

```
<vessel name="SAN LORENZO" code="2LZ" >  
<service>SVN1</service>  
<arrival Date>2007-04-17 01:00</arrival Date>
```



## ARL Yard Clash Predictor

### Be Two Steps Ahead: Identify Yard Clashes before they Occur

Is your yard equipment able to execute all moves in time for the quay cranes to work at highest pace? Only one way to be sure: identify future yard clashes in time to avoid them from happening. Too many moves planned in the same yard area at the same time means delays for trucks, and eventually delays for quay cranes and vessels' port stay. The Yard Clash Predictor notifies you in advance, if there is a yard clash ahead.

### Take Preventive Action

Re-sequence your quay crane work queue, re-assign discharge blocks or do re-handles before yard clashes

occur. Secure un-interrupted terminal operation. Prevent delays by exercising timely care.

### Yard Equipment Handles Slower than Quay Cranes

If a quay crane need to pick or drop several boxes in the same yard area, the yard equipment will lag behind the handling speed of the quay crane; the assignment of multiple yard handling cranes is restricted by safe working distance limitations. The ship planner can accommodate this by distributing the sequence of moves handled by one quay crane to multiple yard blocks. But if quay cranes from multiple vessels are handling containers in the same yard blocks, the ship planner won't notice. The Yard Clash Predictor WILL!

# ARL Yard Clash Predictor

## For Container Terminals

A solution for container terminals handling multiple vessels at berth at the same time.

## Licensed or Leased Solution

Purchase a software license to use ARL Yard Clash Predictor to support your operations. Or lease the tool on a yearly basis.

For a yearly maintenance fee you get technical support, plus the upgrades.

Alert list					
	Time left	Time	Yard block	Moves affected	Description
Now to +1h					
<input type="checkbox"/>	+ 9 min	15:59	12C	12	Clash, +12 min delay, Q21
<input type="checkbox"/>	+ 22 min	16:12	11G	4	Congestion, +12 min delay, Q21
<input type="checkbox"/>	+ 26 min	16:16	10F	8	Illogical Sequence, +4 min delay, Q20,Q30,Q43,Q

## Integration to Terminal Operating System (TOS)

ARL Yard Clash Predictor reads your TOS data:

- Planned moves
- Yard blocks assigned for discharge containers
- Yard blocks of containers ready for loading
- Yard geometry
- Gate activity
- Planned QC work and current progress

## Main Features

- Detect timing and location for future yard clashes by monitoring TOS data 3 hours ahead
- Quantify the impact of the yard clash: Number of containers, implicated quay cranes & vessels, delay in time
- Categorize the yard clash into clashes and congestion and also identify illogical moves
- Displays a desktop yard clash notification and send notification by e-mail and sms

Vessel	QC	Move	Queue	Container	Location			Planned time		Estimated Time	
					Vessel	Yard	Stack	QC	Block	Block	Delay
CARE FORBY	Q21	DISCHARGE	653-dlach-14A (40x Only)	EISU9986230	140186	05A3602	36	16:20	16:21	16:21	0 min
CARE FORBY	Q21	DISCHARGE	653-dlach-14A (40x Only)	EISU9007731	140984	05A3604	36	16:23	16:24	16:24	0 min
CARE FORBY	Q21	DISCHARGE	653-dlach-14A (40x Only)	IMTU9005170	140794	05A3605	36	16:23	16:25	16:26	+1 min
CARE FORBY	Q21	DISCHARGE	653-dlach-14A (40x Only)	UESU5149510	140584	05A3673	36	16:24	16:25	16:25	+3 min
CARE FORBY	Q21	DISCHARGE	653-dlach-14A (40x Only)	UESU4830244	140384	05A3603	36	16:24	16:26	16:30	+4 min
CARE FORBY	Q21	DISCHARGE	653-dlach-14A (40x Only)	PCIU8290544	140184	05A3692	36	16:25	16:26	16:32	+6 min
CARE FORBY	Q21	DISCHARGE	653-dlach-14A (40x Only)	GLDU0839900	140484	05A3663	36	16:26	16:27	16:34	+7 min
CARE FORBY	Q21	DISCHARGE	653-dlach-14A (40x Only)	EMCU9322684	141084	05A3684	36	16:27	16:29	16:36	+7 min
CARE FORBY	Q21	DISCHARGE	653-dlach-14A (40x Only)	EISU9997510	140982	05A3602	36	16:28	16:29	16:38	+9 min
CARE FORBY	Q21	DISCHARGE	653-dlach-14A (40x Only)	GVCU5091206	140582	05A3603	36	16:29	16:30	16:40	+10 min
CARE FORBY	Q21	DISCHARGE	653-dlach-14A (40x Only)	EMCU9674752	140182	05A36C1	36	16:30	16:31	16:42	+11 min
CARE FORBY	Q21	DISCHARGE	653-dlach-14A (40x Only)	PSCU45796321	140282	05A36C2	36	16:31	16:32	16:44	+12 min

- Refreshes TOS data constantly, and monitors that identified yard clashes are eliminated

## Getting Started

Set up the centralized monitoring of TOS data and notification parameters – and you are ready to go! No input: Just plug & play, and the clashes will be shown.



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Innovative and state-of-the-art IT tools working in synergy with existing IT platforms for marine terminals, depot & yards, shipping lines & transport providers, freight forwarders and equipment managers.

- berth and resources planning, yard crane dispatching, performance monitoring and alerting;
- transportation pricing, electronic bookings, interactive schedules publishing;
- container fleet management, sales, interchange processes;
- freight forwarders' value-add services e-business, interaction with shippers and shipping lines and integration with portals;
- container yard inventory management;
- freight forwarder web-site contents and context framework with built-in e-business.