

## Summary

Carmen CMS is responsible for creating crew meal orders and forecasts. The process and the different reports are described shortly in the following sections.

### Change History

Version	Author	Date	Description
1.0	Leo Wentzel	2-Mar-2007	Initial version based on the delivery from time box 5.

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# 1 Reports

## 1.1 ***Order/Forecast generation***

Forecasts are generated one time every month after schedule release and covers next month. Orders are generated every day and cover the following day. It is also possible to generate forecasts and orders manually through a user interface, described later in this document. A forecast and an order is generated for every station and SAS region where there are flights with meal load need and where there is at least one caterer. Caterers may have different preferences regarding which format of the orders and forecasts they wish to receive. The format preferences for caterers are set in the supplier basic data table.

## 1.2 ***Forecast Reports***

Forecasts are generated in PDF and XML format. A meal forecast contains information of the expected crew meal need for a month. An example of the forecast PDF is shown below:

Figure [1] Forecast report in PDF format.

## 1.3 ***Order Reports***

Meal orders are generated PDF and XML format. Besides from an order XML, another XML is generated which is used to update the CARI system. A meal order contains the crew meals each SAS region wish to order from a caterer a day. Below there is an example of the meal order PDF:

Figure [2] Order report in PDF format.

## **2 Manual Report Generation**

Currently Carmen Studio has to be started. The crew meal application is started from the 'Non-Core Test' menu by selecting 'Crew Meal Form'. In the crew meal form there are two tabs, one for orders and one for forecasts. The order tab is pre-selected.

### **2.1 Meal Order**

In this section manual meal order handling is described. Below an image of the meal order tab in the meal order interface is shown.

**Crew Meal Order \***

File Basic Data

Meal Order Meal Forecast

Enter Details

One Airport ☐

Load Airport

Date 30May2006

Company SK

Region SKD

Search Create

Meal Orders

Order	Airport	Caterer
<input type="checkbox"/> 00001	AMS	Gate Gourmet AMS
<input checked="" type="checkbox"/> 00002	ARN	LSG ARN
<input type="checkbox"/> 00003	ATH	Eurest ATH
<input type="checkbox"/> 00004	BEY	Inflight Service STO
<input type="checkbox"/> 00005	BGO	LSG BGO
<input type="checkbox"/> 00006	BHX	Alpha Flight Service
<input type="checkbox"/> 00007	BLQ	Air service Bologna
<input type="checkbox"/> 00008	BRU	Avia partner BRU
<input type="checkbox"/> 00009	CDG	LSG CDG

Select All Deselect All

Export file

☒ PDF ☒ XML ☒ CARI XML

Export

Figure [3] The meal order tab in the meal order form.

### 2.1.1 Create Orders

It is possible to create an order for one station or for all stations where a SAS region has flights with crew meal load.

- [1] Choose whether order should be created for one or for all stations.
- [2] If the order will be created for one station, enter the three letter airport code.
- [3] Select the date the order should be created for.
- [4] Select SAS company.
- [5] Select SAS region.
- [6] Click 'Create'.
- [7] Meal orders are created, according to the given parameters, for each caterer where meals will be ordered from. The created orders are shown in the area to the right.

### 2.1.2 Search Orders

It is possible to search for orders for a specific station or for all stations.

- [1] Choose to search for orders at one or all stations.
- [2] Enter a three letter airport code, if the search should be performed for one station only.
- [3] Select a date.
- [4] Select SAS company.
- [5] Select SAS region.
- [6] Click 'Search'.
- [7] A list of meal orders matching the search parameters are shown in the area to the right.

### **2.1.3 Cancel Orders**

- [1] Search for existing orders.
- [2] Click in the search result area.
- [3] Check the orders to cancel.
- [4] Click the 'Cancel' button.
- [5] The selected orders are cancelled and a cancel message is created for every cancelled order. The cancel messages can be found under the 'Output Files Manager...' menu item in the 'Admin Tools' menu.

### **2.1.4 Export Orders**

- [1] Create orders or search for existing orders.
- [2] Click in the search result area.
- [3] Check the orders to export.
- [4] Select export formats.
- [5] Click the 'Export' button.
- [6] Messages of selected export formats are created for all selected orders. The messages can be found under the 'Output Files Manager...' menu item in the 'Admin Tools' menu.

### **2.1.5 Rerun**

- [1] Search for existing orders.
- [2] Cancel orders that are included in the rerun procedure.
- [3] Create new orders.
- [4] Export the new orders.
- [5] Orders are cancelled and cancel messages are created. New orders are created and order messages are created. The messages can be found under in the 'Output Files Manager...' which is found under the 'Admin Tools' menu.

## **2.2 Meal Forecast**

In this section manual meal forecast handling is described. Below an image of the forecast tab in the meal order form is shown.

**Crew Meal Order \***

File Basic Data

Meal Order Meal Forecast

Enter Details

One Airport ☐

Load Airport

From Date 30May2006

To Date 30May2006

Company SK

Region SKD

Search Create

Meal Forecasts

Order	Airport	Caterer
<input type="checkbox"/> 0005	BGO	LSG BGO
<input type="checkbox"/> 0006	BHX	Alpha Flight Service
<input type="checkbox"/> 0007	BLQ	Air service Bologna
<input type="checkbox"/> 0008	BRU	Avia partner BRU
<input type="checkbox"/> 0009	CDG	LSG CDG
<input checked="" type="checkbox"/> 0010	CPH	LSG CPH
<input type="checkbox"/> 0011	DUS	Gate Gourmet DUS
<input type="checkbox"/> 0012	FRA	Gate Gourmet FRA
<input type="checkbox"/> 0013	HAI	Gate Gourmet HAI

Select All Deselect All

Export file

☒ PDF ☒ XML

Export

Figure [4] The meal forecast tab in the meal order form.

### 2.2.1 Create Forecasts

The user can either choose to create a forecast for one station or for all stations where a SAS region has flights with crew meal load.

- [1] Click the 'Forecast' tab.
- [2] Choose whether forecast should be created for one or for all stations.
- [3] If the forecast will be created for one station, enter the three letter airport code.
- [4] Select the first date of the forecast.
- [5] Select the last date of the forecast.
- [6] Select SAS company.
- [7] Select SAS region.
- [8] Click 'Create'.
- [9] Meal forecasts are created, according to the given parameters, for each caterer where meals will be ordered from. The created forecasts are shown in the area to the right.

### 2.2.2 Search Forecasts

Search forecast searches for forecast that starts and ends within the given search interval.

- [1] Click the 'Forecast' tab.
- [2] Choose to search for forecasts at one station or for all stations.
- [3] Enter a three letter airport code if search is for one station.
- [4] Select start date.
- [5] Select end date.
- [6] Select SAS company.

- [7] Select SAS region.
- [8] Click 'Create'.
- [9] A list of meal forecasts matching the search parameters are shown in the area to the right.

### 2.2.3 Cancel Forecasts

- [1] Click the 'Forecast' tab.
- [2] Search for forecasts.
- [3] Click the search result area.
- [4] Check the forecasts to cancel.
- [5] Click the 'Cancel' button.
- [6] The selected forecasts are cancelled.

### 2.2.4 Export Forecasts

- [1] Click the 'Forecast' tab.
- [2] Search for forecast or create forecasts.
- [3] Click the search result area.
- [4] Check the forecasts to export.
- [5] Select export formats.
- [6] Click the 'Export' button.
- [7] Forecasts are cancelled and new forecast are created.

## 3 Automatic Report Generation

Automatic report generation is currently not implemented. This functionality will create and send meal forecasts every month for all caterers with meal orders the coming month. Meal orders will also automatically be created and sent each day for all caterers with meal orders the coming day.

## 4 Basic Data

Basic data are currently modified through Dave Explorer. Dave Explorer is started by clicking the Dave Explorer icon in the studio toolbar.



Figure [5] The table editor icon

All basic data tables are accessible from Dave Explorer. Below is a screenshot of Dave Explorer. In the following sections the basic data tables are explained.

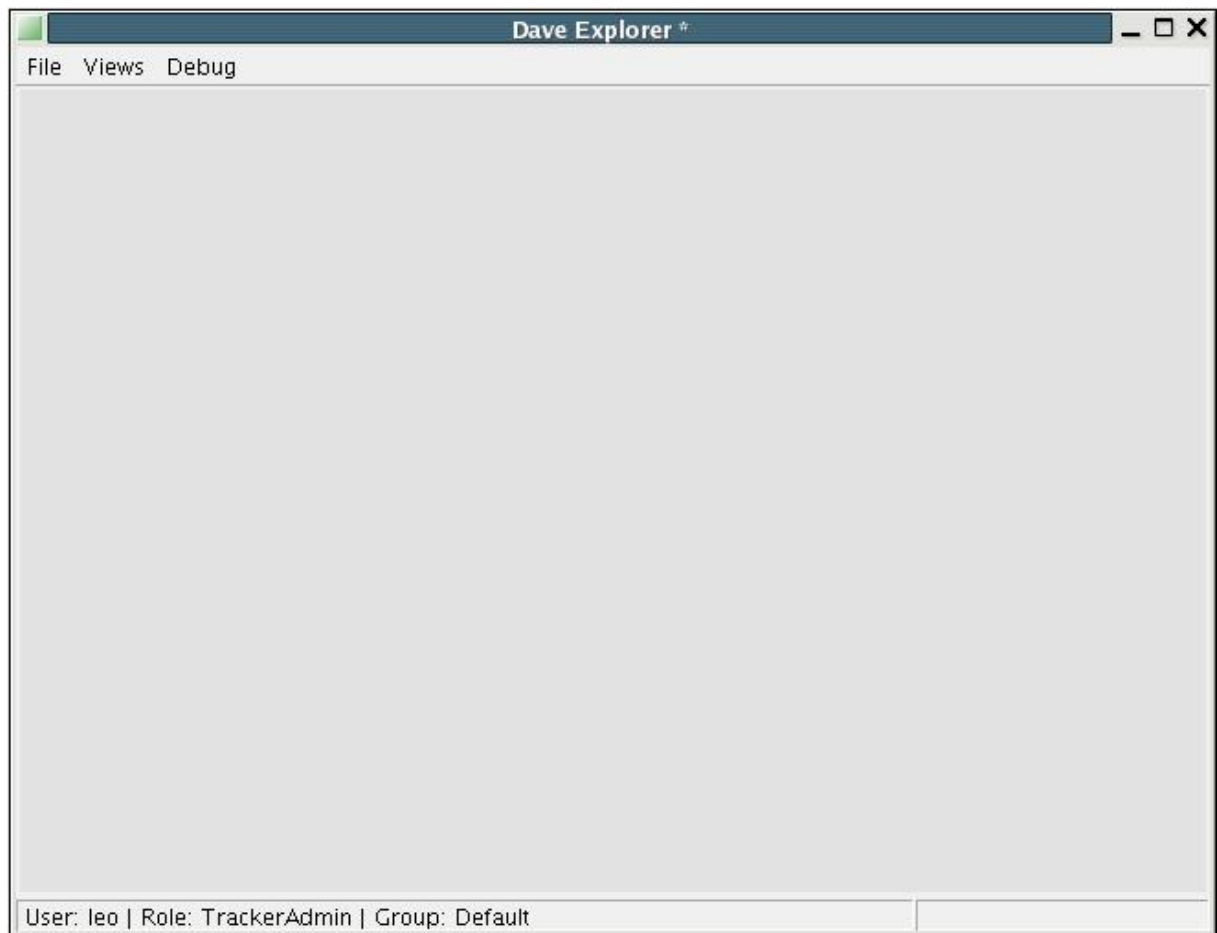


Figure [6] The table editor interface.

## 4.1 Customer

Customer basic data are stored in the 'meal\_customer' table. In this table contact information regarding meal orders is stored for the different SAS companies and regions.

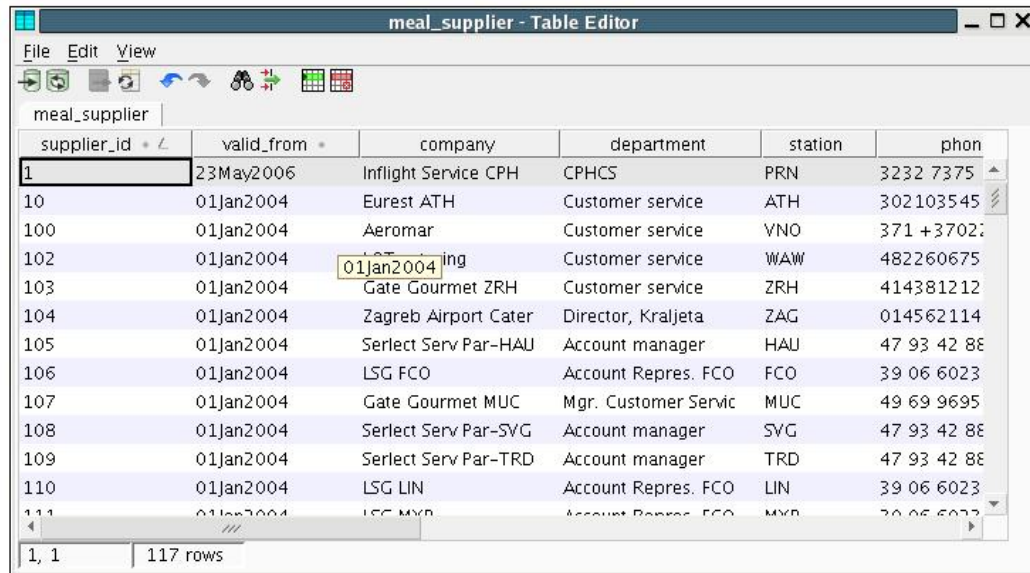
company	region	department	phone1	phone2	fax	email	si
SK	SKS	STOCS	46 8797 4221	46 (0) 8797 5318		CMOS.SKS@SAS.SE	
SK	SKN	OSLCS	47 9571 6709	47 9571 7053		CMOS.SKN@SAS.NO	
SK	SKD	CPHCS	45 3232 4639	45 3232 5959		CMOS.SKD@SAS.DK	
SK	SKI	STOCS	46 8797 4221			CMOS.SKS@SAS.SE	

Figure [7] The table interface for the 'meal\_customer' basic data table.



## 4.2 Caterer

Caterer information is stored in the 'meal\_supplier' table. In the 'meal\_supplier' table information about all available caterers is stored. A caterer is valid for a station and for a specified time period. It is possible to have a default caterer if no caterer is found for a station where meal load is necessary. The default caterer is added as a row in the caterer table with the supplier\_id 'DEFAULT'.

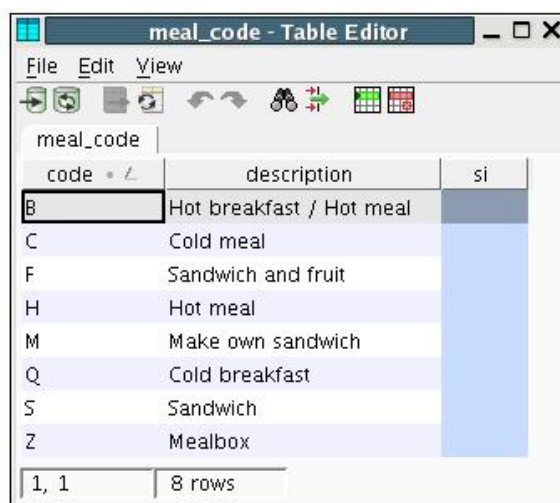


supplier_id	valid_from	company	department	station	phon
1	23May2006	Inflight Service CPH	CPHCS	PRN	3232 7375
10	01Jan2004	Eurest ATH	Customer service	ATH	302103545
100	01Jan2004	Aeromar	Customer service	VNO	371 +3702
102	01Jan2004	Gate Gourmet ZRH	Customer service	WAW	482260675
103	01Jan2004	Gate Gourmet ZRH	Customer service	ZRH	414381212
104	01Jan2004	Zagreb Airport Cater	Director, Kraljeta	ZAG	014562114
105	01Jan2004	Serlect Serv Par-HAU	Account manager	HAU	47 93 42 88
106	01Jan2004	LSG FCO	Account Repres. FCO	FCO	39 06 6023
107	01Jan2004	Gate Gourmet MUC	Mgr. Customer Servic	MUC	49 69 9695
108	01Jan2004	Serlect Serv Par-SVG	Account manager	SVG	47 93 42 88
109	01Jan2004	Serlect Serv Par-TRD	Account manager	TRD	47 93 42 88
110	01Jan2004	LSG LIN	Account Repres. FCO	LIN	39 06 6023
111	01Jan2004	LSG MYR	Account Repres. FCO	MYR	39 06 6023

Figure [8] The table interface for the 'meal\_supplier' basic data table.

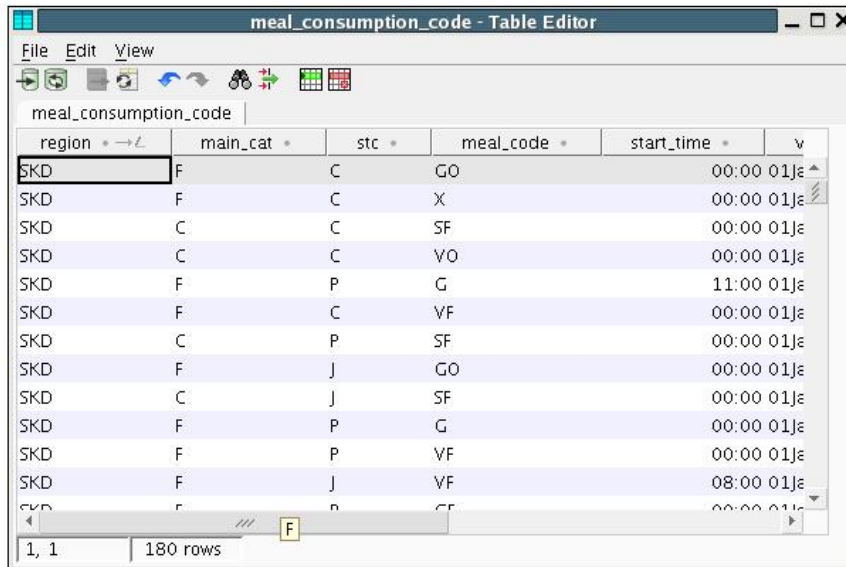
## 4.3 Meal Codes

Meal codes are managed through two different table interfaces. First there is the 'meal\_code' table where caterer meal codes and descriptions are stored. Second there is the 'meal\_consumption\_code' table where internal meal codes, times and dates are mapped against supplier meal codes. Both table interfaces are shown below.



code	description	si
B	Hot breakfast / Hot meal	
C	Cold meal	
F	Sandwich and fruit	
H	Hot meal	
M	Make own sandwich	
Q	Cold breakfast	
S	Sandwich	
Z	Mealbox	

Figure [9] The table interface for the 'meal\_code' basic data table.

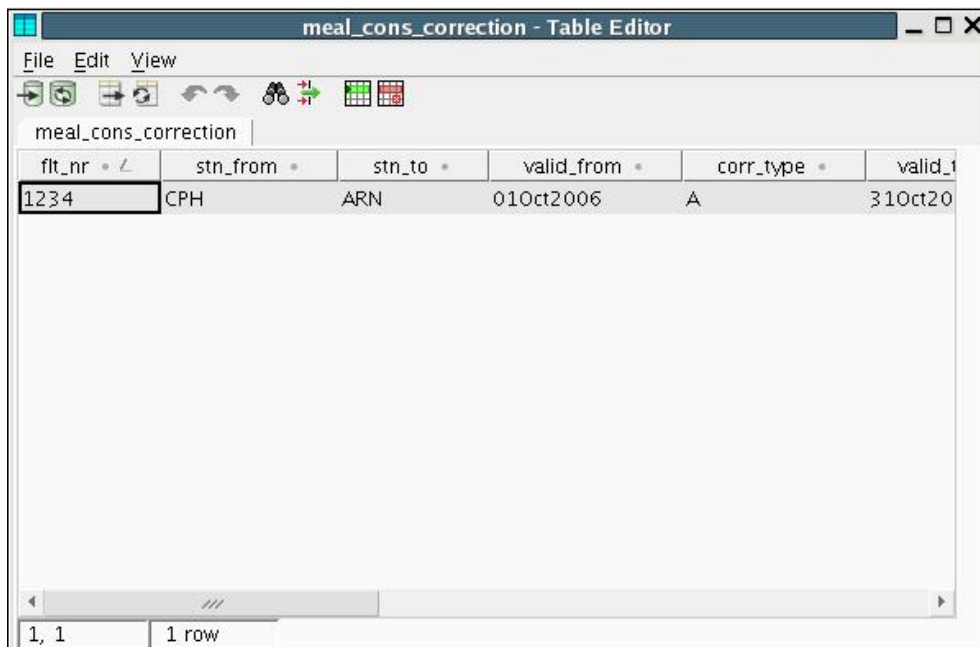


region	main_cat	stc	meal_code	start_time	v
SKD	F	C	GO	00:00 01jε	
SKD	F	C	X	00:00 01jε	
SKD	C	C	SF	00:00 01jε	
SKD	C	C	VO	00:00 01jε	
SKD	F	P	G	11:00 01jε	
SKD	F	C	VF	00:00 01jε	
SKD	C	P	SF	00:00 01jε	
SKD	F	J	GO	00:00 01jε	
SKD	C	J	SF	00:00 01jε	
SKD	F	P	G	00:00 01jε	
SKD	F	P	VF	00:00 01jε	
SKD	F	J	VF	08:00 01jε	
SKD	F	P	CT	00:00 01jε	

Figure [10] The table interface for the 'meal\_consumption\_code' basic data table.

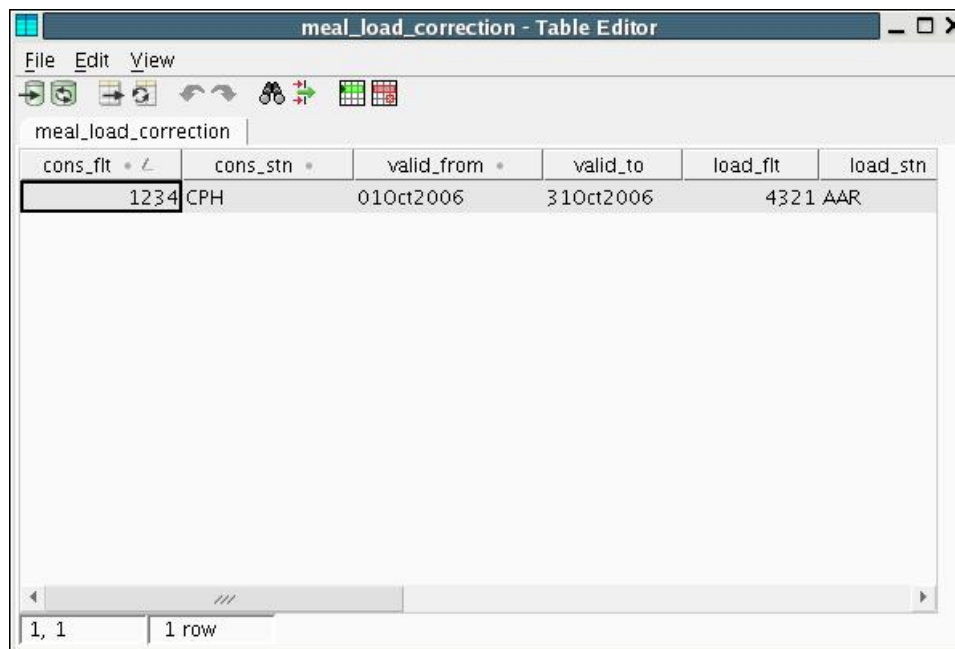
#### 4.4 Correction

There are two table interfaces used for making corrections to the meal allocations. The 'meal\_cons\_correction' table interface is used for adding and removing meals etc to and from flights, or all flights between two airports if wildcard '\*' is used. The 'meal\_load\_correction' table interface is used to specify on which flight meals will be loaded. Both table interfaces are shown below.



flt_nr	stn_from	stn_to	valid_from	corr_type	valid_to
1234	CPH	ARN	01Oct2006	A	31Oct20

Figure [11] The table interface for the 'meal\_cons\_correction' basic data table.



cons_flt	cons_stn	valid_from	valid_to	load_flt	load_stn
1234	CPH	01Oct2006	31Oct2006	4321	AAR

Figure [12] The table interface for the 'meal\_load\_correction' basic data table.