

elastic

FLAT FILE DATA INTEGRATION

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Flat File Approach

This document defines the standard flat file approach for exchanging information between systems (comma separated text files). We request UTF-8 encoding but have the capacity to import non-standard flat files (differing encodings, separators, or formats). Elastic bulk reimports from files. Order history is an exception, each file is an update on previous data.

1. Product Information:
 - Catalog Master
 - Catalog Mapping
 - Product / Tag
 - Pricing
 - Product Features
2. Customer Account Information
 - Customer (Sold to Accounts) / Tag
 - Locations (Ship-To)
 - Rep Master
 - Rep to Account Mapping
 - User import (optional)
3. Supplemental Information
 - Related Products
 - Technology
 - Technology Mapping
4. Inventory
5. Order History

The detail of these data sets is further described in this document. It should be noted that records that do not contain all the required information will not be imported. The Elastic database is very flexible and can accommodate additional information. Please refer to the notes in some sections if the base import does not meet your data requirements. A non-standard option might exist that closes the gap.

Notes

- Key values are case sensitive.
- When matching across files it is important to not only match the characters, but also the case.
- All columns should be maintained.
- If columns are unused, they should be left blank but included in the file.
- File names should be in lower case.

Product Information

Catalog Master

The catalog master details the specifics of top-level catalog/books.

File Name: catalogs.csv

Field	Required	Type	Usage
Catalog Key	Y	String, NO spaces NO underscores	The internal catalog identifier. Once established, it should not change. Must be unique. NO underscores, spaces, or special characters
Catalog Name	Y	String	The name displayed to the user.
Catalog Permission Group	Y	String List	The security group of the catalog. If multiple string values are provided, they should be separated with a semicolon.
Catalog Type	Y	Value list	This controls if availability is used for this catalog, blocking = bound by inventory and date nonblocking = no inventory constraints backorder = bound by inventory unrestricted = inventory displayed, no inventory constraints Values = blocking, nonblocking, backorder, unrestricted
Catalog Position	Y	Integer	The sequence the catalogs display in the list
Live Date Start	N	Date (YYYYMMDD)	Catalog will become active on this date.
Live Date End	N	Date (YYYYMMDD)	Catalog will be inactive on this date.
Review Flag	N	Y or N	Controls if dealer orders are submitted to reps for review. The default of Nonblocking = Y, Blocking = N
First Ship Date	N	Date (YYYYMMDD)	This will be the default start ship date when an order is created. The user will not be able to set a date before this date.
Last Ship Date	N	Date (YYYYMMDD)	User will not be able to set ship date after this date

Last Cancel Date	N	Date (YYYYMMDD)	This will be the last date a user can select as a cancel date.
Shipping Window (Default Cancel)	N	Integer	This is the number of days required between the start ship date and the cancel date
Season Code	N*	String	Used to associate seasonal images and prices.
Ship min days	N	Integer	The min ship date is set this many days in front of the earliest ship date
Ship default days	N	Integer	The default ship date is set this many days in front of the earliest ship date
Ship max days	N	Integer	The maximum number of days that can be between the first date and the last ship date
Max cancel days	N	Integer	The maximum number of days between the ship date and the cancel date
Min cancel days	N	Integer	The maximum number of days between the ship date and the cancel date
Warehouse	N	String	TO override the customer warehouse for this catalog
Ship Date 1	N	Date	Used to automatically create shipments within an order. The date of the shipment will be the ship date value from the catalog. You can use 0 to 5 ship dates. unused columns should be retained but can be blank
Ship Date 2	N	Date	Used for automated shipment creation.
Ship Date 3	N	Date	Used for automated shipment creation.
Ship Date 4	N	Date	Used for automated shipment creation.
Ship Date 5	N	Date	Used for automated shipment creation.
Tag - Brand	N	String	Catalog attribute
Catalog Classification	Y	Value List	ATS or Prebook
Price Group	N	String	An override price group for this catalog

Notes

- If you provide any dates, you must provide all the dates you want to use. It is not possible to maintain some dates manually and others by flat file.

- If you cannot provide all the content. The min content in a non-standard configuration is the key and name.
- If you have season code in the price table, you should populate the season column. If you do not, leave it blank.
- If you use effective dates in pricing, you must provide first ship date here.
- If you use seasonal images, you must include a season here.
- You can override the price group for a catalog by including a price group.

Catalog Mapping

This links the catalog to the products and provides the sequence the products should be displayed. This mapping can be done at **the** variation level (style/color). All sizes are assumed **to be included**. This can also be mapped at the **UPC** level.

File Name: catalog_mapping.csv

Field	Required	Type	Usage
Catalog Key	Y	String	The internal catalog identifier. Once established, it should not change. Must match the catalogs.csv value.
Catalog Sort	Y	Integer	The sequence the products are displayed. This is commonly called workbook or catalog order. The sequence of a style must be unique within a catalog.
Style Number	Y	String	This links the product to the catalog
Color Code	Y	String	This can be used to link the combination of the product and color to the catalog

Alternate view

Field	Required	Type	Usage
Catalog Key	Y	String	The internal catalog identifier. Once established, it should not change. Must match the catalogs.csv value.
Catalog Sort	Y	Integer	The sequence the products are displayed. This is commonly called workbook or catalog order. The sequence of a style must be unique within a catalog.
StockItemKey	Y	String	This links the product to the catalog

Notes

- The sort order will be based on the first StockItemKey of a style color.

Product

The core of the application is based on product information. The quality and completeness of this data will greatly influence the quality of the user experience. The following data elements are expected within the products file. Elastic is expecting a single row for each unique UPC per region.

File Name: products.csv

Field	Required	Type	Usage
Region	Y	String	For instances when product is regional specific. Example: A UPC has a different size name in Spain (44) and US (M). Or a Tag value is different in the US (Flip Flop) versus in AUS (Slap) Or Products copy is in multiple languages. This is NOT related directly to selling territories.
Product/Style Number	Y	String	The displayed style number
Product Name	Y	String	The displayed style name
StockItemKey	Y*	String	Generally, this is either the UPC of the SKU This is used to link to other files in the data. e.g. prices, inventory etc.
SKU	Y*	String	The internal identifier of the product
UPC/EAN	Y*	String	The external identifier
Product Permission Group	Y	String List	The product permission group.
Color Code	Y	String	A code the uniquely identifies the color of the product
Color (General)	N	String	This is used for the color palette filter.*note text is case sensitive http://admin.support.elasticsuite.com/support/solutions/articles/5000684950-elastic-general-colors-for-filtering
Color Name (Specific)	Y	String	The displayed color name
Color Sort Order	Y	Integer	The sequence the colors are displayed
Available Date	N	Date (YYYYMMDD)	A date that can be used to control when a product is ordered. This is not dependent on inventory
Size Name	Y	String	The display name for size (e.g. L, or 8)

Size Sort	Y	Integer	Order of sizes within a colorway
Alternate Size	N	String	Inseam or width (e.g. wide shoes, x32 jeans)

Notes

- Region is required but can be the same value if not used.
- The StockItemKey must be unique. Generally, it should be populated with either the UPC or SKU
- Permission groups are required, but can be the same value (e.g. default value "ALL")
- If you use Alternate size, you will need to identify the specific a divider value in settings configuration (outside the scope of this document)
- As a non-standard configuration, tags can be included in the products file if a Product Tag file cannot be generated.

Product Tags

This file is used to generate all the product filter criteria in the application. Catalog key is optional.

The region must match a product region in the products.csv. If a row has a catalog key, that value will be used only for matching catalogs. If no catalog is specified it can be used for any catalog.

File Name: product_tags.csv

Field	Required	Type	Usage
Region	Y	String	Where products are regional. Must match the product value
Catalog Key	N	String	Used when tags are catalog specific, Catalog key records will be used before blank catalog key records
Style	Y	String	The product number
Color	N	String	The color code. If included it will become a tag at the color level. If blank it will apply to the entire style
Tag Name	Y	String	The name of the tag. This will become the filter name in the application
Value Tag	Y	String List	The value of the filter.

Notes

- Region should be included to match the product region.
- Catalog key can be used but must be used for an entire style for a given tag name.

Price

The price a customer receives when they log in is based on the catalog they are in, the currency and price group of the customer. The price table is linked to the product table based on StockItemKey. Reps can often select dealers with different price groups.

File Name: prices.csv

Field	Required	Type	Usage
Catalog Key	Y	String, no spaces	Used for catalog-specific pricing
StockItemKey	Y	String	Used to join to the product master
Price Group	Y	String	Used to join to the customer. This is the price list of the customer.
Currency Code	Y	String	Used to join to the customer. ISO format
Wholesale Price	Y	Decimal	Wholesale price displayed
Retail Price	Y	Decimal	Retail price displayed

Notes

- Records that do not contain all required fields will not be imported.
- As a non-standard setup, you can use a season code instead of a catalog key. If you use season here, you must have season in the catalog.csv file.
- As a non-standard setup, prices can be provided at the Style/ Color level. If so, remove StockItemKey and replace with Style and a color column.
- As a non-standard setup, effective dates can be used. Remove the catalog key and replace with effective start and effective end.

Product Features

This table is used to list additional features about a product. Features can be grouped and segmented by the attribute type. This information is displayed within browse and the product detail page. The product feature table is linked to the product table based on product number.

File Name: features.csv

Field	Required	Type	Usage
Region	Y	String	Used for language and regional differences
Product Number	Y	String	Used to join to the products table
Attribute Name	Y	String	The name of the attribute in plural form (e.g. Features, Specifications). This is a category of features.
Attribute Sort	Y	Integer	The sequence in which the attributes are

			displayed.
Attribute Text	Y	String	The description of the attribute (e.g. Waterproof and breathable)
Attribute Value Sort	Y	Integer	The sequence the descriptions appear

Notes

- Region should match the product region.
- As a non-standard set-up, features at the color level is supported.

Example display for a product:

Overview:

The product is designed to be lightweight and quick drying for all activities.

Fabric

- Gore-Tex
- Leather

Features

- Zipper Pockets
- Zip off hood
- Internal Drawcord

The data for this would look like this:

Product	Attribute	Sort	Description	Sort
Style 1	Overview	1	The product is designed to be lightweight and quick drying for all activities	1
Style 1	Fabric	2	Gore-Tex	1
Style 1	Fabric	2	Leather	2
Style 1	Feature	3	Zipper Pockets	1
Style 1	Feature	3	Zip off Hood	2
Style 1	Feature	3	Internal Drawcord	3
Style 1	Post Catalog Revisions	4	Elastication at back of hood is stronger	1

This iconic jacket is constructed with recycled fleece for unmatched warmth, comfort and durability.

SPECIFICATIONS

- Sizes: XS, S, M, L, XL, XXL, 3XL
- Avg Weight: 700 g (24.7 oz)
- Center Back: 28"

FABRICS

- solid: 333 g/m² Recycled Polartec® 300 Series—100% recycled polyester classic fleece with durable water-repellent (DWR) finish
- heather: 342 g/m² Recycled Polartec® 300 Series—65% recycled polyester, 35% polyester classic fleece with DWR finish
- solid overlay: 70D 118 g/m² 100% nylon

FEATURES

- Relaxed fit
- Zip-in-compatible integration with complementing garments from The North Face®
- Reinforced shoulders, chest and forearms for abrasion resistance
- Stretch fabric on cuffs for added mobility and comfort
- Covered secure-zip hand and chest pockets
- Hem cinch-cord
- Media compatible
- Heather and print fabric options in select colorways

POST CATALOG REVISIONS

- Discrepancy: TUH - Recycled Rainy Day Ivory/Falcon Brown; Cuff will be Falcon Bro

Customer and Account Information

Customer

The customer data contains all sold to information. Information within the customer file is used to control access to catalogs and products within a catalog. Customers are authenticated using the Customer Number and Access Key. Reps can also be Customers.

File Name: customers.csv

Field	Required	Type	Usage
Product Permission Group	Y	String List	This is used to link customers to a product grouping within a catalog. This field can have multiple values separated by commas
Catalog Permission Group	Y	String List	This is used to link customers to the catalogs they have access to. This field can have multiple values separated by commas
Region	Y	String, no spaces	This links the customer to the correct regional product information
Sold To ID	Y	String	The primary key for sold-to accounts
Sold To Name	Y	String	The sold to account name. This is displayed in the purchase page

Currency Code	Y	3 Character Field	The currency in which amounts will be displayed.
Price Group	Y	String	This links the Sold-to to the price table
Access Key	N	String	This is a key, which, along with the sold to ID, allows a user to register for Elastic. This can be customer specific or system wide.
Billing Street Address 1	N	String	The street address line 1
Billing Street Address 2	N	String	The street address line 2
Billing Street Address 3	N	String	The street address line 3
City	N	String	The city
State/ Province	N	String	The state or province of the address
Postal Code	N	String	The postal code
Country	N	String	The country code
Warehouse	Y*	String	The inventory source
Language	N	String	The valid options are en- english en-GB english de - German ja - Japanese it - Italian fr- French zh-CN - Chinese es - Spanish ko - Korean

Notes

- Region should match the product region.
- Product and catalog permission groups should be included but can be a default value ("ALL"). Only matching values will be visible in product and catalogs.
- Warehouse is required if inventory is used.

Customer Tags

This file is used to generate all the customer filter criteria in the application. These are optional attributes attached to customer such as tier, group, payment terms and credit status. They can be used in dashboard configuration and sales programs.

File Name: customer_tags.csv

Field	Required	Type	Usage
Sold to	Y	String	Links the tag to the customer accounts
Ship to	N	String	Links the tag to the ship to location
Tag Name	Y	String	Name of the filter tag
Tag Value	Y	String List	Tag Filter value

Notes

- The tag name will become the name of the filter.

Locations (ship to)

The locations data contains all ship to information. Locations are linked to Customers and to Reps.

File Name: locations.csv

Field	Required	Type	Usage
Sold To ID	Y	String	The primary key for sold-to accounts
Ship To ID	Y	String	The primary key for ship-to locations
Ship To Name	N	String	The name of the location
Street Address 1	Y	String	The street address of the location line 1
Street Address 2	N	String	The street address of the location line 2
Street Address 3	N	String	The street address of the location line 3
City	Y	String	The city
State/Province	N	String	The state or province
Postal Code	Y	String	The postal code
Country	Y	String	The country

Notes

- Location tags are included in the customer tags files.
- A ship-to location can be associated with only a single sold-to ID.

Rep Master

The list of rep codes linked to customer accounts. This will also be the list of rep codes that users can be created against. A single rep code can have multiple accounts.

File Name: reps.csv

Field	Required	Type	Usage
Region	Y	String	Required
Rep ID	Y	String	The ID for the rep
Rep Name	Y	String	The name of the rep
Currency	Y	String	For catalog viewing
Price Group	Y	String	For catalog viewing and ordering as rep
Catalog Permission Group	N	String	Optional if you want to override the rollup approach - see note

Product Permission Group	N	String	Optional if you want to override the rollup approach - see note
Language	N	String	Sets the language emails language (see note)
Warehouse	Y	String	For reps want to view inventory from dashboard

Notes

- If reps will view a catalog, they need a price group, currency, and warehouse.
- Supported Language codes: en, en-GB, es, fr, it, de, ja, ko, zh-CN
- The rep will inherit the superset of the permissions of all the rep's customers by default.
- As a non-standard configuration, you can set an option that will look at the rep file for permissions and not rollup from the customer.

Rep to Account Mapping This links reps to customers.

File Name: rep_mappings.csv

Field	Required	Type	Usage
Rep ID	Y	String	The ID for the rep
SoldToID	Y	String	This is the link to the customer

Users Import

This **optional** file helps to mass-create users based on previously imported customer data.

File Name: users.csv

Field	Required	Type	Usage
Username	Y	String	login user name
SoldToID or RepID	Y	String	Associated Sold-to ID/ customer number
First Name	Y	String	first
Last Name	Y	String	last
Email	Y	String	email
Password	N	String	this should be left blank
ShipToID	N	String List	optional: specific locations only for this user
Update Existing	N	Y or N	optional: override a user if it exists in the system already?
Disable	N	Y or N	optional: to disable the user

Confirmation Emails	N	Value List	Values: all, self, none. Applies to order confirmation and order review emails.
Associated Customer	N	String	optional: In case there are multiple Customer Accounts that need to be linked to the user

Supplemental Information

Related Product

The related products table is used to associate similar or complementary products together. This information is displayed within the product detail page.

File Name: related.csv

Field	Required	Type	Usage
Type	Y	String	This specifies the type of relationship between the products. S = Similar C = Complementary
Style Number	Y	String	Used to join to the products table. This is the product the other styles are related to.
Color Code	Y	String	This field used to build the relationship at the color level for complementary products.
Related Product	Y	String	This is the related product
Related Color	Y	String	This is the related color (used for complementary)

Technology

The data lists the technology information.

File Name: technologies.csv

Field	Required	Type	Usage
Tech Key	Y	String	The primary identifier for the technology
Name	Y	String	The display name of the technology

Technology Mapping

This links the technologies to specific products. The technology listing is used within Browse.

File Name: tech_mapping.csv

Field	Required	Type	Usage
Tech Key	Y	String	The primary identifier for the technology
Style Number	Y	String	This links the technology to the product
Color Code	N	String	Optional: set tech at color level - see note
Sort	Y	Integer	This controls the sequence in which the technologies display.

Notes

- Technologies for all styles must be at the same level (style or style.color)

Transactional Information

Inventory

This data lists the inventory information displayed in Elastic. The data can include future availability or just current availability. The warehouse in this table links to the customer warehouse.

File Name: inventory.csv

Field	Required	Type	Usage
Warehouse	Y	String	This links to the customer warehouse and is the inventory source
StockItemKey	Y	String	This links to the products table
Available Date	Y	Date (YYYYMMDD)	This is the date future inventory will be available. If left blank, inventory is available today.
Quantity	Y	Integer	The quantity available

Order History

Order history shows the ERP order data provided to Elastic. This update uses an incremental update (versus a full regeneration).

File Name: order_history.csv

Field	Required	Type	Usage
ERP Order Type	N	String	An order classification from ERP
ERP Order Number	Y	Number	The primary order identifier from the ERP
ERP Line Number	Y	Decimal	The line identifier from the ERP
Elastic Order Number	N	String	The related Elastic order number
Customer PO	N	String	The customer reference number

Sold To ID	Y	String	This should link to the customer.csv table.
Sold to name	N	String	The description of the sold-to
Ship To ID	Y	String	This should link to the locations.csv table.
Ship to Name	N	String	The description of the ship to
Product Number	N	String	The product identifier. This should link to the products.csv table
Product Name	N	String	The product name
Variation Code (Color Code)	N	String	The variation identifier (color code). This should link to the products.csv table
Variation Name (Color Name)	N	String	The description of the color
Size Name	N	String	The size description
UPC	Y	String	This links to the products table
Status	Y	String	The order status of the line item (e.g. shipped, open, canceled)
Price	N	Decimal	The net price of the order line
Amount	Y	Decimal	Extended amount
Quantity	Y	Integer	The quantity available
Term Code Description	N	String	The description associated with the AR terms of the order line.
Currency	N	String	The currency code associated with the amount.
Order Date	N	Date (YYYYMMDD)	The date the order line was entered
Ship Date	N	Date (YYYYMMDD)	The date the order line was shipped
Invoice Date	N	Date (YYYYMMDD)	The date the order line was invoiced
Invoice Number	N	String	The invoice number of the order line
Carrier Code	N	String	The SCAC code the carrier (or name if SCAC is not available)
Tracking Number	N	String	The Tracking number of the line (if a line has more than one tracking numbers it can be repeated with different tracking numbers)

Notes

- Additional fields can be added as required.

- Review how rows will be updated and what key will be used.
- If lines are repeated by tracking number (by carton) the units and amounts need to be by carton as well

Order Output File

Elastic has worked extensively to create custom output files tailored to brand needs. Order output files can be csv, excel, xml, or json based depending on ERP requirements. We hold custom integrations with ERP solutions including NetSuite, SAP, ABS, Activate, and AX.

The order output file will contain the base Elastic Document data as well as any client specific fields. Hardcoded data elements can also be included if required by the source system. Each tab of an Elastic order will be posted as an individual file. If an order has three tabs, three flat files will be created.

Default example:

File Name: ordernumber-pagnumber.csv

Field	Type	Usage
Elastic Order Number	String	The order number
Customer PO	String	Customer Reference Field
Sold To ID	String	The customer account number
Ship To ID	String	The location ID
UPC/ SKU	String	The UPC or SKU. It uniquely identifies the product ordered
Currency	String	The currency code associated with the amount and price
Price	Decimal	The net price of the order line
Extended Amount	Decimal	Total amount for the line
Quantity	Integer	The quantity ordered
Discounts Percentage	Decimal	A calculated discount percent
Term Code	String	Calculated terms code
Order Date	Date (YYYYMMDD)	The date the order was entered
Start Ship Date	Date (YYYYMMDD)	The start ship date of the tab
Cancel Date	Date (YYYYMMDD)	The cancel date of the tab
Notes	String	Document or Page level notes
User Code (Order Type)	String	Additional attribute
User Code (Carrier)	String	Additional attribute

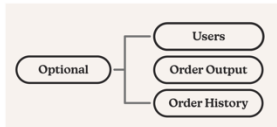
User Code (Ship Early)	String	Additional attribute
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Additional attribute fields can be added as required.

FTP Location

Elastic will provide an FTP location for files from Client to be posted (files.elasticsuite.com). The data files should be placed in the "data" directory. Elastic sets up a cron/nightly job to pick up new data and automatically begin data imports. Imports can also be triggered from the source side via an API.

Flat File Import Model



Flat File Data Model

ELASTIC SUITE INTEGRATION

*Not all configuration or fields shown

