XXXXXXXX</LoginID>
    <Password>*****</Password>
  </Auth>
  <ProductDetail>
    <ProductID>UYSWG-GSPMK</ProductID>
  </ProductDetail>
</XMLDataStreamRequest>
```

Response Structure:

Field name	Description	Type	Length	Required	Notes
Ver	API version	Float		*	
ProductDetail	ProductDetail Record	Product Detail Information		*	

ProductDetail Record:

Field name	Description	Type	Length	Required	Notes
ProductID	Product ID	Int			
Category	Category name	String	30		
SupplID	Supplier's SAGE ID	Int			
LineName	Supplier's line name	String	1000		
CatPage	Catalog page	Int			
CatYear	Catalog Year	Int			
ItemNum	Supplier's item number	String	25		
SPC	SAGE Product Code	String	11		
PrName	Product name	100String			
Description	Text description	String	500		
Dimensions	Product dimensions	String	100		
Keywords	Product keywords	String	200		
Colors	Product colors	String	300		
Themes	Themes	String	200		
Qty1	Quantity column 1	Int			
Qty2	Quantity column 2	Int			
Qty3	Quantity column 3	Int			
Qty4	Quantity column 4	Int			
Qty5	Quantity column 5	Int			
Qty6	Quantity column 6	Int			
Prc1	Price column 1	Currency			
Prc2	Price column 2	Currency			
Prc3	Price column 3	Currency			
Prc4	Price column 4	Currency			
Prc5	Price column 5	Currency			

Field name	Description	Type	Length	Required	Notes
Prc6	Price column 6	Currency			
PrCode	Price Code	String	6		
CatPrc1	Standard catalog price column 1	Currency			
CatPrc2	Standard catalog price column 2	Currency			
CatPrc3	Standard catalog price column 3	Currency			
CatPrc4	Standard catalog price column 4	Currency			
CatPrc5	Standard catalog price column 5	Currency			
CatPrc6	Standard catalog price column 6	Currency			
Net1	Cost Column 1 (Confidential)	Currency			
Net2	Cost Column 2 (Confidential)	Currency			
Net3	Cost Column 3 (Confidential)	Currency			
Net4	Cost Column 4 (Confidential)	Currency			
Net5	Cost Column 5 (Confidential)	Currency			
Net6	Cost Column 6 (Confidential)	Currency			
Currency	Currency code for the pricing	String	3		
PriceAdjustMsg	Supplier-level price adjust message	String	100		
PiecesPerUnit1	Pieces per unit column 1	Int			
PiecesPerUnit2	Pieces per unit column 2	Int			
PiecesPerUnit3	Pieces per unit column 3	Int			
PiecesPerUnit4	Pieces per unit column 4	Int			
PiecesPerUnit5	Pieces per unit column 5	Int			
PiecesPerUnit6	Pieces per unit column 6	Int			
Options	Option Record	String	1000		
MadeUSA	Made in USA (deprecated)	Bool			
MadeInCountry	Two-letter country code	String	2		
AssembledInCountry	Two-letter country code	String	2		
DecoratedInCountry	Two-letter country code	String	2		
Recycle	Recyclable product (deprecated)	Bool			
Recyclable	Recyclable product	Bool			
NewProduct	New product	Bool			
EnvFriendly	Environmentally friendly	Bool			
Food	Food	Bool			
Clothing	Clothing	Bool			
ProductCompliance	List of compliances	String	1000		
ProductComplianceMemo	Additional memo	String	500		
Verified	Supplier Verified	Bool			
ImprintArea	Imprint area/location	String	100		
SecondImprintArea	Second imprint area/location	String	100		
Decoration Method	Decoration Method	String	50		
DecorationNotOffered	No decoration	Bool			
SetupChg	Setup Charge	Currency			
SetupChgCode	Setup charge price code	String	1		
RepeatSetupChg	Repeat setup charge	Currency			
RepeatSetupChgCode	Repeat setup charge code	String	1		
ScreenChg	Screen charge	Currency			
ScreenChgCode	Screen charge price code	String	1		
PlateChg	Plate charge	Currency			
PlateChgCode	Plate charge price code	String	1		
DieChg	Die charge	Currency			
DieChgCode	Die charge price code	String	1		
ToolingChg	Tooling charge	Currency			

Field name	Description	Type	Length	Required	Notes
ToolingChgCode	Tooling charge price code	String	1		
AddClrChg	Additional color setup charge	Currency			
AddClrChgCode	Additional color setup charge code	String	1		
AddClrRunChg1	Additional color run charge column 1	Currency			
AddClrRunChg2	Additional color run charge column 2	Currency			
AddClrRunChg3	Additional color run charge column 3	Currency			
AddClrRunChg4	Additional color run charge column 4	Currency			
AddClrRunChg5	Additional color run charge column 5	Currency			
AddClrRunChg6	Additional color run charge column 6	Currency			
AddClrRunChgCode	Additional color run charge code	String	1		
PriceIncludes	Price includes	String	100		
Package	Packaging	String	50		
WeightPerCarton	Wight per carton (lbs)	Float			
UnitsPerCarton	Units per carton	Int			
CartonL	Carton length (in inches)	Int			
CartonW	Carton width (in inches)	Int			
CartonH	Carton height (in inches)	Int			
ProdTime	Production Time	Int			
ShipPointCountry	Shipping point country	String	2		
ShipPointZip	Shipping point zip code	Int			
Comment	Comments	String	150		
SpecialAvailable	Has special	Bool			
ExpDate	Expiration date MM/DD/YY	String	8		

Option Record:

Field name	Description	Type	Length	Required	Notes
Name	Option Name	String	100		
Type	T=Total; U=Upcharge	String	1		
Values	Value Record	String	100		
PrCode	Price Code	String	6		

Value Record:

Field name	Description	Type	Length	Required	Notes
Name	Value Name	String	100		
Prc1	Price Column 1	Currency			
Prc2	Price Column 2	Currency			
Prc3	Price Column 3	Currency			
Prc4	Price Column 4	Currency			
Prc5	Price Column 5	Currency			
Prc6	Price Column 6	Currency			

Notes:

- The PicLink field is a specific link to the product image for the specified item. The last parameter of the query (“RS”) is the size of the picture in pixels (bounding box size). The options are 100, 150, 200, 300 (default), or 1800 pixels. To obtain a different size picture, change the RS parameter to the desired value. You can add an optional parameter C to set the cache control value of the returned image. The C parameter is specified in minutes. For example, C=2880 will respond with a 48 hour max-age value. If omitted, the default max-age cache value of 24 hours will apply.
- Fields marked “deprecated” are fields that are no longer supported in the current implementation of the DataStream

specification. These fields are included for the time being for legacy support. However, if you are using these fields, you should change your code to no longer use them as soon as possible to avoid issues once support is finally removed for these fields.

```
<?xml version="1.0" encoding="UTF-8"?>
<XMLDataStreamResponse>
  <Ver>3.2</Ver>
  <LegalNote>USE SUBJECT TO TERMS OF YOUR AGREEMENT. UNAUTHORIZED USE PROHIBITED. SUPPLIER INFORMATION IS CONFIDENTIAL. (C) 2016 QUICK TECHNOLOGIES INC.</LegalNote>
  <ProductDetail>
    <ProductID>923068686</ProductID>
    <Category>Bags</Category>
    <SuppID>63554</SuppID>
    <LineName>Jetline</LineName>
    <CatPage>52</CatPage>
    <CatYear>2016</CatYear>
    <ItemNum>BG125</ItemNum>
    <SPC>UYSWG-GSPMK</SPC>
    <PrName>Atlas Non Woven Grocery Tote Bag</PrName>
    <Description>Our most compact market tote made of durable and eco friendly 80 GSM Nonwoven Polypropylene material . Spacious open tote with 8" box gusset and removable rigid covered bottom insert. 20" long reinforced handle. Our non woven material is 100 percent recyclable. 12" W x 13" H x 8" D</Description>
    <Dimensions>12" W x 13" H x 8" D</Dimensions>
    <Keywords>Recycle, Value, Non Woven, Polypropylene, Grocery Carrier, Market Tote, Box Gusset, Removable Bottom Insert, Rigid Insert, 20" Handle, Reinforced Handle, 100 percent Recyclable, 40 percent Pre Consumer Recycled</Keywords>
    <Colors>Red, Orange, Yellow, Lime Green, Burgundy Red, Purple, Reflex Blue, Black, White, Hunter Green, Navy Blue , Pink, Teal, Carolina Blue</Colors>
    <Themes>Shopping</Themes>
    <Qty1>150</Qty1>
    <Qty2>300</Qty2>
    <Qty3>600</Qty3>
    <Qty4>1200</Qty4>
    <Qty5>2600</Qty5>
    <Qty6>0</Qty6>
    <Prc1>1.29</Prc1>
    <Prc2>1.29</Prc2>
    <Prc3>1.29</Prc3>
    <Prc4>1.29</Prc4>
    <Prc5>1.29</Prc5>
    <Prc6>
    <PrCode>CCCCC</PrCode>
    <CatPrc1>1.29</CatPrc1>
    <CatPrc2>1.29</CatPrc2>
    <CatPrc3>1.29</CatPrc3>
    <CatPrc4>1.29</CatPrc4>
    <CatPrc5>1.29</CatPrc5>
    <CatPrc6>
    <CatPrCode>CCCCC</CatPrCode>
    <Net1>0.77</Net1>
    <Net2>0.77</Net2>
    <Net3>0.77</Net3>
    <Net4>0.77</Net4>
    <Net5>0.77</Net5>
    <Net6>
    <Currency>USD</Currency>
    <PriceAdjustMsg>
    <PiecesPerUnit1>1</PiecesPerUnit1>
    <PiecesPerUnit2>1</PiecesPerUnit2>
    <PiecesPerUnit3>1</PiecesPerUnit3>
    <PiecesPerUnit4>1</PiecesPerUnit4>
    <PiecesPerUnit5>1</PiecesPerUnit5>
    <PiecesPerUnit6>0</PiecesPerUnit6>
    <Options>
      <Option>
        <Name>Imprint Options</Name>
        <Type>U</Type>
        <Values>
```

```
<Value>
  <Name>2nd Side Imprint Run Charge</Name>
  <Prc1>0.55</Prc1>
  <Net1>0.44</Net1>
  <Prc2>0.55</Prc2>
  <Net2>0.44</Net2>
  <Prc3>0.55</Prc3>
  <Net3>0.44</Net3>
  <Prc4>0.55</Prc4>
  <Net4>0.44</Net4>
  <Prc5>0.55</Prc5>
  <Net5>0.44</Net5>
  <Prc6>0.00</Prc6>
  <Net6>0.00</Net6>
</Value>
<Value>
  <Name>2nd Side Imprint Set up Charge</Name>
  <Prc1>55.00</Prc1>
  <Net1>44.00</Net1>
  <Prc2>55.00</Prc2>
  <Net2>44.00</Net2>
  <Prc3>55.00</Prc3>
  <Net3>44.00</Net3>
  <Prc4>55.00</Prc4>
  <Net4>44.00</Net4>
  <Prc5>55.00</Prc5>
  <Net5>44.00</Net5>
  <Prc6>0.00</Prc6>
  <Net6>0.00</Net6>
</Value>
<Value>
  <Name>Heat Transfer Set up Charge</Name>
  <Prc1>0.00</Prc1>
  <Net1>0.00</Net1>
  <Prc2>65.00</Prc2>
  <Net2>52.00</Net2>
  <Prc3>65.00</Prc3>
  <Net3>52.00</Net3>
  <Prc4>65.00</Prc4>
  <Net4>52.00</Net4>
  <Prc5>65.00</Prc5>
  <Net5>52.00</Net5>
  <Prc6>0.00</Prc6>
  <Net6>0.00</Net6>
</Value>
<Value>
  <Name>Heat Transfer Run Charge (per location)</Name>
  <Prc1>0.00</Prc1>
  <Net1>0.00</Net1>
  <Prc2>0.99</Prc2>
  <Net2>0.79</Net2>
  <Prc3>0.99</Prc3>
  <Net3>0.79</Net3>
  <Prc4>0.99</Prc4>
  <Net4>0.79</Net4>
  <Prc5>0.99</Prc5>
  <Net5>0.79</Net5>
  <Prc6>0.00</Prc6>
  <Net6>0.00</Net6>
</Value>
</Values>
<PrCode>GGGG</PrCode>
</Option>
</Options>
<MadeUSA>0</MadeUSA>
<MadeInCountry>CN</MadeInCountry>
<Recycle>1</Recycle>
<Recyclable>1</Recyclable>
```


<NewProduct>0</NewProduct>
<EnvFriendly>1</EnvFriendly>
<Food>0</Food>
<Clothing>0</Clothing>
<ProductCompliance>
<ProductComplianceMemo>
<Verified>1</Verified>
<ImprintArea>4 1/2" W x 8" H on Side</ImprintArea>
<SecondImprintArea>4 1/2" W x 8" H on Opposite Side</SecondImprintArea>
<DecorationMethod>Screen printed/ 4CP Heat Transfer (add'l fee)</DecorationMethod>
<DecorationNotOffered>0</DecorationNotOffered>
<SetupChg>55</SetupChg>
<SetupChgCode>G</SetupChgCode>
<RepeatSetupChg>30</RepeatSetupChg>
<RepeatSetupChgCode>G</RepeatSetupChgCode>
<ScreenChg>0</ScreenChg>
<ScreenChgCode>
<PlateChg>0</PlateChg>
<PlateChgCode>
<DieChg>0</DieChg>
<DieChgCode>
<ToolingChg>0</ToolingChg>
<ToolingChgCode>
<AddClrChg>55</AddClrChg>
<AddClrChgCode>G</AddClrChgCode>
<AddClrRunChg1>0.55</AddClrRunChg1>
<AddClrRunChg2>0.55</AddClrRunChg2>
<AddClrRunChg3>0.55</AddClrRunChg3>
<AddClrRunChg4>0.55</AddClrRunChg4>
<AddClrRunChg5>0.55</AddClrRunChg5>
<AddClrRunChg6>0</AddClrRunChg6>
<AddClrRunChgCode>GGGGG</AddClrRunChgCode>
<PriceIncludes>1 color;1 side</PriceIncludes>
<Package>Bulk</Package>
<WeightPerCarton>24</WeightPerCarton>
<UnitsPerCarton>125</UnitsPerCarton>
<CartonL>21</CartonL>
<CartonW>16</CartonW>
<CartonH>14</CartonH>
<ShipPointCountry>US</ShipPointCountry>
<ShipPointZip>29341</ShipPointZip>
<ProdTime>3 to 5 working days or approx. 1 working days for rush service</ProdTime>
<Comment>4CP Heat Transfers must be ordered in quantities of 250 pieces (min. 250). 7 Day Production Time/No Rush Available.</Comment>
<PicLink><http://www.promoplace.com/ws/ws.dll/QPic?SN=63554&P=923068686&RS=300></PicLink>
<SpecialAvailable>0</SpecialAvailable>
<ExpDate>12/31/16</ExpDate>
<PersonalInfo>
 <InternalRefNum>
</PersonalInfo>
<SupplierInfo>
 <SuppID>63554</SuppID>
 <CoName>Jetline</CoName>
 <LineName>Jetline</LineName>
 <ContactName>
 <MAddr>PO Box 28827</MAddr>
 <MCity>New York</MCity>
 <MState>NY</MState>
 <MZip>10087-8827</MZip>
 <MCountry>US</MCountry>
 <SAddr>202 Hyatt Street</SAddr>
 <SCity>Gaffney</SCity>
 <SState>SC</SState>
 <SZip>29341</SZip>
 <SCountry>US</SCountry>
 <Tel>555.555.5555</Tel>
 <TollFreeTel>877.555.5556</TollFreeTel>
 <Fax>555.555.5556</Fax>

```

<TollFreeFax>
<Email>customerservice@jetlinepromo.com</Email>
<Web>www.jetlinepromo.com</Web>
<ArtContactName>Dawn Smith</ArtContactName>
<ArtContactEmail>art@jetlinepromo.com</ArtContactEmail>
<CatYear>2016</CatYear>
<CatExpOn>12/31/2016</CatExpOn>
<CatCurrency>USD</CatCurrency>
<Comment>
<PrefGroupIDs>
<PrefGroup>
<PersCSRep>
<PersCustNum>
<PersSuppNote>
<GeneralInfo>
  <ArtInfo>$50(X)/hr.$15(X)minimum Black and white camera ready art required. Should art require improvements that require a charge, you will be contacted with an estimate before any work is done.</ArtInfo>
  <CopyChangeInfo>$35(G); Color Change $25(G)</CopyChangeInfo>
  <ImprintMethods>Laser Engraving, Pad Print, Screen Print, Label, 4CP Heat Transfer, JetColor (4CP).</ImprintMethods>
  <ImprintColors>Navy Blue, Reflex Blue, Process Blue, Carolina Blue, Baby Blue, Red, Teal Green, Hunter Green, Emerald Green, Yellow, Athletic Gold, Orange, Purple, Magenta Pink, Bubble Gum Pink, Burgundy Red, White, Black, Gray, Metallic Silver, Metallic Gold, Brown.</ImprintColors>
  <ProofInfo>Paper/fax proof $10(G). Pre-production proof $40(G) per color/position + EQP.</ProofInfo>
  <PMSCharge>40</PMSCharge>
  <PMSChargeCode>G</PMSChargeCode>
  <CopyChangeCharge>35</CopyChangeCharge>
  <CopyChangeChargeCode>G</CopyChangeChargeCode>
  <ArtChargeHr>50</ArtChargeHr>
  <ArtChargeHrCode>X</ArtChargeHrCode>
  <ArtChargeJob>0</ArtChargeJob>
  <ArtChargeJobCode>
  <ProofCharge>10</ProofCharge>
  <ProofChargeCode>G</ProofChargeCode>
  <SpecSampleCharge>0</SpecSampleCharge>
  <SpecSampleChargeCode>
  <OrderChangeInfo>Must be made in writing via email or fax. First change free, second change $5(x). Changes made same day as ship are $20(X), must be received before 3P</OrderChangeInfo>
  <OrderCancelInfo>$15(G) fee per orderAND factory will bill for all work already performed at the time of cancellation. Add'l fees apply to cancelled embroidery orders.</OrderCancelInfo>
  <LessMinInfo>$55(G) - 1/2 minimum catalog quantity. First column pricing plus LTM fee. N/A for closeout items or heat transfer orders</LessMinInfo>
  <OverrunInfo>5 percent invoiced accordingly. (2 percent on orders of 5000 units or greater) $30(G) for exact quantity shipping.</OverrunInfo>
  <ShipInfo>FOB South Carolina. Handling Charges: $3.25(G) per carton.An insurance fee of $3.00(X) is applied to every order. In-hands date required for rush order</ShipInfo>
  <TermsInfo>Net 30 days to open account customers upon approval of credit references.</TermsInfo>
  <WarrantyInfo>
  <ReturnsInfo>Must be made within 30 days of shipment, authorization required.</ReturnsInfo>
  <CoOpInfo>Please call</CoOpInfo>
  <OtherInfo>Due to the cost of order processing, no blank orders less than $100 will be processed. Free 24 hour rush is not available for deboss or 4CP orders. Ha</OtherInfo>
</GeneralInfo>
</SupplierInfo>
</ProductDetail>
</XMLDataStreamResponse>

```

Supplier Information (SupplierInfo)

The "SupplierInfo" query is used to obtain more information regarding a particular supplier. The supplier's information is located by the supplier's SAGE #. *Please note that supplier information is confidential and should not be exposed to the general public.*

Request Structure

Field name	Description	Type	Length	Required	Notes
Ver	API version	Float		*	
Auth	Authentication information	Auth Record		*	
SupplierInfo	Supplier Information	SupplierInfo Record		*	

Auth Record:

Field name	Description	Type	Length	Required	Notes
AcctID	Account number	Int		*	
LoginID	Login ID	String		*	
Password	Password	String		*	

SupplierInfo Record:

Field name	Description	Type	Length	Required	Notes
SupplID	Supplier SAGE #	String			
ExtraReturnFields	Specifies additional fields to be returned	Int			

Notes:

- See the ProductDetail response above for details on the product fields that are returned for each product.
- ExtraReturnFields specifies additional fields to be returned. If you would like to return the general information for a supplier, then include GENINFO in this field. Otherwise leave it blank.

```
<?xml version="1.0" encoding="UTF-8"?>
<XMLDataStreamRequest>
  <Ver>3.2</Ver>
  <Auth>
    <AcctID>XXXXXX</AcctID>
    <LoginID>XXXXXXXX</LoginID>
    <Password>*****</Password>
  </Auth>
  <SupplierInfo>
    <SupplID>50042</SupplID>
    <ExtraReturnFields></ExtraReturnFields>
  </SupplierInfo>
</XMLDataStreamRequest>
```

Response Structure:

Field name	Description	Type	Length	Required	Notes
Ver	API version	Float		*	
SupplierInfo	SupplierInfo Record	Supplier information		*	

SupplierInfo Record:

Field name	Description	Type	Length	Required	Notes
SupplID	Supplier SAGE #	Int			
CoName	Company name	String			
LineName	Supplier line name	String			
Contact	Contact name	String			
MAddr	Mailing address	String			
MCity	Mailing city	String			
MState	Mailing state	String			
MZip	Mailing zip code	Int			

Field name	Description	Type	Length	Required	Notes
MCountry	Mailing country	String			
SAddr	Shipping address	String			
SCity	Shipping city	String			
SState	Shipping state	String			
SZip	Shipping zip code	Int			
SCountry	Shipping country	String			
Tel	Telephone number	String			
TollFreeTel	Toll free telephone number	String			
Fax	Fax number	String			
TollFreeFax	Toll free fax number	String			
Email	Email address	String			
Web	Web URL	String			
ArtContactName	Art contact name	String			
ArtContactEmail	Art contact email	String			
CatYear	Catalog year	Int			
CatExpOn	Catalog expiration date	String			
CatCurrency	Catalog currency code	String			
Comment	Comment	String			
PrefGroupIDs	Preference group ID list	String			
PrefGroup	Preference group names	String			
PersCSRep	Personal CS Rep from SAGE Online	String			
PersCSRepPhn	Personal CS Rep phone from SAGE Online	String			
PersCSRepEmail	Personal CS Rep email address from SAGE Online	String			
PersCustNum	Personal customer # from SAGE Online	String			
PersSuppNote	Personal supplier note from SAGE Online	String			

```

<?xml version="1.0" encoding="UTF-8"?>
<XMLDataStreamResponse>
  <Ver>3.2</Ver>
  <LegalNote>USE SUBJECT TO TERMS OF YOUR AGREEMENT.  UNAUTHORIZED USE PROHIBITED.  SUPPLIER INFORMATION IS CONFIDENTIAL.  (C) 2016 QUICK TECHNOLOGIES INC.</LegalNote>
  <SupplierInfo>
    <SuppID>50042</SuppID>
    <CoName>SanMar</CoName>
    <LineName>Port Authority/Sport-Tek/Port - Company/Nike Golf/Precious Cargo/Red House/CornerStone/OGIO/Eddie Bauer/First Ascent/District/District Made</LineName>
    <ContactName></ContactName>
    <MAddr>123 Address St</MAddr>
    <MCity>City</MCity>
    <MState>ST</MState>
    <MZip>99999</MZip>
    <MCountry>US</MCountry>
    <SAddr></SAddr>
    <SCity></SCity>
    <SState></SState>
    <SZip></SZip>
    <SCountry></SCountry>
    <Tel>555.555.5555</Tel>
    <TollFreeTel>800.555.5555</TollFreeTel>
    <Fax></Fax>
    <TollFreeFax>800.555.5556</TollFreeFax>
    <Email>sanmar@email.com</Email>
    <Web>www.sanmar.com</Web>
    <ArtContactName></ArtContactName>
    <ArtContactEmail></ArtContactEmail>
    <CatYear>2017</CatYear>
    <CatExpOn>12/31/2017</CatExpOn>
    <CatCurrency>USD</CatCurrency>
    <Comment>Please see SAGE #68391 for Canadian pricing</Comment>
    <PrefGroupIDs>814</PrefGroupIDs>
    <PrefGroup>MVP Suppliers</PrefGroup>
    <PersCSRep></PersCSRep>
    <PersCustNum></PersCustNum>
    <PersSuppNote></PersSuppNote>
  </SupplierInfo>
</XMLDataStreamResponse>

```

If you choose to return the supplier's general information as well (using the GENINFO tag in the ExtraReturnFields parameter), then the following fields will also be returned:

Field name	Description	Type	Length	Required	Notes
GeneralInfo	GeneralInfo Record	General information			

GeneralInfo Record:

Field name	Description	Type	Length	Required	Notes
ArtInfo	Artwork information	String			
CopyChangeInfo	Copy change information	String			
ImprintMethods	Imprint methods	String			
ImprintColors	Imprint colors	String			
ProofInfo	Proof information	String			
PMSCharge	PMS match charge	Currency			
PMSChargeCode	PMS match charge code	String			
CopyChangeCharge	Copy change charge	Currency			
CopyChangeChargeCode	Copy change charge code	Int			
ArtChargeHr	Art charge (per hour)	Currency			

Field name	Description	Type	Length	Required	Notes
ArtChargeHrCode	Art charge (per hour)	Currency			
ArtChargeJob	Art charge (per job)	Currency			
ArtChargeJobCode	Art charge code (per job)	String			
ProofCharge	Proof charge	Currency			
ProofChargeCode	Proof charge code	String			
SpecSampleCharge	Spec sample charge	Currency			
SpecSampleChargeCode	Spec sample charge code	String			
OrderChangeInfo	Order change information	String			
OrderCancelInfo	Order cancellation information	String			
LessMinInfo	Less than minimum information	String			
OverrunInfo	Overrun information	String			
ShipInfo	Shipping information	String			
TermsInfo	Terms information	String			
WarrantyInfo	Warranty information	String			
ReturnsInfo	Returns information	String			
CoOpInfo	CoOp information	String			
OtherInfo	Other information	String			

```

<GeneralInfo>
  <ArtInfo></ArtInfo>
  <CopyChangeInfo></CopyChangeInfo>
  <ImprintMethods></ImprintMethods>
  <ImprintColors></ImprintColors>
  <ProofInfo></ProofInfo>
  <PMSCharge>0</PMSCharge>
  <PMSChargeCode></PMSChargeCode>
  <CopyChangeCharge>0</CopyChangeCharge>
  <CopyChangeChargeCode></CopyChangeChargeCode>
  <ArtChargeHr>0</ArtChargeHr>
  <ArtChargeHrCode></ArtChargeHrCode>
  <ArtChargeJob>0</ArtChargeJob>
  <ArtChargeJobCode></ArtChargeJobCode>
  <ProofCharge>0</ProofCharge>
  <ProofChargeCode></ProofChargeCode>
  <SpecSampleCharge>0</SpecSampleCharge>
  <SpecSampleChargeCode></SpecSampleChargeCode>
  <OrderChangeInfo></OrderChangeInfo>
  <OrderCancelInfo>Subject to 20 percent restock fee plus freight charges.</OrderCancelInfo>
  <LessMinInfo>Sanmar has no minimum order, orders under $50.00 subject to $5.00 service charge.</LessMinInfo>
  <OverrunInfo></OverrunInfo>
  <ShipInfo>FOB point of origin.</ShipInfo>
  <TermsInfo>First order COD or company check w/ credit approval. Net 30 w/ approved credit.</TermsInfo>
  <WarrantyInfo></WarrantyInfo>
  <ReturnsInfo>Must be authorized by SanMar. Claims must be made within 15 days of receipt. All returns must be prepaid.</ReturnsInfo>
  <CoOpInfo></CoOpInfo>
  <OtherInfo>All prices are subject to change without notice. Taxes, tariffs, customs, etc not included in listed prices.</OtherInfo>
</GeneralInfo>

```

Supplier List (SupplierList)

The “SupplierList” query is used to obtain SAGE’s current supplier list, including the SAGE ID, company name and line name. The list can be used to display a supplier list to your internal application visitors. *Please note that supplier information is confidential and should not be exposed to the general public.*

Request Structure

Field name	Description	Type	Length	Required	Notes
Ver	API version	Float		*	
Auth	Authentication information	Auth Record		*	
SupplierList	Supplier list information	SupplierList Record		*	

Auth Record:

Field name	Description	Type	Length	Required	Notes
AcctID	Account number	Int		*	
LoginID	Login ID	String		*	
Password	Password	String		*	

SupplierList Record:

Field name	Description	Type	Length	Required	Notes
GetList	1	String		*	
AllLines	1=Return all line names	String			
Sort	SAGE ID, company or line	String			

Notes:

- If you would like to receive a list of all of the line names for each supplier, include the AllLines parameter. This will return all of the line names with a pipe (|) character separating each of the line names. Without this option, just the primary line name is returned through the Line parameter in the response.
- The Sort parameter tells the server in what order to send back the supplier list. The three options are sort by the SAGE ID, company name or line name.

```
<?xml version="1.0" encoding="UTF-8"?>
<XMLDataStreamRequest>
  <Ver>3.2</Ver>
  <Auth>
    <AcctID>XXXXXX</AcctID>
    <LoginID>XXXXXXXX</LoginID>
    <Password>*****</Password>
  </Auth>
  <SupplierList>
    <GetList>1</GetList>
    <AllLines>1</AllLines>
    <Sort>SAGEID</Sort>
  </SupplierList>
</XMLDataStreamRequest>
```

Response Structure

Field name	Description	Type	Length	Required	Notes
Ver	API version	Float		*	
SupplierList	Supplier list information	SupplierList Record		*	

SupplierList Record:

Field name	Description	Type	Length	Required	Notes
Supplier	Supplier information	Supplier Record			

Supplier Record:

Field name	Description	Type	Length	Required	Notes
SAGEID	SAGE ID	String			
Company	Company name	String			
Line	Line name	String			
AllLines	All line names, pipe-separated	String			

Notes:

- If you have removed suppliers using the Search Restrictions area in sagemember.com, those removed suppliers will not show up in the supplier list response.

```
<Ver>3.2</Ver>
  <LegalNote>USE SUBJECT TO TERMS OF YOUR AGREEMENT. UNAUTHORIZED USE PROHIBITED. SUPPLIER INFORMATION IS CONFIDENTIAL. (C) 2016 QUICK TECHNOLOGIES INC.</LegalNote>
  <SupplierList>
    <Supplier>
      <SAGEID>50000</SAGEID>
      <Company>SAGE</Company>
      <Line>SAGE</Line>
      <AllLines>SAGE</AllLines>
    </Supplier>
    ...
    <Supplier>
      <SAGEID>69994</SAGEID>
      <Company>deKo source</Company>
      <Line>deKo source</Line>
      <AllLines>deKo source</AllLines>
    </Supplier>
  </SupplierList>
</XMLDataStreamResponse>
```

Local Cache Supplier Product Data Drump (SupplierProductDataDump)

If you have purchased the additional local caching option (LCO), you may use this function to obtain full product data for a particular supplier in a single request for local caching. Please note that in accordance with the DataStream License Addendum, data cached through the local caching option must be refreshed at least once per week, meaning that you need to run this request at least once per week for each supplier for whom you are locally caching products. In addition, note that the License Addendum prohibits local caching (other than in connection with normal e-commerce cart activities) unless you have purchased the LCO. Refer to your license agreement for complete information.

Request Structure

Field name	Description	Type	Length	Required	Notes
Ver	API version	Float			*
Auth	Authentication information	Auth Record			*
SupplierProductDataDump	Supplier product data dump	SupplierProductDataDump Record			*

Auth Record:

Field name	Description	Type	Length	Required	Notes
AcctID	Account number	Int		*	
LoginID	Login ID	String		*	
Password	Password	String		*	

SupplierProductDataDump Record:

Field name	Description	Type	Length	Required	Notes
SupplID	Supplier SAGE #	Int			
StartRec	Starting record to return (1=first)	Int			
MaxRecsToReturn	Max records to return (0=all)	Int			

```
<?xml version="1.0" encoding="UTF-8"?>
<XMLDataStreamResponse>
  <Ver>3.2</Ver>
  <LegalNote>USE SUBJECT TO TERMS OF YOUR AGREEMENT. UNAUTHORIZED USE PROHIBITED. SUPPLIER INFORMATION IS CONFIDENTIAL. (C) 2016 QUICK TECHNOLOGIES INC.</LegalNote>
  <SupplierList>
    <Supplier>
      <SAGEID>50000</SAGEID>
      <Company>SAGE</Company>
      <Line>SAGE</Line>
      <AllLines>SAGE</AllLines>
    </Supplier>
    ...
    <Supplier>
      <SAGEID>69994</SAGEID>
      <Company>deKo source</Company>
      <Line>deKo source</Line>
      <AllLines>deKo source</AllLines>
    </Supplier>
  </SupplierList>
</XMLDataStreamResponse>
```

Response Structure

Field name	Description	Type	Length	Required	Notes
Ver	API version	Float		*	
SupplierProductDataDumpResults	Supplier product data dump result information	SupplierProductDataDumpResults Record		*	

SupplierProductDataDumpResults Record:

Field name	Description	Type	Length	Required	Notes
TotalFound	Total products found	Int			
TotalReturned	Total products returned	Int			
Products	Product information	Products Record			

Products Record:

Field name	Description	Type	Length	Required	Notes
ProductDetail	[See ProductDetail response above]	ProductDetail Response			

Notes

- See the ProductDetail response above for details on the product fields that are returned for each product.

```
<?xml version="1.0" encoding="UTF-8"?>
<XMLDataStreamResponse>
  <Ver>3.2</Ver>
  <LegalNote>USE SUBJECT TO TERMS OF YOUR AGREEMENT.  UNAUTHORIZED USE PROHIBITED.  SUPPLIER INFORMATION IS CONFIDENTIAL.  (C) 2016 QUICK TECHNOLOGIES INC.</LegalNote>
  <SupplierProductDataDumpResults>
    <TotalFound>57</TotalFound>
    <TotalReturned>57</TotalReturned>
    <Products>
      <ProductDetail>
        <ProductID>903682946</ProductID>
        <Category>Checks</Category>
        <SuppID>68450</SuppID>
        <LineName>Paper-Line</LineName>
        <CatPage>15</CatPage>
        <CatYear>2016</CatYear>
        <ItemNum>2PTNCR1</ItemNum>
        <SPC>UEVAG-IBODU</SPC>
        <PrName>8.5" x 11" 2-Part Carbonless Form</PrName>
        <Description>This product is a 8.5"x 11" Carbonless Form with an imprint area of 8"x 10.5", printed on standard White/Yellow NCR. Printed 1-2 colors on 1 side. This product is bulk packaged. 2 free PDF proofs are available and no setup charge for print-ready electronic file. 8.5" W x 11" L</Description>
        <Dimensions>8.5" W x 11" L</Dimensions>
        <Keywords>NCR, Receipt, Order, Contract, 2 Part, Paper, Carbon Free, Rectangle, Carbonless</Keywords>
        <Colors>White/Yellow</Colors>
        <Themes>Business, Office</Themes>
        <Qty1>250</Qty1>
        <Qty2>500</Qty2>
        <Qty3>1000</Qty3>
        <Qty4>2500</Qty4>
        <Qty5>5000</Qty5>
        <Qty6>0</Qty6>
        <Prc1>0.428</Prc1>
        <Prc2>0.294</Prc2>
        <Prc3>0.261</Prc3>
        <Prc4>0.217</Prc4>
        <Prc5>0.201</Prc5>
        <Prc6></Prc6>
        <PrCode>CCCC</PrCode>
        <CatPrc1>0.428</CatPrc1>
        <CatPrc2>0.294</CatPrc2>
        <CatPrc3>0.261</CatPrc3>
        <CatPrc4>0.217</CatPrc4>
        <CatPrc5>0.201</CatPrc5>
        <CatPrc6></CatPrc6>
        <CatPrCode>CCCC</CatPrCode>
        <Net1>0.257</Net1>
        <Net2>0.176</Net2>
        <Net3>0.157</Net3>
        <Net4>0.13</Net4>
        <Net5>0.121</Net5>
        <Net6></Net6>
        <Currency>USD</Currency>
        <PriceAdjustMsg></PriceAdjustMsg>
        <PiecesPerUnit1>1</PiecesPerUnit1>
        <PiecesPerUnit2>1</PiecesPerUnit2>
        <PiecesPerUnit3>1</PiecesPerUnit3>
        <PiecesPerUnit4>1</PiecesPerUnit4>
        <PiecesPerUnit5>1</PiecesPerUnit5>
        <PiecesPerUnit6>0</PiecesPerUnit6>
        <Options />
        <MadeUSA>1</MadeUSA>
        <MadeInCountry>US</MadeInCountry>
        <Recycle>1</Recycle>
        <Recyclable>1</Recyclable>
        <NewProduct>0</NewProduct>
        <EnvFriendly>1</EnvFriendly>
        <Food>0</Food>
```

```
<root></root>
<Clothing>0</Clothing>
<ProductCompliance></ProductCompliance>
<ProductComplianceMemo></ProductComplianceMemo>
<Verified>1</Verified>
<ImprintArea>8" W x 10.5" H on 8" x 10.5"</ImprintArea>
<SecondImprintArea></SecondImprintArea>
<DecorationMethod>Offset printed</DecorationMethod>
<DecorationNotOffered>0</DecorationNotOffered>
<SetupChg>0</SetupChg>
<SetupChgCode></SetupChgCode>
<RepeatSetupChg>0</RepeatSetupChg>
<RepeatSetupChgCode></RepeatSetupChgCode>
<ScreenChg>0</ScreenChg>
<ScreenChgCode></ScreenChgCode>
<PlateChg>0</PlateChg>
<PlateChgCode></PlateChgCode>
<DieChg>0</DieChg>
<DieChgCode></DieChgCode>
<ToolingChg>0</ToolingChg>
<ToolingChgCode></ToolingChgCode>
<AddClrChg>0</AddClrChg>
<AddClrChgCode></AddClrChgCode>
<AddClrRunChg1>0.15</AddClrRunChg1>
<AddClrRunChg2>0.09</AddClrRunChg2>
<AddClrRunChg3>0.045</AddClrRunChg3>
<AddClrRunChg4>0.04</AddClrRunChg4>
<AddClrRunChg5>0.035</AddClrRunChg5>
<AddClrRunChg6>0</AddClrRunChg6>
<AddClrRunChgCode>CCCC</AddClrRunChgCode>
<PriceIncludes>1 color;1 side;1 location</PriceIncludes>
<Package>Bulk</Package>
<WeightPerCarton>11</WeightPerCarton>
<UnitsPerCarton>500</UnitsPerCarton>
<CartonL>0</CartonL>
<CartonW>0</CartonW>
<CartonH>0</CartonH>
<ShipPointCountry>US</ShipPointCountry>
<ShipPointZip>61568</ShipPointZip>
<ProdTime>5 to 7 working days</ProdTime>
<Comment>Numbering Option is Available. Call/Email us for Pricing!</Comment>
<PicLink>http://www.promoplace.com/ws/ws.dll/QPic?SN=68450&P=903682946&RS=300</PicLink>
<SpecialAvailable>0</SpecialAvailable>
<ExpDate>12/31/18</ExpDate>
<PersonalInfo>
-
  <InternalRefNum></InternalRefNum>
-
</PersonalInfo>
<SupplierInfo>
  <SuppID>68450</SuppID>
  <CoName>GT Services Inc</CoName>
  <LineName>Paper-Line</LineName>
  <ContactName>Adam Mills</ContactName>
  <MAddr>22387 Old Route 9</MAddr>
  <MCity>Tremont</MCity>
  <MState>IL</MState>
  <MZip>61568</MZip>
  <MCountry>US</MCountry>
  <SAddr></SAddr>
  <SCity></SCity>
  <SState></SState>
  <SZip></SZip>
  <SCountry></SCountry>
  <Tel>309.925.5111</Tel>
  <TollFreeTel>855.487.7468</TollFreeTel>
  <Fax>309.925.2461</Fax>
  <TollFreeFax></TollFreeFax>
  <Email>amills@othc.net</Email>
```

```

\Email\dmails@gtbs.net\Email/
<Web>paper-line.net</Web>
<ArtContactName>Dustin Mills</ArtContactName>
<ArtContactEmail>dmails@gtbs.net</ArtContactEmail>
<CatYear>2018</CatYear>
<CatExpOn>12/31/2018</CatExpOn>
<CatCurrency>USD</CatCurrency>
<Comment></Comment>
<PrefGroupIDs></PrefGroupIDs>
<PrefGroup></PrefGroup>
<PersCSRep></PersCSRep>
<PersCustNum></PersCustNum>
<PersSuppNote></PersSuppNote>
<GeneralInfo>
  <ArtInfo>Adobe Illustrator CS5 or earlier recommended. Convert type to outlines, paths, curves or include fonts. Accept layered PDF. All text converted to outlines. High resolution 300 dpi or higher. Files must be layered. Artwork not production ready will be corrected at a charge of $60(z) per hour billed in 1/4 increments. May be emailed.</ArtInfo>
  <CopyChangeInfo>$15(c) each.</CopyChangeInfo>
  <ImprintMethods>Offset Printing and Digital Printing</ImprintMethods>
  <ImprintColors>The following are standard colors available and included in pricing: PANTONE Warm Red, #185, #201, Rhodamine Red, Rubine Red, #221, #485, #206, #226, #192, #199, #207, #151, #165, #1495, Yellow, #109, #320, Green, #347, #354, #356, #313, #314, #561, #288, Reflex Blue, #300, #273, #2728, #542, #662, #301, #295, #298, #541, Process Blue, #287, Purple, Violet, #233, #246, #265, Black, #872, #423, Cool Gray #2, #445, #443, #877, #469, #464, #1545, #477</ImprintColors>
  <ProofInfo>2 Free PDF proofs included with every order. Addl. at $15(g). Spec sample $125(g).</ProofInfo>
  <PMSCharge>50</PMSCharge>
  <PMSChargeCode>G</PMSChargeCode>
  <CopyChangeCharge>15</CopyChangeCharge>
  <CopyChangeChargeCode>G</CopyChangeChargeCode>
  <ArtChargeHr>60</ArtChargeHr>
  <ArtChargeHrCode>Z</ArtChargeHrCode>
  <ArtChargeJob>0</ArtChargeJob>
  <ArtChargeJobCode></ArtChargeJobCode>
  <ProofCharge>15</ProofCharge>
  <ProofChargeCode>G</ProofChargeCode>
  <SpecSampleCharge>125</SpecSampleCharge>
  <SpecSampleChargeCode>G</SpecSampleChargeCode>
  <OrderChangeInfo></OrderChangeInfo>
  <OrderCancelInfo>After order is in progress or materials have been purchased may require payment for restocking or work performed.</OrderCancelInfo>
  <LessMinInfo>$50(g) charge.</LessMinInfo>
  <OverrunInfo>95 percent of orders ship quantity as ordered. For exact quantity, add 10 percent for special handling.</OverrunInfo>
  <ShipInfo>F.O.B. Factory. We ship UPS and LTL Truck. Add $15(z) for FedEx 3rd Party Arrangements and $10(z) for UPS 3rd Party Arrangements.</ShipInfo>
  <TermsInfo>Prepayment in Full required for 1st time orders(and inactive accounts). Terms may be requested thereafter.</TermsInfo>
  <WarrantyInfo></WarrantyInfo>
  <ReturnsInfo></ReturnsInfo>
  <CoOpInfo>Next Column or End-Quantity Pricing available for Self-Promo products, depending on type of product.</CoOpInfo>
  <OtherInfo></OtherInfo>
</GeneralInfo>
</SupplierInfo>
</ProductDetail>
</Products>
</SupplierProductDataDumpResults>
</XMLDataStreamResponse>

```

Signature Stores™ Product List (SigStoreProducts)

If you are a SAGE Signature Stores™ subscriber, you can obtain the product data from your signature store through the DataStream. Signature Stores are pre-built collections of items for a specified theme. Please note that you need to activate the stores that you would like to use from the Signature Stores setup page in SAGEmember.com.

Request Structure

Field name	Description	Type	Length	Required	Notes
Ver	API version	Float		*	
Auth	Authentication information	Auth Record		*	
SigStoreProducts	Signature Store product information	SigStoreProducts Record		*	

Auth Record:

Field name	Description	Type	Length	Required	Notes
AcctID	Account number	Int		*	
LoginID	Login ID	String		*	
Password	Password	String		*	

SigStoreProducts Record:

Field name	Description	Type	Length	Required	Notes
Issue	Issue number or blank for latest	String			
Theme	Theme number	String		*	

```
<?xml version="1.0" encoding="UTF-8"?>
<XMLDataStreamRequest>
  <Ver>3.2</Ver>
  <Auth>
    <AcctID>XXXXXX</AcctID>
    <LoginID>XXXXXXXX</LoginID>
    <Password>*****</Password>
  </Auth>
  <SigStoreProducts>
    <Issue></Issue>
    <Theme>10</Theme>
  </SigStoreProducts>
</XMLDataStreamRequest>
```

Response Structure:

Field name	Description	Type	Length	Required	Notes
Ver	API version	Float		*	
SigStore	SigStore Record	Signature Store information		*	

SigStore Record:

Field name	Description	Type	Length	Required	Notes
Issue	Issue number	Int			
Theme	Theme number	Int			
Name	Store name	String			
Products	Products Record	Product information			

Products Record:

Field name	Description	Type	Length	Required	Notes
Count	Item count	Int			
SupplID	Supplier's SAGE #	Int			
PrName	Product name	String			
ItemNum	Product item number	String			
Description	Product description	String			
AdditionalInfo	Additional information	String			
Colors	Colors	String			
Sizes	Sizes	String			
ImprintArea	Imprint area	String			
Qty1	Quantity column 1	Int			
Qty2	Quantity column 2	Int			
Qty3	Quantity column 3	Int			
Qty4	Quantity column 4	Int			
Qty5	Quantity column 5	Int			
Qty6	Quantity column 6	Int			
Prc1	Price column 1	Currency			
Prc2	Price column 2	Currency			
Prc3	Price column 3	Currency			
Prc4	Price column 4	Currency			
Prc5	Price column 5	Currency			
Prc6	Price column 6	Currency			
PriceUnit	Units for pricing	Currency			
PrCode	Price code	String			
Net1	Cost column 1 (confidential)	Currency			
Net2	Cost column 2 (confidential)	Currency			
Net3	Cost column 3 (confidential)	Currency			
Net4	Cost column 4 (confidential)	Currency			
Net5	Cost column 5 (confidential)	Currency			
Net6	Cost column 6 (confidential)	Currency			
PricingNote	Pricing note	String			
ProdTime	Production time	Int			
Packaging	Packaging	String			
ThumbPicLink	Thumbnail picture URL	String			
DetailPicLink	Detail picture URL	String			

Notes:

- The issue number is made up the year and the quarter in the form YYYYQQ. For example, Q2 of 2009 would be 200902. Note that the issue number can be omitted in the request if you wish to obtain the current issue of the specified store.
- The theme is a numerical value between 1 and 12 corresponding to the store theme number. Visit SAGEmember.com's Signature Stores setup page to find the theme number that you wish to use.

```
<?xml version="1.0" encoding="UTF-8"?>
<XMLDataStreamResponse>
  <Ver>3.2</Ver>
  <LegalNote>USE SUBJECT TO TERMS OF YOUR AGREEMENT. UNAUTHORIZED USE PROHIBITED. SUPPLIER INFORMATION IS CONFIDENTIAL. (C) 2016 QUICK TECHNOLOGIES INC.</LegalNote>
  <SigStore>
    <Issue>201603</Issue>
    <Theme>10</Theme>
    <Name>Drinkware</Name>
    <Products>
      <Product>
```

```

<Count>1</Count>
<SuppID>68218</SuppID>
<PrName>16 Oz. Pint Glass With Satin Etch</PrName>
<ItemNum>PG-1</ItemNum>
<Description>Made in USA glass pint / mixing glass</Description>
<AdditionalInfo></AdditionalInfo>
<Colors>Clear/Assorted</Colors>
<Sizes></Sizes>
<ImprintArea></ImprintArea>
<Qty1>48</Qty1>
<Qty2>96</Qty2>
<Qty3>288</Qty3>
<Qty4>576</Qty4>
<Qty5>1008</Qty5>
<Qty6>2520</Qty6>
<Prc1>3.29</Prc1>
<Prc2>3.04</Prc2>
<Prc3>2.69</Prc3>
<Prc4>2.34</Prc4>
<Prc5>2.00</Prc5>
<Prc6>1.95</Prc6>
<PriceUnit>each</PriceUnit>
<PrCode>CCCCC</PrCode>
<Net1>1.97</Net1>
<Net2>1.82</Net2>
<Net3>1.61</Net3>
<Net4>1.40</Net4>
<Net5>1.20</Net5>
<Net6>1.17</Net6>
<PricingNote>Setup: $40.00 (G). Additional charges may apply.</PricingNote>
<ProdTime>3 to 5 working days</ProdTime>
<Packaging>Bulk</Packaging>
<ThumbPicLink>http://www.promoplace.com/ws/ws.dll/SigStorePic?UN=3022&Prod=31461&Type=T&Age=1222339495</ThumbPicLink>
<DetailPicLink>http://www.promoplace.com/ws/ws.dll/SigStorePic?UN=3022&Prod=31461&Type=B&Age=1222339495</DetailPicLink>
</Product>
...
<Product>
<Count>30</Count>
<SuppID>52662</SuppID>
<PrName>24 Oz. Alta Series Tritan Water Bottle</PrName>
<ItemNum>P500</ItemNum>
<Description>BPA Free Tritan construction, neoprene sleeve (one color imprint only) keeps drink cool and hands dry. Twist on, spill resistant, flip up, drink through spout with straw. Included straw that allows users to have drinking options and hinged carry strap with clasp. Complies with FDA. 10.25" H</Description>
<AdditionalInfo>Environmentally Friendly</AdditionalInfo>
<Colors>Clear, Smoke Gray, Red, Blue, Assorted</Colors>
<Sizes></Sizes>
<ImprintArea>2 1/2" w x 1 1/2" h on 1 color imprint on bottle (1 side only). Second imprint option: 2 1/2" w x 4" h on 1 color imprint only on sleeve (1 side only). Screen printed. Price includes 1 color, 1 side only, 2 locations</ImprintArea>
<Qty1>72</Qty1>
<Qty2>144</Qty2>
<Qty3>288</Qty3>
<Qty4>576</Qty4>
<Qty5>1008</Qty5>
<Qty6>1980</Qty6>
<Prc1>7.99</Prc1>
<Prc2>7.59</Prc2>
<Prc3>7.44</Prc3>
<Prc4>7.29</Prc4>
<Prc5>7.14</Prc5>
<Prc6>6.99</Prc6>
<PriceUnit>each</PriceUnit>
<PrCode>CCCCC</PrCode>
<Net1>4.79</Net1>
<Net2>4.55</Net2>

```

```

<Net3>4.46</Net3>
<Net4>4.37</Net4>
<Net5>4.28</Net5>
<Net6>4.19</Net6>
<PricingNote>Setup: $85.00 (G); Repeat Setup: $12.50 (G); Additional Color Setup: $85.00 (G); Additional Color Running Charge: 72-$0.75, 144-$0.73, 288-$0.71, 576-$0.68, 1,008-$0.64, 1,980-$0.60 (CCCCC). Additional charges may apply.</PricingNote>
<ProdTime>8 to 10 working days</ProdTime>
<Packaging>Bulk</Packaging>
<ThumbPicLink>http://www.promoplace.com/ws/ws.dll/SigStorePic?UN=3022&Prod=31445&Type=T&Age=1220758097</ThumbPicLink>
<DetailPicLink>http://www.promoplace.com/ws/ws.dll/SigStorePic?UN=3022&Prod=31445&Type=B&Age=1220758097</DetailPicLink>
</Product>
</Products>
</SigStore>
</XMLDataStreamResponse>

```

Field Descriptions

Request Fields:

Field name	Description	Type	Length	Required	Notes
Ver	API version	Float			Contains the version of the API specification that is implemented. As new versions are implemented on the server-side, this information will be used by the server to determine how to process the request. As you upgrade your implementation to a new API specification, this version number should be updated. The current specification version is in the footer of this document.
AcctID	Account number	Int			This field should contain your SAGE Account #
LoginID	Login ID	String	25		This field should contain your login name (after you set up a user in SAGEmember.com, put that user's login name here). DO NOT USE YOUR ACCOUNT # OR ANOTHER ADMINISTRATOR XXXXXXXX!
Password	Password	String	25		This field should contain the SAGE password corresponding to the LoginID.

Error Codes

If an error is encountered during the processing of a request, you will receive an XML stream back with a Success flag of "0" and an error message in the "ErrMsg" field. The error message consists of two parts – an error code and a message. The error code is the first three digits, followed by a colon, followed by the message (e.g., "200:Invalid query action"). Following is a list of applicable error codes:

Error Code	Message	Description
------------	---------	-------------

Error Code	Message	Description
102	Invalid Host. Please check your host URL.	You need to connect using the standard DataStream URL (www.promoplace.com).
103	Request data not found	The submitted request did not contain any data. Make sure that you are submitting the request as a "POST" operation.
110	System not available	This message indicates that the system is currently unavailable. The most likely cause for this is routine system maintenance during occasional normal maintenance windows.
111	Invalid Acct ID	Make sure you are entering a valid SAGE account ID (see Authentication section) (see Testing Your Implementation).
112	Incorrect login information	Make sure that your user ID and password are correct.
114	Access denied	The login information that you provided does not have access to the DataStream.
200	Invalid query action	The query you submitted contains an invalid query action. Please make sure that your XML request is correct.
201	Query action not supported	The query action that you submitted is not supported by the version of DataStream that you currently have. Please see the chart at the beginning of Section IV above.
210	Cannot return category list.	Make sure that your category list request is properly formatted.
211	Cannot return theme list.	Make sure that your theme list request is properly formatted.
215	Cannot return supplier list.	Make sure that your supplier list request is properly formatted.
220	Product not found	The requested product could not be found. Verify that you are requesting the correct product ID. This error could also occur if a product has been removed from the SAGE database.
230	Supplier not found based on product ID	The supplier could not be located for the requested product. Check the product ID.
231	Supplier not found	The requested supplier could not be found. Please make sure that you submitting a valid SAGE ID for the supplier in your request.
232	Reached LCO capacity limit	You have downloaded the maximum number of suppliers that you are currently licensed to cache locally. Please contact sales to increase the number of suppliers in your license.
300	General error while searching	The system encountered an error while searching. If this error continues, please contact SAGE technical support.
301	Not enough search criteria specified	A search request was submitted without enough criteria. Your search form should verify that the user has filled in at least one of the available search fields before allowing the search to begin.

Error Code	Message	Description
302	Error in search query	There was an error in the search query. This is often caused by mal-formed search criteria entered into the search fields. If this error occurs, you should prompt the user to check their search criteria and make sure everything is entered properly (i.e., proper use of parentheses, etc.).
303	Search timed out	The search took too long to process. If this error is returned, recommend that the user try again or adjust the search criteria.
304	Too many active searches	There are too many active searches at the moment. You should not see this error often. If you see it more than on rare occasion, please contact support.
400	Signature Store not found	The specified Signature Store was not found. Check your issue value and your theme value.
401	Signature Store is not active	The specified Signature Store is not active for this account. You must be paying for a subscription to Signature Stores and have the specified Signature Store selected as active in SAGEmember.com.

Testing Your Implementation

If you already have the DataStream service activated on your SAGE account, you can use your own login information to test your implementation. If you do not yet have the service activated on your account, you may contact us for a 30-day trial subscription. Trial subscriptions have full access to the data so that you can test your application with “real world” data before subscribing.

Network and Performance

The SAGE DataStream operates from SAGE’s wholly-owned and operated network centers. We have redundant connections to the Internet, redundant servers and other equipment, redundant power systems, and a variety of other equipment to help ensure reliability and performance. Our networks are monitored 24/7/365 for reliability, performance, and security issues. Our systems are upgraded often for increased performance.

The connection to the DataStream operates separate from the connection between the web visitor and your web server. Essentially, your web visitor’s connection is put “on hold” while your web server communicates with the DataStream server and receives a response. Therefore, it is important that your web server be hosted at a location that has a very good connection to the Internet. If you are concerned about network speed, we recommend that you consider hosting your website with us on our servers. We offer full web hosting at very competitive rates. If your site is hosted on our servers, the DataStream will be connecting within our own network, removing any potential Internet-related delays.

Technology Partners

We have a Technology Partner Program designed for other industry service providers who wish to integrate their platforms with SAGE data. If you have or are looking at other back-end systems that you want to integrate with SAGE, ask your other provider if they are an authorized SAGE Technology Partner. If you are a solution provider and you would like more information about our

Technology Partner Program, please call 800.925.7243 or write support@sageworld.com. As part of the partner program, we provide access to the Technology Partner Integration Toolkit.

Getting Help

If you need assistance with the DataStream, please contact our support team at 214.631.6000 or write support@sageworld.com. Please note that our support of this product is limited to assistance with submitting queries to our servers and obtaining the response. We cannot assist you with your custom application development. You will need your own developers with XML experience at your disposal in order to successfully implement this technology.