



蛇口集裝箱碼頭

IT Implementation on SCT

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Challenges to SCT-IT

The advance of technology has meant that businesses today are totally dependent upon IT.

Only then can IT organization be sure to deliver high and innovative IT services that are aligned with the business processes.

Contents

- **SCT-IT Objectives**
- **Our Customers (Internal & External)**
- **Key Applications & Systems**

SCT-IT Objectives

- **Improved quality of service – more reliable business;**
- **Reduced costs;**
- **Better communications / relations with our customers;**
- **Greater productivity;**
- **Control of IT assets;**

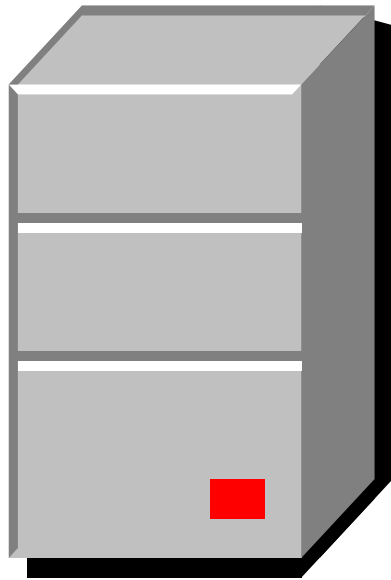
The customers of SCT IT

- **SCT internal users**
- **Vessel Owners**
- **Government (Customs, etc)**
- **Others**

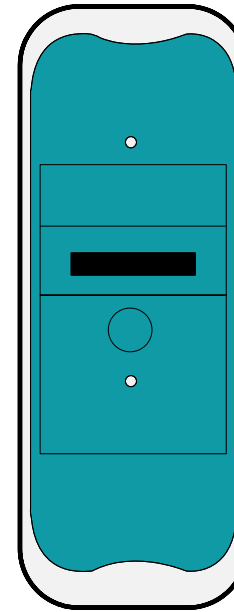
SCT Key Applications & Systems

- **Terminals Operations System from NAVIS (EXPRESS & SPARCS)**
- **Billing System (Developed by internal)**
- **EDI (Baplie, COPARN, CODECE/COARRI, etc)**
- **IT Service Desk (Production systems incident Mgt)**

Production Application



EXPRESS



SPARCS

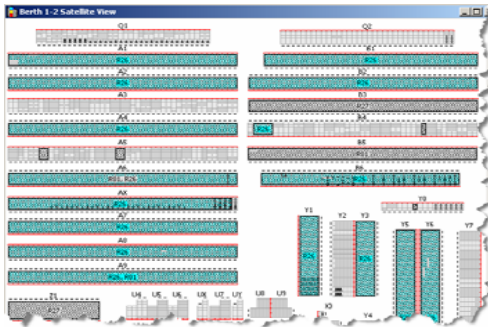
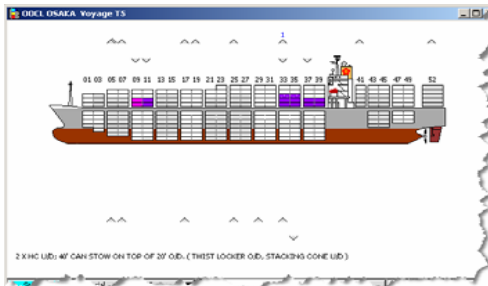
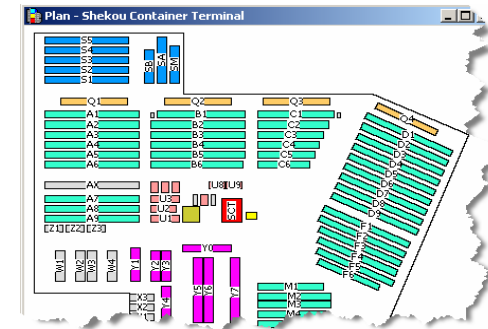
The main function modules

- Express System
 - Vessel operations
 - Gate operations
 - Yard operations
 - EDI
 - Reports

The main function modules

- Sparcs System
 - Vessel planning
 - Discharge planning
 - Loading planning
 - Yard planning
 - Import discharging container storage plan
 - Transshipment container storage plan
 - Export containers storage plan
 - Empty container storage plan
 - Yard move plan
 - Control & Equipments modules
 - RDT module
 - POW&Equipment Pools

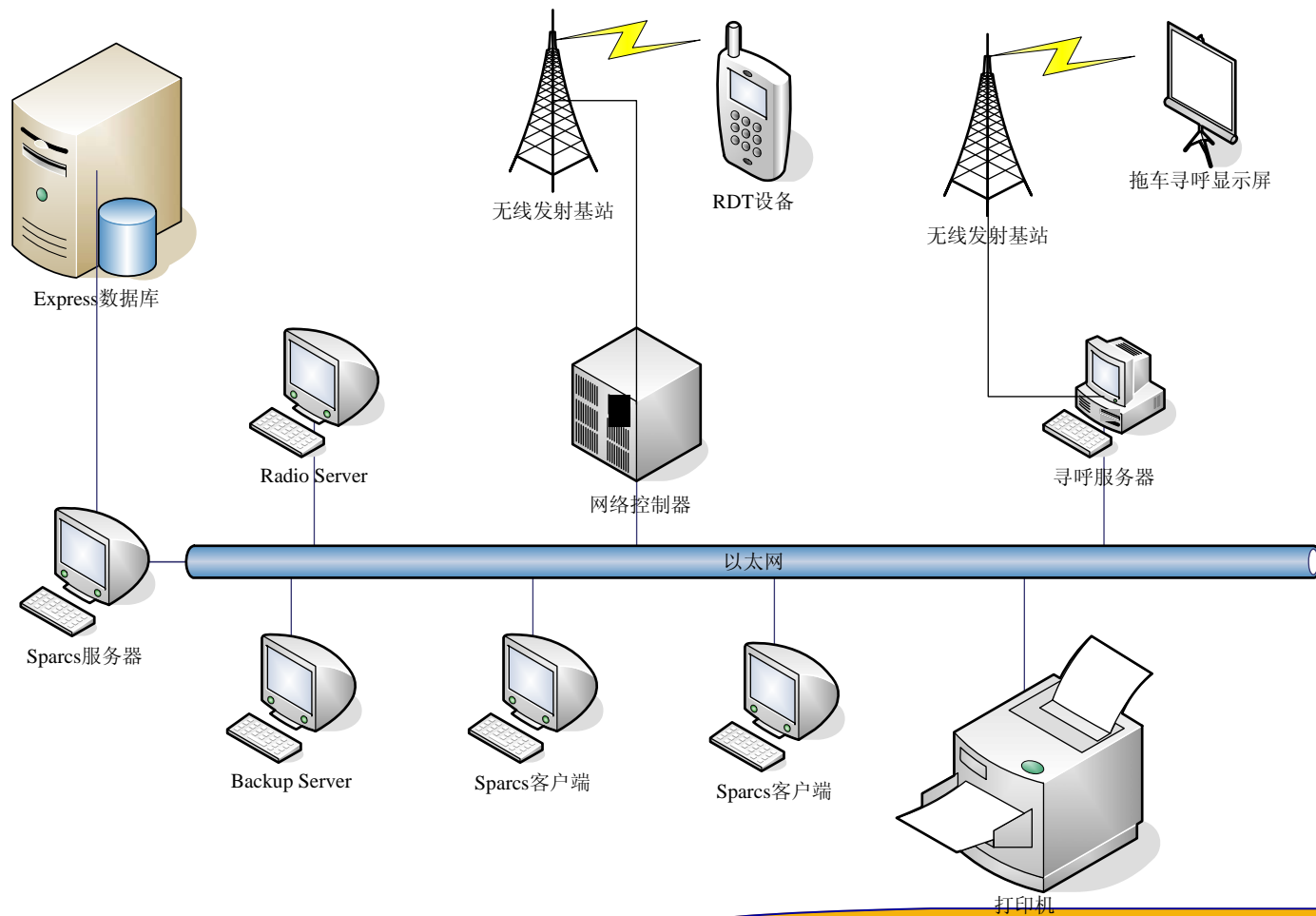
Sparcs System



- Yard Planning
- Vessel Schedule
- Control & Equipments



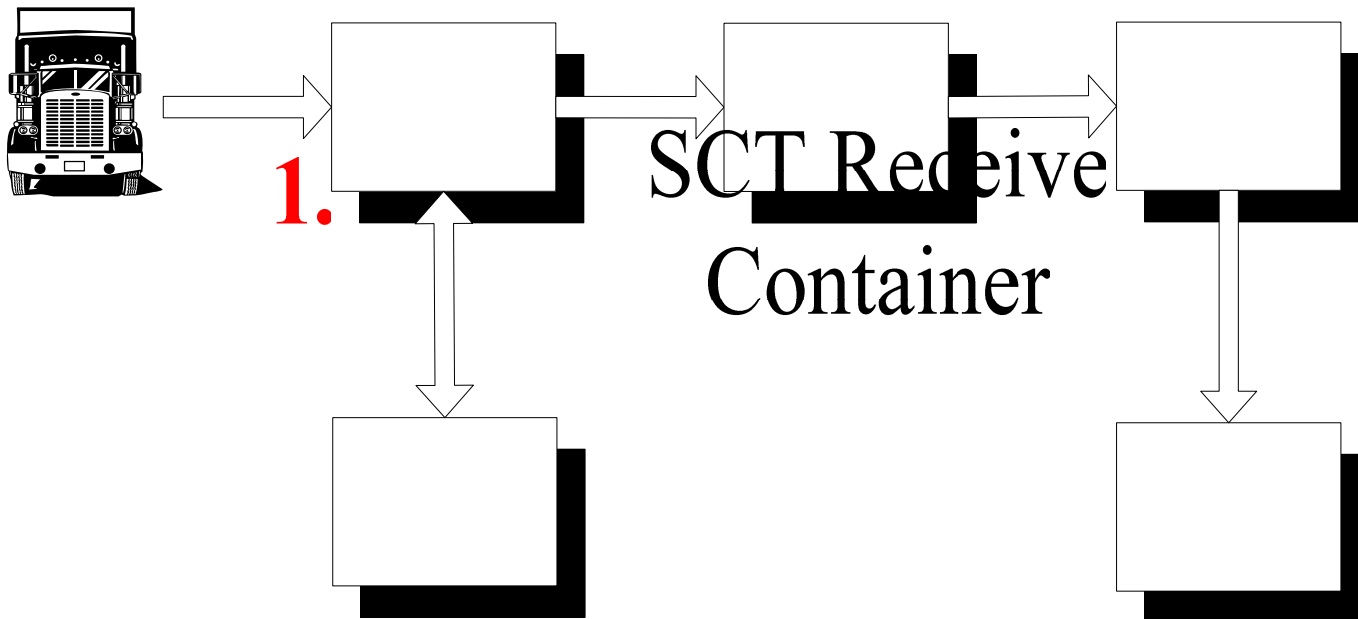
The figure of SPARCS System



The Processes of EXPRESS

- EDI BOOKING (Pregate)
- EDI BAPLIE
- Receive/Deliver Containers (Ingate / Outgate)
- Loading/Discharging Vessel (Export / Import / Transshipment)
- Yard Operation

Main production process (1)

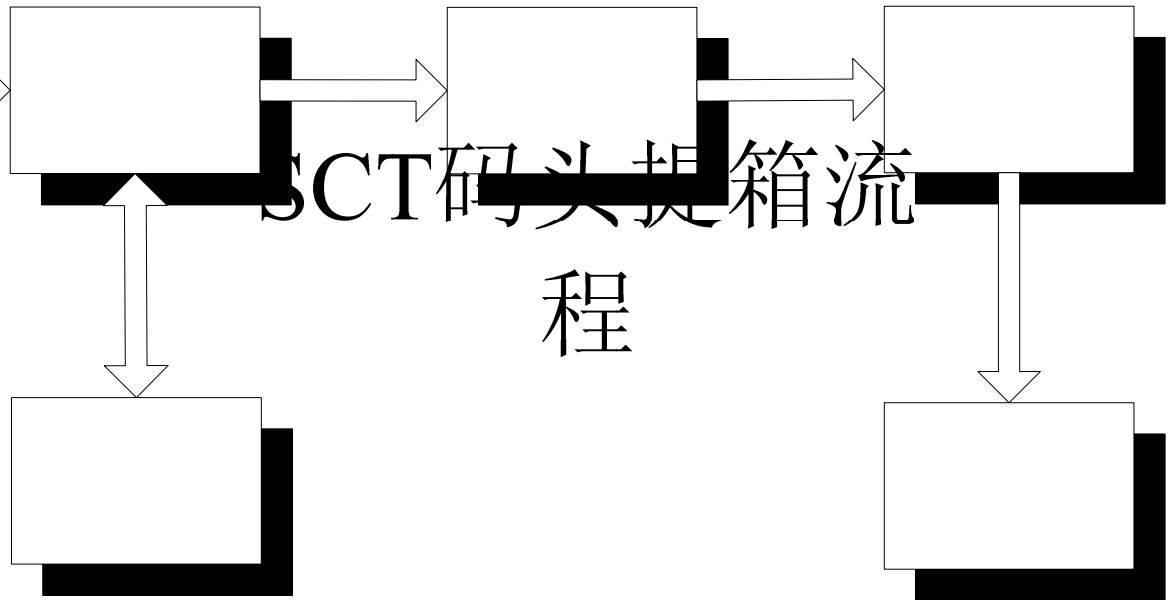


Express
E-gate in

Main production process (2)



2.

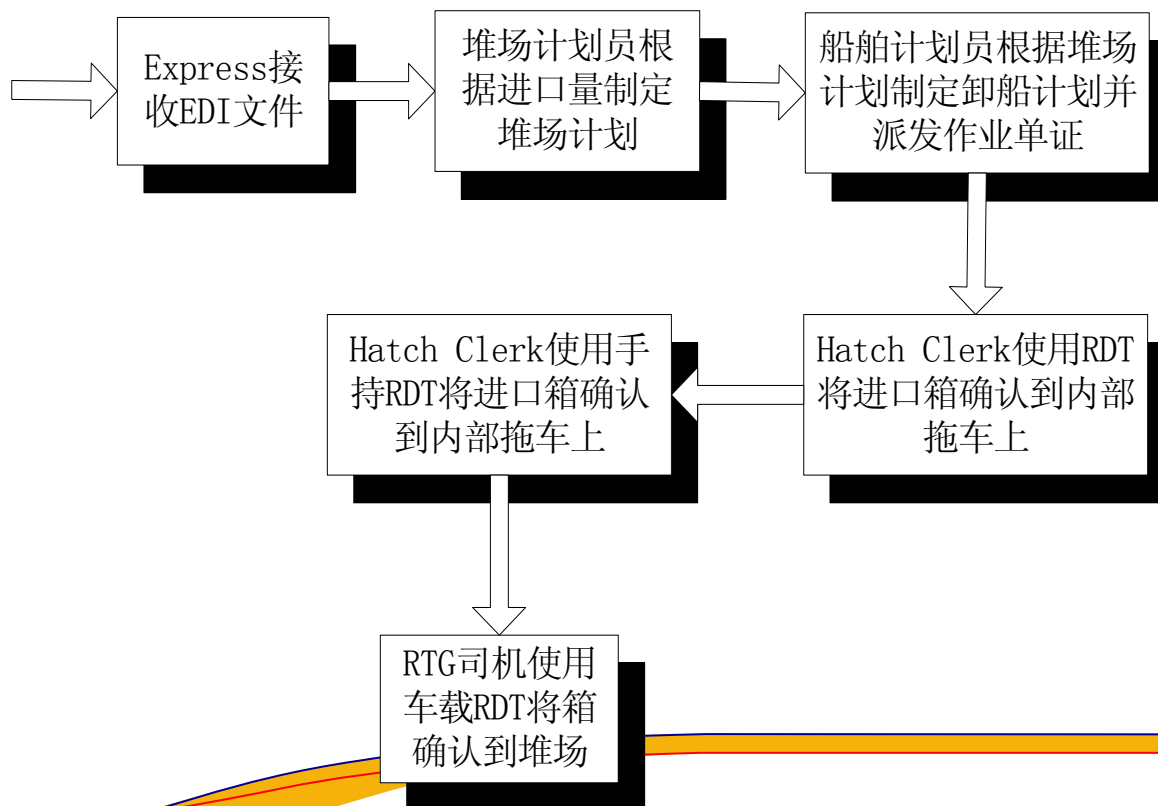


使用Express
将拖车扫进

Main production process (3)

3.

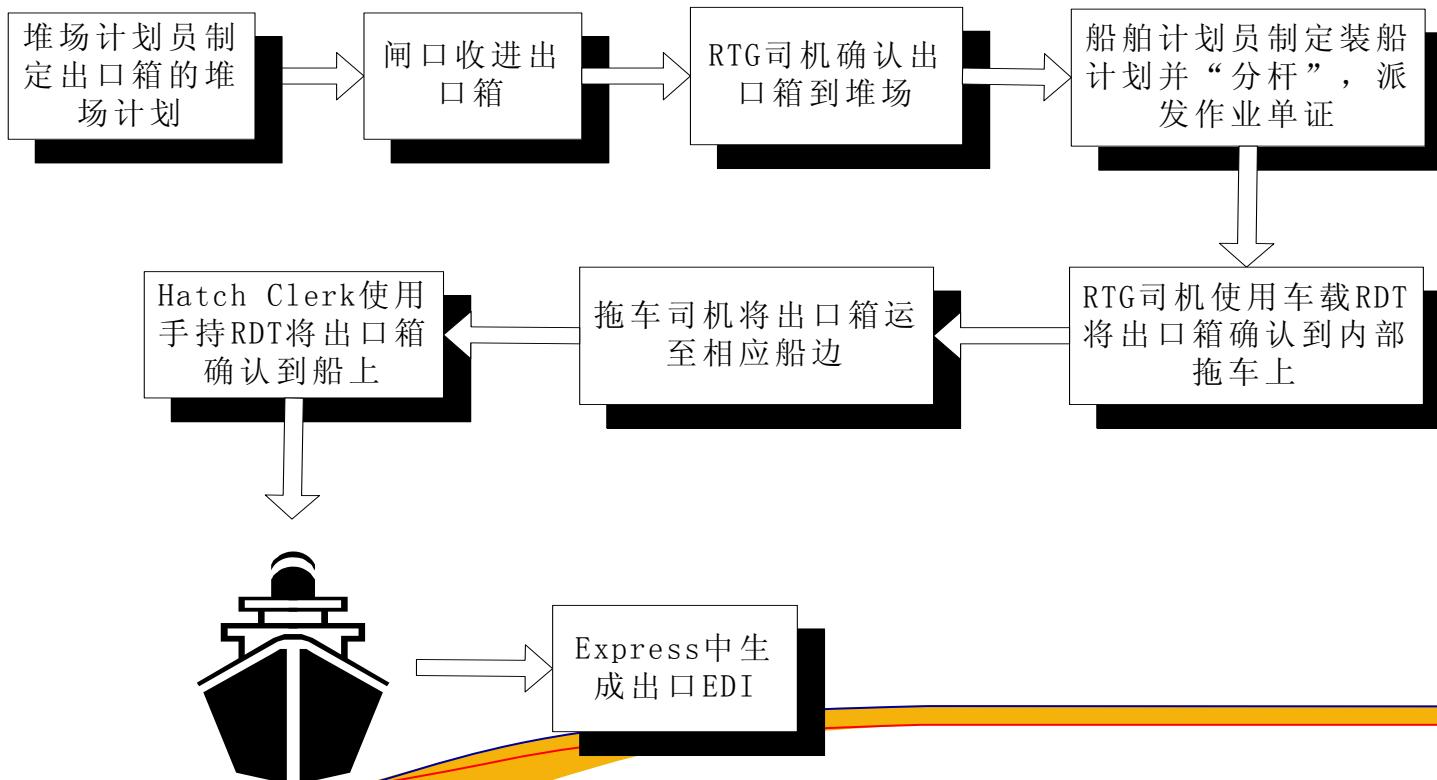
SCT码头卸船作业流程



Main production process (4)

4.

SCT码头装船作业流程



VESSEL PROCEDURE (1)

- Vessel Definition (Express)
 - Vessel Owner Name
 - Vessel Class
 - Vessel name
 - Vessel Service
 - Vessel Voyage Rotation
 - Vessel Schedule
 - Vessel Figure Using Ship Editor
- Import EDI file loading (Express)
 - EDI Interface
 - Monitoring EDI loading status (Express)
 - Displaying in Sparcs (Sparcs)

VESSEL PROCEDURE (2)

- Importing the Booking number (Express)
- Yard Planning for Import/Export Containers (Sparcs)
- Discharge Planning (Sparcs)
- Operation Controlling (Sparcs)
- Pre-Loading for Export Containers (Sparcs)
- Loading Planning (Sparcs)
- Custom Release by EDI (Express)
- Generate an Export EDI to Line Owner (Express)

GATE PROCEDURE

- Pre-Gate: Prepare Container Interchange Request (Express)
 - Key-in the container's information manually , print CIR
 - Pre-gate: 5 main requests
 - DM: Deliver Empty
 - DI: Deliver Import
 - RE: Receive Export
 - RM: Receive Empty
 - DE: Deliver Export
- In-Gate: Scan the CIR number update the data automatically (Express)
- Out-Gate: Scan the CIR number automatically and confirm the transaction (Express)
- Cancel&Close CIR

CONTROL TOWER PROCEDURE

- Assigning RTG、Truck, etc. moving equipments working area (Sparcs)
- Confirm following information for the drivers of RTG and the related equipments (Sparcs)
 - Receiving / Delivering Containers
 - Receiving the Export containers
 - Delivering Import containers
 - Transferring containers
 - Container moving in the yard
- Confirm the Vessel operation (Sparcs)
 - Loading confirmation
 - Discharging confirmation
 - Damaged containers recode
- Truck controlling in yard (Sparcs)

EXPRESS USER INTERFACE (1)

```
EXPRESS          E X P R E S S - T E R M I N A L   S Y S T E M          20-DEC-2004
VSL001F          V E S S E L   V O Y A G E   R O T A T I O N          Page 1 of 1

Vessel Voyages
Vessel: 8BAR      A BARGE
Line:  BAR      ANY BARGE SHIPPING COMPANY
Voyage: 0045
Service: HKS

Created: 08-JAN-2004 08:14:51 JYYANG
Changed:

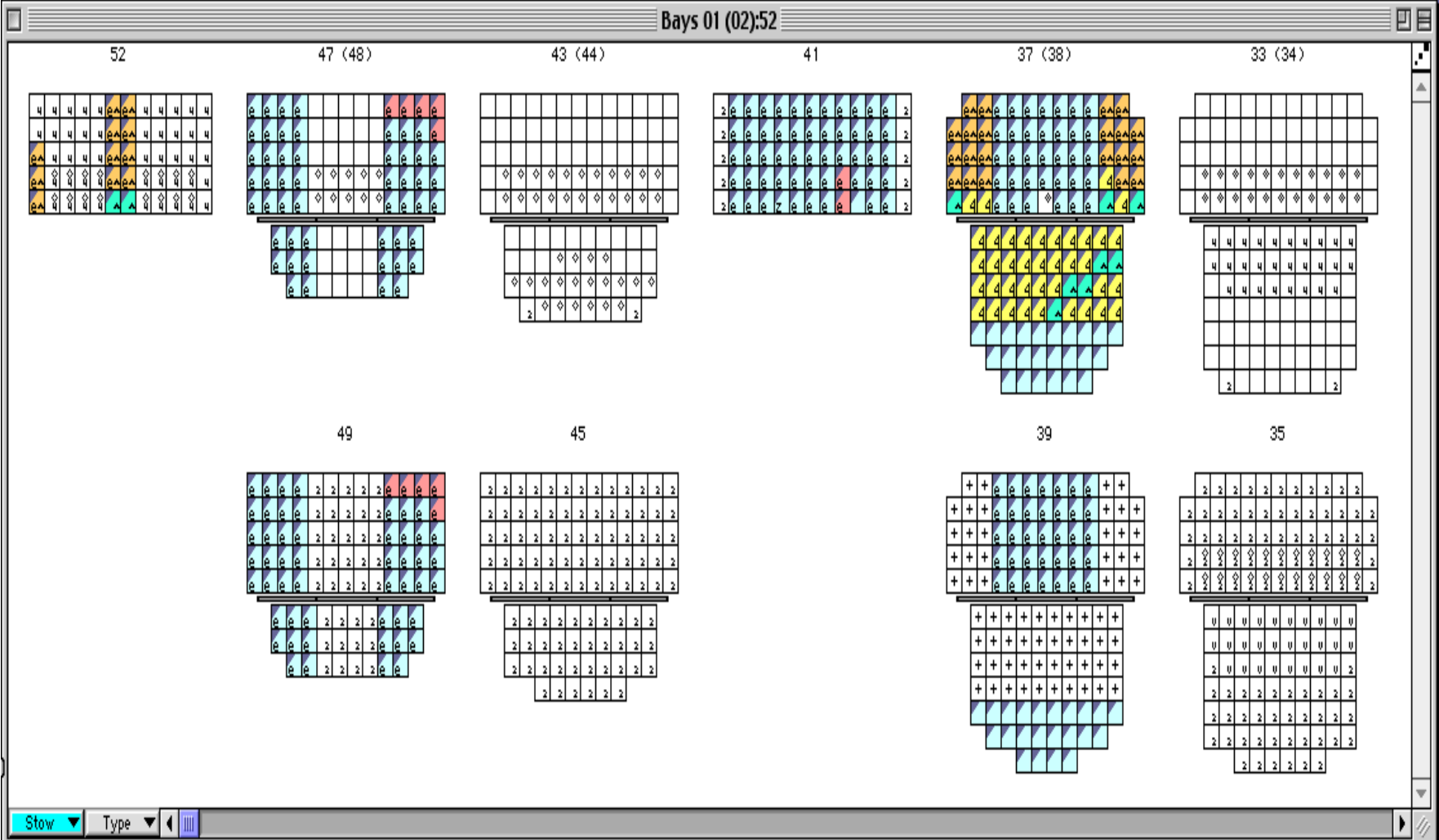
Port Calls
Port  Call Seq.  Created                               Changed
SHK   1      1      08-JAN-2004 08:14:51 JYYANG    01NOV1999 12:54:11 XJCAO
HKG   1      2      08-JAN-2004 08:14:51 JYYANG    01NOV1999 12:54:11 XJCAO
MTL   1      3      08-JAN-2004 08:14:51 JYYANG    01NOV1999 12:54:11 XJCAO
HIT   1      4      08-JAN-2004 08:14:51 JYYANG    01NOV1999 12:54:11 XJCAO
TUM   1      5      08-JAN-2004 08:14:51 JYYANG    01NOV1999 12:54:11 XJCAO
TTT   1      6      08-JAN-2004 08:14:51 JYYANG    01NOV1999 12:54:11 XJCAO

Unique abbreviation for this vessel. - list of values available
Count: 60      ^ v      <List><Replace>
```


SPARCS USER INTERFACE (1)

Bays 01 (02):52

52 47 (48) 43 (44) 41 37 (38) 33 (34)

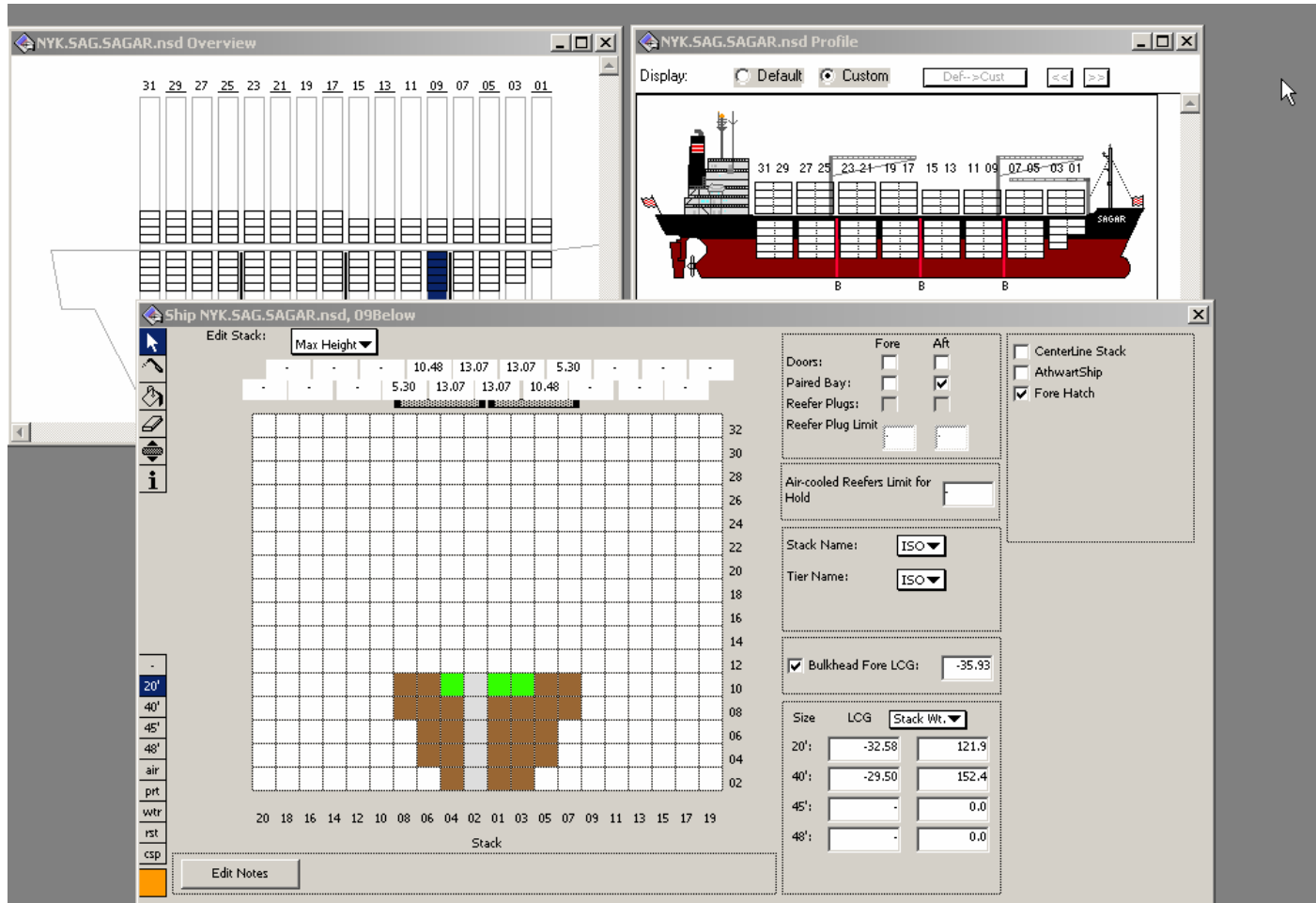


49 45 39 35

Stow Type

The interface displays a grid of 12 bays, each with a unique layout of colored blocks and symbols. Bay 52 is a 10x10 grid with yellow and blue blocks. Bay 47 (48) is a 10x10 grid with blue and red blocks. Bay 43 (44) is a 10x10 grid with white blocks and diamond symbols. Bay 41 is a 10x10 grid with blue and red blocks. Bay 37 (38) is a 10x10 grid with blue and yellow blocks. Bay 33 (34) is a 10x10 grid with white blocks and diamond symbols. Bay 49 is a 10x10 grid with blue and red blocks. Bay 45 is a 10x10 grid with white blocks and diamond symbols. Bay 39 is a 10x10 grid with blue and yellow blocks. Bay 35 is a 10x10 grid with white blocks and diamond symbols. The interface includes a title bar, a status bar, and a toolbar.

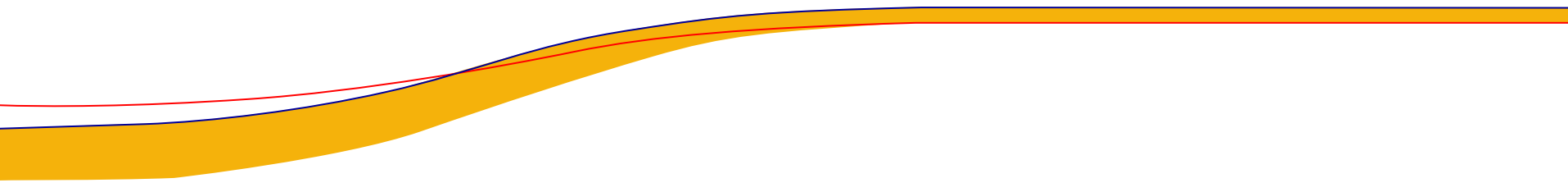
SPARCS USER INTERFACE (2)



The screenshot displays the SPARCS user interface for the ship NYK.SAG.SAGAR.nsd. It is divided into three main sections:

- NYK.SAG.SAGAR.nsd Overview:** Shows a high-level view of the ship's deck layout with numbered bays (31, 29, 27, 25, 23, 21, 19, 17, 15, 13, 11, 09, 07, 05, 03, 01).
- NYK.SAG.SAGAR.nsd Profile:** Provides a side-view profile of the ship with container stacks and bay numbers.
- Ship NYK.SAG.SAGAR.nsd, 09Below:** A detailed stack edit window for bay 09. It includes:
 - Edit Stack:** A dropdown menu set to "Max Height".
 - Dimensions:** A grid with height values (10.48, 13.07, 13.07, 5.30) and width values (5.30, 13.07, 13.07, 10.48).
 - Stack Grid:** A grid showing the current stack configuration with colors (brown, green) and a vertical axis from 02 to 32.
 - Configuration Panel:**
 - Doors:** Fore and Aft checkboxes.
 - Paired Bay:** Checked checkbox.
 - Reefer Plugs:** Checked checkbox.
 - Reefer Plug Limit:** Input fields.
 - Air-cooled Reefers Limit for Hold:** Input field.
 - Stack Name:** ISO dropdown.
 - Tier Name:** ISO dropdown.
 - Bulkhead Fore LOG:** Checked checkbox with value -35.93.
 - Size Table:**

Size	LOG	Stack Wt.
20'	-32.58	121.9
40'	-29.50	152.4
45'	-	0.0
48'	-	0.0
 - Left Panel:** A vertical toolbar with icons for various functions and a list of options: 20', 40', 45', 48', air, prt, wtr, rst, csp.
 - Bottom:** An "Edit Notes" button.



EDI BOOKING PROCESSING

