Survey on container terminal generation

The aim of this survey is to gain the most accurate information about the respective handling system. This includes, in addition to general and system load data, information on layout objects, processes, handling equipment and operation strategies.

Part I: General Data

1) **Which modes of transport does your terminal serve?**
   a. Road, rail and water
   b. Road and water (if selected, do not answer part III rail)
   c. Road and rail (if selected, do not answer part IV water)
   d. Rail and water (if selected, do not answer part V road)

2) **How many employees are working in your terminal at the moment?**
   a. Less than 10 employees
   b. Between 10 and 25 employees
   c. Between 25 and 50 employees
   d. Between 50 and 75 employees
   e. Between 75 and 100 employees
   f. Between 100 and 125 employees
   g. More than 125 employees

3) **What is the average transshipment volume of your terminal -within the last 12 months?**
   a. Less than 25.000 TEU each year
   b. Between 25.000 and 75.000 TEU each year
   c. Between 75.000 and 125.000 TEU each year
   d. Between 125.000 and 175.000 TEU each year
   e. Between 175.000 and 225.000 TEU each year
   f. Between 225.000 and 275.000 TEU each year
   g. Between 275.000 and 325.000 TEU each year
   h. Between 325.000 and 375.000 TEU each year
   i. More than 375.000 TEU each year

4)   **What container related supplemental services (such as stuffing, cleaning, repairing, etc.) do you offer in your terminal?**

5)   **What are potential services you plan to offer in the future?**

Part II: Container

1) **How are the container main hauls distributed between the different modes of transport in your terminal within the last 12 months?**

   The following distribution applies to the terminal:

   _____ % of containers by rail, _____ % of containers by ship, _____ % of containers by road

2) **What is the percentage of 20' and 40' containers in your terminal within the last 12 months?**

   a. 0% 20' containers, 100% 40' containers

   b. 20% 20' containers, 80% 40' containers

   c. 40% 20' containers, 60% 40' containers

   d. 60% 20' containers, 40% 40' containers

   e. 80% 20' containers, 20% 40' containers

   f. 100% 20' containers, 0% 40' containers

   g. The following distribution applies to the terminal:

   _____ % 20' containers, _____ % 40' containers

3) **What is the percentage of full and empty containers in your terminal within the last 12 months?**

   a. 0% full containers, 100% empty containers

   b. 20% full containers, 80% empty containers

   c. 40% full containers, 60% empty containers

   d. 60% full containers, 40% empty containers

   e. 80% full containers, 20% empty containers

   f. 100% full containers, 0% empty containers

   g. The following distribution applies to the terminal:

   _____ % full containers, _____ % empty containers

4) **How are empty containers in your terminal distributed between the shipping companies? (Please select one answer in each line)**

	not any	few	medium	many	a great many
Maersk Line (Denmark)	o	o	o	o	o
MSC (Switzerland)	o	o	o	o	o
CMA CGM (France)	o	o	o	o	o
Hapag-Lloyd (Germany)	o	o	o	o	o
Evergreen Marine (Taiwan)	o	o	o	o	o
COSCO (China)	o	o	o	o	o
China Shipping Container Lines (China)	o	o	o	o	o
NYK (Japan)	o	o	o	o	o
American Present Lines (Singapore)	o	o	o	o	o
Pacific International Lines (Singapore)	o	o	o	o	o
Leasing	o	o	o	o	o
other _____	o	o	o	o	o

5) **On average, how many days do full containers remain in the terminal?**
   a. Less than 1 day
   b. 1 to 1,5 days
   c. 1,5 to 2 days
   d. 2 to 2,5 days
   e. 2,5 to 3 days
   f. 3 to 3,5 days
   g. 3,5 to 4 days
   h. 4 to 4,5 days

      i.   More than 4,5 days

6)   **On average, how many days do empty containers remain in the terminal?**

    a.   Less than 3 days

    b.   3 to 5 days

    c.   6 to 8 days

    d.   9 to 12 days

    e.   13 to 15 days

    f.   More than 15 days

Part III: Rail

1) **On average, how many block trains are handled in your terminal per day -within the last 12 months?**
   a. Less than 2 trains
   b. 2 to 4 trains
   c. 4 to 6 trains
   d. 6 to 8 trains
   e. 8 to 10 trains
   f. More than 10 trains

2) **On average, how long does it take for the trains to be processed between their scheduled arrival and departure time?**
   a. Less than 2 hours
   b. 2 to 3 hours
   c. 3 to 4 hours
   d. 4 to 5 hours
   e. 5 to 6 hours
   f. More than 6 hours

3) **On average, how long does it take for a train to be released for loading and unloading after pulling into the loading track?**
   a. Less than 10 minutes
   b. 10 to 20 minutes
   c. 20 to 30 minutes
   d. More than 30 minutes

4) **How long before the scheduled departure of a train are they closed for cargo?**
   a. Less than 10 minutes
   b. 10 to 20 minutes
   c. 20 to 30 minutes
   d. 30 to 40 minutes
   e. 40 to 50 minutes

  f. 50 to 60 minutes

  g. More than 60 minutes

5) **Do you comply the closing for cargo strictly?**

  a. Yes (if selected, do not answer questions 6 and 7)

  b. No

6) **How many minutes do you exceed the closing for cargo on average?**

  _____ minutes

7) **How often do you exceed the closing for cargo?**

  a. _____ times a day

  b. _____ times a week

  c. _____ times a month

  d. _____ % of trains are processed outside the loading times

Part IV: Water

1) **How many container vessels are handled in your terminal per day within the last 12 months?**
   a. 1 vessel
   b. 2 vessels
   c. 3 vessels
   d. 4 vessels
   e. 5 vessels
   f. More than 5 vessels

2) **On average, how long does a vessel stay in your terminal?**
   _____ hours

3) **What is the average time it takes to start unloading after a vessel arrived?**
   a. Less than 10 minutes
   b. 10 to 20 minutes
   c. 20 to 30 minutes
   d. 30 to 40 minutes
   e. 40 to 50 minutes
   f. 50 to 60 minutes
   g. More than 60 minutes

Part V: Road

1) **How many trucks arrive at your terminal at different times of the day?**
   (Please select one answer in each line)

	not any	few	Medium	many	a great many
0-2 a.m.	o	o	o	o	o
2-4 a.m.	o	o	o	o	o
4-6 a.m.	o	o	o	o	o
6-8 a.m.	o	o	o	o	o
8-10 a.m.	o	o	o	o	o
10-12 a.m.	o	o	o	o	o
12-2 p.m.	o	o	o	o	o
2-4 p.m.	o	o	o	o	o
4-6 p.m.	o	o	o	o	o
6-8 p.m.	o	o	o	o	o
8-10 p.m.	o	o	o	o	o
10-12 p.m.	o	o	o	o	o

2) **At which times of the day are the peaks of truck arrivals in your terminal?**
   (several answers possible)
   a. 0-2 a.m.
   b. 2-4 a.m.
   c. 4-6 a.m.
   d. 6-8 a.m.
   e. 8-10 a.m.
   f. 10-12 a.m.
   g. 12-2 p.m.
   h. 2-4 p.m.
   i. 4-6 p.m.
   j. 6-8 p.m.

    k.   8-10 p.m.

    l.   10-12 p.m.

Part VI: Layout, resources, processes and strategies

1) **Which functional areas (truck handling, storage, train handling, supplemental services, gate etc.) are there in your terminal?**

2) **If possible, please outline the layout of your terminal.**

3) **How many truck entry and exit lanes are there in your terminal and how many employees are placed at each gate during the same shift?**

4) **How many truck handling areas are there in your terminal?**

5) **How many train loading tracks are there in your terminal and how long are they?**

6) **How many vessels can be placed and handled at the quay wall at the same time?**

7) **How many storage areas for transport units are there in your terminal? How many ground slots are there in the respective areas and which transport units can be stored each?**

8) **Which handling equipment (gantry crane, reach stacker, empty container stacker, etc.) are used to transship loading units in your terminal?**

9) **Please describe the transshipping process of loading units in your terminal for each offered mode of transport.**

10) **Is your handling equipment controlled according to a certain strategy? If yes, which one? If no, how do you determine which loading unit is the next one to be transshipped?**

11) **How many hours does your terminal operate per day?**

Thank you very much for your cooperation!