JEPPESEN
Making Every Mission Possible

SAS CMS Project
Crew Notification
Functional Reference

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Summary

The purpose of the Crew Notification application is to provide crew trackers with the possibility to contact crew when they (the crew) are checking in or out via a crew portal or to contact crew, which is on a flight, via the Hermes system. The applications supports several ways of grouping crew in order to make messages with multiple recipients as simple as possible to create.

The Crew Notification application also allows a crew tracker to view all messages that have been sent to a specific crew in order to simplify follow-up.

Change History

Version	Author	Date	Description
1.0	Yaser Mohamed	20-Feb-07	
1.1	Yaser Mohamed	20-Feb-07	Minor changes: Corrected figure text placement.

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1 Crew Notifications

The crew notification application consist of two parts, the notification viewer and the notification creator.

1.1 User interface: Notification Creator

The crew notification creator can be accessed for three different situations: for a specific crew, for all crew on a specific flight or for a selection of crew (group notification).

1.1.1 Single crew notification

The crew notification creator for a specific crew:

Figure [1]   Notification creator for a single crew member. The current time is 06:00 (UTC) the 27th of September 2006.

The top left part of the window contains the information about the crew. The top right part contains information about the flights remaining (including the current flight) on the duty which the crew member is currently on. If the crew is not on any duty this part will be empty.

The bottom part of the screen is dedicated to send details:

Message: Here the text-message to the user may be entered. No more than 300 characters is allowed.
Send to: Allows the user to decide if the notification should be sent to the crew portal or via HERMES.
Deadline: If the notification must be read by the crew before a certain time limit, this limit is set here. To ensure that the deadline is set in such a way that the crew has the opportunity to read it the following limits are set on the deadline depending on the "Send to:" system:
– Crew Portal: If sending the notification to the crew portal, the deadline must be after the next check in/out at the crew portal for that specific crew (the time can be found in the "Crew Info" section)
– HERMES: If sending the notification to HERMES, the deadline must be after the departure of the next flight in the duty for the crew (the current flight counts).
Req. Conf: Require confirmation. Signals that the notification needs confirmation upon reception.

The "Send" buttons attempts to send the notification. Before sending the notification a validity check is made according to the rules above. If the notification is not valid an error message will appear in the status-bar (below the button) and the status-bar will become red. If the notification is valid, "Notification sent" will appear in the status-bar.

The "Exit" button closes the notification window. There is no check that any notification has been sent.

1.1.2 Flight crew notification

The notification creator for a flight looks as follows:

Figure [2]   Notification creator for a flight. The current time is 06:00 (UTC) the 27th of September 2006.

The basic structure of the window is the same as for the single crew notification creator.

The crew information part of the window contains a small descriptive text concerning the limitations of sending flight crew notifications via HERMES. In addition, some information about the pilot in command (p.i.c) is provided.

The flight information part contains information about the flight the creator was started for.

The send part of the windows functions much the same as for a single crew notification with the following exceptions:

Send to: When sending a notification to HERMES, only the pilot in command will be listed as receiver. It will then be up to the commander to notify the rest of the crew.
Deadline: The deadline when sending the notification through HERMES, the departure time of the flight for which the notification creator was started is the minimum time.

Other than the exceptions mentioned above, notifications will be sent to all the crew in the same way as for a single crew.

1.1.3 Group notification
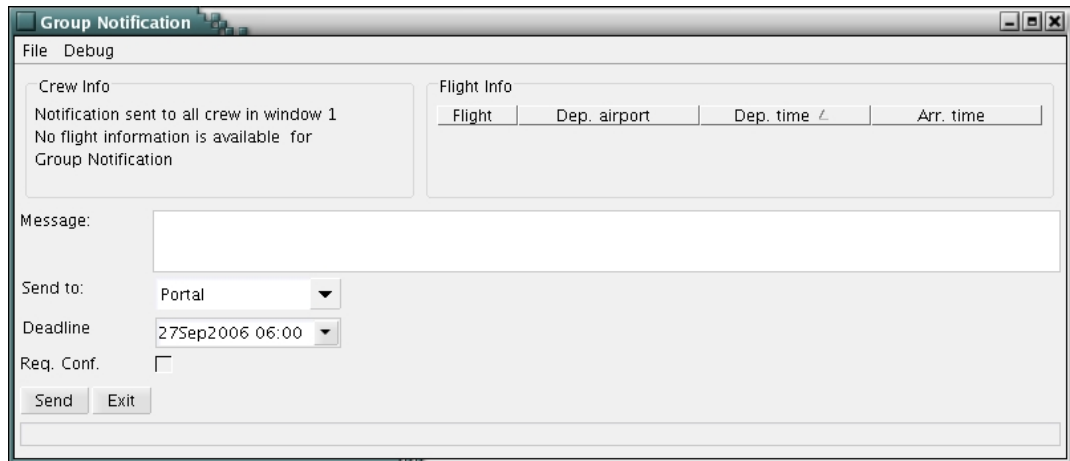The following figure is of the notification creator for a group:

Figure [3]   Notification creator for a group. The current time is 06:00 (UTC) the 27th of September 2006.

The group notification creator window is similar to the single crew notification creator window.

The upper left part which in the case of a single crew, contains crew information, now informs that the notification will be sent to all crew in a specific Tracking Editor window (in this case window 1). Furthermore no flight information is available when sending notifications to a group of crew. As is stated in the crew information part of the window, the upper right part of the window (flight info part) contains no information.

The following differs in the way a notification may be created:

Send to: It is not possible to send a notification to HERMES for group notifications. Thus the only alternative in the drop-down menu will be Portal.

Other than the exceptions mentioned above, notifications will be sent to all the crew in the same way as for a single crew.

1.2 User interface: Notification Viewer

The notification viewer is an application which allows the user to see all notifications.

Note: The current system only allows notifications to be seen for a single crew member which is enforced by an unchangeable Crew Id filter (see below for a more detailed description of the filters)

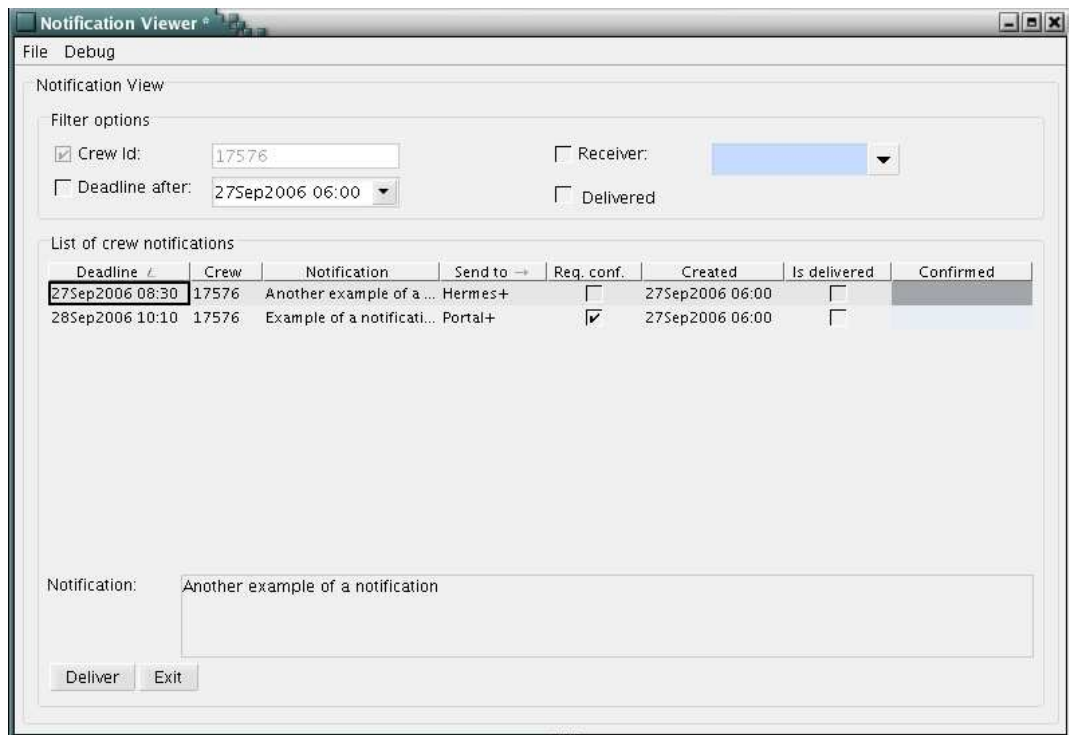The following figure shows the notification viewer for a specific crew:

Figure [4]   The notification viewer for a specific crew.

At the top of the notification viewer, several filter options are provided. Below the filters is a list of notifications. The contents of this list depends on the filters. At the bottom of the window, a notification details part, some functional buttons and a status-bar can be found.

1.2.1 Filtering notifications

The filters are operated by entering a value for the filter (if one should be provided) and then checking the check-box. The order of these actions are important.
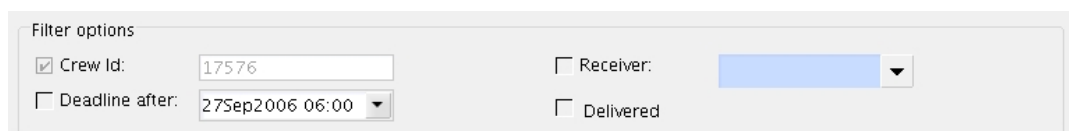

Figure [5]   The filters

The filters should work as follows:

Crew Id: When this filter is active, only notifications sent to the crew with the crew id found in the filter value will be shown in the notification list.
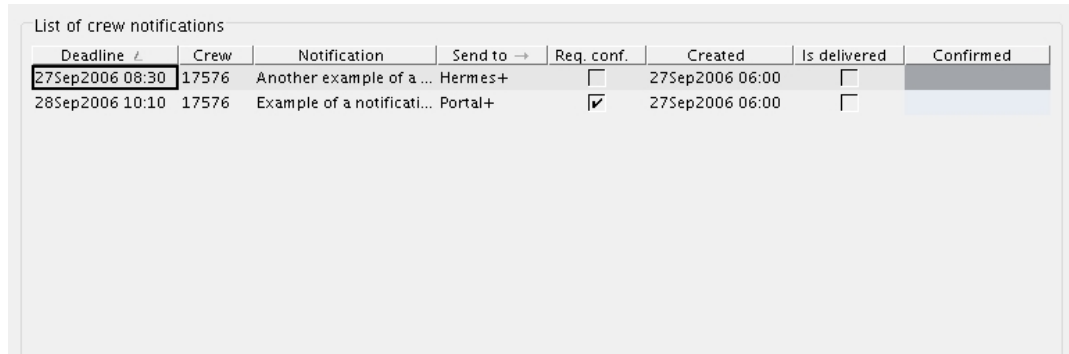
Deadline after: When this filter is active, only notifications which has deadlines after the deadline set in the filter will be shown in the notification list.

Receiver: The drop down menu provides all the options for this filter. They are: Hermes and Portal. When the filter is active, only the notifications sent either to the crew portal or to HERMES will be shown in the notification list.

Delivered: This filter does not contain any value. When active, only the delivered notifications will be seen in the notification list.

1.2.2 List of notifications

The notification list shows all available notifications that fulfils the requirements set by the filters.

Deadline ∠	Crew	Notification	Send to →	Req. conf.	Created	Is delivered	Confirmed
27Sep2006 08:30	17576	Another example of a ...	Hermes+	☐	27Sep2006 06:00	☐	
28Sep2006 10:10	17576	Example of a notificati...	Portal+	☑	27Sep2006 06:00	☐	

Figure [6]   List of notifications

The list consists of eight columns:

Deadline: The deadline of the notification. This is the value the notifications are sorted by (unless changed by the user) in the notification list. The "earliest" deadline will be shown first in the list.

Crew: Shows the crew id of the crew for which this notification is applicable. There is always just one crew id for every notification, should a notification be sent to several crew, there will be multiple entries in the notification list – one for each crew.

Notification: Shows the notification text (as much as can be fitted into the column). To view the entire notification text, see the chapter on notification details below.

Send to: Specifies through which system the notification is to be sent (HERMES or crew portal).

Req. Conf.: This column shows if the sender of the notification is requesting confirmation. If the check-box is checked, confirmation is requested otherwise not.

Created: Shows the date and time when the notification was created.

Is delivered: The check-boxes of this column is checked if the notification has been delivered to the crew (i.e. if the crew has logged in to the crew portal since the creation of a notification or not).

Confirmed: Text entered as a confirmation of the notification.

1.2.3 Notification details

Since the table representation of the notifications does not always present the entire message of the notification, the notification details window has been added.

Notification:	Another example of a notification

Figure [7]   The notification details view

In order to see a notification in the notification details view, the notification must be marked in the notification list.

1.2.4 Action-bar

The action bar consists of two buttons, "Deliver" and "Exit".

The "Deliver" buttons sets a marked notification to be delivered.
The "Exit" button closes the notification viewer.