



# Integrated Cargo System Production Report April 2008

**Date Prepared:** 12 May 2008  
**Prepared by:** Applications Branch, Customs IT

## Production Report – April 2008

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# 1 Yearly Overview

## 1.1 System Activity

### 1.1.1 Summary

Activity Summary 1-May-07 to 30-Apr-08		Total
<b>Exports</b>	Inbound Messages Received by ICS	4,471,217
	Outbound Messages Sent to Clients	5,598,115
<b>Imports</b>	Inbound Messages Received by ICS	23,610,276
	Outbound Messages Sent to Clients	79,919,655

The table above shows activity based on the volume of messages sent by Industry to ICS (Inbound) or sent by ICS to Industry (Outbound), which are counts of messages from the ICS perspective. As such amendments, duplicates, requests for retransmission, etc are included. For example, an inbound Full Import Declaration, which was then amended twice during the reporting period, would appear as 3 Inbound messages.

Request for Status messages submitted by Customs as part of the Heartbeat Monitoring activity (approx. 240,000 messages) are included in the above figures, showing under Exports.

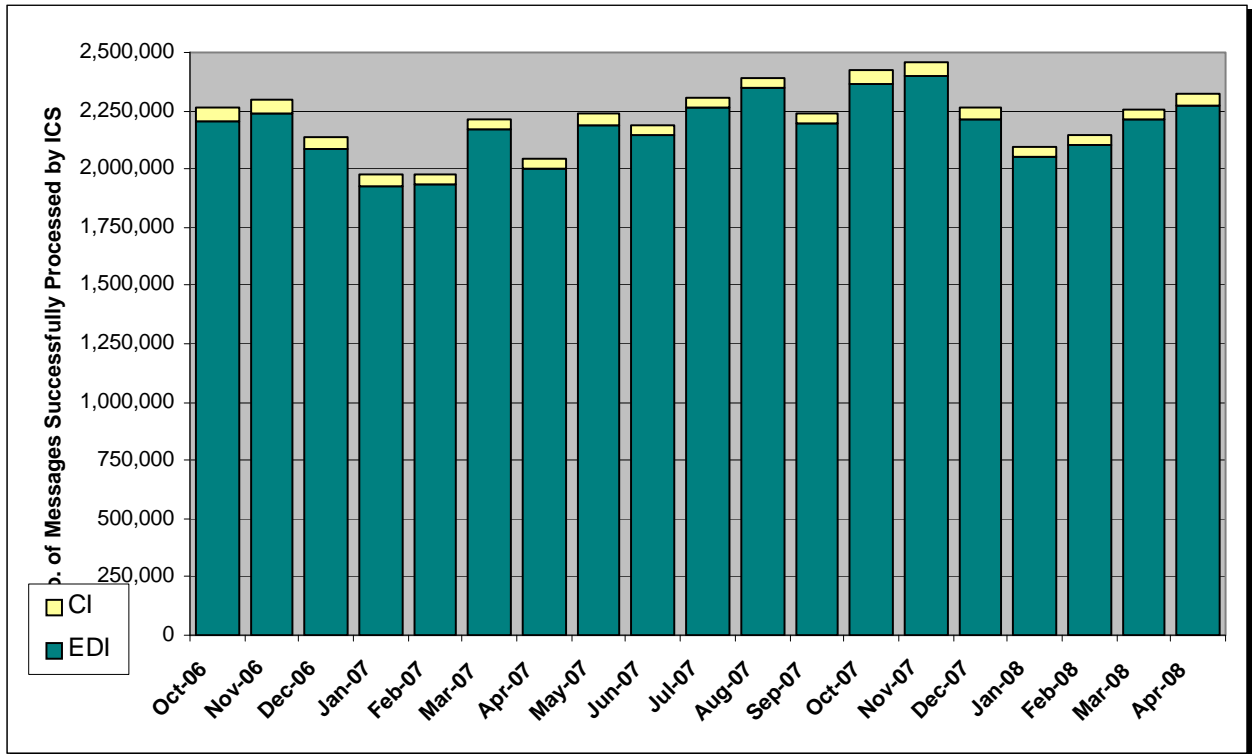
As at midnight **Mon 30 Apr 08**, the number of messages successfully processed by ICS since implementation was:

<b>Exports</b>	15,005,255
<b>Imports</b>	55,828,721
<b>Total</b>	70,833,976

**Note:**

"Successfully Processed" messages, are messages received by ICS, either by EDI or CI, for which a response message was sent, including error messages.

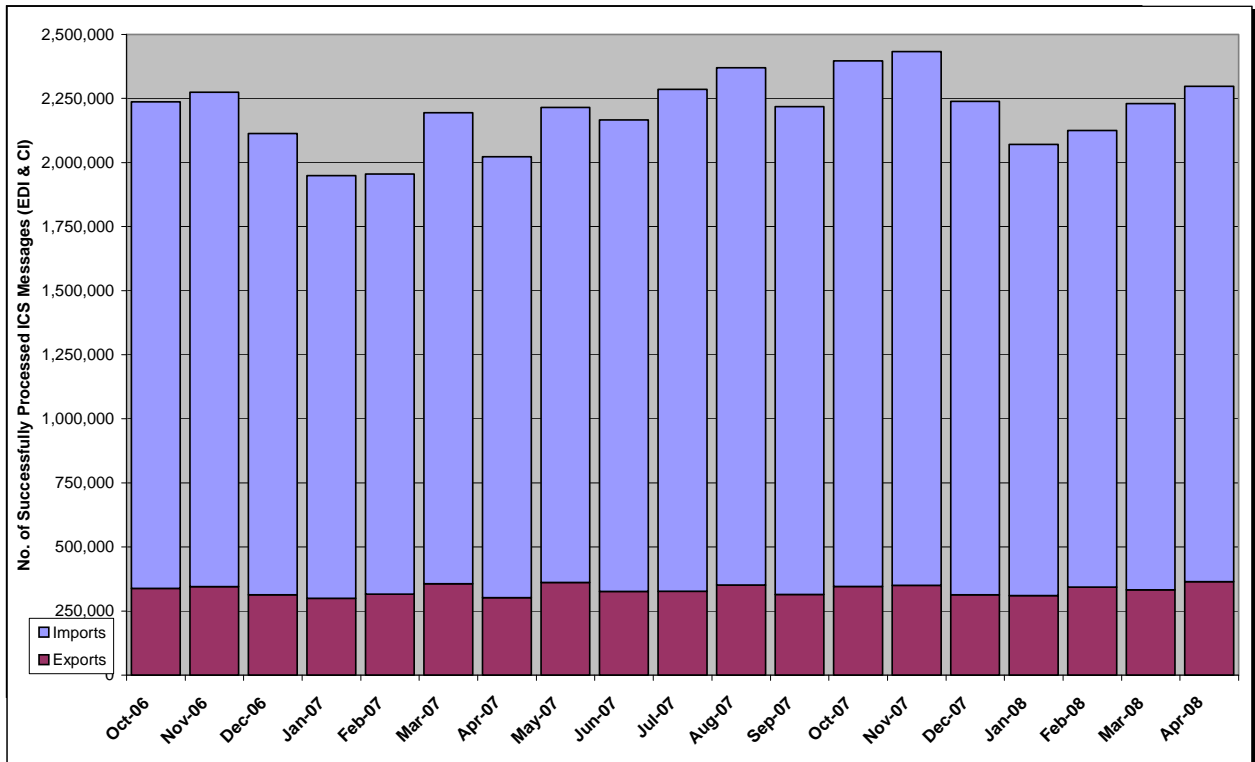
### 1.1.2 Monthly Successfully Processed ICS Messages (EDI and CI)



**Note:**

“Successfully Processed” messages are those received by ICS, for which a response message was sent, including error messages.

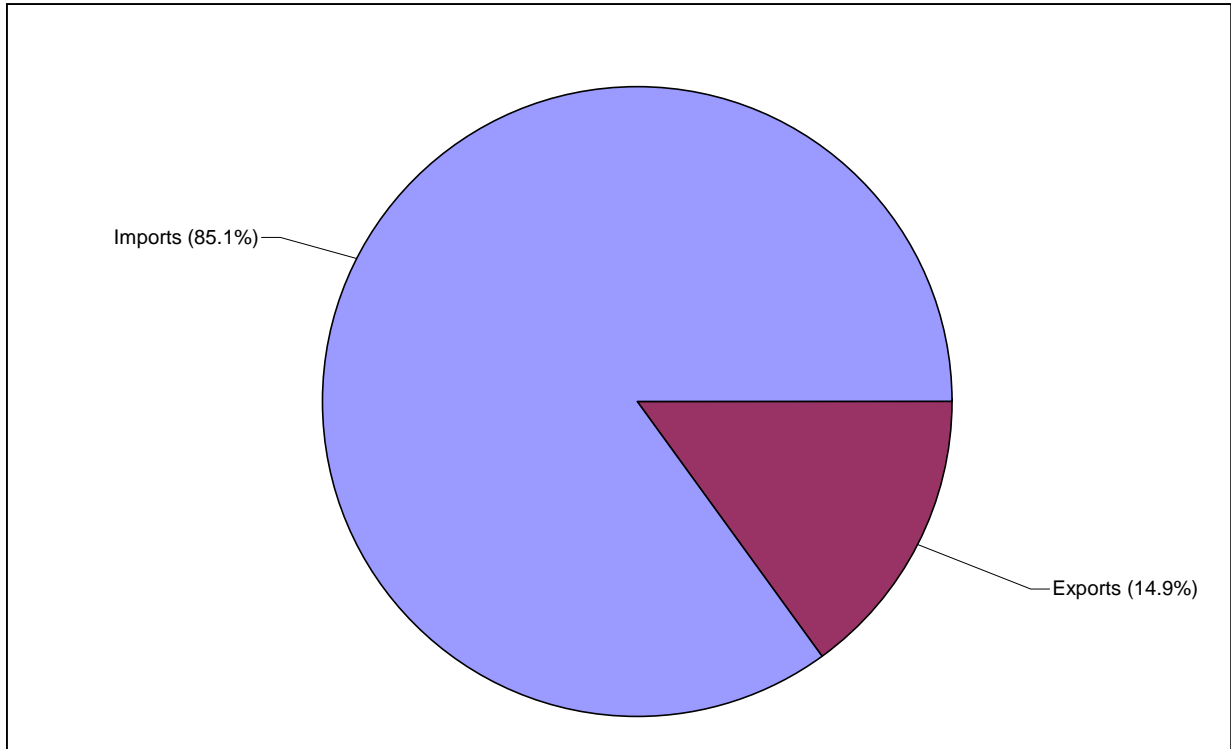
### 1.1.3 Monthly Successfully Processed ICS Messages (Imports and Exports)



**Note:**

“Successfully Processed” messages are those received by ICS, for which a response message was sent, including error messages.

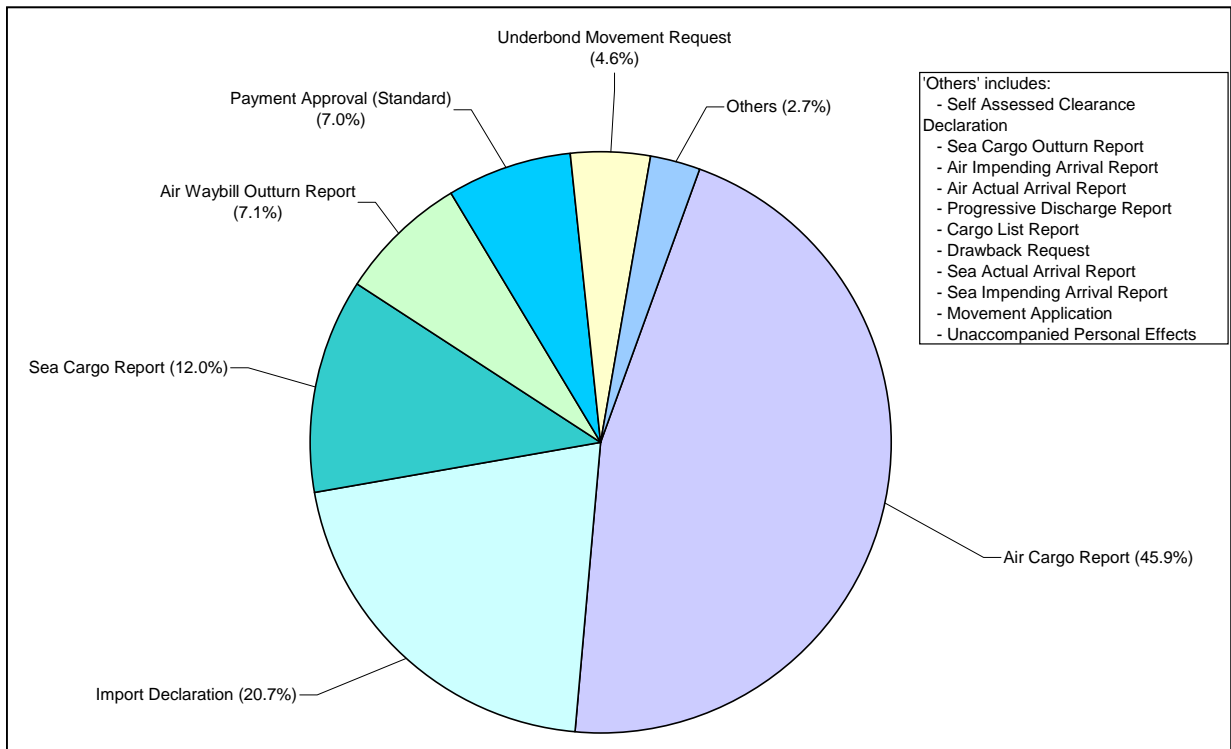
### 1.1.4 Successfully Processed ICS Messages by Category (1-May-07 to 30-Apr-08)



**Note:**

“Successfully Processed” messages are those received by ICS, for which a response message was sent, including error messages.

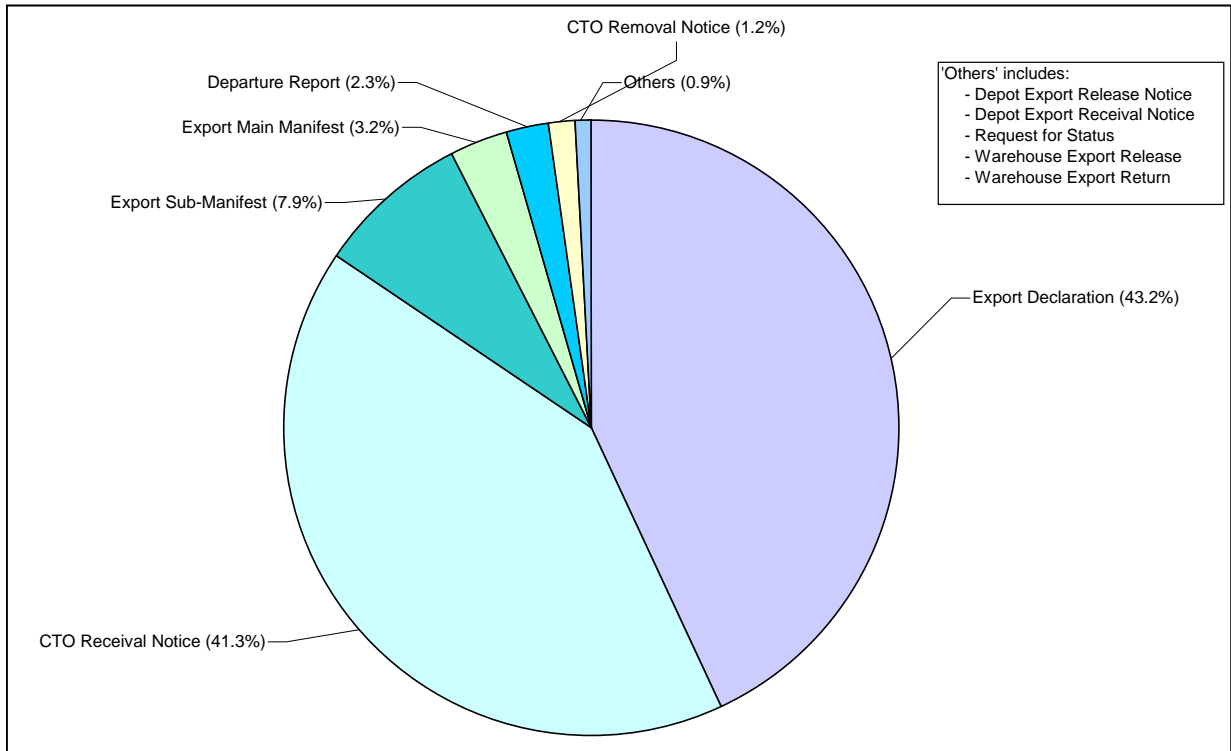
### 1.1.5 Imports Successfully Processed ICS Messages by Type (1-May-07 to 30-Apr-08)



**Note:**

“Successfully Processed” messages are those received by ICS, for which a response message was sent, including error messages.

1.1.6 Exports Successfully Processed ICS Messages by Type (1-May-07 to 30-Apr-08)

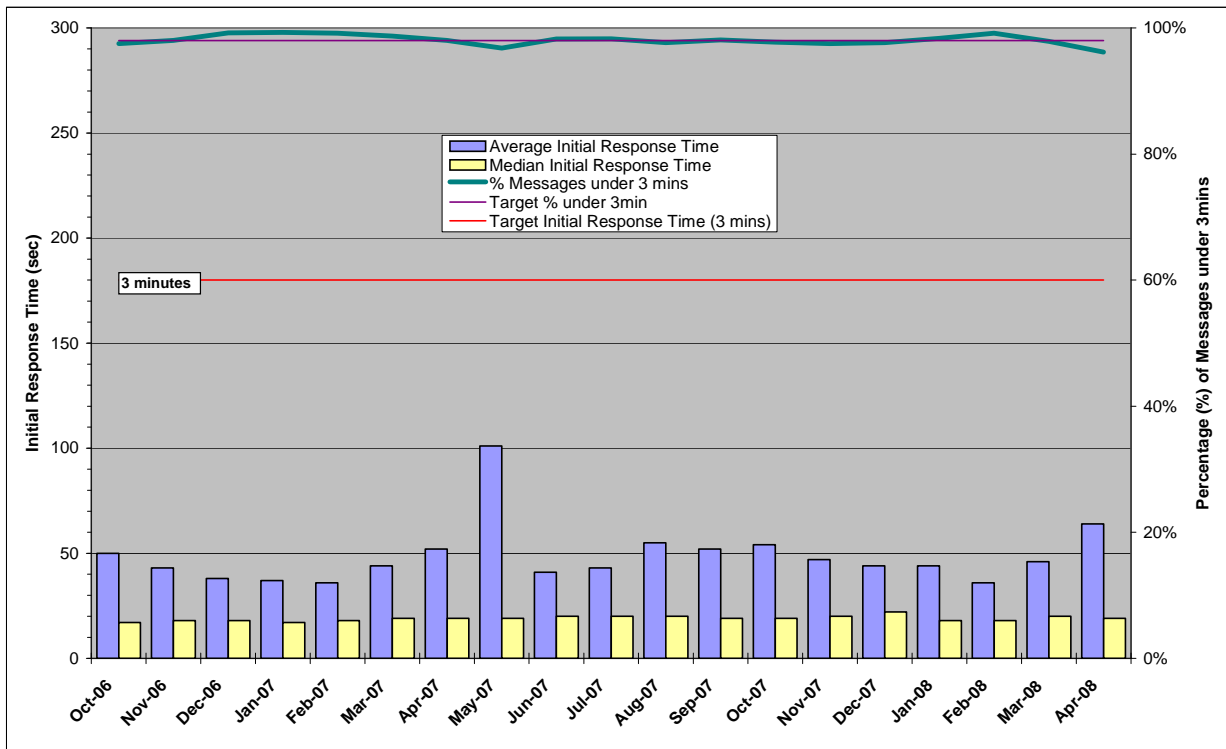


**Note:**

“Successfully Processed” messages are those received by ICS, for which a response message was sent, including error messages.

## 1.2 EDI Message Initial Response Times

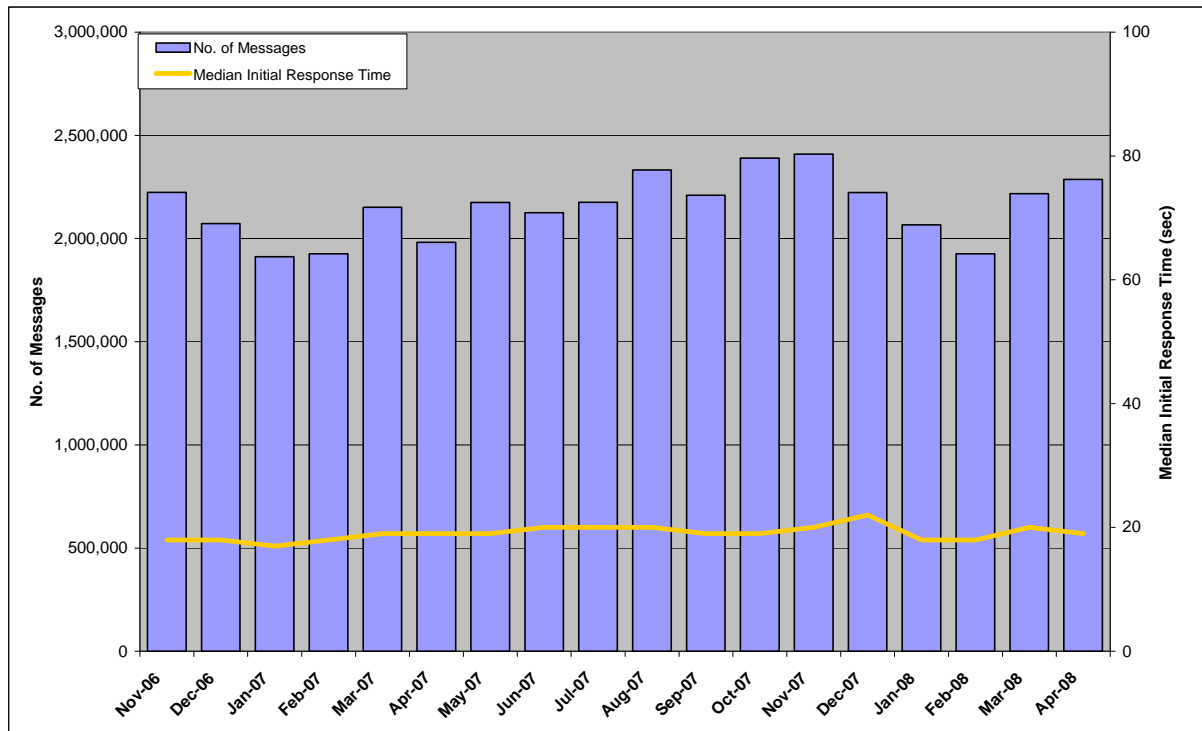
### 1.2.1 Monthly EDI Message Initial Response Time



The chart above shows Initial Response time for all messages as an average and median for the month, as well as the percentage of messages under the target of 3 minutes.

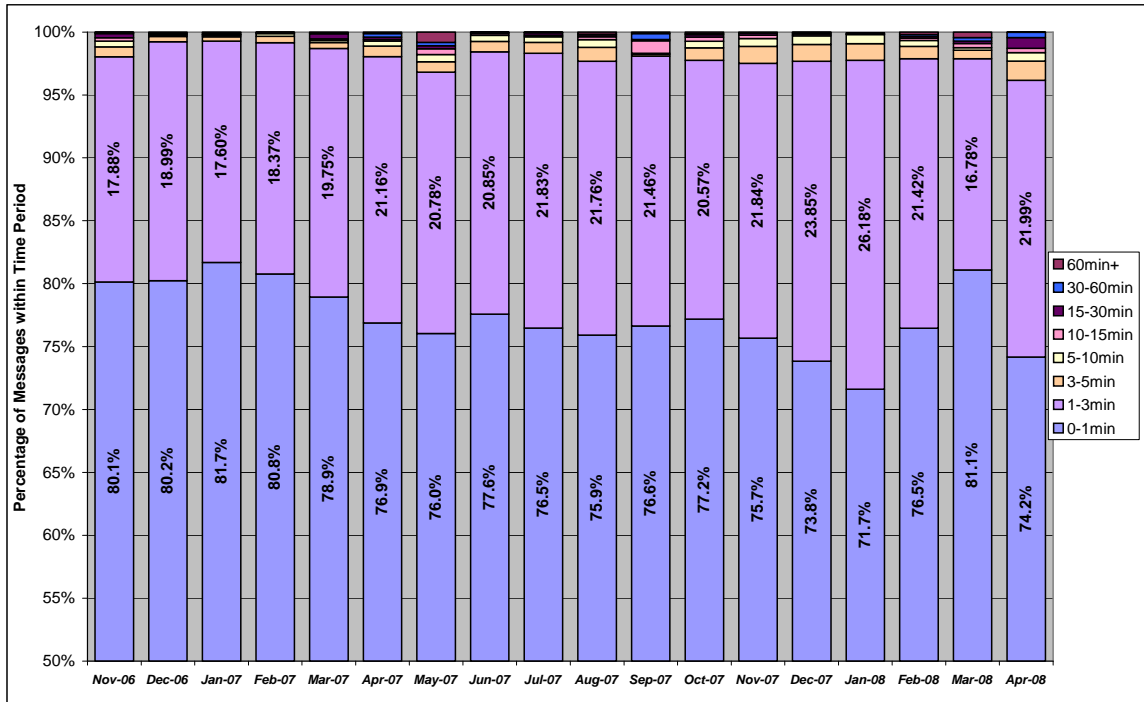
Initial Response time is defined as the time from when the message is received to the corresponding initial advice message leaving Customs.

### 1.2.2 Monthly EDI Message Initial Response Time and Message Volume



The chart above shows the median Initial Response Time by month for all messages, as well as the number of messages received. Initial Response time is defined as the time from when the message is received to the corresponding initial advice message leaving Customs.

### 1.2.3 Monthly EDI Message Initial Response Time Breakdown



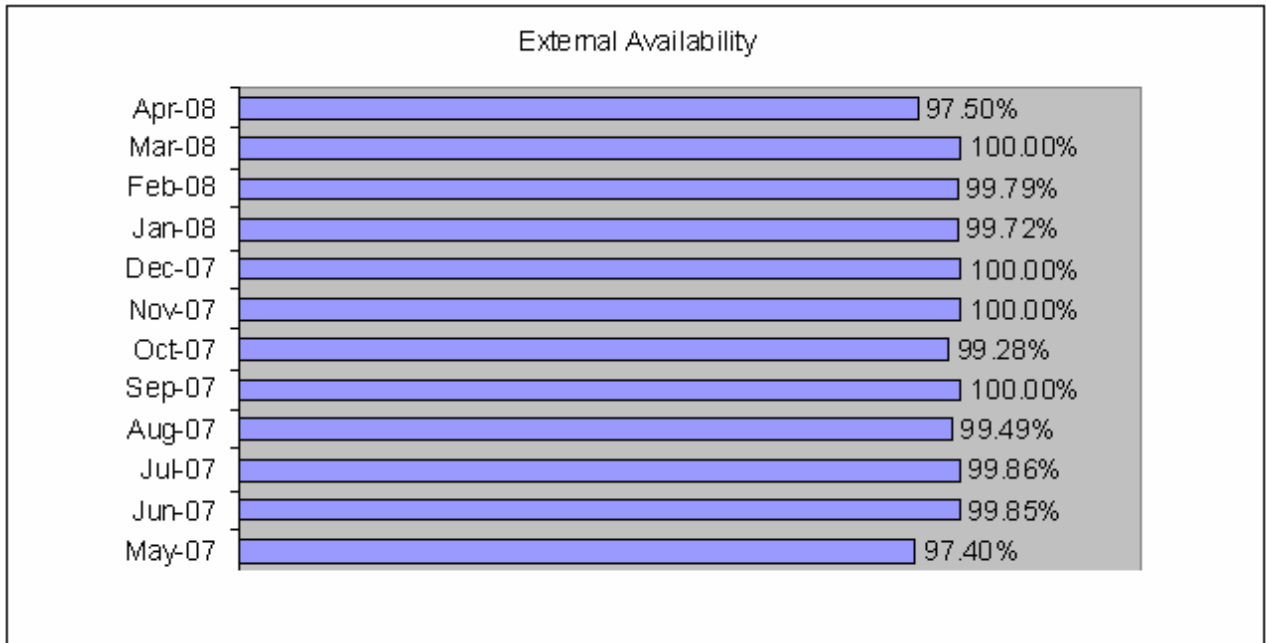
The chart above shows the percentage of all messages whose Initial Response time fell within the defined time periods. Initial Response time is defined as the time from when the message is received to the corresponding advice message leaves Customs.



### 1.3 Service Availability

#### 1.3.1 Service Available – External

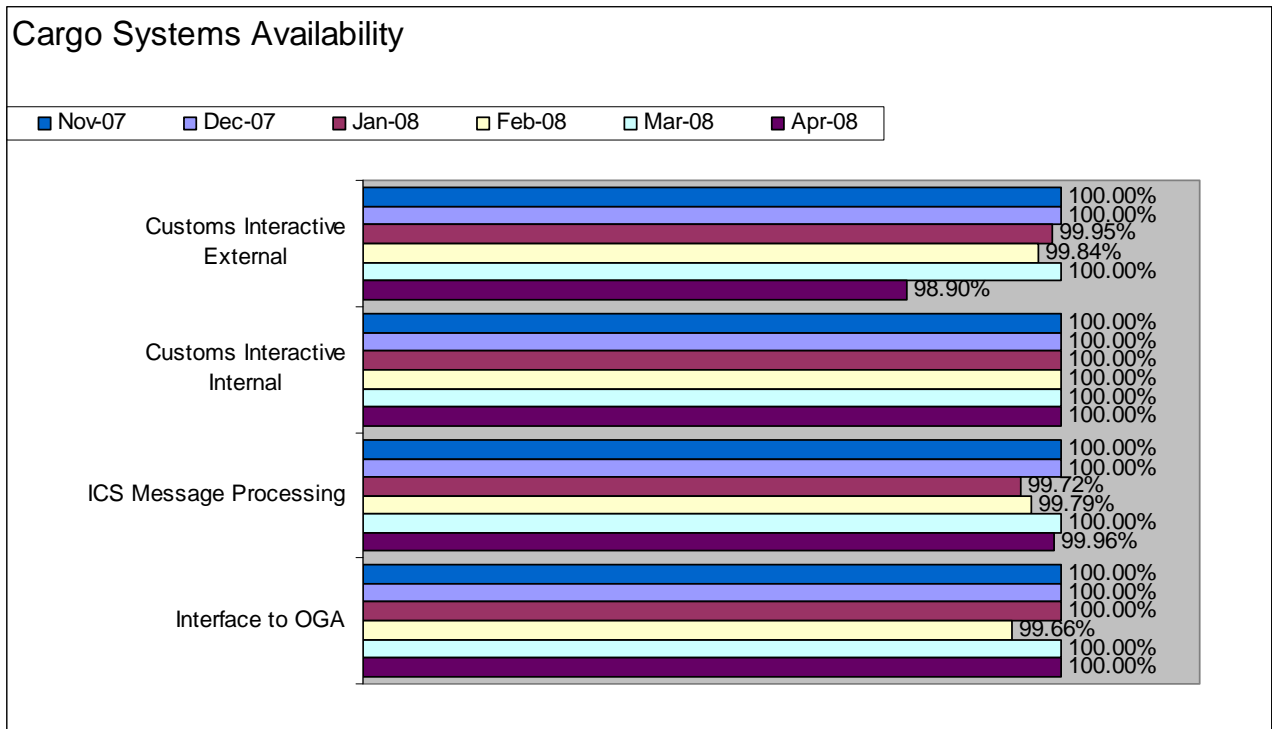
Average availability of services to Customs clients for the 12 months 1-May-07 to 30-Apr-08 was 99.45%.



**Note:**

Electronic cargo systems availability to Customs clients – Target is 99.7% (availability against a typical work day).

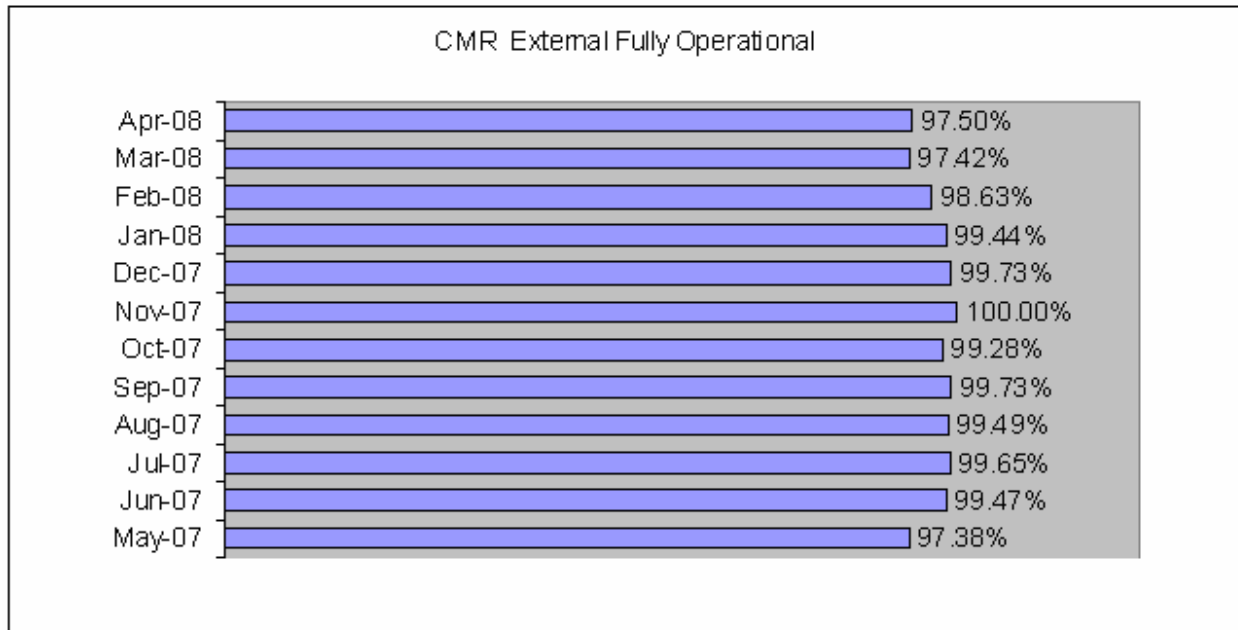
#### 1.3.2 Service Available - Key Systems



For details of Service Issues and Impacts refer to Section 3, page 17.

### 1.3.3 Service Fully Operational

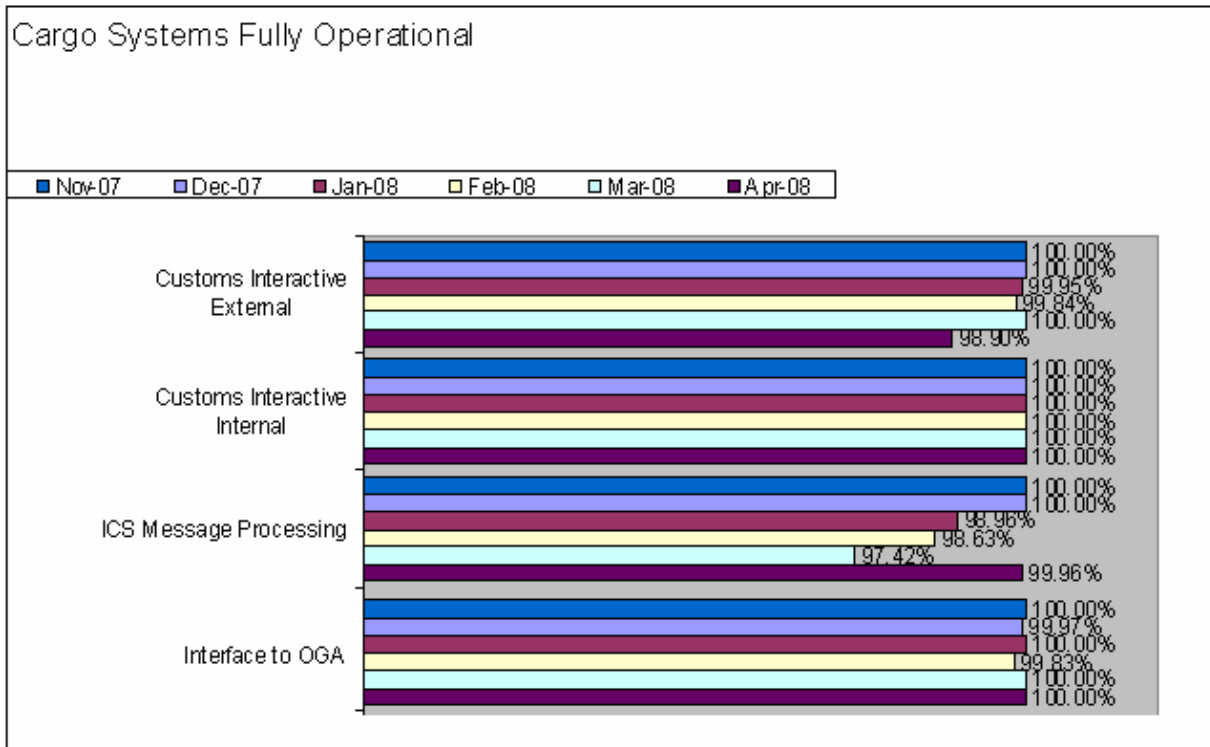
Average operational effectiveness of services for the 12 months 1-May-07 to 30-Apr-08 was 99.01%.



The chart above shows the percentage of time the electronic cargo systems were operating at expected performance, with no visible disruption or reduction in expected service for clients.

As an example, a slow down in processing of Customs Interactive or EDI messaging transactions due to a Customs network communications congestion would be treated as not operating at expected performance, even though message processing continued and the service was still available to clients.

### 1.3.4 Service Fully Operational - Key Systems



For details of Service Issues and Impacts refer to Section 3, page 17.

## 2 Monthly Detail (Apr 08)

### 2.1 System Activity

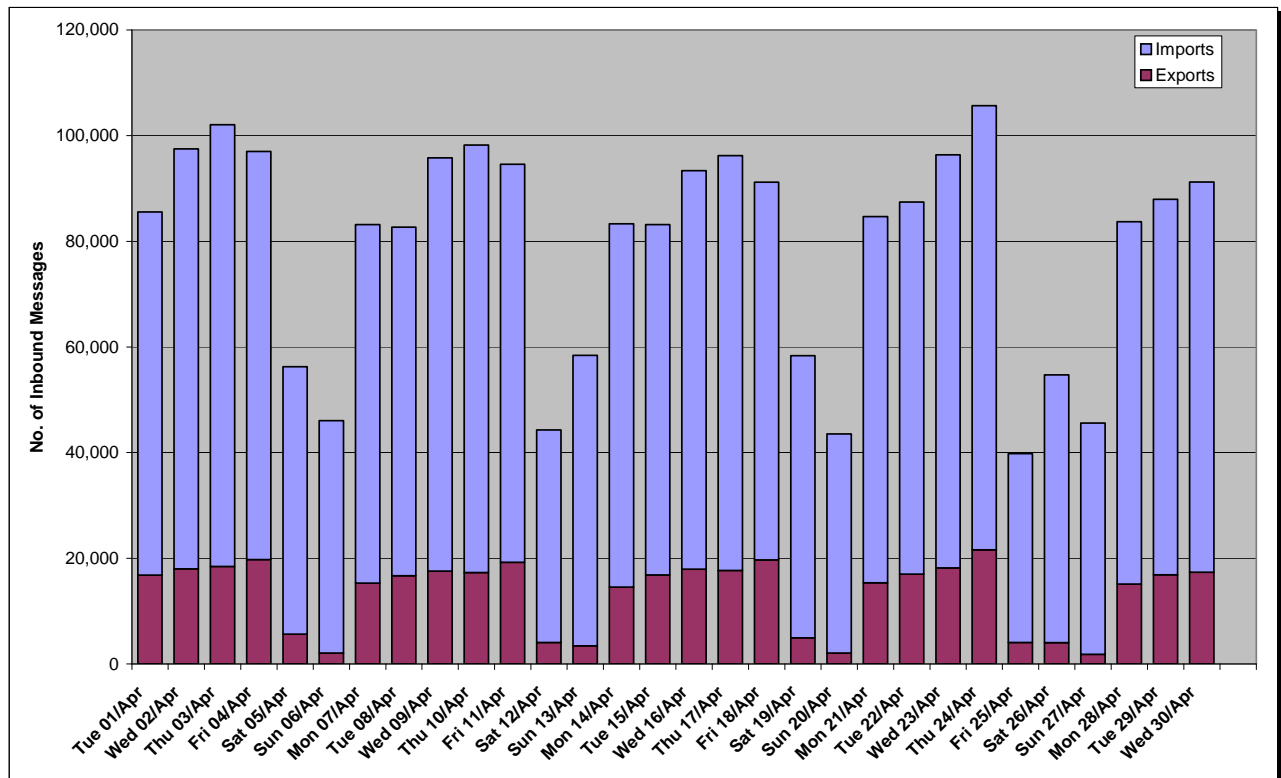
#### 2.1.1 Summary

Tue 01-Apr-08 to Wed 30-Apr-08		Total
<b>Exports</b>	Inbound Messages Received by ICS	399,618
	Outbound Messages Sent to Clients	505,268
<b>Imports</b>	Inbound Messages Received by ICS	1,967,980
	Outbound Messages Sent to Clients	6,723,948

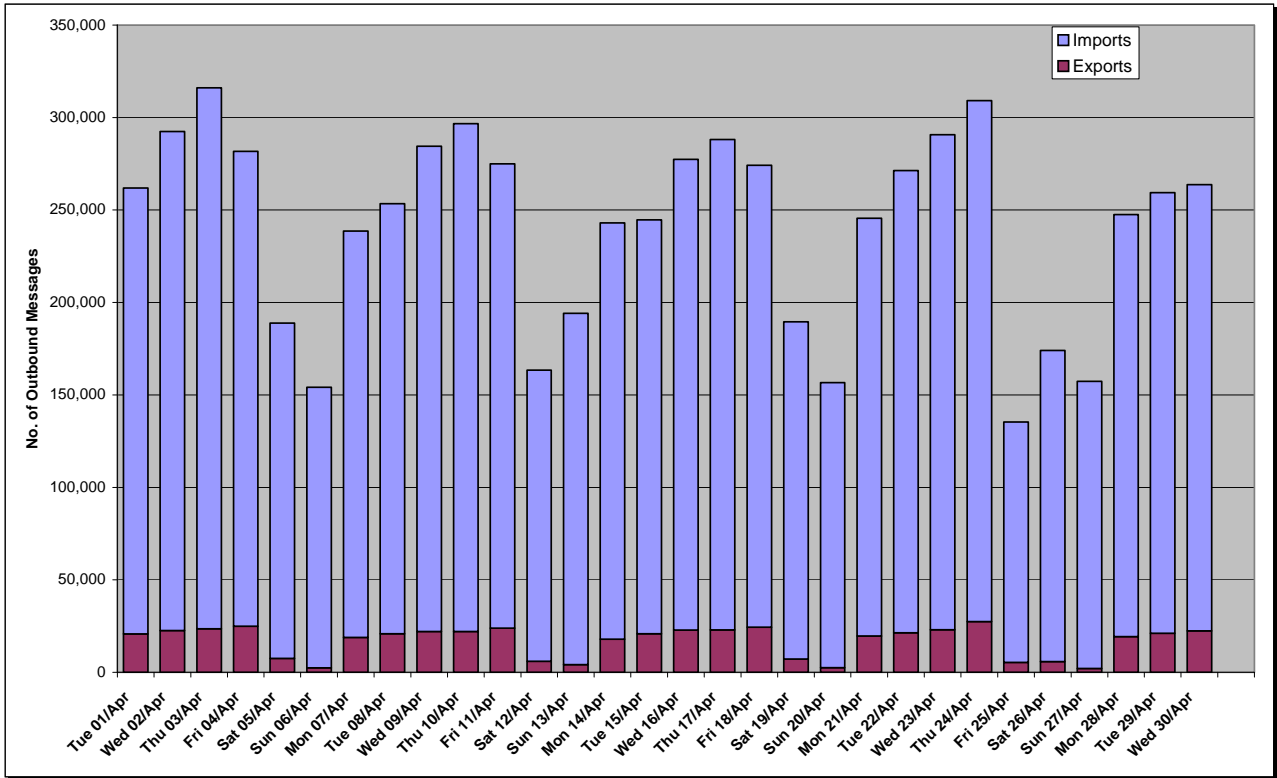
The table above shows activity based on the volume of messages sent by Industry to ICS (Inbound) or sent by ICS to Industry (Outbound), which are counts of messages from the ICS perspective. As such amendments, duplicates, requests for retransmission, etc are included. For example, an inbound Full Import Declaration, which was then amended twice during the reporting period, would appear as 3 Inbound messages.

Request for Status messages submitted by Customs as part of the Heartbeat Monitoring activity (approx. 20,000 messages) are included in the above figures, showing under Exports.

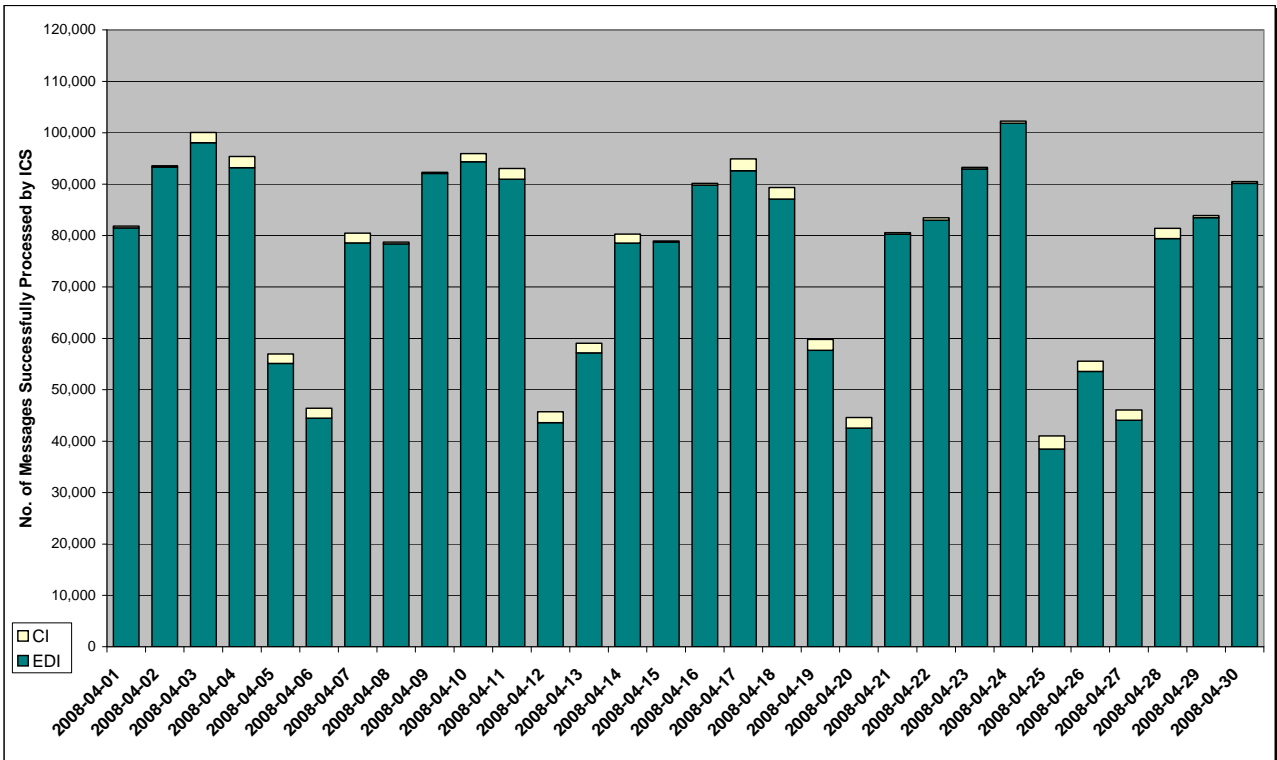
#### 2.1.2 Inbound Message Volume by Day (Apr 08)



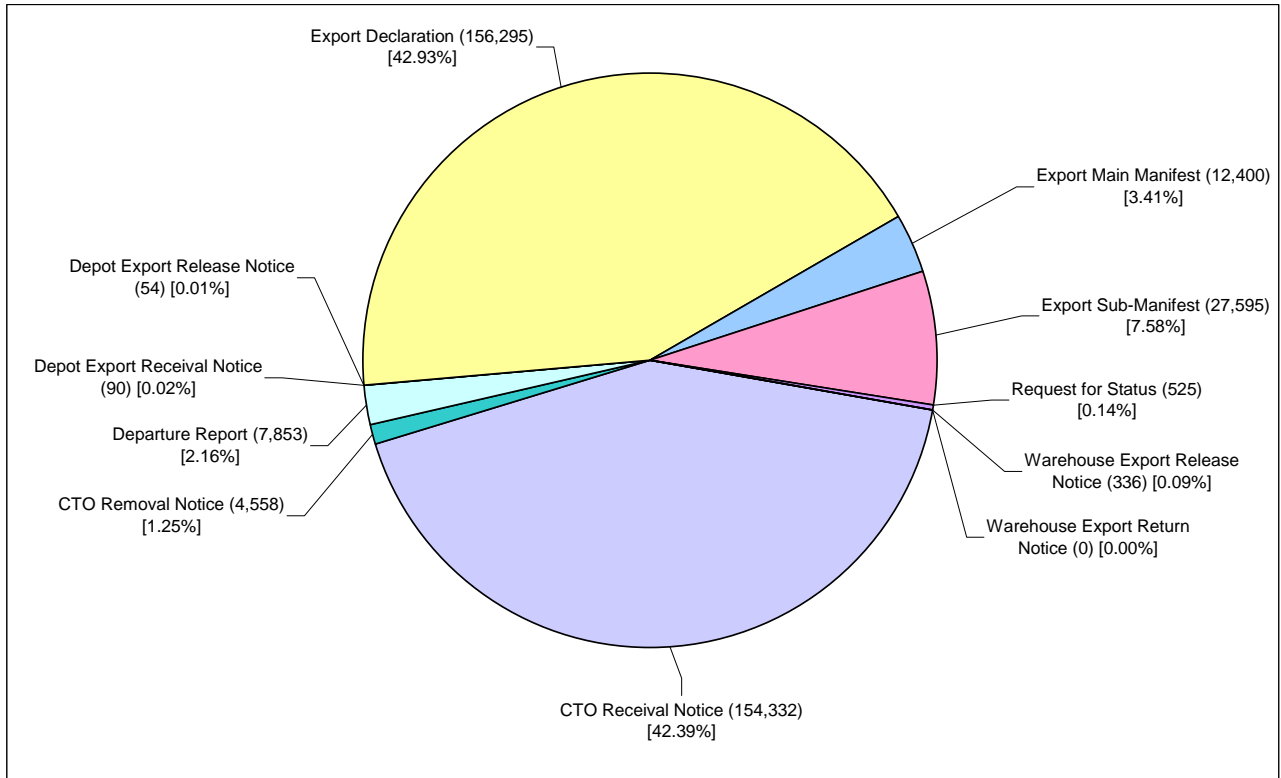
### 2.1.3 Outbound Message Volume by Day (Apr 08)



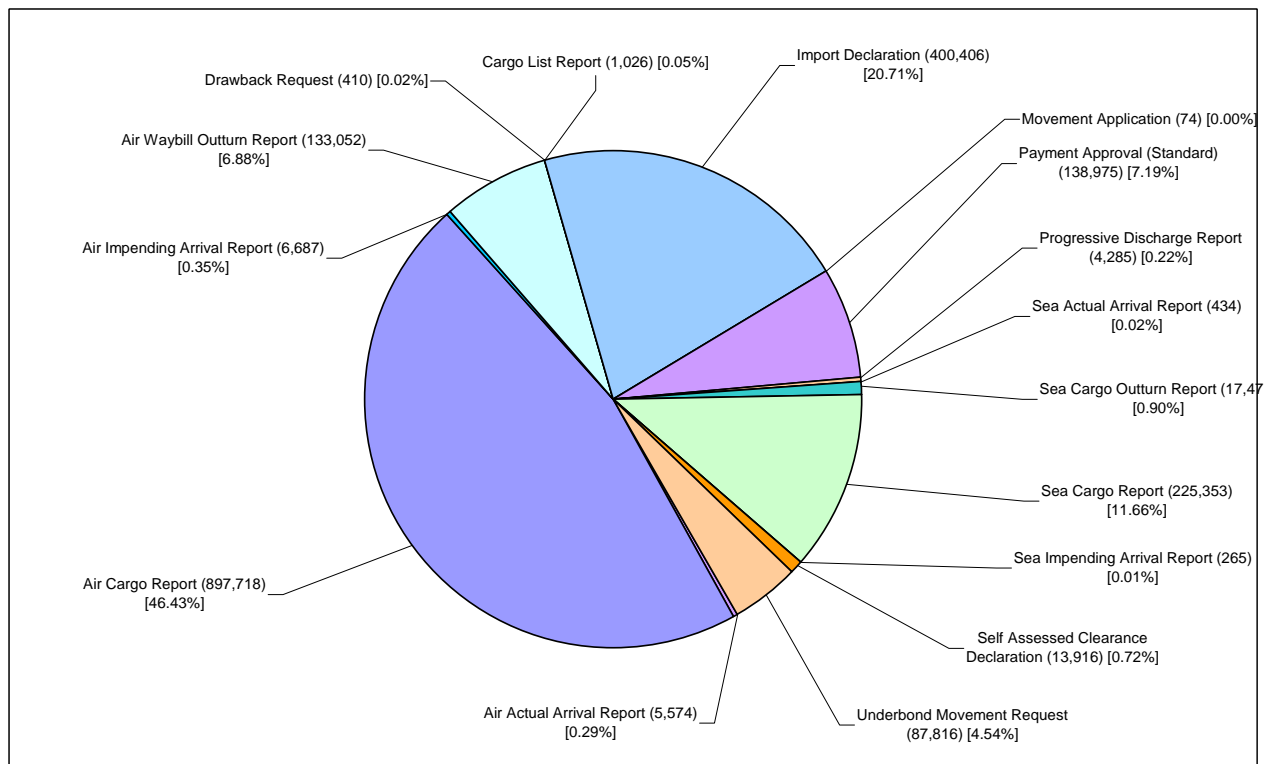
### 2.1.4 Production - Daily Successfully Processed ICS Messages (Apr 08)



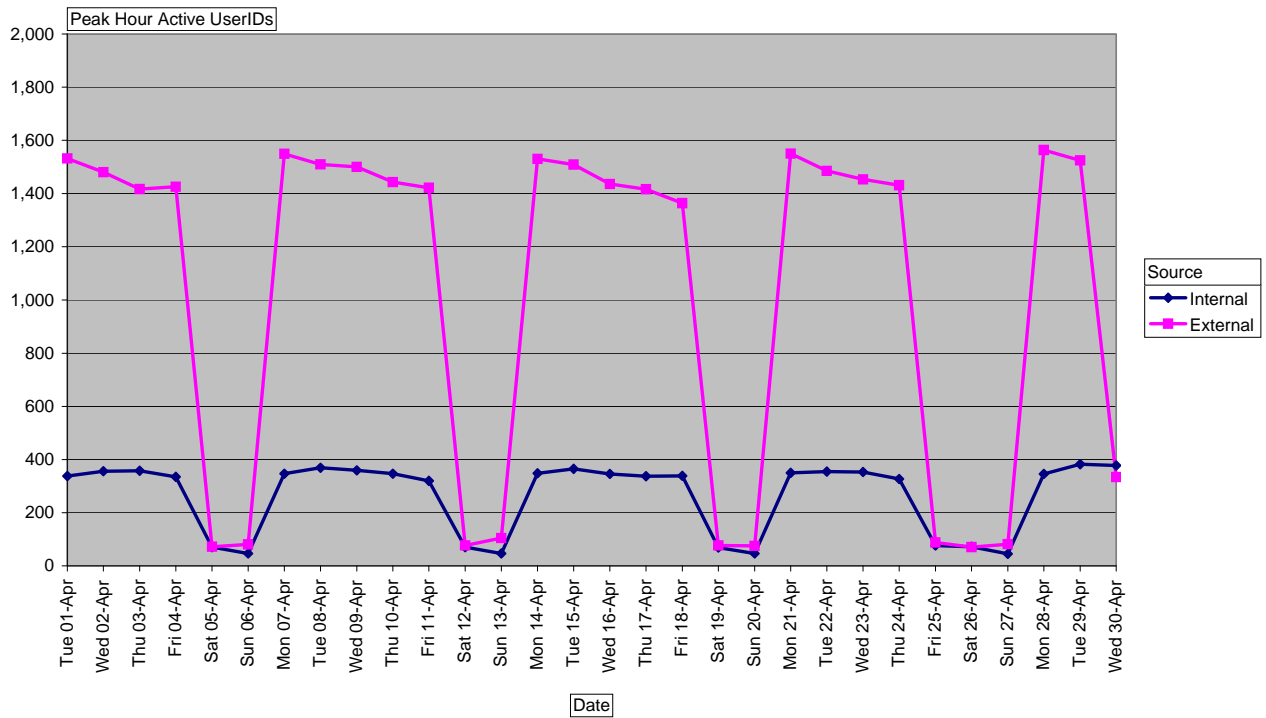
### 2.1.5 Exports Successfully Processed ICS Messages by Type (Apr 08)



### 2.1.6 Imports Successfully Processed ICS Messages by Type (Apr 08)

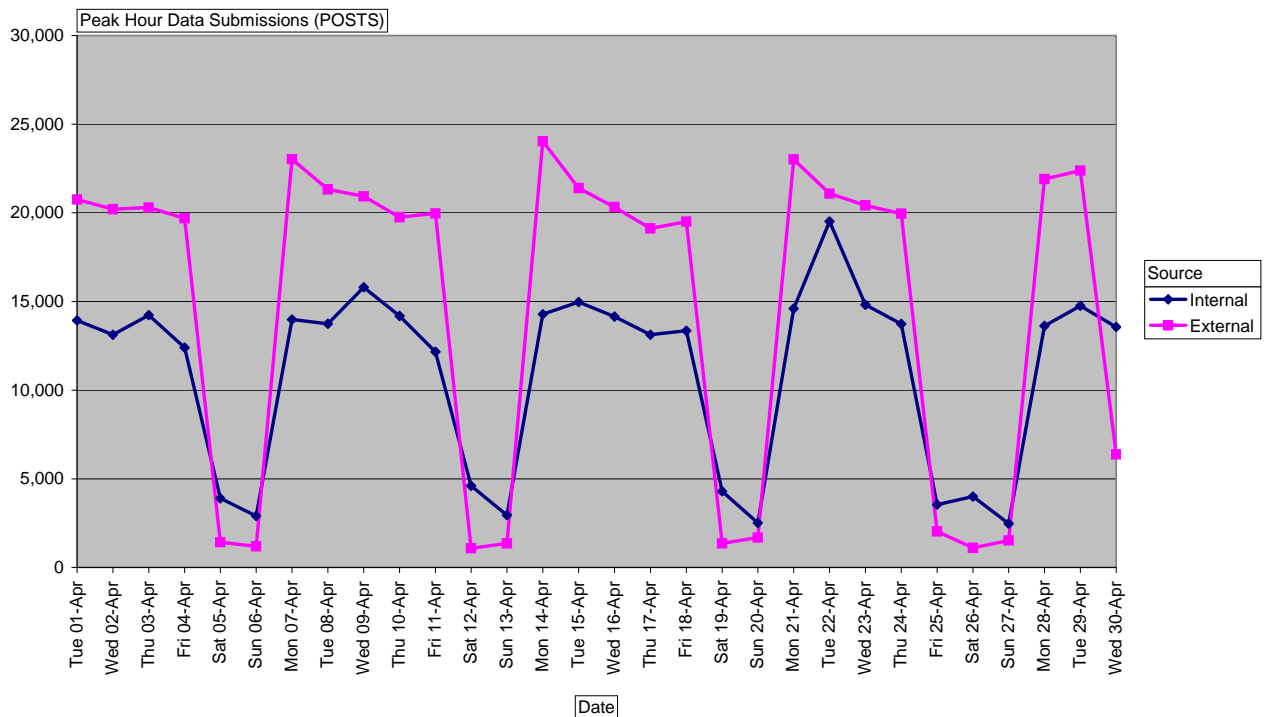


### 2.1.7 Customs Interactive Daily Peak Hour Active Users



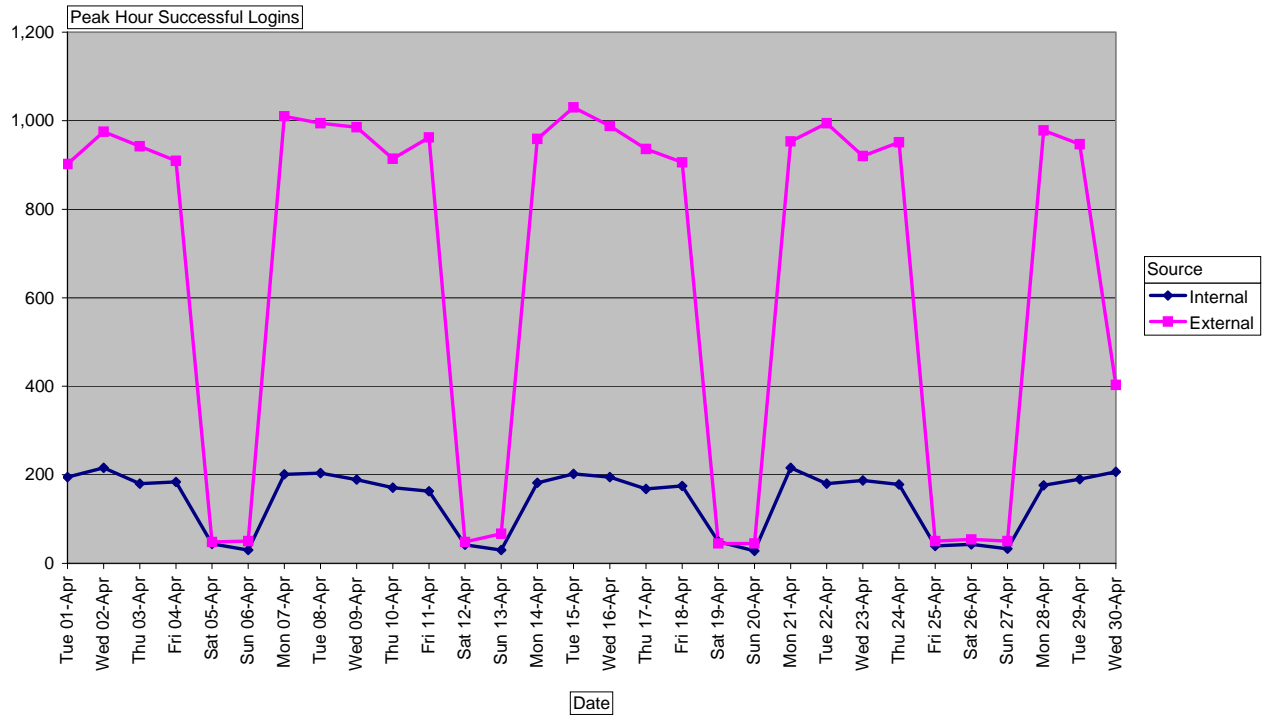
The chart above shows the number of UserIDs logged in and actively using CI on the Production Web Servers in the Peak Hour during a given day.

### 2.1.8 Customs Interactive Daily Peak Hour System Activity



The chart above shows the number of data submissions (Posts) in during the Peak Hour a given day and is indicative of the System Activity/Load. An example of "Data Submission" would be a user clicking the "Save" button on an ICS screen.

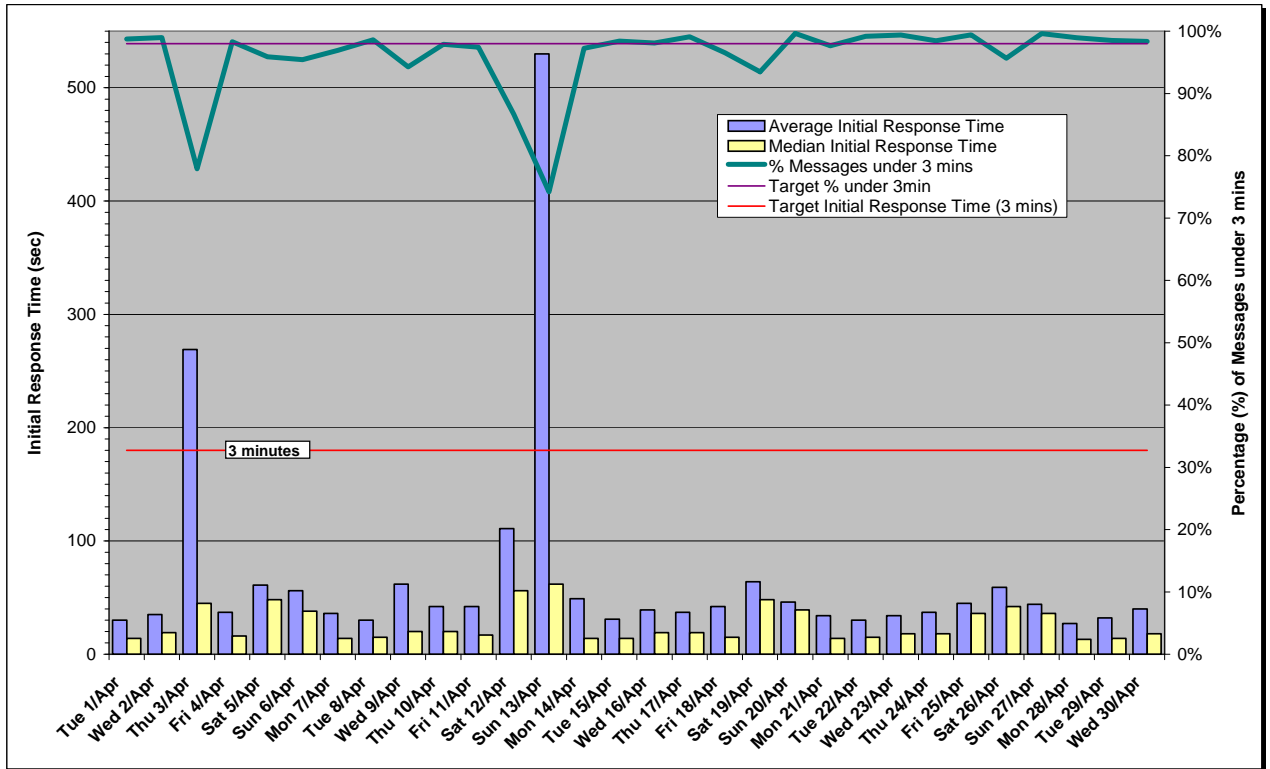
### 2.1.9 Customs Interactive Daily Peak Hour Successful Logins



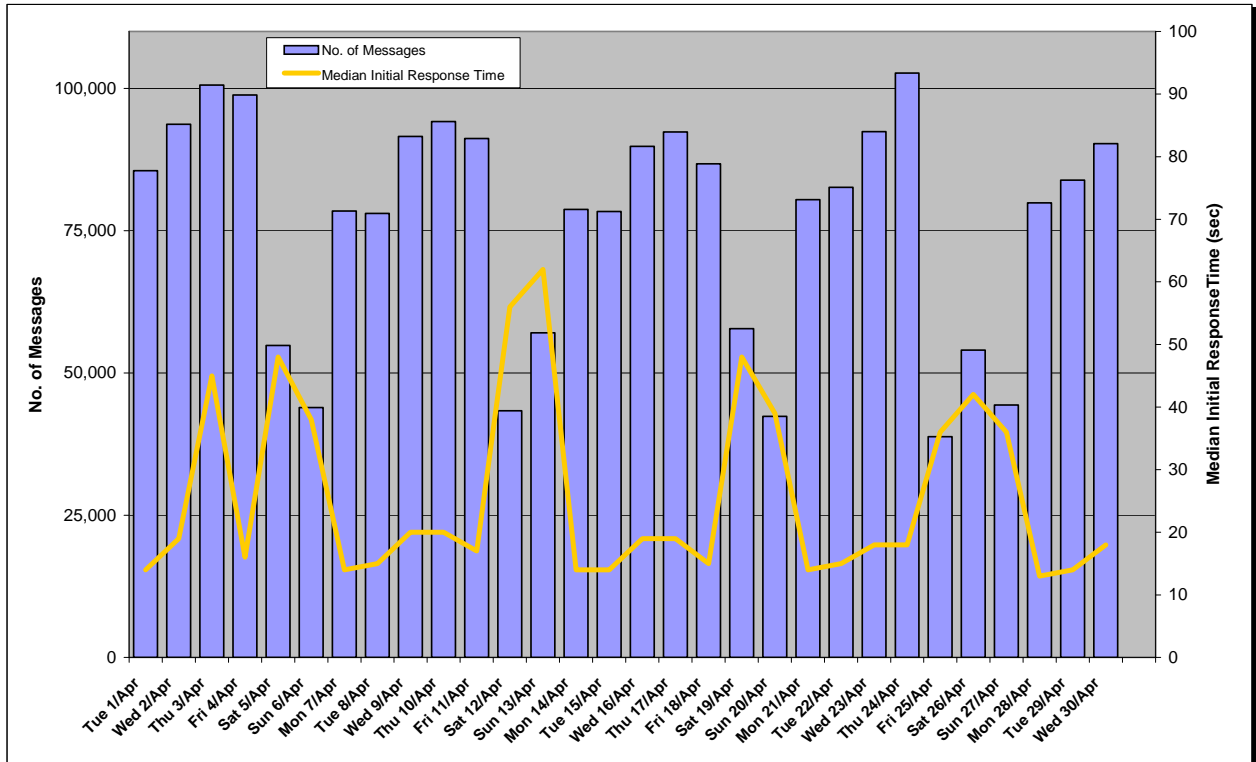
The chart above shows the Successful Logins to the Production web servers during the Peak Hour for a given day.

## 2.2 EDI Message Initial Response Times

### 2.2.1 Daily EDI Message Initial Response Time (Apr 08)



### 2.2.2 Daily EDI Message Initial Response Time and Message Volume (Apr 08)





## 3 Service Issues and Impacts

### 3.1 Outages

Date	Duration	Description
<b>April 2008</b>		
Wednesday 30-Apr-08	14 hours 15 mins	The Customs Interactive External system failed to come up after a scheduled change when it was restarted. External Users were unable to logon to the ICS. EDI and CI Internal users were unaffected.
Monday 14-Apr-08	16 mins	One of the three encrypt/decrypt servers were not processing messages correctly. EDI was stopped and the server was removed from the farm then EDI was re-enabled.
Friday 4-Apr-08	2 hours	A rack fan failure caused 50% of EDI not to be processed. Without sufficient cooling from the fan the switch in that rack overheated and traffic to two of the four mail relays was stopped.
<b>March 2008</b>		
None		
<b>February 2008</b>		
Monday 11-Feb-08	1 hour 25 mins	EDI messages were delayed for 85 minutes and CI External was unavailable for 30 minutes. This was due to two operators performing identical restart tasks simultaneously during a planned upgrade. Procedures have now been updated to avoid this reoccurring.
<b>January 2008</b>		
Thursday 24-Jan-08	80 minutes	EDI messages were delayed for 80 minutes due to a file system filling up. The file system received a series of exceptionally large files over a four day period as a result of a planned upgrade on Sunday 20-Jan-08.
Wednesday 2-Jan-08	41 minutes	The Customs Integrated Cargo System (ICS) experienced a database fault. This fault resulted in EDI messages not being successfully processed (inbound and outbound) for forty-one (41) minutes from 2:34pm. In addition CI External users were unable to logon to ICS for a period of fifteen (15) minutes from 2:34pm. Users already logged on to ICS were able to continue working and were unaffected. EDI Services were restored by 3.15pm.
<b>December 2007</b>		
None		
<b>November 2007</b>		
None		
<b>October 2007</b>		
Monday 15-Oct-07	3 hours 25 mins	EDI outbound message batching was not functioning immediately following normal scheduled maintenance. During problem rectification, all services (including Customs Interactive) became unavailable following a system restart at 5:30am. All services were fully restored by 6.25am.
Friday 12-Oct-07	1 hour 46 mins	EDI outbound message batching was not functioning from 5pm to 6pm. Industry partners using the service would not have received messages from Customs during this period. During service restoration, all messages sent or received between 6.08pm and 6.41pm were not successfully processed or recoverable.  Full EDI messaging service was restored by 6.46pm. Customs Interactive was unaffected during this time.
<b>September 2007</b>		
None		
<b>August 2007</b>		
Mon 27-Aug-07	3 hours 4 mins (excludes outage window from 1-3)	Slowdown of outbound EDI messages from Customs between midnight and 5am. EDI control messages from Customs were not being sent to Industry within the required timeframe resulting in Industry resending business transactions. A reconfiguration to mail relays re-established normal operations.
Wed 15-Aug-07	36 mins	System issues experienced in the early hours of the morning required an urgent restart of mainframe processing at 8:26am to avoid a larger system outage during peak processing times of the day. During the outage all EDI messages were queued for processing following the restart. Customs Interactive was unavailable during the period.
<b>July 2007</b>		
Thu 26-Jul-07	1 hour 2 mins	CCF EDI message processing was unavailable from 5:05am to 6:07 am due to an issue with message logging. Inbound messages received during this time were not queued and industry partners were requested to resend messages from within this period. Outbound messages queued during the outage were cleared by 7:36am using manual resend procedures.
<b>June 2007</b>		

Date	Duration	Description
Thu 28-Jun-07	40 mins	Customs Interactive for External clients was not accepting new logins due to a configuration issue. Users currently logged in were able to continue operations. A re-configuration resolved the issue.
Wed 6-Jun-07	23 mins	Customs Interactive for External clients was unavailable due to a connectivity issue. Re-configuration restored service to normal.
<b>May 2007</b>		
Sat 26-May-07	13 hours 45 mins	Customs Interactive for External clients was unavailable due to a service failing to restart following scheduled maintenance activity. EDI messaging and Customs Interactive for internal clients was unaffected.
Fri 25-May-07	3 hours 24 mins	EDI messaging, Customs Interactive for External and Internal clients was unavailable from 11:33am to 1:47pm due to successive failures in communications equipment units. All EDI messages queued during the outage were processed by 2:10pm.
Thu 24-May-07	1 hour 18 mins	EDI messaging and Customs Interactive for External clients was unavailable from 8:01pm to 9:21pm due to communications equipment failure. EDI messages queued during the outage were processed once services restored.
Wed 16-May-07	15 mins	Customs Interactive for External clients was unavailable due failure of a communications equipment unit.

### 3.2 Not Performing as Expected

Date	Duration	Description
<b>April 2008</b>		
None		
<b>March 2008</b>		
Wed 26-Mar-08	10 hours 15 mins	ICS EDI processing slowdown due to issues with incorrectly chained underbonds.
Sat 22-Mar-08	8 hours 30 mins	Delays due to large numbers of trigger failures
<b>February 2008</b>		
Tue 26 Feb-08 – Wed 27 Feb-08	2 days	The exchange rate upload and the EDI Exchange rates reference files publication delayed due to problems in the file transfer process. Manual entry of exchange rates were undertaken during this period.
Tue 26 Feb-08	1 hour	Looping ICS transaction caused status checks in both CI and EDI to be unavailable. This resulted in a delay to these messages up to 1 hour during this period. Other transaction types were not affected.
Tue 19-Feb-08	37 mins	Long running ICS underbond transactions caused delays to other messages. Messages were delayed for up to 37 minutes during this period.
Fri 15-Feb-08	6 hours 15 mins	An industry transaction received on Friday evening, 15 February, went into a loop and impacted on other transactions within the ICS. Delays in message processing were experienced until the transaction was stopped. Messages were then processed as per normal and all backlogs were cleared by 2:15am Saturday.
<b>January 2008</b>		
None		
<b>December 2007</b>		
None		
<b>November 2007</b>		
None		
<b>October 2007</b>		
Tue 23-Oct-07	30 mins	Certain reports data was not updated from 3.50pm due to an issue with database log processing for the reporting environment. Service was restored and the backlog of data processed during the subsequent working day.
<b>September 2007</b>		
Mon 24-Sep-07	1 hour 35 mins	Reduced responsiveness of ICS from 3am to 4:35am due to database change difficulties following ICS 8.4.08 Production Release.
Wed 19-Sep-07	20 mins	System issues affecting part of EDI message processing caused delays of up to 20 minutes for approximately 50% of incoming EDI messages.
<b>August 2007</b>		
None		
<b>July 2007</b>		

Date	Duration	Description
None		
<b>June 2007</b>		
Wed 27-Jun-07	20 mins	System issues affecting part of EDI message processing caused delays of up to 20 minutes for approximately 33% of incoming EDI messages.
Fri 5-Jun-07	46 mins	Outbound EDI messages were delayed for up to 46 minutes due to a fault in an Internet Service Provider network.
<b>May 2007</b>		
Wed 16-May-07	1 hour 53 mins	Intermittent EDI message delays due to failure of a communications component.

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End of document

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