



Real-time Passenger Accountability Systems

CT@G® Real-time Passenger Accountability Systems

The 'Alaska Mass Rescue' exercise experience - Ketchikan, AK, April 2009

- ➔ USCG, Ketchikan Fire Department, Holland America Line and US Customs and Border Protection sponsored a major exercise to simulate the evacuation of 1800 passengers and 700 crew from ship to shore.
- ➔ One of the primary objectives of the exercise was 100% accountability for passengers and crew throughout the exercise.



CT@G® Real-time Passenger Accountability Systems

The 'Alaska Mass Rescue' exercise experience - Ketchikan, AK, April 2009

CT@G achieved the following results:

- ➔ 100% accountability during the onboard muster to boats
- ➔ 1781 passengers and crew accounted to boats and rafts in just under 2 hours using only 2 PDAs - in reality, this would have been achieved in approx. 20 mins. with an appropriate number of PDAs
- ➔ The count for each lifeboat, holding 150 passengers, was achieved in 7 minutes.



CT@G® Real-time Passenger Accountability Systems

The 'Alaska Mass Rescue' exercise experience - Ketchikan, AK, April 2009

Results [contd.]:

- ➔ Ashore, 478 persons were accounted for, even in the absence of a wireless network
- ➔ When network capability was restored, this data was automatically uploaded to the server from the PDAs
- ➔ This allowed the 'beachmaster' and all interested parties access to accurate real-time data on the whereabouts of landed passengers and crew.



CT@G® Real-time Passenger Accountability Systems

Why do it ?



MAIB Report into the fire on the “STAR PRINCESS”

“Whatever method is used, the mustering of several thousand passengers, particularly by name and stateroom number, will inevitably take a long time. Notwithstanding difficulties such as names which are difficult to pronounce, language, identical surnames, and passengers not hearing, the calling of 500 names alone will probably take well over 1 hour. ...”



CT@G® Real-time Passenger Accountability Systems

Why do it ?



Loss of the “Sea Diamond”, April 2007

The unaccounted loss of two passengers during the evacuation from the “Sea Diamond” demonstrates the inability of manual systems to provide the level of information required to account for and to protect passengers in the event of a major emergency.



CT@G® Real-time Passenger Accountability Systems

Why do it ?



MAIB Report into the fire on the “STAR PRINCESS”

“... Until advances in technology are forthcoming, the completion of a full roll call on board large passenger cruise ships will be difficult to achieve within a reasonable timescale. ...”

CT@G® Real-time Passenger Accountability Systems

“Until advances in technology are forthcoming, the completion of a full roll call on board large passenger cruise ships will be difficult to achieve within a reasonable timescale.”

Can you do it ? Yes, you can !

Technology has advanced - CT@G®'s passenger accountability system provides an accurate full roll call for all passenger ships - large or small - in real time.

CT@G® Real-time Passenger Accountability Systems

How does CT@G® do it ?

By utilising asset tracking capabilities such as barcodes and RFID, the 'CT@G®' range of innovative safety products couple the use of modern technology with established safety processes and procedures, to provide a rapid, accurate, CT@G Real-time indication of people muster.

Muster and Boat Station personnel scan passengers and crew members as they arrive at each Muster Station, lifeboat or liferaft.

Utilising WiFi links to the ship's network, accurate CT@G® Real-time reports are readily available to Command and Control personnel. CT@G® is web-based so that this information can be available ashore to operators, SAR authorities and others.

CT@G® Real-time Passenger Accountability Systems

What are the benefits ?

- ➔ ***Accurate, CT@G® Real-time reports of muster progress***
- ➔ ***Verification of attendance at pre-departure statutory muster***
- ➔ ***Post-incident traceability***

As well as ...

CT@G® Real-time Passenger Accountability Systems

Additional Benefits

- ➔ ***“CT@G® Real-time picture” of events enabling:***
 - ➔ **Confidence**
 - ➔ **Optimum use of resources**
 - ➔ **Early indication of potential problem areas**
 - ➔ **Effective monitoring of children, families and passengers with special needs**
 - ➔ **Automatic situational awareness for shipowners and SAR authorities**

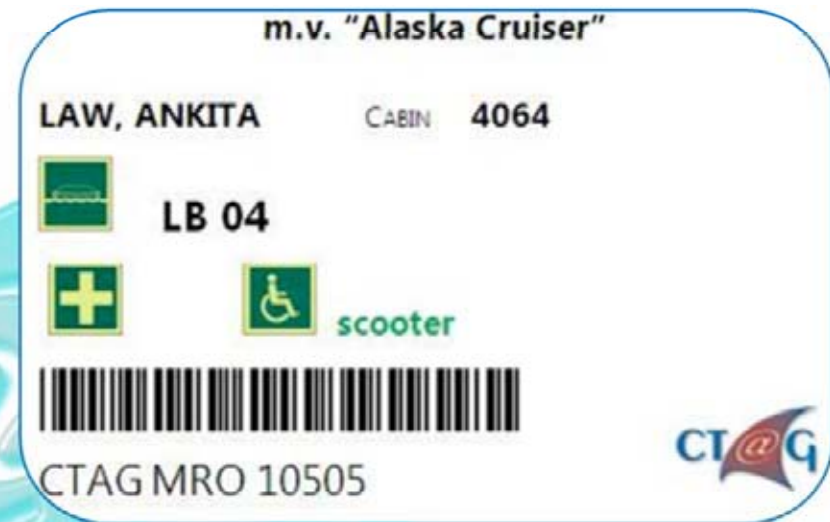
CT@G® Real-time Passenger Accountability Systems

What is the ultimate benefit ?

➔ ***In the event of Abandon Ship, ALL data comes ashore with the crew in the survival craft for effective and accurate accountability of survivors when landed !***



CT@G® Real-time Passenger Accountability Systems



Innovating Safety and Security

CT@G® Real-time Passenger Accountability Systems -

Identification methodology

All onboard personnel may be identified from barcodes or RFID tags integral to their cruise cards, ID cards or lifejackets by CT@G's software running on state-of-the-art WiFi and scanner-equipped Portable Data Assistants (PDAs) . The scanned information from the PDA is transmitted to the host PC on the vessel.

By passing ID information between CT@G's tracking software and the on-board hotel and crew management system, CT@G Real-time passenger and crew accountability can be achieved during passenger and crew muster.

CT@G® Real-time Passenger Accountability Systems - Hardware

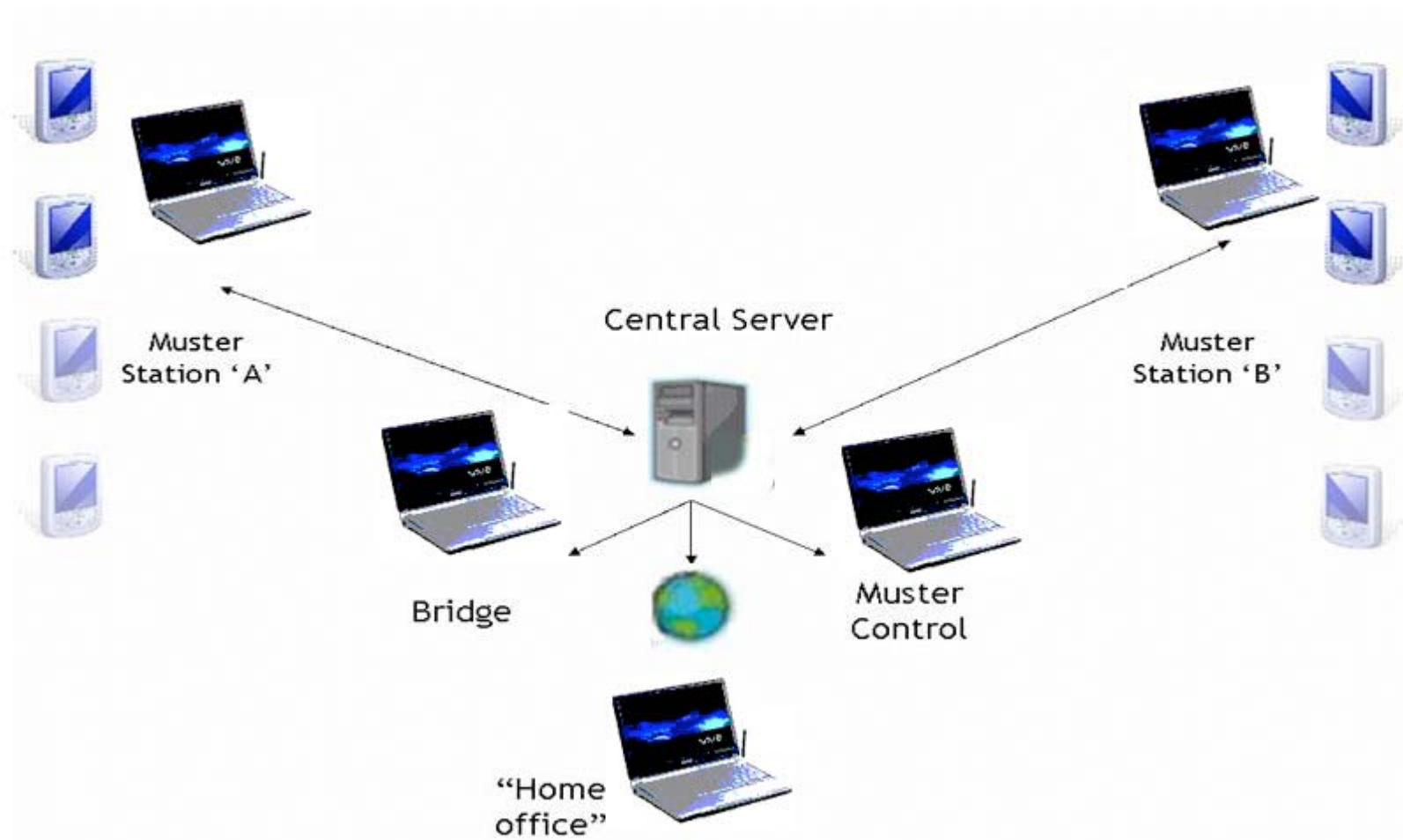
Bar code and/or RFID scanners are fitted to hand-held PDAs programmed with custom asset management software.

One or more readers may be in use at each Muster and Boat or Raft Station.

Collected data is transmitted to other PDAs by Wi-Fi network connection to the ship's data networks. It is available on-screen at local computers at the Muster Stations and at other central locations to give a CT@G Real-time passenger and crew count.

Information and instructions may also be transmitted from the Emergency Control Centre to the PDAs for Muster and Boat Station leaders.

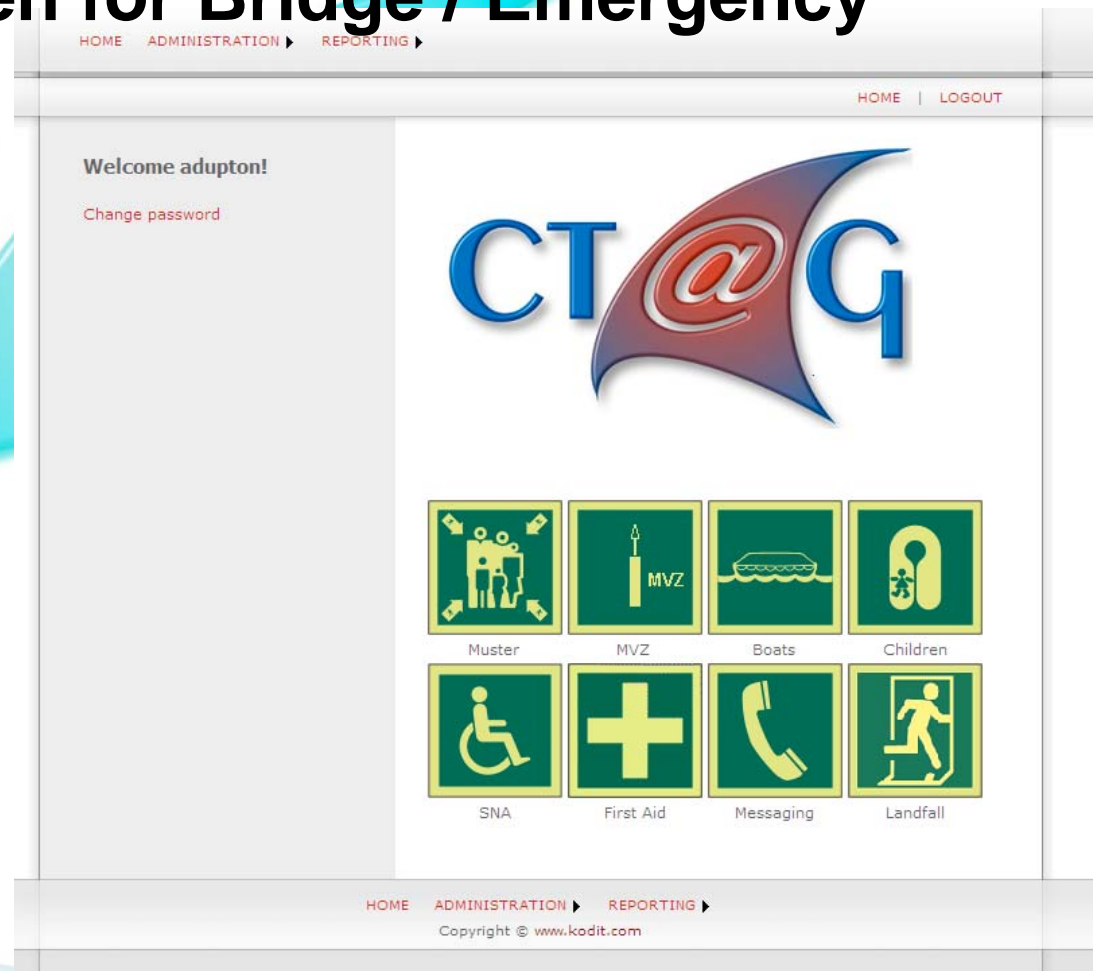
CT@G® Real-time Passenger Accountability Systems - System topology



CT@G® Real-time Passenger Accountability Systems - Software overview

Main control screen for Bridge / Emergency Control Centre

CT



Innovating Safety and Security

CT@G® Real-time Passenger Accountability Systems - Software overview

- Passenger ID update
- Muster process and progress
- Abandon Ship process and progress
- Ancillary functionality

CT@G® Real-time Passenger Accountability Systems -

Software: PDA overview

INITIALIZE PASSENGER AND CREW LISTS

➡ The Pax / Crew safety list is updated into each Pocket PC [PDA] using the ship's wireless network so that the system always contains the latest safety list.

➡ In the event of network failure, the PDA reverts to 'batch process', storing the data locally until the network is restored - when data is exchanged automatically.



CT@G® Real-time Passenger Accountability Systems - Software: PDA overview

SELECTION OF MUSTER TYPE

➔ For ease of use, the user has the option to choose between “Controlled Muster” - e.g., at passenger embarkation drills - or “Emergency Muster” - “the real thing”.

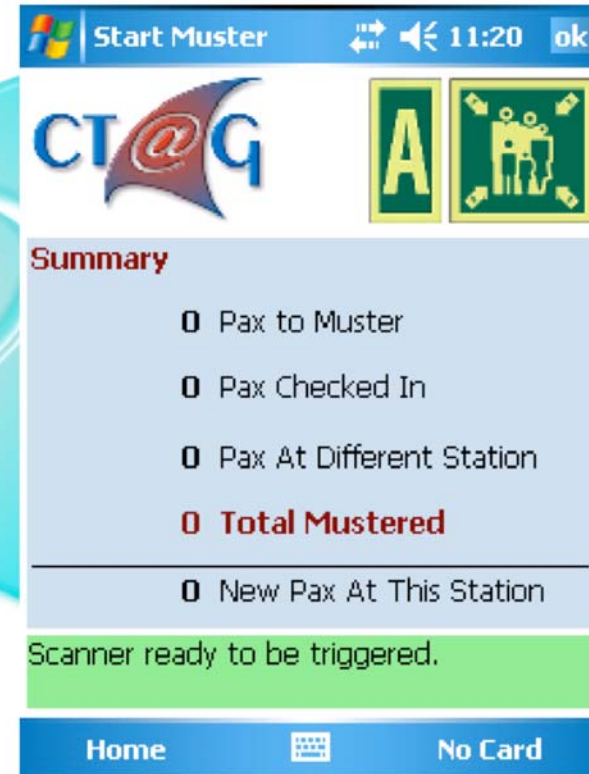


CT@G® Real-time Passenger Accountability Systems - Software: PDA overview

START OF MUSTER

➡ At the beginning of the muster, this screen will appear on all PDAs.

➡ Crew members can now start to scan pax arriving at Muster Stations.



CT@G® Real-time Passenger Accountability Systems -

Software: PDA overview

PASSENGER IDENTIFICATION AND RECORDING

➔ Under “controlled” conditions, utilising the passenger’s cruise card, their details are automatically saved into the system and their id is confirmed at the bottom of the screen.

➔ Within seconds, the next passenger can be scanned and recorded.



CT@G® Real-time Passenger Accountability Systems -

Software: PDA overview

PASSENGERS WITHOUT ID

- Pax arrives with no cruise card
- Enter passenger's name or stateroom number
- Select "Muster"
- Passenger is automatically mustered



The screenshot displays the CT@G PDA software interface. At the top, a status bar shows the CT@G logo, a signal strength indicator, a battery level icon, the time 11:16, and an 'ok' button. Below the status bar, the main screen features the CT@G logo on the left and a green square icon with a yellow keyhole symbol on the right. The central area is titled 'No Card' in red text. Below this title, a prompt reads 'Enter passenger's name or cabin no ...'. A text input field contains the name 'meredith', followed by a red button with a right-pointing arrow. Below the input field, the system displays the entered information: 'Name: Meredith David' and 'Status: Not yet accounted for'. The word 'Muster' is highlighted in blue and underlined. At the bottom of the screen, there is a blue bar with the word 'Home' and a small icon.

CT@G® Real-time Passenger Accountability Systems -

Software: PDA overview

CHILDREN AND INFANTS

- ➔ With children, the primary ID can be either cruise card or other ID tag
- ➔ When a child is mustered, crew members will record if the child is accompanied
- ➔ With appropriate links in the passenger manifest, CT@G® will allow for **family check-in** from a single swipe of a cruise card

The screenshot shows the 'PaxDetails' window on a PDA. The title bar includes the Windows logo, the text 'PaxDetails', and system icons for network, volume, and time (11:08). The CT@G logo is prominently displayed. The form contains the following fields:

| | |
|------------|--------------------------------|
| Pax No | 314 |
| LifeJacket | DEP049 |
| Cabin | 7001 |
| Name | BOISSELLE HELEN |
| Pax Code | Child F |
| Station | A |
| Boat/Raft | 2 |
| Status | Adult present Unaccompanied |

At the bottom, there are two buttons: 'Quit' and 'Muster'.



CT@G® Real-time Passenger Accountability Systems -

Software: PDA overview

PASSENGERS WITH SPECIAL NEEDS

➔ Appropriate data fields have been incorporated to ensure that these passengers are identified on arrival at a Muster Station.

➔ For pax with special needs, a separate drop-down list will appear for crew members to select the appropriate status.

PaxDetails 12:38

CT@G A

Pax No 102

LifeJacket 4036A

Cabin 4036

Name LOVENBERG MARJORI

Pax Code Aids & carer present

Station Aids but unacc

Boat/Raft Carer present no aids

Status Unacc, no aids

Save Cancel

Quit Muster



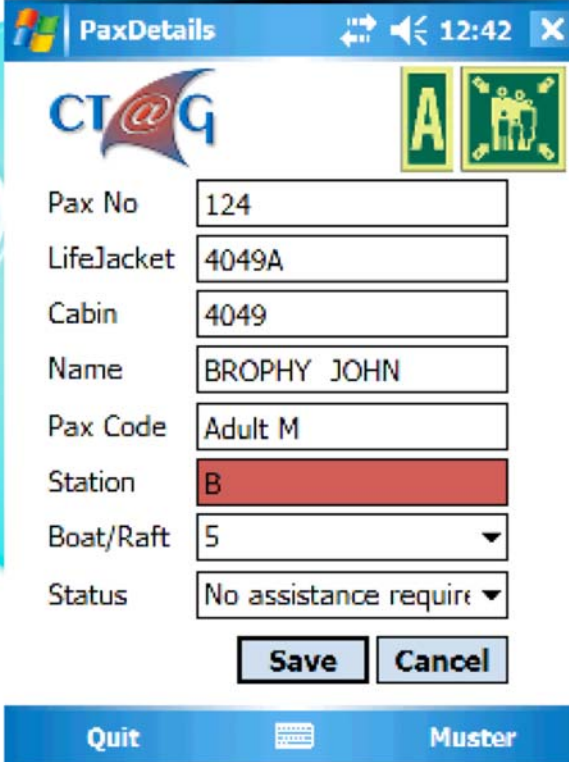
CT@G® Real-time Passenger Accountability Systems -

Software: PDA overview

“WRONG” MUSTER STATION

➡ In the event that a pax arrives at the “wrong” Muster Station, their allocated Muster Station is highlighted on screen.

➡ The “new” Muster Station is automatically registered on the PDA and the passenger is shown to be at the “new” Muster Station on all records.



| | |
|------------|------------------------|
| Pax No | 124 |
| LifeJacket | 4049A |
| Cabin | 4049 |
| Name | BROPHY JOHN |
| Pax Code | Adult M |
| Station | B |
| Boat/Raft | 5 |
| Status | No assistance required |

Save **Cancel**

Quit **Muster**



CT@G® Real-time Passenger Accountability Systems -

Software: PDA overview

MUSTER PROGRESS UPDATED

➡ As each pax is checked-in, the current status of the muster is automatically updated on the PDA



CT@G® Real-time Passenger Accountability Systems -

Software: PDA overview

ABANDON SHIP PROGRESS

-

‘GO TO BOATS’ function

➡ When moving pax or crew from Muster Stations to boats or rafts, select the boat and scan the passenger's ID once again



Go To Boats 09:50

CT@G

Summary

Boat No: 1

Capacity: 60

Spaces Rem.: 60

Quit Home



CT@G® Real-time Passenger Accountability Systems -

Software: PDA overview

ABANDON SHIP PROGRESS

-

LIFEBOAT STATION
REPORTS

➡ Passengers are recorded on screen and into a boat manifest.



Go To Boats 11:21

CT@G

Summary

Boat No: 1

Capacity: 60

Spaces Rem.: 57

LOVENBERG MARJORIE - saved

Scanner ready to be triggered.

Quit Home



CT@G® Real-time Passenger Accountability Systems - Software: PDA overview

ABANDON SHIP PROGRESS -

'LANDFALL' REPORTING

➡ As passengers and crew are landed ashore, CT@G® facilitates tracking them to reception centres, hospitals, airports etc.

Landfall



Current Date: 28/04/2009 03:56:35

Last Updated: 28/04/2009 03:56:34

Name

| Cabin Number | Name | Status | Muster Station | Muster Date | Boat Number | Boat Date | Destination | Comments |
|--------------|---------------|--------|----------------|-------------|-------------|-----------|---------------------|----------|
| 4035 | Dunn Arturo | | | | | | Home | |
| 7005 | Dunn Anna | | | | | | Secondary Reception | |
| 6003 | Dunn Aerianna | | | | | | Primary Reception | |
| 7126 | Dunn Danica | | | | | | Hospital | |



CT@G® Real-time Passenger Accountability Systems -

Software: additional functionality

ADDITIONAL FUNCTIONALITY

- SEARCH CAPABILITY

➡ Crew members at Muster Stations can utilise CT@G® to search for other family members and friends.



CT@G® Real-time Passenger Accountability Systems -

Software: additional functionality

SEARCH FUNCTION: FIND MISSING PERSONS - CHILDREN OR FRIENDS

→ Children or shipmates who are unaccounted for are highlighted in **red**:

→ those who have already been accounted for are shown in **green**.



The screenshot shows a software window titled "Start Muster" with a clock showing 11:10. The CT@G logo is in the top left, and a green icon with a yellow keyhole is in the top right. Below the logo is a section titled "Find My Shipmates" with a text input field containing "du" and a red search button. Below the input field, there are two entries:

| | |
|---------|--|
| Name: | DUROCHER AMY |
| Status: | Not yet accounted for |
| Name: | DUROCHER LUCA |
| Status: | Mustered at Station A (11/09/07 11:09:18) |

At the bottom, there are two tabs labeled "1" and "2", and a blue bar with "Quit" and "Home" buttons.



CT@G® Real-time Passenger Accountability Systems - Software: additional functionality

FIRST AID / TRIAGE REPORTING

➔CT@G® allows for triage reporting of casualties to the Emergency Control Centre.

➔Additionally, details of injuries may be included in the information sent to the ECC.



The screenshot shows the CT@G software interface. At the top is a blue header bar with the Windows logo, 'CT@G', and system icons (speech bubble, network, volume, clock at 6:28, and 'ok'). Below the header, the 'CT@G' logo is on the left, and 'Station LB 06' is on the right next to a green square icon with a white cross. The main section is titled 'First Aid' in red. It contains a text input field with 'bailey' and a red arrow button. Below this, a red box displays 'Name: Babiak Bailey' and 'Status: Not yet accounted for'. Underneath, 'Medical Status:' is followed by a dropdown menu showing 'Immediate (life threatening injuries)' and a blue 'Update' link. Below the dropdown is another dropdown menu showing 'Unconscious / Not breathing / Bleeding'. At the bottom of the form is a row of seven numbered tabs (1-7) with left and right arrow buttons. Below the tabs is a blue bar labeled 'Messages' with a keyboard icon.



CT@G® Real-time Passenger Accountability Systems -

Software: additional functionality

MESSAGING FUNCTION

→ To reduce voice communications, CT@G® has incorporated a messaging function so that messages may be sent from the Emergency Control Centre to the PDAs and vice-versa.

Messaging



Transcript

ISSSERVER1 (04:07:00): Welcome to CT@G



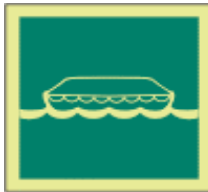
CT@G® Real-time Passenger Accountability Systems - Real-time Reporting capabilities



Muster Stations



Main Vertical Zones



Boat Stations

CT@G® Real-time Passenger Accountability Systems - Real-time Reporting capabilities

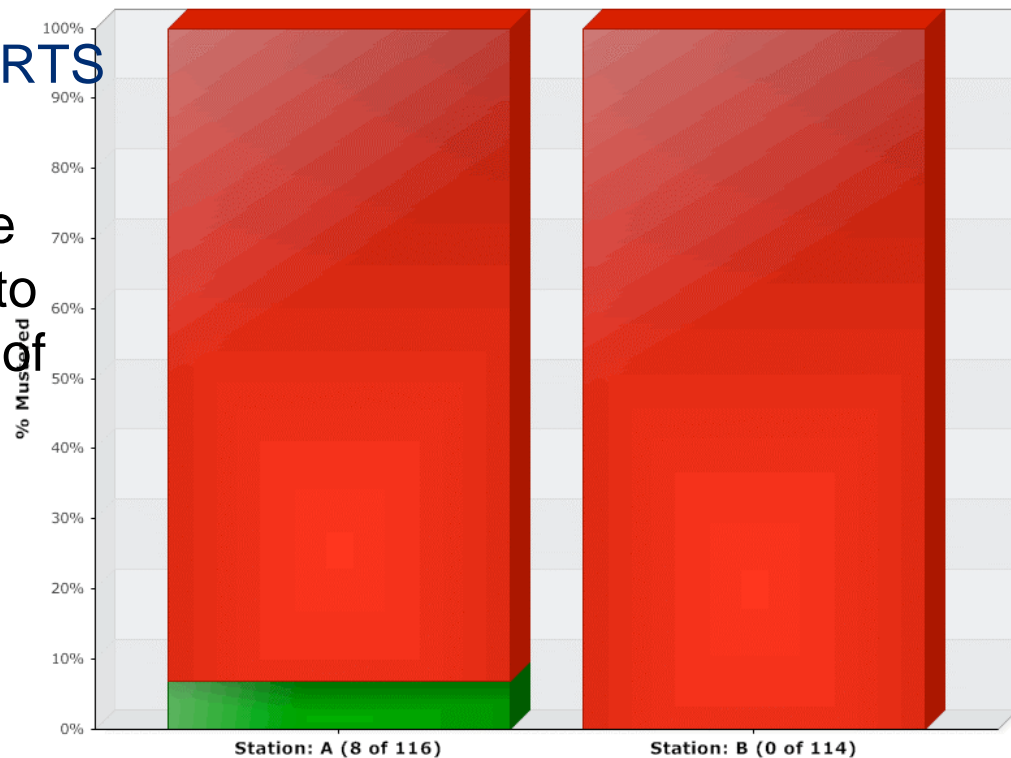
Last Updated: 11/09/2007 10:10:20

Muster Station Reporting

[Home](#)

MUSTER STATION REPORTS

➡ Muster Station reports are provided in graphic format to give immediate indications of the muster progress.



CT@G® Real-time Passenger Accountability Systems -

Real-time Reporting capabilities

MAIN VERTICAL ZONE REPORTS

- ➔ Total number of Pax remaining in each MVZ automatically decreases as Pax are checked-in at the Muster Stations
- ➔ **RED** boxes show where no pax have been accounted for; **YELLOW** boxes indicate 'partial' clearance: hover over the cell and the missing pax is identified.
- ➔ **GREEN** boxes indicate that all pax are clear from this cabin.

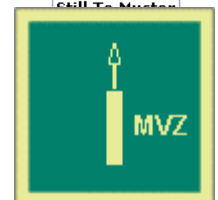
Last Updated: 11/09/2007 10:09:19

| MVZ: 2 | | MVZ: 3 | |
|-----------------|---|-----------------|---|
| 4004 | 2 | 4016 | 2 |
| 4005 | 2 | 4018 | 2 |
| 4006 | 2 | 4019 | 2 |
| 4007 | 2 | 4020 | 2 |
| 4008 | 2 | 4021 | 2 |
| 4009 | 2 | 4022 | 2 |
| 4010 | 2 | 4023 | 2 |
| 4011 | 2 | 4024 | 2 |
| 4012 | 2 | 4025 | 2 |
| 4014 | 2 | 4026 | 2 |
| 4015 | 1 | 4027 | 2 |
| 4017 | 2 | 4028 | 2 |
| 6000 | 2 | 4029 | 2 |
| 6001 | 2 | 4030 | 2 |
| 6002 | 2 | 4031 | 2 |
| 6003 | 2 | 4032 | 1 |
| 6004 | 2 | 4033 | 2 |
| 6005 | 2 | 4034 | 2 |
| 6006 | 2 | 4035 | 0 |
| 6007 | 2 | 4036 | 0 |
| 6008 | 2 | 4037 | 1 |
| 6009 | 2 | 4039 | 2 |
| 6010 | 2 | 4040 | 2 |
| 6011 | 2 | 4041 | 2 |
| 6012 | 2 | 4042 | 2 |
| 6014 | 2 | 7044 | 2 |
| 7001 | 2 | 7053 | 1 |
| 7007 | 2 | | |
| Still To Muster | | Still To Muster | |
| 57 | | 51 | |

- TYLER CHRISTINE
- TYLER DERWOOD

Main Vertical Zone Reporting

| MVZ: 4 | | MVZ: 5 | |
|-----------------|---|-----------------|---|
| 4047 | 1 | 6060 | 2 |
| 4048 | 2 | 6062 | 2 |
| 4049 | 2 | 6063 | 2 |
| 4050 | 2 | 6064 | 2 |
| 4051 | 2 | 6065 | 2 |
| 4052 | 2 | 6066 | 2 |
| 4053 | 2 | 6067 | 2 |
| 4055 | 2 | 6068 | 1 |
| 4056 | 2 | 6069 | 2 |
| 6044 | 2 | 6070 | 2 |
| 6045 | 2 | 6071 | 2 |
| 6046 | 2 | 6072 | 2 |
| 6047 | 2 | 6073 | 2 |
| 6048 | 2 | 6074 | 2 |
| 6049 | 2 | 6075 | 2 |
| 6050 | 2 | 6076 | 2 |
| 6051 | 2 | 6077 | 2 |
| 6052 | 2 | 6078 | 2 |
| 6053 | 2 | 6079 | 2 |
| 6054 | 2 | 6080 | 2 |
| 6055 | 2 | 6081 | 2 |
| 6056 | 2 | 6082 | 2 |
| 6057 | 2 | 6083 | 2 |
| 6058 | 2 | 6084 | 2 |
| 6059 | 2 | 6085 | 2 |
| 6061 | 2 | 6086 | 2 |
| 7062 | 2 | 6087 | 2 |
| 8033 | 2 | 6088 | 2 |
| Still To Muster | | Still To Muster | |
| 57 | | | |



CT@G® Real-time Passenger Accountability Systems -

Real-time Reporting capabilities

MAIN VERTICAL ZONE REPORTS

It is possible to provide printed lists of missing personnel by MVZ

Missing Pax List MVZ 2

Print

| CabinNo | Name |
|---------|-------------------|
| 4004 | WELSH JOHN |
| 4004 | WELSH JOSEPHINE |
| 4005 | PEDULLA ALBERT |
| 4005 | PEDULLA BEVERLY |
| 4006 | MURPHY DANIEL |
| 4006 | MURPHY JOSEPH |
| 4007 | BOUBEL AMBROSE |
| 4007 | BOUBEL DOREENE |
| 4008 | MADAY JOSEPHINE |
| 4008 | MADAY RICHARD |
| 4009 | MORITZ JOHN |
| 4009 | MORITZ SUE |
| 4010 | MARSH ANN |
| 4010 | TROST BETTY |
| 4011 | SUNDERMANN JOSEPH |
| 4011 | SUNDERMANN LYNN |
| 4012 | KAMM DANIEL |
| 4012 | KAMM GAIL |
| 4014 | URITIS GEORGE |
| 4014 | URITIS MARY JOANN |
| 4015 | AVERITTE RONALD |
| 4017 | AKARD MARY |
| 4017 | AKARD SAM |
| 6000 | GUERIN MARK |
| 6000 | SHERIDAN LILLIAN |
| 6001 | PIOVARCHY JULIA |
| 6001 | PIOVARCHY LEE |
| 6002 | HOWARD ARTHUR |
| 6002 | HOWARD LESLIE |
| 6003 | BOCCIARDI JANET |

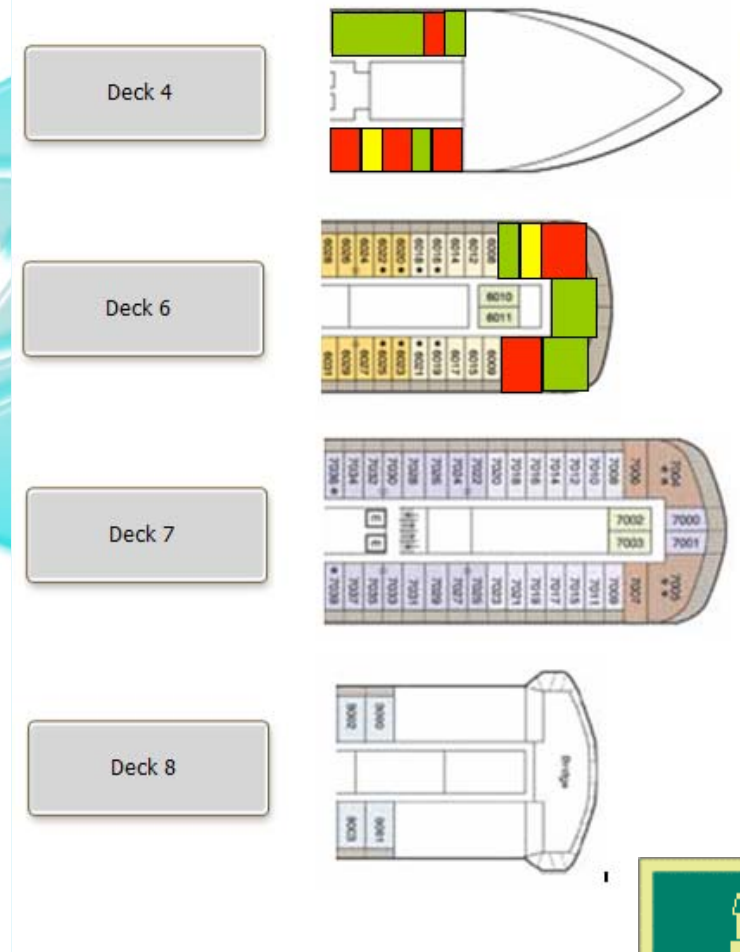


CT@G® Real-time Passenger Accountability Systems -

Real-time Reporting capabilities

MAIN VERTICAL ZONE REPORTS USING SHIP'S PLANS

➡ By linking the CT@G® software to ship's CAD plans, muster progress can be visually indicated, using the same colour schemes as before



CT@G® Real-time Passenger Accountability Systems -

Real-time Reporting capabilities

MUSTER AND/OR LIFEBOAT STATION PROGRESS REPORTS

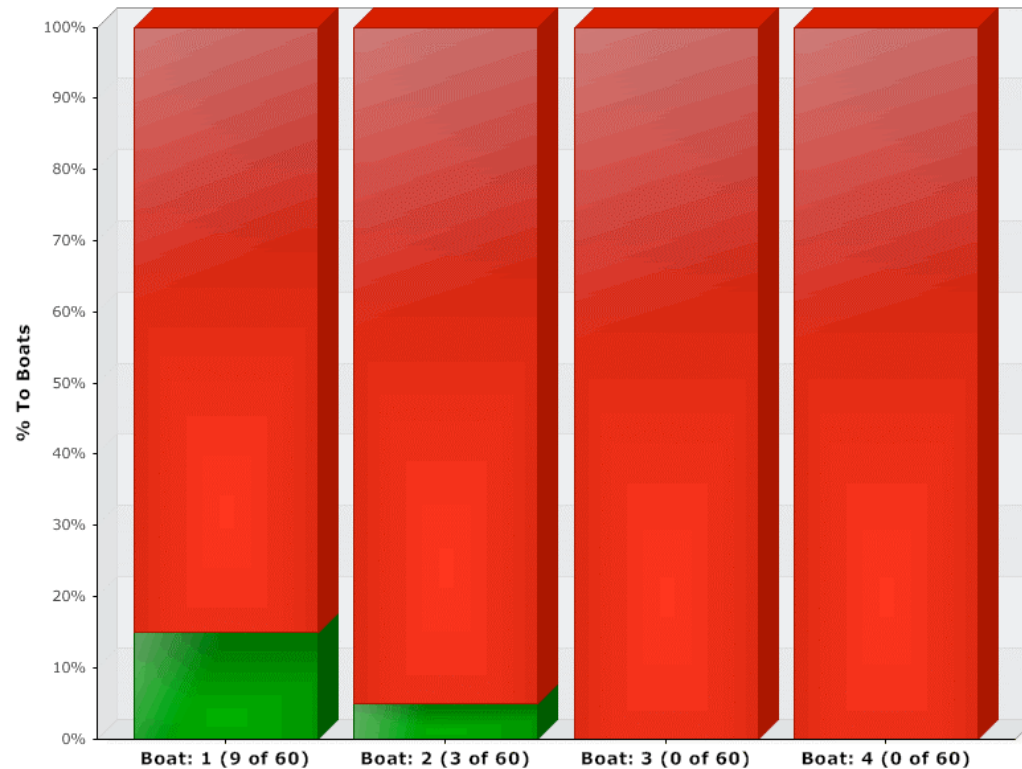
Last Updated: 11/09/2007 10:23:56

Lifeboat Reporting

Muster Stations:

[Home](#)

Show Report: [Lifeboat: 1](#) [Lifeboat: 2](#) [Lifeboat: 3](#) [Lifeboat: 4](#)



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CT@G® Real-time Passenger Accountability Systems -

Real-time Reporting capabilities

MUSTER AND/OR LIFEBOAT STATION PROGRESS REPORTS

Lifeboat No. 1 Manifest

[Print](#)[Back](#)[Email](#)
mark@kodit.com
cstory@kodit.com

| Cabin no | Name | Pax type | Passport | Nationality | Date Of Birth |
|----------|--------------------|----------|------------|---------------|---------------|
| 4015 | AVERITTE LAURA | Adult F | 134857602 | United States | 12/7/1935 |
| 4049 | BROPHY JOHN | Adult M | PA4011278 | Ireland | 10/4/1943 |
| 4035 | CAPASSO FRANCES | Adult F | 0459733285 | United States | 2/4/1940 |
| 4035 | CAPASSO RALPH | Adult M | 045973284 | United States | 11/29/1936 |
| 7053 | DUROCHER LUCA | Minor M | 217069010 | United States | 10/11/1992 |
| 4036 | LOVENBERG MARJO... | Adult F | 212078694 | United States | 6/18/1932 |
| 4019 | LOWELL DIANA | Adult F | 218920883 | United States | 8/25/1937 |
| 4019 | LOWELL FRED | Adult M | 218920882 | United States | 3/1/1932 |
| 4049 | REILLY EILEEN | Adult F | T921567 | Ireland | 6/27/1952 |

With internet access available from the ship to shore, appropriately signed in authorities may view these reports directly or the reports may be sent to shore offices and rescue co-ordination centres by e-mail or other appropriate means.



CT@G® Real-time Passenger Accountability Systems

CT@G® System recap

- ➔ ***“CT@G® Real-time picture” of events enabling:***
 - ➔ **Confidence**
 - ➔ **Optimum use of resources**
 - ➔ **Early indication of potential problem areas**
 - ➔ **Effective monitoring of children, families and passengers with special needs**
 - ➔ **Automatic situational awareness for shipowners and SAR authorities**

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- ➔ ***Post-incident traceability***
- ➔ ***Accurate, CT@G Real-time reports of muster progress***

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CT@G[®]'s Proven Technology Partners

kodit

ORACLE[®] CERTIFIED
PARTNER

socket[®]
Increasing Mobile
Productivity



MOTOROLA

Innovating Safety and Security

CT@G[®]'s Proven Technology Partners

About Kodit

Kodit Database Limited was established in 1992 to address growing market demand for high quality asset identification systems. Kodit Database Limited is certified to ISO 9000:2000, and in 1998 became the first company in Europe to pass the Loss Prevention Council's LPS1224 Certification. This was followed by the award of the LPS1225 Certification for the Kodit Securitags. Over the last several years Kodit has expanded its range of products and services, and now covers in excess of 500,000 assets annually. Kodit is the preferred single source supplier for many organizations in all matters relating to Asset Management and Identification.

For further information, please visit www.kodit.com.

kodit

About Oracle

Oracle (Nasdaq: ORCL) is the world's largest enterprise software company. Oracle's business is information - how to manage it, use it, share it, protect it. For nearly three decades, Oracle has provided the software and services that let organisations get the most up-to-date and accurate information from their business systems.

Today, Oracle is helping more governments and businesses around the world become information-driven than any other company.

For further information, please visit www.oracle.com.

ORACLE

Current users of Kodit's technology include: DELL Corporation, The Royal Bank of Scotland Group, Oil Spill Response Ltd and the UK Maritime and Coastguard Agency.



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Real-time Passenger Accountability Systems