



A.D. ENGINEERING INTERNATIONAL
MAKE IT HAPPEN

CONGESTION MANAGEMENT SYSTEM OPERATIONS MANUAL

cms.adengineering.com.au/cms/trucksign/



Congestion Management System

Log in.

Use a local account to log in.

User name

test1

Password

Remember me?

Log in

[Click here to access the live sign view](#)

Document Version 25 Sept 2015

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25 Sep 2015	Update with Early Slot Message section
17 Mar 2015	Reviewed and Updated
25 July 2014	Updated added extra detail for some functions and contact details
27 Feb 2014	Update with latest changes

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Overview

The Congestion Management System (CMS) system has been designed by Fremantle Ports to alleviate and manage truck congestion situations. The Congestion Management System (CMS) serves four basic purposes:

1. Inform truck drivers of congestion via Variable Messaging Signs (VMS);
2. Register incoming trucks and their destination into the Truck Marshalling Area (TMA);
3. Call up trucks in an ordered manner to proceed to their destination;
4. Deactivate the system and clear the Truck Marshalling Area (TMA) in a fair and orderly manner.

The main actions for the site operator are:

1. Logging on to activate the CMS and VMS.
2. Calling up trucks from the TMA after they have been registered;
3. Clear trucks off the VMS when they have been processed;
4. Logging off (which starts the “cessation” session, to call up all remaining queued trucks from the TMA and give them a chance to get to the site ahead of newly arriving vehicles).

Preparation for Initiating the CMS

Only use the CMS for truck congestion situations that won't clear in an acceptable time period.

Before starting, please ensure you have done the following:

1. Determine a valid congestion situation exists.
2. Ensure the Truck Marshalling Area (TMA) is open (gates unlocked, Driver Entry Screen Hut unlocked) - Call the Fremantle Ports Security Centre on 94303416 or 94303315 or Matt on 0408954313
3. If necessary, immediately after you have turned on the CMS, inform the excess trucks already queued outside your premises (those that are already causing a traffic obstruction) to proceed to the Truck Marshalling Area (while noting down their licence plate details and assuring them that they will be called in first, when space is available. Make sure you note the licence plate of the last truck remaining in the queue, so that you know who is legitimately queued and who is a “queue jumper”).

Completing these few simple steps prior to and just after starting the CMS will significantly add to ensuring a smoother flow.

Congestion Management System Website

Start up your internet web browser and call up the Congestion Management System website. This can be found under the following address:

cms.adengineering.com.au/trucksign/

CMS Log In Screen

If you have entered the address correctly, you should receive the following screen:

Congestion Management System Operations Manual

cms.adengineering.com.au/cms/trucksign/



Congestion Management System

Log in.

Use a local account to log in.

User name

Password

Remember me?

[Click here to access the live sign view](#)

Use administrator to log in.

To view the status of the CMS VMS signs, without having to create a diversion for your site by logging onto the system, select the “**Click here to access the live screen view**” option at the log on screen. Anyone who logs on to the CMS, even those that do not have a log in, can see the live screen view using this functionality. This means others at your site can see what is happening with trucks on the TMA screens by using this option. The live screen view link is available on most system screens.

Enter your log in details and click on the **Log in** button. This will bring you to the Home Screen.

If you do not have a log in, contact the Fremantle Ports CMS Administrator to assist you with a log in (phone Matt on 0408954313 or John Stenhouse on 94303416).

Your User Name is a continuous, but often shortened name that describes your organisation. Jayde is Jayde. Container Cargo Services is CCS.

You will be assigned a password. You can have the password modified if desired. Contact the Fremantle Ports CMS Administrator to arrange the password. The password must be at least 6 digits.

Home Screen



Congestion Management System

Welcome **dpworld!**

[Home](#) [About](#) [Contact](#)

DP WORLD

Marshall Yard

Waiting Truck

Number	BAT	Added Time	time slot	wait time	Call
1	434	27/02/2014 10:53:31 AM	1100	00:00:26	<input type="button" value="Call"/> <input type="button" value="Remove"/>
2	676	27/02/2014 10:53:58 AM	1100	00:00:00	<input type="button" value="Call"/> <input type="button" value="Remove"/>

Called Truck

Number	BAT	Called Time	time slot	wait time	Arrived	Re-Call	Cancel
1	123	27/02/2014 10:53:49 AM	1100	00:00:08	<input type="button" value="Arrived"/>	<input type="button" value="Re-Call"/>	<input type="button" value="Cancel"/>

[Click here to access the live sign view](#)

The screen allows you to see the trucks waiting in the Marshalling Yard and the trucks being called. The main functions that can be performed are:-

- Call Next truck
- Add a truck.

Trucks diverted to the TMA are required to register themselves via the kiosk or check-in bollards so the system can queue them for their destination site. The CMS adds the time the truck registered and

Congestion Management System Operations Manual

sends these details to your CMS Home screen. This information then appears as an entry in the “Waiting Trucks” list. Depending on the site, trucks may be registered by the truck’s registration number (license plate number) or their BAT number.

ome/FirstComeFirstServeWithinOneHourTimeSlot_Index

Patrick

Marshall Yard

Waiting Truck

Number	Rego	Added Time	time slot	wait time	status	Call
1	1DDT 666	7/17/2013 11:52:58 AM	1100	00:51:45	queued	<input type="button" value="Call"/> <input type="button" value="Remove"/>
2	1DDT 646	7/17/2013 12:43:52 PM	1100	00:00:50	queued	<input type="button" value="Call"/> <input type="button" value="Remove"/>

Called Truck

Number	Rego	Called Time	time slot	wait time	Arrived	Re-Call	Cancel
--------	------	-------------	-----------	-----------	---------	---------	--------

Calling Up Trucks

The system can Auto Call trucks if it has been enabled or you can manually call up trucks by one of three methods:

1. Call the next truck in the list (preferred method);
2. Call all trucks for a particular time slot; or
3. Call an individual truck from the list.

Call Next Truck (preferred method)

To the left of the “Add truck” button is “Call next truck”. Pressing the “**Call next truck**” button will take the truck listed at the top of the list in the “Waiting Trucks” section and move it to the “Called Trucks” section. It will activate the signs in the TMA, to display a call up message with that truck add to the list of trucks which have been called up.

This is the preferred method as it is the easiest to manage and ensures the first come first served process.

Time Slots differences - Note: should there be a truck with an earlier time slot, although it may have been registered later, because it has an earlier slot, it will be promoted in the list.

The trucks in the waiting list are shaded into groups of timeslots.

Waiting Truck

Number	BAT	Added Time	time slot	wait time	Call
1	443	27/02/2014 11:01:24 AM	1200	00:47:26	<input type="button" value="Call"/> <input type="button" value="Remove"/>
2	317	27/02/2014 11:46:44 AM	1200	00:02:06	<input type="button" value="Call"/> <input type="button" value="Remove"/>
3	448	27/02/2014 11:46:30 AM	1300	00:02:20	<input type="button" value="Call"/> <input type="button" value="Remove"/>
4	432	27/02/2014 11:47:03 AM	1400	00:01:47	<input type="button" value="Call"/> <input type="button" value="Remove"/>

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The waiting trucks for the timeslot are displayed. The timeslot can be incremented or decremented using the large arrow up ▲ and down ▼ buttons or a timeslot can be selected from a dropdown list clicking the small down arrow button in the Timeslot text box. When a timeslot has been selected, press the **Refresh** button to update the Waiting Truck list.

A warning message will appear if there are trucks from an earlier time slot in the queue as these would be included in the call up.

To transfer all trucks from the Waiting list to the Called Trucks list, press the >> button. To transfer one truck, click on the truck to highlight it and then click the > button. You can select multiple trucks by holding down the Ctrl button and then click on the trucks you want to select. Then click the > button to transfer. Called trucks in the list can be transferred back to the waiting list using the same method but using the << or < arrow buttons.

ne/FirstComeFirstServeWithinOneHourTimeSlot_CallNextSlot



Congestion Management System

Welcome test2! [Log Off](#)

[Home](#) [About](#) [Contact](#)

Call Time Slot

• There are trucks in earlier time slots

TimeSlot: 1200 ▲ ▼ Refresh

Waiting Trucks		Called Trucks
1200 11:50 1ADI 302	>> > < <<	1100 11:52 1DDT 666 1100 12:43 1DDT 646
Back to list		Add Called Trucks

When you've finished transferring trucks to the Called list, click the **Add Called Trucks** button. The home screen appears showing the trucks in the Called Trucks list. When multiple trucks are called at the same time, they appear on the TMA screens with delay to give the trucks a chance to arrive in the correct order. The first truck is displayed almost immediately with the subsequent trucks each delayed. (Since the web page is refreshed every 30 seconds, the first one may look as if it is pending but reloading the page will show it as not pending). Trucks that are pending are highlighted with a yellow background. As they are displayed on the screen, the highlighting is removed.



Congestion Management System

Welcome dpworld! [Log Off](#)

[Home](#) [About](#) [Contact](#)

DP WORLD

Marshall Yard

Waiting Truck						Called Truck							
Number	BAT	Added Time	time slot	wait time	Call	Number	BAT	Called Time	time slot	wait time	Arrived	Re-Call	Cancel
1	443	27/02/2014 11:01:24 AM	1200	00:47:26	Call Remove	1	T765	27/02/2014 11:46:15 AM	1200	00:02:35	Arrived	Re-Call	Cancel
2	317	27/02/2014 11:46:44 AM	1200	00:02:06	Call Remove								
3	448	27/02/2014 11:46:30 AM	1300	00:02:20	Call Remove								
4	432	27/02/2014 11:47:03 AM	1400	00:01:47	Call Remove								

You can cancel a called truck by clicking on the **Cancel** button for that truck and it will be transferred back to the Waiting Truck list.

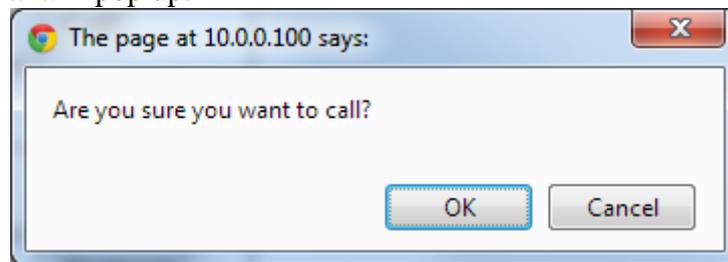
Call an Individual Truck

This option should only be used in justifiable circumstances for instance:

- There are trucks in the list which are too late for their time slot and you do not wish to call them ahead of other trucks;
- You have just started the CMS and have trucks lined up in front of your door, whose details you have noted, but who may not make it to the TMA in the right order or ahead of other trucks - these trucks are legitimately supposed to be called up first according to first come first served, but due to the registration process' time stamp, will need to be called up individually in the appropriate order; or
- There is a truck with recognisably urgent freight that needs to be called up ahead of other trucks.

You can call an individual truck by clicking the **Call** button in the call column for that truck.

A confirmation window will pop up.



Click the **OK** button to confirm and the truck will be transferred to the Called Truck section.

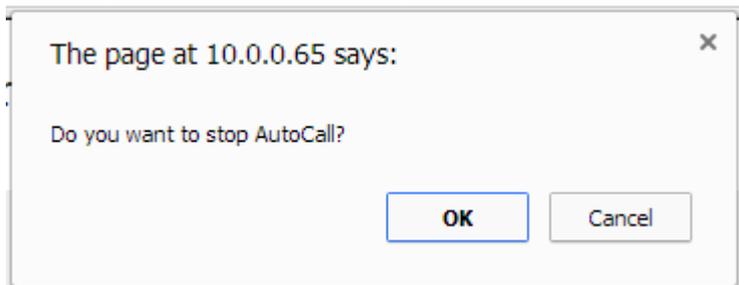
Auto Call

Auto Call will automatically call up trucks according to the Auto Call parameters that have been set up in the system by the administrator. Trucks are called up according to the time slot, the current time and their order in the list. If multiple trucks are to be called, they are called up one by one every 40 seconds or as set in the system configuration. If you wish to have this changed, call Matt on 0408954313.



When Auto Call mode is enabled, the Auto Call button is yellow.

Clicking on the Auto Call button brings up a pop up window asking if you want to stop Auto Call.



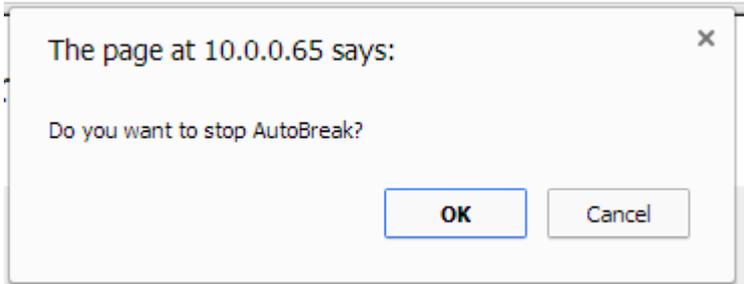
If you stop Auto Call, the Auto Call button will be white. If you press the Auto Call button when it is white, it will automatically start Auto Call and turn yellow.

Auto Break

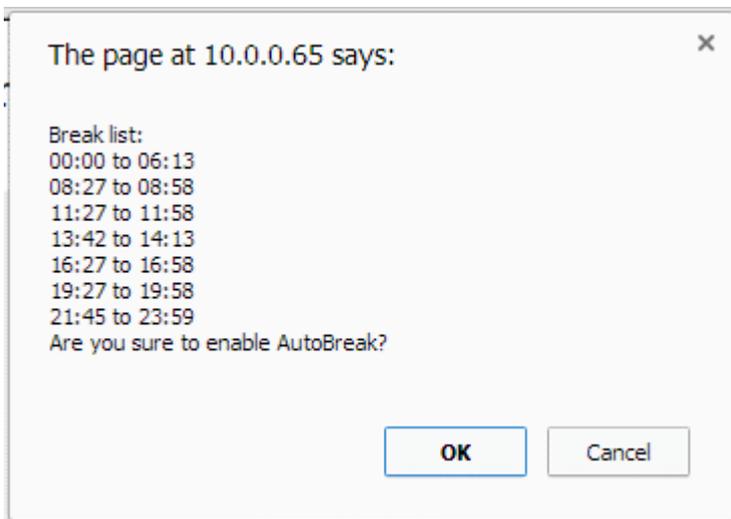
Auto Break is used to halt Auto Call when staff are having their scheduled tea/lunch break. When Auto Break is enabled, the Auto Break button is yellow.



When the time corresponds to their scheduled break, the Auto Break button turns red. This indicates that no trucks will be called during this time. When Auto Break is enabled, pressing the Auto Break button brings up a pop-up asking if you want to stop Auto Break.



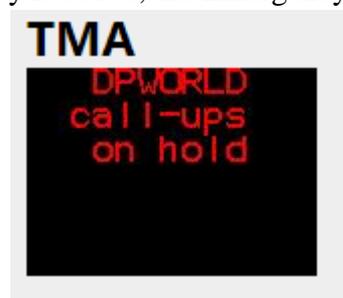
If you stop Auto Break, the Auto Break button will be white. If you press the Auto Call button when it is white, it will pop-up a list of the break times that have been set. If you wish to have this changed, call Matt on 0408954313.



When you enable the Auto Break, then the Auto Break will turn yellow (or red if it is in break time).

Emergency

The Emergency button is used to halt all call ups of trucks. The wait time being displayed is not updated until the emergency is cleared with a restart. When an Emergency is active, the Emergency button is red and a “Call-ups on hold” message is displayed on the TMA sign.



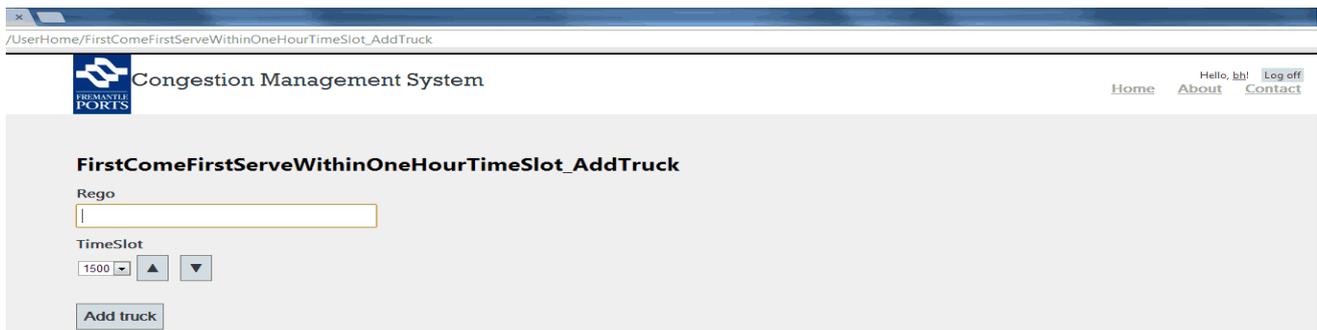
To clear the emergency, press the Restart button. The Emergency button will then turn white, the restart button disappears, the wait time is updated and the “Call-ups on hold” message on the TMA screen is removed.

Add truck

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There may be instances where a site may need to manually register a truck. For example: where the site has turned on the system and want to ensure that the trucks that were already lined up in front of their site are given priority, in first come first served order, even after driving off to the TMA.

In such cases, the site may utilise the “**Add Truck**” functionality. Clicking the “**Add Truck**” function allows the details to be entered. Enter the truck’s ID details and, if appropriate, chooses the time slot. The system will default to the most appropriate time slot in relation to the actual time of day. You can adjust the timeslot using the large arrow up ▲ and down ▼ buttons or a timeslot can be selected from a dropdown list clicking the small down arrow button in the Timeslot text box.



The screenshot shows a web browser window with the URL `/UserHome/FirstComeFirstServeWithinOneHourTimeSlot_AddTruck`. The page title is "Congestion Management System" and the logo for "PREMISTLE PORTS" is visible. The main content area is titled "FirstComeFirstServeWithinOneHourTimeSlot_AddTruck" and contains a form with the following elements:

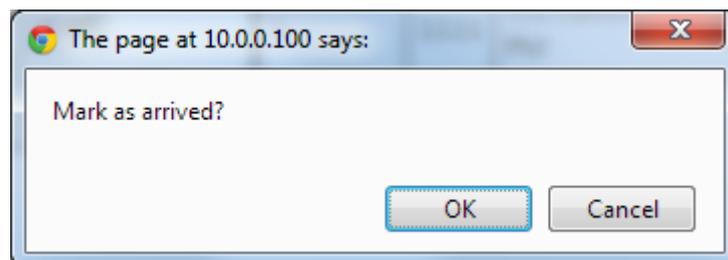
- A text input field labeled "Rego" with a cursor inside.
- A "TimeSlot" section with a dropdown menu showing "1500", a small down arrow button, and two larger arrow buttons (up and down).
- An "Add truck" button at the bottom.

Click the **Add truck** button after the details are entered correctly and the system will register the details entered into the “Waiting Trucks” list of the Home screen.

Arrived

When a truck arrives at your site, click the **Arrival** button for that truck so it can be removed from the list. **** It is important that you do this when trucks arrive so they are removed from the system and the signs.**

You will be asked for confirmation of arrival. Click **OK** and the truck will be removed from the system.



At times of high congestion, failing to clear trucks off as arrived may lead to a long queue of trucks appearing on the TMA screens, which may be confusing to drivers and may lead to delays of drivers seeing their call up message and arriving at your site.

It is also vital that you properly manage the trucks arriving at your site to ensure first come first served. The system will only be successful if drivers are convinced that they are enjoying the same surety of entry as if they were lined up in a queue in front of your premises.

IF YOU FAIL TO ENSURE FIRST COME FIRST SERVED, DRIVERS MAY START TO IGNORE THE SYSTEM, WHICH MEANS THE PORT COMMUNITY WILL HAVE THE SAME QUEUING PROBLEMS AS BEFORE. YOU WILL BE LIABLE FOR ANY INJURIES OR ACCIDENTS CAUSED AND YOU WILL BE RESPONSIBLE FOR ANSWERING QUERIES AS TO WHY FIRST COME FIRST SERVED WAS NOT MAINTAINED.

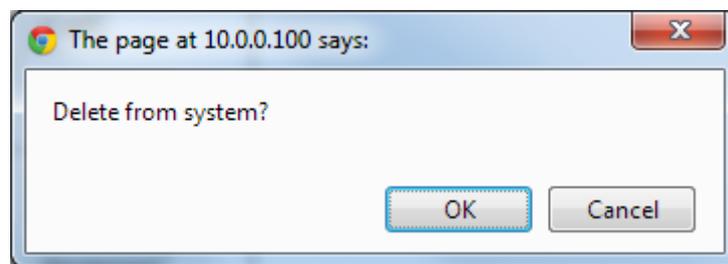
Cancel

If you wish to return a truck to the “Waiting Trucks” section for whatever reason, and thereby remove it from the TMA screens, you can do this by pressing the “**Cancel**” button next to the truck ID.

Although it is called cancel, this does not remove the truck from the system, it simply returns it to the “Waiting Trucks” section. All other information remains the same.

Remove a Truck

To remove a truck from the “Waiting Trucks” list, use the “**Remove**” button. A pop up a window asks if you are certain you wish to delete from system. Pressing OK will permanently remove the truck.



**Note: You must only use this functionality sparingly and with proper justification. Choosing this option will not only remove the truck from your “Waiting Trucks” list, but also lose the registration timing information, and therefore first come first served priority.

Timing out of Trucks

Re-Call

To prevent trucks remaining on the TMA screen indefinitely, CMS has a function which clears called up trucks off the screens after a given period of time (30 minutes or as set by configuration). Just prior to clearing the truck off the screen, CMS will start denoting un-arrived trucks by an olive green background, to provide a warning to the site that they have called up a truck, but it has not arrived. If you do not want the truck to be removed, you can press the **Re-Call** button for that truck. This will reset the wait time back to 0 to give another 30 minutes for the truck to arrive before it comes up for time out again.

CMS Early Slot Message Instructions

Login with your username and allocated password in the same link as the congestion management system:

<http://cms.adengineering.com.au/trucksign/>



Congestion Management System

Log in.

Use a local account to log in.

User name

dpwslots

Password

•••••

Remember me?

Log in

[Click here to access the live sign view](#)

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After Logging, the following screen appears showing a map of the VMS signs around the harbour. Click the **Message** button on the right hand side to proceed.

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Clicking on the **Message** button will bring up the following screen. Feel free to keep this screen logged in throughout the day as it will simply be 2 clicks for the selected message to be displayed (set and forget).

Congestion Management System Operations Manual

The screenshot shows the Congestion Management System interface. At the top left is the Fremantle Ports logo. The title 'Congestion Management System' is centered. On the top right, there is a 'Log Off' button and a 'Welcome dpwslots!' message with links for 'Home', 'About', and 'Contact'. Below the header is a table with the following data:

Name	Priority	External	TMA	Schedule	
CARGOLINK UPDATE	GeneralMessage	Yes	No	From today forever;From 06:00 to 18:30;Weekday	Remove
QUBE EXTENDED HOURS	GeneralMessage	Yes	No	From today forever;From 05:30 to 21:30;Weekday	Remove

Below the table is a form with two main sections: 'Scheduled Message:' and 'Unscheduled Message:'. The 'Scheduled Message:' section has a dropdown menu currently showing 'DPW STOP WORK' and two arrow buttons. The 'Unscheduled Message:' section has a dropdown menu showing 'PATRICK STOP WOF' and two arrow buttons. Below these sections are two buttons: 'Add Scheduled Message' and 'Add Unscheduled Message'. At the bottom left, there is a link: 'Click here to access the live sign view'.

In the drop down menu for **Scheduled Message** there are a set of pre-defined messages that are set to expire i.e.: 'DPW 1PM OPEN' will be automatically taken off the screen at 12:59pm. Select the appropriate message to be displayed and click the 'Add Scheduled Message' button.

This screenshot shows the same interface as above, but with the 'Scheduled Message:' dropdown menu open. The menu lists the following options: DPW STOP WORK, CARGOLINK UPDATE, TMA WAIT, 3/7 MAERSK TO TYD, DPW 7AM OPEN, DPW 8AM OPEN, DPW 9AM OPEN, DPW 10AM OPEN, DPW 11AM OPEN, DPW 12PM OPEN, DPW 1PM OPEN (highlighted in blue), DPW 2PM OPEN, DPW 3PM OPEN, DPW 4PM OPEN, DPW 5PM OPEN, DPW 6PM OPEN, DPW 7PM OPEN, PATRICK 14:00 SLOTS, and QUBE EXTENDED HOURS. The rest of the interface remains the same.

The message will now be added to the message listing currently displayed.

This screenshot shows the updated message listing. The table now includes the 'DPW 1PM OPEN' message. The data is as follows:

Name	Priority	External	TMA	Schedule	
CARGOLINK UPDATE	GeneralMessage	Yes	No	From today forever;From 06:00 to 18:30;Weekday	Remove
DPW 1PM OPEN	GeneralMessage	Yes	No	To 7/08/2015 12:59:00 PM	Remove
QUBE EXTENDED HOURS	GeneralMessage	Yes	No	From today forever;From 05:30 to 21:30;Weekday	Remove

The rest of the interface, including the form and buttons, remains the same as in the previous screenshot.

Confirmation of the current messages appearing on the VMS can be seen by clicking on the 'Click here to access live sign view' link, bottom left hand side.

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Once messages placed in the system, when they expire, they are automatically removed and will not appear again until the operator repeats this process.

Unscheduled Message is a pre-defined selection of messages that FPA can input to suit your needs. Unscheduled messages will expire at the time the operator designates.

Gate Function

Certain sites have a gatehouse, which is where the trucks arrive, but is away from the administrative area where the user sits who actually controls the call up of trucks etc.

For this reason, there is a “Gate” function which allows the gatehouse to only mark off a truck as arrived.

There is a separate login for the gatehouse, which the Fremantle Ports CMS Administrator can set up. When you log as a gatehouse user, the home screen will only show called trucks.

cms/trucksign/UserHome/SecurityGateUser_Index

our password?

 Congestion Management System Welcome test1g!
[Home](#) [About](#) [Contact](#)

DPW

Marshall Yard

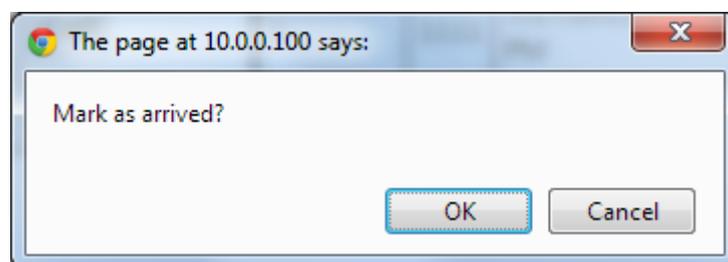
Called Truck

Number	BAT	Called Time	time slot	wait time	Arrived
1	T1111	18/07/2013 7:17:25 AM	0700	00:01:08	<input type="button" value="Arrival"/>
2	T1112	18/07/2013 7:17:27 AM	0700	00:01:06	<input type="button" value="Arrival"/>

[Click here to access the live sign view](#)

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When the trucks arrive, you can mark them off by clicking the **Arrival** button for that truck. You will be asked for confirmation of arrival. Click **OK** and the truck will be removed from the system.



You can access the live view of the screens by clicking the “**Click here to access the live sign view**”. Trucks that have been marked as arrived will be removed from the TMA internal screens.



Truck Live Message View

External



TMA



[Back](#)

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Cessation

While you are logged on, the signs will continue to show that there is congestion at your site and will ask drivers to divert.

Once you are confident that congestion is clearing and that you can accept direct arrivals again, you stop the CMS simply by logging off. There is no need to press any shut down or turn off function.

When you attempt to log off, the system will ask you whether you are sure you wish to log off and start cessation logic.

On logging off, the cessation logic commences:

- All trucks in the “Waiting Trucks” section are called up – this prevents trucks being stranded in the TMA that may have not been called up prior to a site logging off;
- Delay logic gives trucks in the TMA time to make their way to your site, ahead of trucks arriving directly. This assists the first come first served integrity so trucks waiting at the TMA are not disadvantaged.

Following the log off, the remaining trucks in the “Waiting Trucks” section are called up one by one, in first come first served order. Once these last trucks have been called, CMS then commences a delay until it turns off the signs. In the meantime, the signs continue to show the congestion deviation message.

The time for the cessation countdown can be adjusted individually per site. For example, a site like QUBE Central, which is located near the exit to the TMA, may only need to have the cessation delay of two or three minutes, to ensure that the trucks waiting in the TMA get through prior to other directly arriving trucks. Other sites, such as Patrick, at the opposite end of North Quay to the TMA, may require ten or fifteen minutes, as directly arriving trucks turn straight into their site, while trucks from the TMA have a long distance to go.

After the countdown period, the external signs remove the congestion diversion message and return to their normal state.

Sign View when logged off

To view the status of the CMS VMS signs, without having to create a diversion for your site by logging onto the system, select the “**Click here to access the live screen view**” option at the log on screen. Anyone who logs on to the CMS, even those that do not have a log in, can see the live screen view using this functionality. This means others at your site can see what is happening with trucks on the TMA screens by using this option.

The screenshot shows the 'Truck Live Message View' interface. At the top left is the Fremantle Ports logo and the text 'Congestion Management System'. At the top right, it says 'Welcome dpworld!' with a 'Log Off' button and links for 'Home', 'About', and 'Contact'. The main content area is titled 'Truck Live Message View' and is divided into two sections: 'External' and 'TMA'. The 'External' section contains six black boxes with green text, each representing a different truck or location with instructions. The 'TMA' section contains one black box with green text. A 'Back' link is visible at the bottom left of the interface.

External
CARGOLINK BOUND MAERSK 48' GP TO MCD MAERSK 40' HC TO TYDEMAN
CARGOLINK BOUND MOL 20' GP TO ICL BIBRA LAKE HAMBURG SUED HC TO QUBE CENTRAL
DPWORLD PLEASE GO TO TMA
CARGOLINK BOUND ALL PIL 48' HC & GP TO TYDEMAN
QUBE CENTRAL PLEASE GO TO TMA
test1 PLEASE GO TO TMA

TMA
Please
Wait for
call up

Back

Fremantle Ports Web Site



Clicking the Fremantle Ports logo will bring you to the Fremantle Ports web site home page. To return from this page, use the browser's back button.

Glossary

BAT# - A number assigned by a site (predominantly DP World) that is linked to a trucks registration number. The BAT number is usually displayed on both driver and passenger doors of the truck. A site may choose to use truck registration number (licence plate number) or BAT number for registering a truck into the TMA.

CMS - Congestion Management System - system has been designed by Fremantle Ports to alleviate and manage truck congestion situations. Trucks entering the TMA (Truck Marshalling Area) are registered and called up in an appropriate order.

CMS Administrator - the person controlling the functionality of the system at Fremantle Ports. This is currently John Stenhouse and can be contacted on 94303416.

External signs - these are VMS (Variable Message Signs) located on the public roads to inform drivers of Site Congestion.

First Come First Served – trucks registered first are the first to be called up. This mirrors the way drivers line up in queues when waiting to go into sites.

First Come First Served within Time Slot – trucks will be ordered according to first come first served when they are within a given time slot. Trucks with an earlier time slot will be ordered earlier than trucks with later time slots, even though they may have been registered by the system earlier. For example, if there are three trucks, A, B & C arriving at the TMA in that order, but A & C have the same time slot, but B has an earlier time slot, the system will list B ahead of the other two.

ID - Identification - a means of identifying a truck or driver.

Internal Signs - these are the signs located within the TMA (TMA_1 & TMA_2). These signs show Called Truck information.

Kiosk- A touch-screen computer terminal for truck drivers to enter their details for registering to the system so they can be called up.

LPR - Licence Plate Recognition - Technology utilised within the camera used at the TMA. This technology takes an image, looks for recognisable characters and turns those characters into text. The most common usage is to turn licence plate information into text. This is being utilised here purely for (i) recognition purposes and (ii) to ease the driver registration process.

TMA - Truck Marshalling Area. This is the limestone land area set aside near the corner of Rudderham Drive and North Mole Drive, next to the current asphalted Truck Parking Area and Lunch Bar, of approximately 1.6 ha. containing 35 Long Truck parking bays.

VMS - Variable Messaging Signs - the signs used to provide information to drivers. These are electronic signs that can display messages and information under software control.

