JDA Dispatcher WMS Integration

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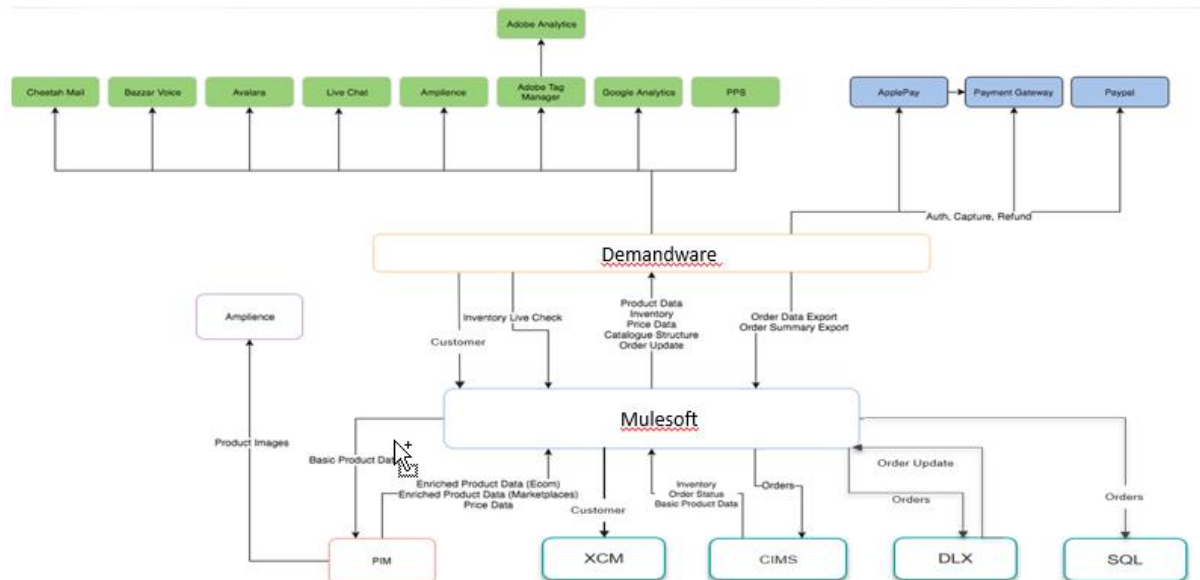
1 Document Version Control

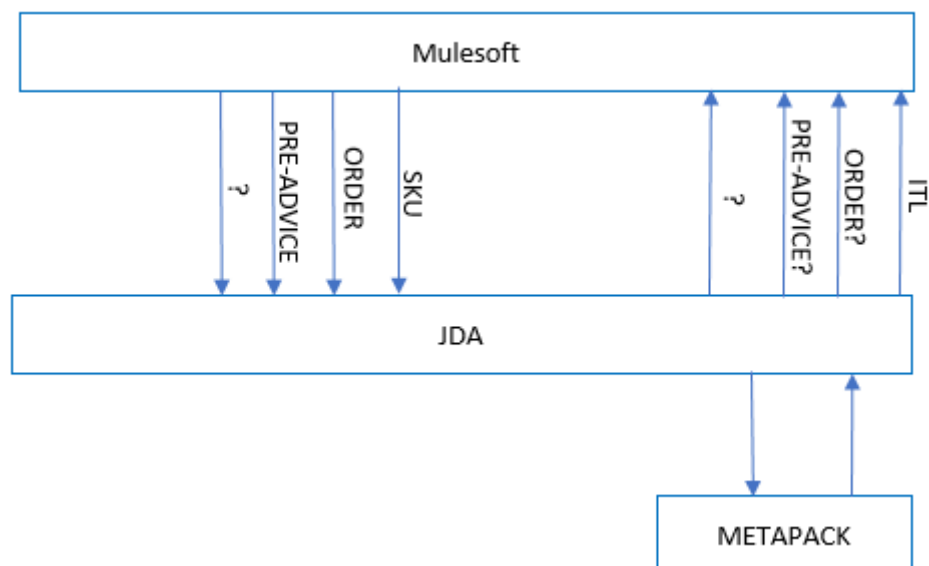| Version	Date	Description	Author
0.1	3rd Mar 2017	Initial Draft Version	Adrian Holyst
0.2	31st Mar 2017	Interface Format	Adrian Holyst
0.3	10th Apr 2017	Interface Char	Adrian Holyst
0.4	22nd Jun 2017	Order Extract	Adrian Holyst
0.5	26th Jun 2017	File transfer. Environment variable.	Adrian Holyst
0.6	03rd Jul 2017	Pre-Advice Extract	Adrian Holyst
0.7	06th Jul 2017	ILT Extract – Returns, Adjustment. File Transfer amendments.	Adrian Holyst
1.0	13th Jul 2017	ILT Extract – Inv Lock, Inv UnLock, Stock Check, Receipt Reversal.	Adrian Holyst
1.1	14th Jul 2017	ILT Extract – Adjustment RC, Inv Lock Codes	Adrian Holyst

1 High Level Overview

The following diagram highlights the high-level interface requirement.

The following diagram highlights the high-level JDA Dispatcher WMS interface requirement.

Interface Direction	JDA Interface Name	Frequency	File Format
Inbound	SKU	File Merge to Interface Tables: **Once a day @ 1am** File Merge to Main Table: **15 mins** File Name: Product-YYYYMMDDHH24MI.xml	XML
Inbound	Order Header and Order Line. *Pick ID -> Order Id*	File Merge to Interface Tables: **5 mins.** File Merge to Main Table: **5 mins** File Name: Orders-YYYYMMDDHH24MI.xml	XML
Inbound	Pre-Advice Header and Pre-Advice Line	File Merge to Interface Tables: **5 mins.** File Merge to Main Table: **15 mins** File Name: PreAdvices-YYYYMMDDHH24MI.xml	XML
Outbound	Extracts following ITLs: • Adjustment • Inv Lock • Inv UnLock • Receipt Reversal • Returns • Stock Check	**5 mins** (extractitl) File Name: InvTransaction-YYYYMMDDHH24MI. nnnnnnnnnn.xml	XML
Outbound	Order Extract (Header and Line) - Shipped	**5 mins** (extractord) File Name: OrderStatus-YYYYMMDDHH24MI.nnnnnnnnnn.xml	XML
Outbound	Pre-Advice Extract (Header and Line) – Complete.	**5 mins** (extractpad) File Name: PreAdviceReceipt-YYYYMMDDHH24MI. nnnnnnnnnn.xml	XML

2 Interface Format

The interface format to be used is XML Schema for both inbound and outbound. Whishworks (Mulesoft) will work with our interface XSD definitions provided in $DCS_COMMSDIR/lib. This will include any new fields mapped as part of this project. The schema definition file would enforce element type restrictions e.g. characters not allowed in numeric fields, field length, minimum and maximum value for quantity fields.

Note: To ensure that the minimal amount of XML parsing is performed for each inbound interface, JDA expects that all inbound XML interfaces are supplied in alphabetical order. The alphabetical ordering applies only to WMS XML tags. However, an exception is 'record_type' must be the first tag in all XML interfaces.

3 Inbound Data Transfer and file name

MuleSoft will generate files into inbound directory on FatFace sftp server. MuleSoft must ensure that when process is started/in-progress the file must have a suffix of ".LCK". This is to stop JDA from processing "incomplete" files. Once the file is fully generated the ".LCK" suffix should be removed from the file name.

JDA will use standard ftp scripts to transfer files from FatFace sftp server.

The files will be pulled from three directories:

- Inbound/Product

- Inbound/Order

- Inbound/PreAdvice

into 'intray' folder under $DCS_COMMSDIR. The "DCS_COMMSDIR" is an environment variable and the full path pointing to the 'comms' folder.

Test environment   IP: 10.1.13.6

User: tstdba

/home/tstdba/comms/intray

SFTP endpoint: ftp.fatface.com
User: jda-sandbox

Live environment   IP: 10.1.32.121

User: dcsdba

/home/dcsdba/comms/intray

SFTP endpoint: ftp.fatface.com
User: jda-prod

Each file will have a unique name:

- Product-YYYYMMDDHH24MI.xml

- Orders-YYYYMMDDHH24MI.xml

- PreAdvices-YYYYMMDDHH24MI.xml

JDA will delete files from sftp Inbound directories once files are transferred.

4 Outbound Data Transfer and file name

JDA will use standard ftp scripts to transfer files to FatFace sftp server.

The files will be pushed to:

- Outbound/PreAdviceReceipt

- Outbound/OrderStatus

- Outbound /Inventory

from 'outtray' folder under $DCS_COMMSDIR. The "DCS_COMMSDIR" is an environment variable and the full path pointing to the 'comms' folder.

Test environment   IP: 10.1.13.6

User: tstdba

/home/tstdba/comms/outtray

SFTP endpoint: ftp.fatface.com
User: jda-sandbox

Live environment   IP: 10.1.32.121

User: dcsdba

/home/dcsdba/comms/ outtray

SFTP endpoint: ftp.fatface.com
User: jda-prod

Each file will have a unique name:

- PreAdviceReceipt-YYYYMMDDHH24MI.nnnnnnnnnn.xml

- OrdersStatus-YYYYMMDDHH24MI.nnnnnnnnnn.xml

- InvTransaction-YYYYMMDDHH24MI.nnnnnnnnnn.xml

and when the "sftp" process is started/in-progress the file will have a suffix of ".LCK". This is to stop MuleSoft from processing "incomplete" files. Once the file is fully transferred the ".LCK" suffix will be removed from the file name.

Mulesoft must only read files that don't have a ".LCK" suffix.

5 JDA Dispatcher WMS Inbound Interfaces

Mulesoft developers must use the XML schema file (e.g. interface_sku.xsd) stored in $DCS_COMMSDIR/lib folder on WMS server or access "Administration -> General -> Table Definitions -> Interface Formats -> Download and Merge -> XML Format -> Interface <interface name>" click XML Schema file link at the top for reference.

The XML data from Mulesoft will be merged into JDA main tables as follows for all inbound interfaces e.g. SKU, Order header/lines, Pre-Advice header/lines etc.

- ✓ XML flat file -> "Interface" table (intermediate tables) e.g. interface_sku, interface_order_header, interface_order_line – basic validation is carried out like date format is correct, numeric fields don't have any characters, required XML tags are present.

- ✓ "Interface" table -> "Main" table e.g. sku, order_header, order_line – data integrity checks carried out e.g. client must exist in the Client Master table, if merging order or pre-advice lines the SKU must exist in the product master table. If the validation fails, the record is set to error status and retained in the interface table.

5.1 SKU Interfaces

The product specific attributes will be interfaced into "INTERFACE_SKU" table.

Whishworks will work with FatFace & Socius24 to convert current .csv SKU Interface into .xml . It has been agreed that mappings should remain the same.

Note: The **"Required columns/Time Zone Name"** must be present in all transaction (add/update/delete) files. If there is no requirement to update any particular field, the xml tag for that particular field must not be included in the inbound XML file or the XML tag must contain the database value.

Detailed mapping in Whichworks spreadsheet: "WW-PD-REC-IMS-Interface Mapping - Product Data Feed - CIMS-to-JDA"

5.2 Pre-Advice Header Interfaces

The GRN header will be interfaced into "INTERFACE_PRE_ADVICE_HEADER" table.

Whishworks will work with FatFace & Socius24 to convert current .csv PAH Interface into .xml . It has been agreed that mappings should remain the same.

Note: The **"Required columns/Time Zone Name"** must be present in all transaction (add/update/delete) files. If there is no requirement to update any particular field, the xml tag for that particular field must not be included in the inbound XML file or the XML tag must contain the database value.

Detailed mapping in Whichworks spreadsheet: "WW-PD-REC-IMS-Interface Mapping - PreGRN - CIMS-to-JDA"

5.3 Pre-Advice Line Interfaces

The GRN Lines will be interfaced into "INTERFACE_PRE_ADVICE_LINE" table.

Whishworks will work with FatFace & Socius24 to convert current .csv PAL Interface into .xml . It has been agreed that mappings should remain the same.

Note: The **"Required columns/Time Zone Name"** must be present in all transaction (add/update/delete) files. If there is no requirement to update any particular field, the xml tag for that particular field must not be included in the inbound XML file or the XML tag must contain the database value.

Detailed mapping in Whichworks spreadsheet: "WW-PD-REC-IMS-Interface Mapping - PreGRN - CIMS-to-JDA"

5.4 Order Header Interfaces

The Order header will be interfaced into "INTERFACE_ORDER_HEADER" table.

Whishworks will work with FatFace & Socius24 to convert current .csv ODH Interface into .xml . It has been identified that minor mapping changes will be required.

Note: The **"Required columns/Time Zone Name"** must be present in all transaction (add/update/delete) files. If there is no requirement to update any particular field, the xml tag for that particular field must not be included in the inbound XML file or the XML tag must contain the database value.

Detailed mapping in Whichworks spreadsheet: "WW-PD-REC-IMS-Interface Mapping - Create Order - CIMS-to-JDA"

5.5 Order Line Interfaces

The Order line will be interfaced into "INTERFACE_ORDER_LINE" table.

Whishworks will work with FatFace & Socius24 to convert current .csv ODH Interface into .xml . It has been identified that minor mapping changes will be required.

Note: The **"Required columns/Time Zone Name"** must be present in all transaction (add/update/delete) files. If there is no requirement to update any particular field, the xml tag for that particular field must not be included in the inbound XML file or the XML tag must contain the database value.

Detailed mapping in Whichworks spreadsheet: "WW-PD-REC-IMS-Interface Mapping - Create Order - CIMS-to-JDA"

6 JDA Dispatcher WMS Outbound Interfaces

6.1 ITL Extract

It has been agreed the CIMS will not keep location status, therefore it's warehouse responsibility to move inventory out of Locked/OutLocked Location, so it is available in the warehouse.

ITL Codes to be extracted:

Adjustment

Inv Lock

Inv UnLock

Receipt Reversal

Returns

Stock Check

6.1.1 Adjustment.

All adjustments with from_loc_id = 'SUSPENSE' must be ignored by MuleSoft because these already have been taken into account by Stock Check.

For Adjustment without upload code '**WARNING: Adjustment without upload to CIMS.'** must be used in JDA. This will ensure the record is not extracted to MuleSoft.

Adjustment Reason Code: **SUSADJS** will be sent from JDA to MuleSoft but must be ignored (not to be sent to CIMS).

Adjustment Reason Codes and mapping to CIMS Stock type available in spreadsheet: 'FF Adj Reason Codes Live'

Number	Name	Type	Length	Allowed Values	Comments	FatFace
1	Record_Type	String	3	'ITL'	Record type	ITL
2	Action	Flag	1	'E'	Extract action - 'E' (extract)	E
3	Code	String	15		Code	Adjustment
4	Original_Quantity_Sign	Flag	1	'+' | '-'	Original quantity sign	
5	Original_Qty	Decimal	16, 6	'999999999.999999'	Original quantity	
6	Update_Quantity_Sign	Flag	1	'+' | '-'	Update quantity sign	**+** in CIMS Stock Up. **-** in CIMS Stock Down.
7	Update_Qty	Decimal	16, 6	'999999999.999999'	Update quantity	
8	Dstamp	Date	14	'YYYYMMDDHH24MISS'	Date	
9	Client_Id	String	10	Upper Case		FATFACE
10	Sku_Id	String	50	Upper Case	Product identifier	
11	From_Loc_Id	String	20	Upper Case	From location identifier	<>'SUSPENSE'
12	To_Loc_Id	String	20	Upper Case	To location identifier	
13	Final_Loc_Id	String	20	Upper Case	Final location identifier	
15	Reference_Id	String	20	Upper Case	Reference identifier	
16	Line_Id	Integer	6	'999999'	Line identifier	
18	Notes	String	80	Mixed Case	Free text	Free text
19	Reason_Id	String	10	Upper Case	Reason identifier	
22	User_Id	String	20	Upper Case	User identifier	
25	Site_Id	String	10	Upper Case	Site identifier	PICK
29	Owner_Id	String	10	Upper Case	Third party identifier	FATFACE
34	Lock_Status	String	20	'Locked' | 'UnLocked'	Lock status - 'Locked' (locked), 'UnLocked' (unlocked)	**Locked** - in CIMS Stock Up/Down To/From UnAvailable Stock. **Unlocked** - in CIMS Stock Up/Down To/From Available Stock.
36	Session_Type	Flag	1	'R' | 'M' | 'W' | 'V'	Session type - 'R' (rdt), 'M' (windows client), 'W' (web client), 'V' (voice)	
119	Lock_Code	String	10	Upper Case	Lock code	To be mapped to CIMS Stock Type according to 'FF Adj Reason Codes Live'.

6.1.2. Return

Number	Name	Type	Length	Allowed Values	Comments	FatFace
1	Record_Type	String	3	'ITL'	Record type	ITL
2	Action	Flag	1	'E'	Extract action - 'E' (extract)	E
3	Code	String	15		Code	Return
4	Original_Quantity_Sign	Flag	1	'+' | '-'	Original quantity sign	
5	Original_Qty	Decimal	16, 6	'999999999.999999'	Original quantity	
6	Update_Quantity_Sign	Flag	1	'+' | '-'	Update quantity sign	**+** in CIMS Stock Up.
7	Update_Qty	Decimal	16, 6	'999999999.999999'	Update quantity	
8	Dstamp	Date	14	'YYYYMMDDHH24MISS'	Date	
9	Client_Id	String	10	Upper Case		FATFACE
10	Sku_Id	String	50	Upper Case	Product identifier	
11	From_Loc_Id	String	20	Upper Case	From location identifier	
12	To_Loc_Id	String	20	Upper Case	To location identifier	
13	Final_Loc_Id	String	20	Upper Case	Final location identifier	
15	Reference_Id	String	20	Upper Case	Reference identifier	JDA Order Id
16	Line_Id	Integer	6	'999999'	Line identifier	
18	Notes	String	80	Mixed Case	Free text	Free text
19	Reason_Id	String	10	Upper Case	Reason identifier	
22	User_Id	String	20	Upper Case	User identifier	
25	Site_Id	String	10	Upper Case	Site identifier	PICK
29	Owner_Id	String	10	Upper Case	Third party identifier	FATFACE
34	Lock_Status	String	20	'Locked' | 'UnLocked'	Lock status - 'Locked' (locked), 'UnLocked' (unlocked)	**Locked/Unlocked** - in CIMS Stock Up To Free stock.
36	Session_Type	Flag	1	'R' | 'M' | 'W' | 'V'	Session type - 'R' (rdt), 'M' (windows client), 'W' (web client), 'V' (voice)	
119	Lock_Code	String	10	Upper Case	Lock code	

6.1.3. Receipt Reversal

Number	Name	Type	Length	Allowed Values	Comments	FatFace
1	Record_Type	String	3	'ITL'	Record type	ITL
2	Action	Flag	1	'E'	Extract action - 'E' (extract)	E
3	Code	String	15		Code	Receipt Reversal
4	Original_Quantity_Sign	Flag	1	'+' | '-'	Original quantity sign	
5	Original_Qty	Decimal	16, 6	'999999999.999999'	Original quantity	
6	Update_Quantity_Sign	Flag	1	'+' | '-'	Update quantity sign	- in CIMS Stock Down.
7	Update_Qty	Decimal	16, 6	'999999999.999999'	Update quantity	
8	Dstamp	Date	14	'YYYYMMDDHH24MISS'	Date	
9	Client_Id	String	10	Upper Case		FATFACE
10	Sku_Id	String	50	Upper Case	Product identifier	
11	From_Loc_Id	String	20	Upper Case	From location identifier	<>SUSPENSE
12	To_Loc_Id	String	20	Upper Case	To location identifier	
13	Final_Loc_Id	String	20	Upper Case	Final location identifier	
15	Reference_Id	String	20	Upper Case	Reference identifier	Pre-Advice Id
16	Line_Id	Integer	6	'999999'	Line identifier	Pre-Advice Line Id
18	Notes	String	80	Mixed Case	Free text	
19	Reason_Id	String	10	Upper Case	Reason identifier	
22	User_Id	String	20	Upper Case	User identifier	
25	Site_Id	String	10	Upper Case	Site identifier	PICK
29	Owner_Id	String	10	Upper Case	Third party identifier	FATFACE
34	Lock_Status	String	20	'Locked' | 'UnLocked'	Lock status - 'Locked' (locked), 'UnLocked' (unlocked)	**Locked** - in CIMS Stock Down From UnAvailable Stock. **Unlocked** - in CIMS Stock Down From Available Stock.
36	Session_Type	Flag	1	'R' | 'M' | 'W' | 'V'	Session type - 'R' (rdt), 'M' (windows client), 'W' (web client), 'V' (voice)	
119	Lock_Code	String	10	Upper Case	Lock code	To be mapped to CIMS Stock Type according to 'FF Adj Reason Codes Live'.

6.1.4. Stock Check

Number	Name	Type	Length	Allowed Values	Comments	FatFace
1	Record_Type	String	3	'ITL'	Record type	ITL
2	Action	Flag	1	'E'	Extract action - 'E' (extract)	E
3	Code	String	15		Code	Stock Check
4	Original_Quantity_Sign	Flag	1	'+' | '-'	Original quantity sign	
5	Original_Qty	Decimal	16, 6	'999999999.999999'	Original quantity	
6	Update_Quantity_Sign	Flag	1	'+' | '-'	Update quantity sign	**+** in CIMS Stock Up. **-** in CIMS Stock Down.
7	Update_Qty	Decimal	16, 6	'999999999.999999'	Update quantity	
8	Dstamp	Date	14	'YYYYMMDDHH24MISS'	Date	
9	Client_Id	String	10	Upper Case		FATFACE
10	Sku_Id	String	50	Upper Case	Product identifier	
11	From_Loc_Id	String	20	Upper Case	From location identifier	<>SUSPENSE
12	To_Loc_Id	String	20	Upper Case	To location identifier	
13	Final_Loc_Id	String	20	Upper Case	Final location identifier	
15	Reference_Id	String	20	Upper Case	Reference identifier	
16	Line_Id	Integer	6	'999999'	Line identifier	
18	Notes	String	80	Mixed Case	Free text	
19	Reason_Id	String	10	Upper Case	Reason identifier	
22	User_Id	String	20	Upper Case	User identifier	
25	Site_Id	String	10	Upper Case	Site identifier	PICK
29	Owner_Id	String	10	Upper Case	Third party identifier	FATFACE
34	Lock_Status	String	20	'Locked' | 'UnLocked'	Lock status - 'Locked' (locked), 'UnLocked' (unlocked)	**Locked** - in CIMS Stock Up/Down To/From UnAvailable Stock. **Unlocked** - in CIMS Stock Up/Down To/From Available Stock.
36	Session_Type	Flag	1	'R' | 'M' | 'W' | 'V'	Session type - 'R' (rdt), 'M' (windows client), 'W' (web client), 'V' (voice)	
119	Lock_Code	String	10	Upper Case	Lock code	To be mapped to CIMS Stock Type according to 'FF Adj Reason Codes Live'.

6.1.5. Inv Lock and Inv UnLock

Number	Name	Type	Length	Allowed Values	Comments	FatFace
1	Record_Type	String	3	'ITL'	Record type	ITL
2	Action	Flag	1	'E'	Extract action - 'E' (extract)	E
3	Code	String	15		Code	Inv Lock, Inv UnLock
4	Original_Quantity_Sign	Flag	1	'+' | '-'	Original quantity sign	
5	Original_Qty	Decimal	16, 6	'999999999.999999'	Original quantity	
6	Update_Quantity_Sign	Flag	1	'+' | '-'	Update quantity sign	+
7	Update_Qty	Decimal	16, 6	'999999999.999999'	Update quantity	0 Mulesoft must ignore.
8	Dstamp	Date	14	'YYYYMMDDHH24MISS'	Date	
9	Client_Id	String	10	Upper Case		FATFACE
10	Sku_Id	String	50	Upper Case	Product identifier	
11	From_Loc_Id	String	20	Upper Case	From location identifier	<>SUSPENSE
12	To_Loc_Id	String	20	Upper Case	To location identifier	
13	Final_Loc_Id	String	20	Upper Case	Final location identifier	
15	Reference_Id	String	20	Upper Case	Reference identifier	
16	Line_Id	Integer	6	'999999'	Line identifier	
18	Notes	String	80	Mixed Case	Not free text for codes Inv Lock/Unlock.	From Status(Code) To Status(Code)
19	Reason_Id	String	10	Upper Case	Reason identifier	
22	User_Id	String	20	Upper Case	User identifier	
25	Site_Id	String	10	Upper Case	Site identifier	PICK
29	Owner_Id	String	10	Upper Case	Third party identifier	FATFACE
34	Lock_Status	String	20	'Locked' | 'UnLocked'	Lock status - 'Locked' (locked), 'UnLocked' (unlocked)	**Locked** - in CIMS Stock Up/Down To/From UnAvailable Stock. **Unlocked** - in CIMS Stock Up/Down To/From Available Stock.
36	Session_Type	Flag	1	'R' | 'M' | 'W' | 'V'	Session type - 'R' (rdt), 'M' (windows client), 'W' (web client), 'V' (voice)	
119	Lock_Code	String	10	Upper Case	Lock code	To be mapped to CIMS Stock Type according to 'FF Adj Reason Codes Live'.

6.2 Pre-Advice Extract - Complete

The Pre-Advice that is fully received is manually updated to status Complete.

Complete Pre-Advices will be extracted and sent to MuleSoft. MuleSoft must have inbuilt logic to send the correct data to CIMS.

The Pre-Advice extract output will have both header and lines structured as follows:

< Pre-Advice Header>

 < Pre-Advice Lines>

< Pre-Advice Header>

 < Pre-Advice Lines>

e.g.

< Pre-Advice 1>

 < Pre-Advice 1 Line 1>

  < Pre-Advice 1 Line 2>

  < Pre-Advice 1 Line 3>

< Pre-Advice 2>

 < Pre-Advice 2 Line 1>

  < Pre-Advice 2 Line 2>

< Pre-Advice 3>

 < Pre-Advice 3 Line 1>

The output file will have following Pre-Advice Header and Line fields.

Pre-Advice Header

Number	Name	Type	Length	Allowed Values	Comments	FatFace
1	Record_Type	String	3	'PAH'	Record type	PAH
2	Action	Flag	1	'E'	Extract action - 'E' (extract)	E
3	Client_Id	String	10	Upper Case	Identifier for the customer of a 3rd party logistics warehousing company	FATFACE
4	Pre_Advice_Id	String	20	Upper Case	Pre-advice identifier	
5	Site_Id	String	10	Upper Case	Site identifier	PICK
7	Status	String	11	'Complete' | 'Hold' | 'In Progress' | 'Released'	'Complete' (complete), 'Hold' (hold), 'In Progress' (in progress), 'Released' (released)	
15	Owner_Id	String	10	Upper Case	Third party identifier	FATFACE

| 43 | User_Def_Type_5 | String | 30 | Upper Case | User Defined Type 5 | FASTTRACK, NON-FASTTRACK, null |

Pre-Advice Line

Number	Name	Type	Length	Allowed Values	Comments	FatFace
1	Record_Type	String	3	'PAL'	Record type	PAL
2	Action	Flag	1	'E'	Extract action - 'E' (extract)	E
3	Client_Id	String	10	Upper Case	Identifier for the customer of a 3rd party logistics warehousing company	FATFACE
4	*Pre_Advice_Id*	*String*	*20*	*Upper Case*	*Pre-advice identifier*	
5	Line_Id	Integer	6	'999999'	Line identifier	
6	*Sku_Id*	*String*	*50*	*Upper Case*	*Product identifier*	
13	*Lock_Code*	*String*	*10*	*Upper Case*	*Lock code*	
14	Qty_Due	Decimal	16, 6	'999999999.999999'	Quantity due	
15	*Qty_Received*	*Decimal*	*16, 6*	*'999999999.999999'*	*Quantity received*	
64	Owner_Id	String	10	Upper Case	Third party identifier	FATFACE

6.3 Order Extract - Shipment

When Order Lines are Shipped and there are no outstanding move tasks for that order, the order is automatically set to status 'Shipped'. Cancelled Order Lines will be set to Qty_Ordered = 0.

Orders that are fully short (or cancelled) must be manually set to status 'Shipped' on Order Header Maintenance screen.

Shipped Orders will be extracted and sent to MuleSoft. MuleSoft must have inbuilt logic to send the correct data to CIMS.

The Order extract output will have both header and lines structured as follows:

<Order Header>

    <Order Lines>

<Order Header>

    <Order Lines>

e.g.

<Order 1>

    <Order 1 Line 1>

      <Order 1 Line 2>

      <Order 1 Line 3>

<Order 2>

    <Order 2 Line 1>

      <Order 2 Line 2>

<Order 3>

    <Order 3 Line 1>

The output file will have following Order Header and Line fields.

Order Header

Number	Name	Type	Length	Allowed Values	Comments	FatFace
1	Record_Type	String	3	'ORH'	Record type	ORH
2	Action	Flag	1	'E'	Extract action - 'E' (extract)	E
3	Client_Id	String	10	Upper Case	Identifier for the customer of a 3rd party logistics warehousing company	FATFACE
4	Order_Id	String	20	Upper Case	Order identifier	

6	Status	String	15	'Allocated' | 'Cancelled' | 'Complete' | 'Delivered' | 'Hold' | 'In Progress' | 'Kit Started' | 'Released' | 'Shipped'	'Allocated' (allocated), 'Cancelled' (cancelled), 'Complete' (complete), 'Delivered' (delivered), 'Hold' (hold), 'In Progress' (in progress), 'Kit Started' (kit started), 'Released' (released), 'Shipped' (shipped)	Shipped
13	From_Site_Id	String	10	Upper Case	From site identifier	PICK
18	Shipped_Date	Date	14	'YYYYMMDDHH24MISS'	Shipped date	

Order Line

Number	Name	Type	Length	Allowed Values	Comments	FatFace
1	Record_Type	String	3	'ORL'	Record type	ORL
2	Action	Flag	1	'E'	Extract action - 'E' (extract)	E
3	Client_Id	String	10	Upper Case	Identifier for the customer of a 3rd party logistics warehousing company	FATFACE
4	Order_Id	String	20	Upper Case	Order identifier	
5	Line_Id	Integer	6	'999999'	Line identifier	
6	Sku_Id	String	50	Upper Case	Product identifier	
13	Qty_Ordered	Decimal	16, 6	'999999999.999999'	Quantity ordered	
16	Qty_Shipped	Decimal	16, 6	'999999999.999999'	Quantity shipped	
92	Owner_Id	String	10	Upper Case	Third party identifier	FATFACE

Example output file:

ordext20170619085
3

7 JDA Dispatcher WMS variable configuration.

7.1 Inbound variable configuration.

The comms (inbound) will be started as part of application.

The following inbound environment variables will be set-up in:

- "$HOME/dcs/.dcs_profile" on JDA Dispatcher server. The variables indicate the time to start and stop the inbound process on a daily basis and the duration between subsequent runs.

- "$HOME/dcs/.ftp_import.conf" on JDA Dispatcher server. This configuration file contain a line for each directory being connected to get the file.

FatFace warehouses (Havant/Dunsbury) will be 24 hour operation.

Environment Variable	Description	Data Set-up
DM_STIME	Download start time (hh24:mi)	00:01
DM_ETIME	Download end time (hh24:mi)	23:59
DM_INTERVAL	Download interval (seconds)	300

The inbound process will start at "00:01", every 5 mins will transfer and merge flat files to the interface tables and this process is repeated until "23:59".

The following environment variables are used by the "inbound" process

Environment Variable	Description	Data Set-up
DCS_COMMSMERGEXMLFILES	Whether infmerge runs mergexmlfiles	FALSE This is required if multiple files are downloaded for the same XML type e.g. order and batching them into 1 file before processing improves performance. For FatFace, we expect the orders, pre-advices, SKUs to be batched by MuleSoft.
DCS_COMMSCOMPRESSMERGEARCHIVE	Whether to compress merge archive files	FALSE
DCS_COMMSDOWNLOADLOGFILELINES	How many download log file lines to keep	4000

7.2 Outbound variable configuration.

The comms (outbound) will be started as part of application.

The following outbound environment variables will be set-up in:

- "$HOME/dcs/.dcs_profile" on JDA Dispatcher server. The variables indicate the time to start and stop the outbound process on a daily basis and the duration between subsequent runs.

- "$HOME/dcs/.ftp_export.conf" on JDA Dispatcher server. This configuration file contains a line for each directory being connected to put the file.

FatFace warehouses (Havant/Dunsbury) will be 24 hour operation.

Environment Variable	Description	Data Set-up
DM_STIME	Upload start time (hh24:mi)	00:01
DM_ETIME	Upload end time (hh24:mi)	23:59
DM_INTERVAL	Upload interval (seconds)	300 tbc

FatFace needs Order Extract, Pre-Advice Extract, ITL Extract. These will be extracted on JDA Scheduler to allow flexibility with extracting each file type.

Scheduler Program Name	Action	Comments
ITLEXTRACTP	begin LibRunTask.CreateSchedulerRunTask(p_Command => 'schedulerextracts.sh "extractitl:-M 5 -O 5 -p FFITL01 -o InvTransaction-`date +"%Y%m%d%H%M"`"'); end;	Program to Extract ITL for profile FFITL01
ORDEXTRACTP	begin LibRunTask.CreateSchedulerRunTask(p_Command => 'schedulerextracts.sh "extractord:-M 5 -O 5 -o OrderStatus-`date +"%Y%m%d%H%M"`"'); end;	Program to Extract Order Header and Line
PADEXTRACTP	begin LibRunTask.CreateSchedulerRunTask(p_Command => 'schedulerextracts.sh "extractpad:-M 5 -O 5 -o PreAdviceReceipt-`date +"%Y%m%d%H%M"`"'); end;	Program to Extract Pre-Advice Header and Line

Scheduler Schedule Name	Repeat Interval	Comments
ITLEXTRACTS	FREQ=MINUTELY;INTERVAL=5	Run ITLEXTRACTP Program every 5 mins.
ORDEXTRACTS	FREQ=MINUTELY;INTERVAL=5	Run ORDEXTRACTP every 5 mins.
PADEXTRACTJ	FREQ=MINUTELY;INTERVAL=5	Run PADEXTRACTP Program every 5 mins.

8 Interface characters to be avoided.

This table lists the ASCII characters and their decimal, octal and hexadecimal numbers. Characters which appear as names in parentheses (*e.g.,* (nl)) are non-printing characters. A table of the common non-printing characters appears after this table.

Characters which cause problems with RDT's or WMS are highlighted in RED.

Fields that are free text for example product description, notes or name fields can be populated with any character (using escape code for '&', '<', '>' as there is XML restriction) and they will be reproduced exactly as they were interfaced/entered.

Some characters (e.g. ?, >, <) are used as wild card in query mode on web and rdt e.g. entering 'SKU00?' in description field will return 'SKU001', 'SKU002' etc. There is no harm in sending these characters but using them as wild card in query mode in these fields may not work as expected.

e.g. if the description is 'SKU001' – querying 'SKU001' will return just one record

   if the description is 'SKU00?' – querying 'SKU00?' will return 'SKU00?', 'SKU001', 'SKU002' etc

Char	Dec	Oct	Hex
(nul)	0	0000	0x00
(soh)	1	0001	0x01
(stx)	2	0002	0x02
(etx)	3	0003	0x03
(eot)	4	0004	0x04
(enq)	5	0005	0x05
(ack)	6	0006	0x06
(bel)	7	0007	0x07
(bs)	8	0010	0x08
(ht)	9	0011	0x09
(nl)	10	0012	0x0a
(vt)	11	0013	0x0b
(np)	12	0014	0x0c

Char	Dec	Oct	Hex
(cr)	13	0015	0x0d
(so)	14	0016	0x0e
(si)	15	0017	0x0f
(dle)	16	0020	0x10
(dc1)	17	0021	0x11
(dc2)	18	0022	0x12
(dc3)	19	0023	0x13
(dc4)	20	0024	0x14
(nak)	21	0025	0x15
(syn)	22	0026	0x16
(etb)	23	0027	0x17
(can)	24	0030	0x18
(em)	25	0031	0x19
(sub)	26	0032	0x1a
(esc)	27	0033	0x1b
(fs)	28	0034	0x1c
(gs)	29	0035	0x1d
(rs)	30	0036	0x1e
(us)	31	0037	0x1f
(sp)	32	0040	0x20
!	33	0041	0x21
"	34	0042	0x22
#	35	0043	0x23
$	36	0044	0x24
%	37	0045	0x25
&	38	0046	0x26
'	39	0047	0x27
(	40	0050	0x28

Char	Dec	Oct	Hex
)	41	0051	0x29
*	42	0052	0x2a
+	43	0053	0x2b
,	44	0054	0x2c
-	45	0055	0x2d
.	46	0056	0x2e
/	47	0057	0x2f
0	48	0060	0x30
1	49	0061	0x31
2	50	0062	0x32
3	51	0063	0x33
4	52	0064	0x34
5	53	0065	0x35
6	54	0066	0x36
7	55	0067	0x37
8	56	0070	0x38
9	57	0071	0x39
:	58	0072	0x3a
;	59	0073	0x3b
<	60	0074	0x3c
=	61	0075	0x3d
>	62	0076	0x3e
?	63	0077	0x3f
@	64	0100	0x40
A	65	0101	0x41
B	66	0102	0x42
C	67	0103	0x43

Char	Dec	Oct	Hex
D	68	0104	0x44
E	69	0105	0x45
F	70	0106	0x46
G	71	0107	0x47
H	72	0110	0x48
I	73	0111	0x49
J	74	0112	0x4a
K	75	0113	0x4b
L	76	0114	0x4c
M	77	0115	0x4d
N	78	0116	0x4e
O	79	0117	0x4f
P	80	0120	0x50
Q	81	0121	0x51
R	82	0122	0x52
S	83	0123	0x53
T	84	0124	0x54
U	85	0125	0x55
V	86	0126	0x56
W	87	0127	0x57
X	88	0130	0x58
Y	89	0131	0x59
Z	90	0132	0x5a
[	91	0133	0x5b
\	92	0134	0x5c
]	93	0135	0x5d
^	94	0136	0x5e
_	95	0137	0x5f

Char	Dec	Oct	Hex
`	96	0140	0x60
a	97	0141	0x61
b	98	0142	0x62
c	99	0143	0x63
d	100	0144	0x64
e	101	0145	0x65
f	102	0146	0x66
g	103	0147	0x67
h	104	0150	0x68
i	105	0151	0x69
j	106	0152	0x6a
k	107	0153	0x6b
l	108	0154	0x6c
m	109	0155	0x6d
n	110	0156	0x6e
o	111	0157	0x6f
p	112	0160	0x70
q	113	0161	0x71
r	114	0162	0x72
s	115	0163	0x73
t	116	0164	0x74
u	117	0165	0x75
v	118	0166	0x76
w	119	0167	0x77
x	120	0170	0x78
y	121	0171	0x79
z	122	0172	0x7a

Char	Dec	Oct	Hex
{	123	0173	0x7b
|	124	0174	0x7c
}	125	0175	0x7d
~	126	0176	0x7e
(del)	127	0177	0x7f

ASCII Name	Description	C Escape Sequence
nul	null byte	\0
bel	bell character	\a
bs	backspace	\b
ht	horizontal tab	\t
np	Form feed	\f
nl	newline	\n
cr	carriage return	\r
vt	vertical tab	
esc	escape	
sp	space	