

**257146**

Aptean Ltd  
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1 Ready for **What's Next, Now™**



## 2 257146 - EI-7KXQ6A/ New Flow Message to ESI Scotts Orders

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## 3 Functional Overview

### 3.1 Client Requirement

Request for a new MTS flow that sends delivery information message to ESI, for Scotts orders that have their actual arrive and actual depart dates and times (order debriefed). In case of cross docked orders, only the delivery to the final delivery destination should be reported. This message should also be sent for rebooked orders.

The file format should be comma delimited and contain the following information per record: MTS\_OPERATION, CUSTOMER, TRIP\_ID, EXTERNAL\_REF, ACTUAL\_ARRIVE, ACTUAL\_DEPART, REBOOK\_COMMENTS

The file should be triggered once per day for orders that meet the following criteria: A) CUSTOMER (Client) = Scotts B) The ACTUAL\_ARRIVE and ACTUAL\_DEPART fields are completed for the delivery stop. D) The order record has not been previously sent in a message except rebooked orders

The naming convention for the output file will be: SCOTTS\_DEL\_INFO\_‘YYMMDDHHMM’.CSV. This interface should be developed as a stand alone development. Sample output file attached.

Added by Suk Sandhu 05/11/08: The request for this to be sent once a day has now been changed. The messages should be triggered and ready for ESI to collect in real time. Is it possible for the message to be sent on actuals being entered as a trigger or will it have to be trip status confirmed and include only orders with customer name of Scotts?

Referred by Eugene Iwu 19/11/08: We want updates to the actuals to be sent to ESI after the order was initially saved.

### 3.2 Solution

Within the screens where users can enter actual arrive and depart times, a procedure will be called every time the user does a save in this screen. The screens in MTS where users can set actual arrive/depart times are TRIPDTL and ORD\_DEBRIEF. The following steps will be taken when a Save is actioned in each of these screens:

- In TRIP\_DTL, the current Trip being debriefed will be checked to see if there are any SCOTTS orders on it. In ORD\_DEBRIEF, the current order being debriefed will be checked to see if it has a customer of SCOTTS. If there are any orders that are SCOTTS, then the actual arrive date/time and actual depart date/time on the delivery stop (where the location\_id of the Trip Stop matches the to\_loc on the order) will be checked to see if both are populated. If all conditions are true, then each order will have its corresponding TRIP\_ID, SCHED\_NAME, OMS\_REF, CUSTOMER, EXTERNAL\_REF, FROM\_LOC, TO\_LOC, CREATED\_BY, CREATED\_DATE written to table INT\_ORDER\_HEADER. When a new record is inserted into this table the RECORD\_STATUS will be set to ?SEND?.

#### V2 amended to send updates to delivery stop actuals

- When a user actions a ?save? in the screens mentioned, table INT\_ORDER\_HEADER will be checked to see if the current order to be written has an instance in the table. If there is an instance in the table, then we will only resend the order if the delivery stop actuals have been updated. To check if an orders delivery stop actuals have been updated, when the trip (in TRIPDTL) or order (in ORD\_DEBRIEF) is first viewed on screen, the delivery stop actual arrive/depart will be picked up from the database and held in temporary variables. Then when a user updates the record, if the delivery stop actual arrive/depart now differ from those held in the temporary variables, the order record will be written to INT\_ORDER\_HEADER and sent in a file to ESI.
- Procedure PROCESS\_OUTBOUND\_ORDER within Package INT\_MSG will be updated to collate all records in INT\_ORDER\_HEADER with a RECORD\_STATUS of SEND and a CUSTOMER of SCOTTS. For each record of status SEND the ACTUAL\_ARRIVE and ACTUAL\_DEPART date/times for the delivery stop will also be retrieved from table SCH\_TRIP\_STOP. This will send multiple order records per file.
- All of these collated records will be written to a file named SCOTTS\_DEL\_INFO\_YYMMDDHHMMSS.csv. The file will contain the following fields in this order:

MTS Operation e.g. COLV or COPF Customer Trip Id External Ref Actual Arrive Actual Depart Rebook Comments

- Update RECORD\_STATUS to SENT and RECORD\_ID to the filename in which the order is sent, after each record is written to the csv file.



- Existing System Parameter MTS\_OUTBOUND\_ORDER\_PATH will be referenced to decide which folder the csv will be placed in. This folder will be /webint/<database>/interface/out. ESI will need to be informed that this is where the file can be collected from.
- A database job is already set up that calls procedure PROCESS\_OUTBOUND\_ORDER approximately every 5 minutes. Therefore, every 5 minutes, table INT\_ORDER\_HEADER will be checked to see if any SCOTTS orders need to be sent in a csv to ESI.

Note that the Actual Arrive and Actual Depart Date/Times will be taken from the Delivery Stop for the order. A check will be made to ensure that the location\_id of the Delivery Stop matches the to\_loc on the order. This will ensure that if an order is cross-docked, the delivery actuals are picked up from the correct Trip.

Note that for an Order that has Re-booked comments to be sent in the file, the user must enter the Re-Book comments first, before saving the actuals, otherwise when the data is being written to the csv, the Re-book comments will not be picked up.

### 3.3 Scope

This change will be applied to system version 10.6 on CONTST and once approved CONPRD.



## 4 Set-Up

### 4.1 Pre-Requisites

SCOTTS must be set up as a customer within the database.



## 5 Functional Description

### 5.1 Sample Layout

Below is how the INT\_ORDER\_TABLE would look if some users had just entered actuals at the Delivery Stop for customer SCOTTS, and did a Save.

	A	B	C	D	E	F	G	H	I
1	INT_RECORD_ID	MTS_OPERATION	RECORD_STATUS	OMS_REF	ORDER_ID	STATUS	SOURCE_SYSTEM	SCHED_NAME	COST_CENTRE_NAME
2	MTS_SC_499		SEND	933813	EX_S933813	SCHEDULED	MANUAL	26-10-2008	
3	MTS_SC_500		SEND	933812	EX_S933812	SCHEDULED	MANUAL	26-10-2008	
4	MTS_SC_522		SEND	933288	EX_S933288	SCHEDULED	MANUAL	09-11-2008	
5	MTS_SC_523		SEND	933255	EX_S933255	SCHEDULED	MANUAL	09-11-2008	
6	MTS_SC_532		SEND	933273	EX_S933273	SCHEDULED	MANUAL	10-11-2008	

	J	K	L	M	N	O	P	Q	R
1	CUSTOMER	FROM_LOC	TO_LOC	EARLY_AVAIL	LATE_AVAIL	EARLY_DEL	LATE_DEL	APPLY_TIME_WINDOWS	EXTERNAL_REF
2	SCOTTS	DHLDONC	FOCUSUDB	26/10/2008 00:00:01	26/10/2008 23:59:59	26/10/2008 00:00:01	26/10/2008 23:59:59		4480228372
3	SCOTTS	DHLDONC	COOLSEVE	26/10/2008 00:00:01	26/10/2008 23:59:59	26/10/2008 00:00:01	26/10/2008 23:59:59		4480228373
4	SCOTTS	GODWGLAS	DECCLLED	09/11/2008 00:00:01	09/11/2008 23:59:59	09/11/2008 00:00:01	09/11/2008 23:59:59		2446304000
5	SCOTTS	SCOTHOWD	TOADHENL	09/11/2008 00:00:01	09/11/2008 23:59:59	09/11/2008 00:00:01	09/11/2008 23:59:59		2446309352
6	SCOTTS	BRANWORC	SCOTHATF	10/11/2008 00:00:01	10/11/2008 23:59:59	10/11/2008 00:00:01	10/11/2008 23:59:59		8287354225

	S	T	U	V	W	X	Y	Z	AA
1	ORDER_COMMENTS	DEL_TYPE	BOOKING_REF	GROUP_NAME	VALIDATION_ERROR	CREATED_DATE	CREATED_BY	UPDATED_DATE	UPDATED_BY
2				DHLDONC		13/11/2008 14:27:11	MTS_OWNER		
3				DHLDONC		13/11/2008 14:27:11	MTS_OWNER		
4				DHLDONC		13/11/2008 14:29:23	MTS_OWNER		
5				DHLDONC		13/11/2008 14:29:23	MTS_OWNER		
6				DHLDONC		13/11/2008 14:31:34	MTS_OWNER		

	AB	AC	AD	AE	AF	AG	AH
1	DUPLICATE_ORDER	DEL_POINT_REF	MSG_TYPE	ACTION	SPECIAL_INSTRUCTIONS	SHIPPING_REF	TRIP_ID
2			Scotts Order Actuals				MAN-003229145
3			Scotts Order Actuals				MAN-003229145
4			Scotts Order Actuals				MAN-003229954
5			Scotts Order Actuals				MAN-003229954
6			Scotts Order Actuals				MAN-003222712

It can be seen that the CUSTOMER field is SCOTTS and the RECORD\_STATUS is SEND. These are the fields that will be used to collate all SCOTTS records that are ready to be sent, by INT\_MSG.PROCESS\_OUTBOUND\_ORDER. The MSG\_TYPE will also be updated to ?Scotts Order Actuals?.

The INT\_RECORD\_ID is unique to this table; therefore any SCOTTS order inserted into this table will have an INT\_RECORD\_ID in the following format: ?MTS\_SC\_seq?. This field will therefore not be able to hold the name of the file in which the order is sent, as suggested in the estimate. The name of the file in which the orders are sent will not be stored in the table, to keep current functionality in outbound order files (e.g. Kraft, Green & Black, Silverspoon) in line.

After the database job for INT\_MSG.PROCESS\_OUTBOUND\_ORDER has run, table INT\_ORDER\_HEADER will be updated. Below is an example of how it should look after the SCOTTS records have been collated and sent in a file to ESL:



	A	B	C	D	E	F	G	H	I
1	INT_RECORD_ID	MTS_OPERATION	RECORD_STATUS	OMS_REF	ORDER_ID	STATUS	SOURCE_SYSTEM	SCHED_NAME	COST_CENTRE_NAME
2	MTS_SC_499		SENT	933813	EX_S933813	SCHEDULED	MANUAL	26-10-2008	
3	MTS_SC_500		SENT	933812	EX_S933812	SCHEDULED	MANUAL	26-10-2008	
4	MTS_SC_522		SENT	933288	EX_S933288	SCHEDULED	MANUAL	09-11-2008	
5	MTS_SC_523		SENT	933255	EX_S933255	SCHEDULED	MANUAL	09-11-2008	
6	MTS_SC_532		SENT	933273	EX_S933273	SCHEDULED	MANUAL	10-11-2008	

	J	K	L	M	N	O	P	Q	R
1	CUSTOMER	FROM_LOC	TO_LOC	EARLY_AVAIL	LATE_AVAIL	EARLY_DEL	LATE_DEL	APPLY_TIME_WINDOWS	EXTERNAL_REF
2	SCOTTS	DHLDONC	FOCUSUDB	26/10/2008 00:00:01	26/10/2008 23:59:59	26/10/2008 00:00:01	26/10/2008 23:59:59		4480228372
3	SCOTTS	DHLDONC	COOLSEVE	26/10/2008 00:00:01	26/10/2008 23:59:59	26/10/2008 00:00:01	26/10/2008 23:59:59		4480228373
4	SCOTTS	GODWGLAS	DECCLEED	09/11/2008 00:00:01	09/11/2008 23:59:59	09/11/2008 00:00:01	09/11/2008 23:59:59		2446304000
5	SCOTTS	SCOTHOWD	TOADHENL	09/11/2008 00:00:01	09/11/2008 23:59:59	09/11/2008 00:00:01	09/11/2008 23:59:59		2446309352
6	SCOTTS	BRANWORC	SCOTHATF	10/11/2008 00:00:01	10/11/2008 23:59:59	10/11/2008 00:00:01	10/11/2008 23:59:59		8287354225

	S	T	U	V	W	X	Y	Z	AA
1	ORDER_COMMENTS	DEL_TYPE	BOOKING_REF	GROUP_NAME	VALIDATION_ERROR	CREATED_DATE	CREATED_BY	UPDATED_DATE	UPDATED_BY
2				DHLDONC		13/11/2008 14:27:11	MTS_OWNER	13/11/2008 14:22:03	MTS_OWNER
3				DHLDONC		13/11/2008 14:27:11	MTS_OWNER	13/11/2008 14:22:03	MTS_OWNER
4				DHLDONC		13/11/2008 14:29:23	MTS_OWNER	13/11/2008 14:22:03	MTS_OWNER
5				DHLDONC		13/11/2008 14:29:23	MTS_OWNER	13/11/2008 14:22:03	MTS_OWNER
6				DHLDONC		13/11/2008 14:31:34	MTS_OWNER	13/11/2008 14:22:03	MTS_OWNER

	AB	AC	AD	AE	AF	AG	AH
1	DUPLICATE_ORDER	DEL_POINT_REF	MSG_TYPE	ACTION	SPECIAL_INSTRUCTIONS	SHIPPING_REF	TRIP_ID
2			Scotts Order Actuals				MAN-003229145
3			Scotts Order Actuals				MAN-003229145
4			Scotts Order Actuals				MAN-003229954
5			Scotts Order Actuals				MAN-003229954
6			Scotts Order Actuals				MAN-003222712

Note that this table does not hold fields ACTUAL\_ARRIVE, ACTUAL\_DEPART and REBOOK\_COMMENTS that are required in the output file. These values will be picked up for each order being outputted to the csv files at the time when the file is being written to. This will be performed within INT\_MSG.PROCESS\_OUTBOUND\_ORDER.

## 5.2 Code Amendments

There will be code amendments to the TRIPDTL screen, however similar amendments, will also be made to the ORD\_DEBRIEF screen.

The code will be included in the POST-QUERY trigger on block SCH\_ORDER\_LINE within TRIPDTL to pick up the actual arrive and depart times at the unload location for each order on the trip.

Note that the actual arrive and depart times are for the unload location of the order on the current trip. This does not necessarily mean the delivery stop of the order, if the order is cross-docked, however this will be checked when the order is being written to the file, to ensure the correct times are picked up from the correct stop

A new Procedure will be created which will be used to do all processing around checking whether the current Trip (in TRIPDTL) has any SCOTTS orders on it or the current Order (in ORD\_DEBRIEF) is for SCOTTS. It will also check to see whether the current order to write to INT\_ORDER\_HEADER has an instance already in this table, and if it does then check for updates to actuals. It will also call the procedure to write records to INT\_ORDER\_HEADER. This new procedure will be named F\_CHECK\_SCOTTS\_ORDERS and will be called from within the code used for the Save button



## 6 Appendix - Outbound File Layout

Each file will have a list of orders that have just had their actual arrive/depart time for the delivery stop updated. The following line of details will be repeated for each order.

MTS Field name	Datatype	Desc
MTS_OPERATION	VARCHAR2	Database Name on which file is created e.g. COLV/COPF
CUSTOMER	VARCHAR2	Customer whose actuals have been updated. Will always be SCOTTS as this is the only customer for which updates to actuals are being checked
TRIP_ID	VARCHAR2	Trip Id in MTS on which the order is delivered (the to_loc on the order will match the unload location_id of the trip) e.g. MAN-00123456
CUSTOMER_REF	VARCHAR2	Customer Ref for order having actuals updated. Also known as External Ref.
ACTUAL_ARRIVE	DATE/TIME	Actual Arrive Date/Time at delivery location. In form DD/MM/YYYY HH24 MI SS
ACTUAL_DEPART	DATE/TIME	Actual Depart Date/Time at delivery location. In form DD/MM/YYYY HH24 MI SS
COMMENTS	VARCHAR2	Comments attached to oms_ref when user enters a Non-Conformance type of REBOOK. These must be saved before setting actuals otherwise they will not be picked up when data is written to outbound file

Below is a sample layout of a Scotts Order file:

SCOTTS\_DEL\_INFO\_251108120133.csv - Notepad

File Edit Format Help

```
COLV,SCOTTS,MAN-00342034,209472034,13/11/2008 13:30:00,13/11/2008 14:00:00,
COLV,SCOTTS,MAN-00336283,830648394,02/08/2008 02:12:00,02/08/2008 02:32:00,Rebooked missed delivery slot
COLV,SCOTTS,MAN-00336283,830648395,02/08/2008 02:12:00,02/08/2008 02:32:00,Rebooked missed delivery slot
COLV,SCOTTS,MAN-00330109,629329371,14/07/2008 16:15:00,14/07/2008 16:45:00,
COLV,SCOTTS,MAN-00338273,872830991,29/10/2008 11:23:00,29/10/2008 11:49:00,
```



## 7 References

Ref No	Document Title & ID	Version	Date
1	EST-257146 EI-7KXQ6A New Flow message to ESI Scotts Orders v1.doc	1	19/11/08
2	EST-257146 EI-7KXQ6A New Flow message to ESI Scotts Orders v2.doc	2	19/11/08
3	SCOTTS_DEL_INFO_0811030100.csv	N/A	
4	FS-257146 EI-7KXQ6A New Flow message to ESI Scotts Orders v1.doc	1	28/11/08



## 8 Glossary

Not Available



## 9 Document History

Version	Date	Status	Reason	Initials
1a	27/11/08	Draft	Initial version	LAD
1	28/11/08	Issue	Reviewed and Issued	MJC
2a	01/12/08	Amend	Section 1.1 and 1.2 updated to include change to estimate as requested by Eugene Iwu however detail of document does include this change	LAD
2	01/12/08	Issue	Reviewed and Issued	MJC



## 10 Authorised By

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