

# CSV / Batch API

## Executive Summary

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Materialogic provides a mechanism to transfer multiple orders to our in-house Warehouse Mismanagement system (WMS), known as INFOplus. These orders must contain a unique internal order number valid SKUs, a valid branch number and, if different than billing, valid shipping address. Upon receipt, the files will be examined for validity, errors will be reported, and if no errors are found, the orders will be built into INFOplus. After shipping, a shipment status file can be generated to update the customer's ordering system. Also, an inventory status file can be generated periodically, to help keep the customer up to date with their inventory levels.

## Audience

This document was prepared for use by customers who wish to submit orders to INFOplus through the use of CSV data files.

## Prerequisites

Data files are transmitted between the customer and Materialogic through Materialogic's Secure FTP server. Please see the Materialogic documentation titled, "Data Transfer Service: SFTP", for information on setting this up.

## General Information

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This interface allows customers to send Materialogic data files from which order records are created for the associated account.

Each data feed batch of orders consists of two files, one containing header information (see [Requisition Header Record Field Definitions](#) table) for each order, and the other containing line-item information (see [Line-Item Record Field Definitions](#) table) for each order. The first row of each file should contain headings for the columns so that the program can know where to find each piece of information. The heading should be in lower case.

## File Naming

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When INFOplus looks for the set of order delivery batch files, there must be two files, beginning with "order\_header" and "order\_items", where the remainder of the file name is identical. File naming convention requires the file name to begin with the component listed below as 'file name' and end with the CSV file type. Materialogic recommends use of the remaining components to easily identify different transmissions of the same file. Components of the file name are separated by underscores and are as follow:

order\_header =order header file name or

order\_items = order line-item information file

xxx = inventory number assigned by Materialogic

yyyymmdd = year, month and date of the file

hhmmss = hour, minute, second of the file

csv = file type

For example, the files sent by inventory 123 on August 4, 2013 at 2:05:45PM would be named:



order\_header\_123\_20130804-140545.csv and

order\_items\_123\_20130804-140545.csv

Materialogic allows information to be exchanged via our secure server. Access will be set up upon acceptance and agreement of the terms between participants. Please refer to our Data Transfer Service document for details.

Once the file is accepted and the order data is loaded, changes to the orders may only be made within INFOplus.

## Data Specifications

All field names must be in lower case.

The fields listed in the name column with two names separated by "or" can be presented by either of the names. Symbols listed here are used in the Field Definitions table.

Data Type: A =alpha N =numeric

Required:

Y = Column must be present and the value is required by Materialogic.

Other columns should be evaluated on a customer-by-customer basis as they will probably have additional requirements.

N = Data is not generally required, depending upon each inventory's needs

+ = If this column heading is defined, every row must have a valid value.

\$ = Selectively required if the customer has any orders that are billed outside of Materialogic and the customer wishes the packing list to show payment information.

## Requisition Header Record Field Definitions

Field Name	Length	Data Type	Required	Description / Special Instructions
order_id	15	A	Y	Customer's unique order number. Only one order for any given order number will ever be accepted.
branch_no	10	A	Y	The entity for whom the order should be recognized. Each ordering entity has a branch record in INFOplus that includes their name, address, and additional information. The branch number could be a store# or a customer#, or something similar depending upon the business model. It would ideally (but not necessarily) be known by the orderer so that they can tie all of their orders to themselves, thus providing an ability to discover their order history. If the business model is not conducive to orderers knowing their branch#, other options can be discussed.
division	4	N	+	Location's division number (0-9999) (can refer to value in branch record, if branch exists, or a generic division code, based on configuration) Required depending upon account configuration.
cost_ctr	40	A	+	Location's cost center (can refer to a value in branch record, if branch exists, or a generic cost center code, based on configuration) Required depending upon account configuration. If not configured, and no default selected, order is rejected.
req_type	1	A	+	Req Type (for managing restriction levels). See <a href="#">Requisition Type table</a> . (Can be defaulted to an agreed-upon value)
svc_type	1	A	+	Service Level, see <a href="#">Service Type table</a> . (Can be defaulted to an agreed-upon value)*
email	75	A	N	Email address to send order confirmation
ship_via	4	N	+	Preferred carrier to ship via, see <a href="#">Carrier Codes table</a> . Defaults to 0



req_mess	50	A	N	Special shipping message (prints in packing list)
req_category	1	N	N	Special requisition info (code used on reporting)
contact_name	35	A	N	Attention field, first and last name of the party to receive the order.
company_name	35	A	Y	Company Name of the branch placing the order. If not provided, will use contact_name instead.
address1	35	A	Y	1 <sup>st</sup> line of address for branch placing the order.
address2	35	A	N	2 <sup>nd</sup> line of address for branch placing the order.
intl	35	A	N	International address information or 3 <sup>rd</sup> line of address for branch placing the order.
city	35	A	Y	USPS acceptable name of City of the branch placing the order.
state	2	A	Y	USPS standard State code (required for U.S. addresses only) of the branch placing the order.
zip	15	A	Y	Zip /Postal Code where applicable for branch placing the order
country	35	A	N	Country of the branch placing the order. Leave blank for U.S. addresses. Please see additional notes below
phone	20	A	N	Phone Number for recipient. Format: 999-999-9999.
<p>The above address information will be used to build a branch record if one does not exist for the branch placing the order. If there is no ship-to address information below, the address information above will also be used as a ship-to address.</p>				
shipto_company_name	35	A	N	
shipto_address1	35	A	N	
shipto_address2	35	A	N	
shipto_city	35	A	N	
shipto_state	2	A	N	
shipto_zip	15	A	N	
shipto_intl	35	A	N	
shipto_country	35	A	N	
shipto_phone	20	A	N	
gift_mess	250	A	N	If this is being ordered as a gift, a message of up to 250 characters can be provided. This must not contain special characters, carriage-returns, or line-feeds.
deliver_on	10	DATE	N	If a particular deliver-on date is required, provide that here. This may require some advance configuration in INFOplus. This is used in conjunction with the carrier_concept code.
abn_usage	1	A	+	Y or N to indicate if this order requests shipping of a quantity outside of normal range. If Y, the quantities shipped on this order are factored out of usage calculation for reorder notice.

residential	1	A	N	Y or N. Is this ship-to a residential destination?
auth_by	15	A	M	Who authorized the placement of the order?
order_date	10	DATE	+	MM/DD/YYYY format. Date must be "today" or greater. If not included or older than "today", "today" will be used.
cust_product_total *	10,2	\$	N	Total of line-item values (sum of cust_price_total)
cust_product_total_disc *	10,2	\$	N	Total of product discounts (sum of cust_disc_total)
cust_discounted_product_total *	10,2	\$	N	Total of discounted prices (cust_product_total – cust_product_total_disc)
cust_ship_and_hand *	10,2	\$	N	Amount customer was charged for shipping and handling
cust_req_date *	10	DATE	N	Date customer entered order (Before or up to "today")
cust_ins_value *	10,2	\$	N	Amount that the shipment should be insured for
cust_ins_charge *	10,2	\$	N	Amount customer was billed for insuring the shipment
cust_tax *	10,2	\$	N	Amount of all taxes applied to the order
cust_other_disc *	10,2	\$	N	Total amount of any non-product discount provided on the order Note: A discount of \$3.00 reduces the value of the order by \$3.00 A discount of -\$3.00 increases the value of the order by \$3.00
cust_other_disc_descr *	40	A	N	Optional description of discounts other than the product discounts
cust_total_charge *	10,2	\$	N	Grand Total charged to customer.
cust_pay_1_type	20	A	N	Payment type 1 (See <a href="#">Payment Types</a> )
cust_pay_1_amt	10,2	\$	N	Amount paid via payment type 1
cust_pay_1_ref	20	A	N	Reference to Payment such as a PO#, last 4 digits of credit card#, etc <i>Do not include full credit card number</i>
cust_pay_2_type	20	A	N	Payment type 2 (See <a href="#">Payment Types</a> )
cust_pay_2_amt	10,2	\$	N	Amount paid via payment type 2
cust_pay_2_ref	20	A	N	Reference to Payment such as a PO#, last 4 digits of credit card#, etc <i>Do not include full credit card number</i>
cust_pay_3_type	20	A	N	Payment type 3 (See <a href="#">Payment Types</a> )
cust_pay_3_amt	10,2	\$	N	Amount paid via payment type 3
cust_pay_3_ref	20	A	N	Reference to Payment such as a PO#, last 4 digits of credit card#, etc <i>Do not include full credit card number</i>
cust_po_number *	20	A	N	Customer's purchase order number
cust_po_amount *	10,2	\$	N	Value charged to customer's purchase order
integration_partner	80	A	Y	Name of partner through whom order is transmitted (ie UltraCart)
cust_order_source	80	A	Y	Name of ordering entity that accepted the original order from the customer. It could be the same as the integration partner or it could be something like Amazon, Ebay, etc, who passed order data to the integration partner.

entry_person	15	A	Y	Identification of person who entered the order. Could be a logname or other unique identifier.
order_code	20	A	N	Identification of ordering resource, such as the code on the back of a catalog.
ship_complete	1	A	N	Should the order only fill if it can ship complete? If not specified, it will not be required to ship complete.

\* These fields are recorded by INFOplus as notational only. They represent values outside of INFOplus, perhaps unknown to INFOplus, and they are not used within INFOplus. Currently, we offer to capture them in order to include them on a packing list. In that way, our packing list can accurately show any special pricing, discounts, totals, etc., that may have been agreed upon with the purchaser.

## Line-Item Record Field Definitions

Field Name	Length	Data Type	Required	Description / Special Instructions
order_id	15	A	Y	Ties to order_id in header record.
item_id	20	A	Y	Control number of item being ordered. Item number. Acceptable characters: A-Z, 0-9, period (.), backslash (\), plus (+), underscore (_), Open parenthesis ( ( ), close parenthesis ( ) ), pound sign (#), space (but not more than one in a row), dash (-).  Alternate item identifiers (SKUs) can be recognized with the appropriate configuration. See <a href="#">Alternate SKUs</a>
quantity_ordered	10	N	Y	How many of the item are being requested. Item quantity
cust_sku_description *	100	A	N	Customer's description of cust_sku
cust_price_each *	10,2	\$	N	Full price per piece, such that (cust_price_each * quantity_ordered) equals the cust_price_total for this item.
cust_price_total *	10,2	\$	N	Extended full price of the item, being equal to (quantity_ordered * cust_price_each)
cust_disc_each *	12,4	\$	N	Dollar value of any discount for each piece
cust_disc_total *	10,2	\$	N	Extended dollar value for the discount, being equal to (quantity_ordered * cust_disc_each)
cust_billed_total *	10,2	\$	N	The extended amount billed for the item after discount, being equal to (cust_price_total – cust_disc_total)
cust_item_disc_descr *	40	A	N	Optional description of the discount

\* These fields are recorded by INFOplus as notational only. They represent values outside of INFOplus, perhaps unknown to INFOplus, and they are not used within INFOplus. Currently, we offer to capture them in order to include them on a packing list. In that way, our packing list can accurately show any special pricing, discounts, totals, etc., that may have been agreed upon with the purchaser.

## Regarding pricing values:

When Materialogic needs to show billing information on a customer's packing list but we do not handle billing, we need to have all price-related values provided to us. The probability of rounding discrepancies depending upon how one billing entity or another does their calculations (especially with discounts) makes it impractical for us to try to accurately reproduce or validate the numbers. Therefore, we will only be able to accept the values that are provided and place them on the packing list, trusting to their accuracy. We will not reject orders based on price checks.

Here are some validations that you can do, and which might clarify how the values will be used.

- Each item's cust\_price\_total should equal its (quantity\_ordered \* cust\_price\_each)
- If cust\_disc\_each is provided, each item's cust\_disc\_total should equal its (quantity\_ordered \* cust\_disc\_each)
- Each item's cust\_billed\_total should equal its (cust\_price\_total – cust\_disc\_total)
  - If cust\_disc\_each is provided, it should also equal (quantity\_ordered \* (cust\_price\_each – cust\_disc\_each))
- Each order's cust\_product\_total should equal the sum of the items' cust\_price\_total
- Each order's cust\_product\_total\_disc should equal the sum of the items' cust\_disc\_total
- Each order's cust\_discounted\_product\_total should equal the sum of the items' cust\_billed\_total
  - It should also equal the sum of the order's (cust\_product\_total – cust\_product\_total\_disc)
- Each order's cust\_total\_charge should be equal to the order's (cust\_discounted\_product\_total + cust\_ship\_and\_hand + cust\_tax – cust\_other\_disc)

## Code Definitions

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Note: Codes listed here are generic example values. Special codes developed for specific inventories may be available through the Account Manager.

## Requisition Types

Code	Description
1	Interim Order
2	Cycle Order
3	Home Office Approved - ITEM
4	Home Office Approved – ALL

## Payment Types

Credit cards are not currently accepted through this interface.

Cash
Check
Gift Card
PayPal
Gift Card
External PO

## Service Types

(Fields in gray are for reference only - Not available for order submissions)

Code	Description	Meaning (This is inventory specific)
1	Standard Svc	Standard Service is customized by contractual requirements.

2	Next Day Svc	Option offered to companies with multiple day Standard Service, requiring that orders received on during today's business will be shipped by close-of-business on the following business day.
3	Same Day AM Svc	Orders received in today's AM will be shipped by close-of-business today.
4	Same Day PM Svc	Orders received in today's PM will be shipped by close-of-business today.
5	Mass Distribution	Product distribution (push) not based on customer order.
6	Next Day AM Svc	Orders received in today's AM will be shipped by close of next business day.
7	Next Day PM Svc	Orders received in today's PM will be shipped by close of next business day.
B	Back Order	Items on back order
D	Destruction	Requisition for destruction of items.
F	Freight Only	Requisitions with nothing shipped from inventory, no requisition and line (distribution) charges.
J	Not Charge Rush	Shipments on which Materialogic chooses to rush without requisition and line (distribution) charges.
K	Kit Assembly	Order was to relieve inventory of components for kit assembly. For Materialogic use only.
R	Return	Returned requisitions.
T	Transfer	Transfer within or across inventory.
V	Outside Vendor	Order sent to outside vendor for fulfillment and shipping.

## Carrier Codes

Other options may be available, please check with your Materialogic contact.

<b>0</b>	<b>UPS Ground</b>
1	UPS – 1 Day Service
2	UPS – 2 <sup>nd</sup> Day
3	UPS – 3 Day Service
5	UPS – 1 <sup>st</sup> day – Sat Delivery
7	UPS Standard Canada/Mexico
8	UPS Intl Expedited (Blue)
9	UPS Intl Express (Red)
15	UPS 1 <sup>st</sup> Day AM Delivery
101	First Class Mail
2170	First Class Mail International
2180	Priority Mail International

## Recognition of Alternate SKUs

INFOplus identifies each item in an inventory by its control number. Normally all orders are placed using that designation.

Sometimes one of our customers does business with one or more third parties who know the items by different identifiers. For example, you might distribute an item that you identify as DESK-LAMP1. You might also distribute that same item on behalf of another business (say, Metro Supply) who calls it SKU# DL60W. If you want to pass us an order for DL60W, Materialogic can set up a configuration to manage the translation.

The preparation to use alternate SKU translations involves two steps by Materialogic. We would define:

1. A numeric code that you would use to identify the cust\_order\_source (in this case, Metro Supply) in the header record. This would be assigned by Materialogic.
2. A translation record that identifies a SKU of DL60W from that order source as the item INFOplus knows as DESK-LAMP1.

Upon receipt of the order, our loading program would make the translation and store the order as DESK-LAMP1. All activity would take place in INFOplus for that item number. When the packing list is printed, it will be translated back to the SKU that the order source knows it by.

If this is a feature that you wish to employ, please contact your customer service representative.

## International Shipments

For shipments within the U.S. you can either leave the country field blank (preferred) or use one of the following codes: "US" "U.S." "USA" "U.S.A." or "United States"

With one exception (below), no shipments outside of the U.S. should use the state field.

For shipments to Canada, please place "CANADA" in the country field. Canadian provinces should be placed in the "intl" field or, if you would like, you can leave the intl field blank and use one of these state codes for Canadian provinces. In this case, INFOplus will translate them out of the state and into the intl field.

- AB = ALBERTA
- BC = BRITISH COLUMBIA
- MB = MANITOBA
- NB = NEW BRUNSWICK
- NL = NEWFOUNDLAND AND LABRADOR
- NT = NORTHWEST TERRITORIES
- NS = NOVA SCOTIA
- NU = NUNAVUT
- ON = ONTARIO
- PE = PRINCE EDWARD ISLAND
- QC = QUEBEC
- SK = SASKATCHEWAN
- YT = YUKON TERRITORY

## Sample Data Files

### Header File

```
order_id,branch_no,division,req_type,svc_type,email,ship_via,req_mess,req_category,contact_name,company_name,address1,address2,intl,city
,state,zip,country,phone,abn_usage,residential,auth_by,order_date,cust_req_date,cust_product_total,cust_product_total_disc,cust_discounted_p
roduct_total,cust_ins_value,cust_ins_charge,cust_other_disc,cust_other_disc_descr,cust_ship_and_hand,cust_tax,cust_total_charge,cust_pay_
1_type,cust_pay_1_amt,cust_pay_1_ref,cost_ctr,integration_partner,cust_order_source,entry_person,cust_po_number,cust_po_amount
21744,1,4,1,1,champion@contest.com,0,,,Scott Rampart,,409 Sausage Lane,,,Haverston,GA,31312,United
States,555-505-8888,N,Y,,12/20/2009,12/20/2990,32.89,0,32.89,0,0,0,,5,0,37.89,Discover,37.89,4727,,UltraCart,UltraCart,jeff,,
21751,1,4,1,1,laura@myemail.com,0,Please leave box outside the door.,Laura Preston,,10229 Gold Leaf Lane,,,Woodside,WI,54409,United
States,555-505-2588,N,Y,,12/21/2009,12/21/2009,130.45,7.5,122.95,150,4.15,12.3,Frequent
```





Orderer,12,0,126.8,MasterCard,126.8,2168,,UltraCart,Amazon,laura@myemail.com,,  
21752,1,4,1,1,moody3886@yahoo.org,0,,Willard Sconti,,10315 Godwin Dr,,Manassas,VA,20110,United  
States,555-414-4411,N,Y,,12/21/2009,12/19/2009,180,15,165,150,4.15,0,,12,0,181.15,Visa,181.15,3062,,UltraCart,UltraCart,web,,  
21753,1,4,1,1,catkey001-abc@gmail.com,0,,Aloysius Pendergast,,2950 190th Street,,New Orleans,LA,50271,United  
States,555-468-5900,N,Y,,12/21/2009,12/21/2009,19.96,6,13.96,0,0,0,,5,0,18.96,MasterCard,18.96,2812,,UltraCart,ebay,axlp@gmail.com,,

## Line-Item File

order\_id, item\_id, quantity\_ordered, cust\_sku\_description, cust\_price\_each, cust\_price\_total, cust\_disc\_each, cust\_disc\_total, cust\_billed\_total,  
cust\_item\_disc\_descr  
21744,3FM,1,3FM,PRACTICE DEVICE,32.89,32.89,0,0,32.89,  
21751,C2-BSTOCK,5,C2-BSTOCK,US MAP,4.99,24.95,1.5,7.5,17.45,EXPIRED EDITION  
21751,SPT4,1000,SPT4,BROCHURE - PRODUCT LINE,0.1055,105.5,0,0,105.5,  
21752,UE-MX43,5000,UE-MX43,TEXAS LABELS,0.036,180,0.003,15,165,OVER 1000 QUANTITY BREAK  
21753,5009-30B-SC,4,5009-30B-SC,US MAP,4.99,19.96,1.5,6,13.96,EXPIRED EDITION

## Data Validation

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Error checks are done on order feeds for the following conditions:

- If either a header or line-item file is found, both must be present.
- Both header and line-item files must have data in them.
- Header lines must reference line-item lines and vice-versa.
- If a column is included, every record should be populated according to the instructions.
- If ship-to addresses are provided they must have at least a street, city, and state or country.
- If a city, state, and zip code are provided, they must pass a validation against each other.
- If the account is so designated, city/state/zip codes will be validated
- Branch numbers must be known by INFOplus and they must be open.
- If cost center/division data is missing the order is rejected, unless configuration has been setup to 1) check a specific branch record for the cost center/division code and/or 2) a default cost center/division code. If not configured, and no default selected, order is rejected.
- If req\_date is included, it must be "today" or in the future.
- Req types, Service Types, Carrier Codes, and Req Categories are checked for validity.
- Abnormal usages are checked for Y or N.
- The customer order number is checked for uniqueness,
- If there are duplicate customer order numbers the multiple orders are combined into one order, duplicates are flagged as "duplicate orders" in the response file to the customer. The combined order is processed.
- If duplicate order received in different batches, configurable to accept the duplicate as a separate order or to reject the duplicate order.
- Email addresses are checked for a valid format.
- If a zip code is less than 5 characters, it is front-loaded with zeros.
- If the account requires cost-center and division information, their presence is checked.
- Order quantities must be numeric and zero or greater.
- As records are inserted into the database, any failures are caught and reported.
- An ordered item must be known by INFOplus and not designated as a retail item.
- If the same item shows up twice on the same order, their quantities are added together to make one line-item.

## Import File Response

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The results of each data feed batch can either be summarized in a PDF document or a CSV file, and either sent via email to recipient(s) designated by the customer, or placed in the Materialogic server for the customer to pick up. If the distribution is via email and more than two email addresses need to receive the files, we recommend that you set up a distribution list so that a single email can be issued by Materialogic, then distributed to any number of people based on your own in-house configuration.

## PDF Reports

The PDF reporting offers a potential of three output files. Each can have its own set of email addresses and file placement, designated for each of the following categories:



- Successful Order Loads
- Notifications
  - Files received with no data
- Error Reporting
  - Reports data exceptions that result in a failure of the load

## Sample Success Report

```
Materialogic                09/22/2003 @11:31      Confidential Information
                          MATERIALOGIC CUSTOMER Inventory #:999
                          Requisition Data Load From CSV File: Summary and Error Report
-----

3 LINES IN REQ FILE
2 REQUISITION RECORDS FOUND

4 LINES IN LINE ITEM FILE
3 LINE# ITEM RECORDS FOUND

ASSIGNING REQUISITION NUMBERS FROM 1878583.000 TO 1878584.000

BUILT REQ# 1878583.000   FROM CUSTOMER ORDER# 184162   FOR BRANCH# 1
  COST-CTR & DIVISON RECORD BUILT
  SHIP-TO ADDRESS BUILT
  ADDED ITEM PS-STICK TO ORDER

BUILT REQ# 1878584.000   FROM CUSTOMER ORDER# 184163   FOR BRANCH# 1
  COST-CTR & DIVISON RECORD BUILT
  SHIP-TO ADDRESS BUILT
  ADDED ITEM KTL53 TO ORDER
  ADDED ITEM BR-MOR TO ORDER

                          =====
                          REQUISITION BUILD COMPLETED
                          =====
```

## Sample Failure Report

```

Materialogic                09/22/2003 @11:31                Confidential Information
                        MATERIALOGIC CUSTOMER Inventory #:999
                        Requisition Data Load From CSV File: Summary and Error Report
-----
33 LINES IN REQ FILE
32 REQUISITION RECORDS FOUND
87 LINES IN LINE ITEM FILE
86 LINE# ITEM RECORDS FOUND
ITEM LINE# 78 UNIDENTIFIED CONTROL# (FR-LECCOM)

Materialogic                09/22/2003 @11:31                Confidential Information
                        MATERIALOGIC CUSTOMER Inventory #:999
                        Requisition Data Load From CSV File: Summary and Error Report
-----
5 LINES IN REQ FILE
4 REQUISITION RECORDS FOUND
7 LINES IN LINE ITEM FILE
6 LINE# ITEM RECORDS FOUND
REQ LINE# 2 HAS ORDER NUMBER (183060) THAT WAS ALREADY SUBMITTED
REQ LINE# 4 HAS ORDER NUMBER (183156) THAT WAS ALREADY SUBMITTED
REQ LINE# 5 HAS ORDER NUMBER (183157) THAT WAS ALREADY SUBMITTED
REQ LINE# 6 HAS ORDER NUMBER (183158) THAT WAS ALREADY SUBMITTED

```

## CSV File Definitions

The CSV response provides a single file, which is available to be emailed and/or placed on the Materialogic secure FTP server for customer pickup. It is named by adding "\_rsp" to the root of the original header file name so that the resulting name is in the format of filename\_rsp.csv. See General Information for an explanation of suggested file name components.

## Order Confirmation Field Definitions

symbols listed here are used in the Field Definitions table.

Data Type: A = Alpha                    N = Numeric

Field Name	Length	Data Type	Description/Special Instructions
category	1	A	(G)eneral, (R)equisition, (L)ine-item
order_no	15	A	Customer's order number or blank if general message
result_code	4	N	Error code as listed below
field_name	25	A	The field name from the data feed or blank if general msg
value_provided	100	A	The value provided with the field or blank if general message
description	125	A	The meaning from the error code

## Response Codes

<b>0</b>	<b>SUCCESSFUL ORDER LOAD</b>
200	SUCCESSFUL COMPLETION OF JOB
201	RECEIVED, VALIDATED, AND SKIPPED TEST ORDER
400	THE ORDER LOADER EXITED WITHOUT BUILDING ANY ORDERS
401	UNKNOWN CONTROL NUMBER. THE CONTROL NUMBER GIVEN WAS NOT FOUND WITHIN THE INVENTORY
410	CREDIT CARD PRE-AUTHORIZATION FAILED - INVALID CREDIT CARD NUMBER
411	CREDIT CARD PRE-AUTHORIZATION FAILED DUE TO EXPIRATION DATE
412	CREDIT CARD PRE-AUTHORIZATION FAILED - DECLINED
420	BILLING ADDRESS FAILED - POSSIBLE CITY, STATE, ZIP-CODE MISMATCH
421	SHIPPING ADDRESS FAILED - POSSIBLE CITY, STATE, ZIP-CODE MISMATCH
422	AN UNIDENTIFIED BRANCH NUMBER WAS SPECIFIED FOR BILLING
423	A CLOSED BRANCH WAS SPECIFIED FOR BILLING
424	A BRANCH NUMBER HAS BEEN RECEIVED THAT IS NOT DEFINED
500	UNIDENTIFIED SYSTEM ERROR
701	PROGRAM CALLED WITH INVALID ARGUMENTS
702	ORDER FILE RECEIVED WITH NO VALID DATA
703	NO INTERNAL PO/BUDGET OR PAYMENT TYPES ARE DEFINED FOR THIS INVENTORY
704	RETAIL ACCOUNT BUT ORDERS WERE NOT SUBMITTED WITH COST-CENTER INFORMATION
705	NO COLUMN DESCRIPTION LINE WAS PROVIDED IN THE HEADER FILE
706	MISSING REQUISITION DATE
707	REQUISITION DATE IS LESS THAN TODAY. CHANGED TO TODAY
708	NO REQUISITION TYPE WAS PROVIDED, NO DEFAULT IS DEFINED
709	RECEIVED UNDEFINED REQUISITION TYPE
710	NO SERVICE TYPE WAS PROVIDED, NO DEFAULT IS DEFINED
711	RECEIVED UNDEFINED SERVICE TYPE
712	MISSING OR INVALID ABNORMAL USAGE VALUE
713	UNDEFINED REQUISITION CATEGORY
714	MISSING CARRIER CODE
715	INVALID CARRIER CODE
716	ORDER_ID HAS ALREADY BEEN RECEIVED
717	INVALID EMAIL ADDRESS
718	INVALID OR MISSING COST CENTER
719	NO DIVISION WAS PROVIDED, NO DEFAULT IS DEFINED
720	INVALID DIVISION

721	NO ORDER QUANTITY WAS PROVIDED
722	INVALID ORDER QUANTITY FORMAT
723	INVALID ORDER QUANTITY, LESS THAN 1
724	A COLUMN TITLE WAS PROVIDED IN THE LINE ITEM FILE THAT IS NOT DEFINED
725	NO HEADER RECORDS WERE PROVIDED
730	PROBLEM BUILDING SHIP-TO ADDRESS RECORD
731	PROBLEM BUILDING EMAIL RECORD
732	PROBLEM UPDATING DUPLICATE ORDER QUANTITY
733	PROBLEM ADDING AN ITEM TO THE ORDER
734	ORDER BUILT WITH NO ITEMS. DELETING ORDER
735	HEADER FILE NOT FOUND
736	LINE-ITEM FILE NOT FOUND
737	DEFAULT BRANCH NUMBER NOT FOUND
738	DEFAULT BRANCH IS CLOSED
739	MEDIA TYPE IS NOT DEFINED
740	MEDIA TYPE E IS NOT DEFINED
741	UNABLE TO REPLACE BACKSLASH WITH FORWARD SLASH
742	UNABLE TO REPLACE EQUAL SIGNS WITH DASHES
743	UNABLE TO REMOVE PIPE CHARACTERS FROM THE DATA FILE
744	UNABLE TO REMOVE SINGLE QUOTE CHARACTERS FROM THE DATA FILE
745	UNABLE TO REMOVE CONTROL-M CHARACTERS FROM THE DATA FILE
746	UNABLE TO CONVERT DATA FILE FROM CSV TO PIPE DELIMITED
747	UNABLE TO REMOVE DOUBLE QUOTE CHARACTERS FROM DATA FILE
748	UNABLE TO REMOVE FOREIGN CHARACTERS FROM DATA FILE
749	UNABLE TO ADD SEQUENCE NUMBER TO DATA FILE
750	ITEM ORDERED IS OBSOLETE
752	A COLUMN TITLE WAS PROVIDED IN THE HEADER FILE THAT IS NOT DEFINED
753	NO COLUMN DESCRIPTION LINE WAS PROVIDED IN THE LINE-ITEM FILE
754	AN ORDER WAS RECEIVED WITHOUT IDENTIFYING A BRANCH NUMBER
755	AN ORDER WAS RECEIVED WITHOUT IDENTIFYING A BRANCH NAME
756	AN ORDER WAS RECEIVED WITH AN UNDEFINED BRANCH NUMBER. A BRANCH RECORD WAS CREATED
757	A BRANCH TEMPLATE WAS NEEDED TO BUILD A NEW BRANCH BUT IT DOES NOT EXIST.

## CSV Order Confirmation Sample

The response codes in this file are subject to change without notice. New codes may be added and code descriptions may be re-worded. If you



use this response file in an automated environment you should consider using the codes as the most stable reference to each line's status.

```
"category","order_no","result_code","field_name","value_provided","description"  
"R","58655","756","branch_no","43963","AN ORDER WAS RECEIVED WITH AN UNDEFINED BRANCH NUMBER. A BRANCH RECORD WAS  
CREATED"  
"R","58655","0","MATERIALOGIC ORDER#","2835074.000","SUCCESSFUL DATA LOAD"  
"G","","200","MATERIALOGIC ORDER RANGE","2835074.000 - 2835074.000","SUCCESSFUL COMPLETION OF JOB"
```

## Recommended Implementation Plan

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1. Submit request to Materialogic.
2. Provide list of emails to be notified for failures and successes.
3. Define fields that will be appropriate to the customer at hand.
4. Discuss and establish method of file transfer.
5. Test data exchange and validation.
6. Run full test with Materialogic's application to see an order through to shipment.
7. Turn site live on both client and server.