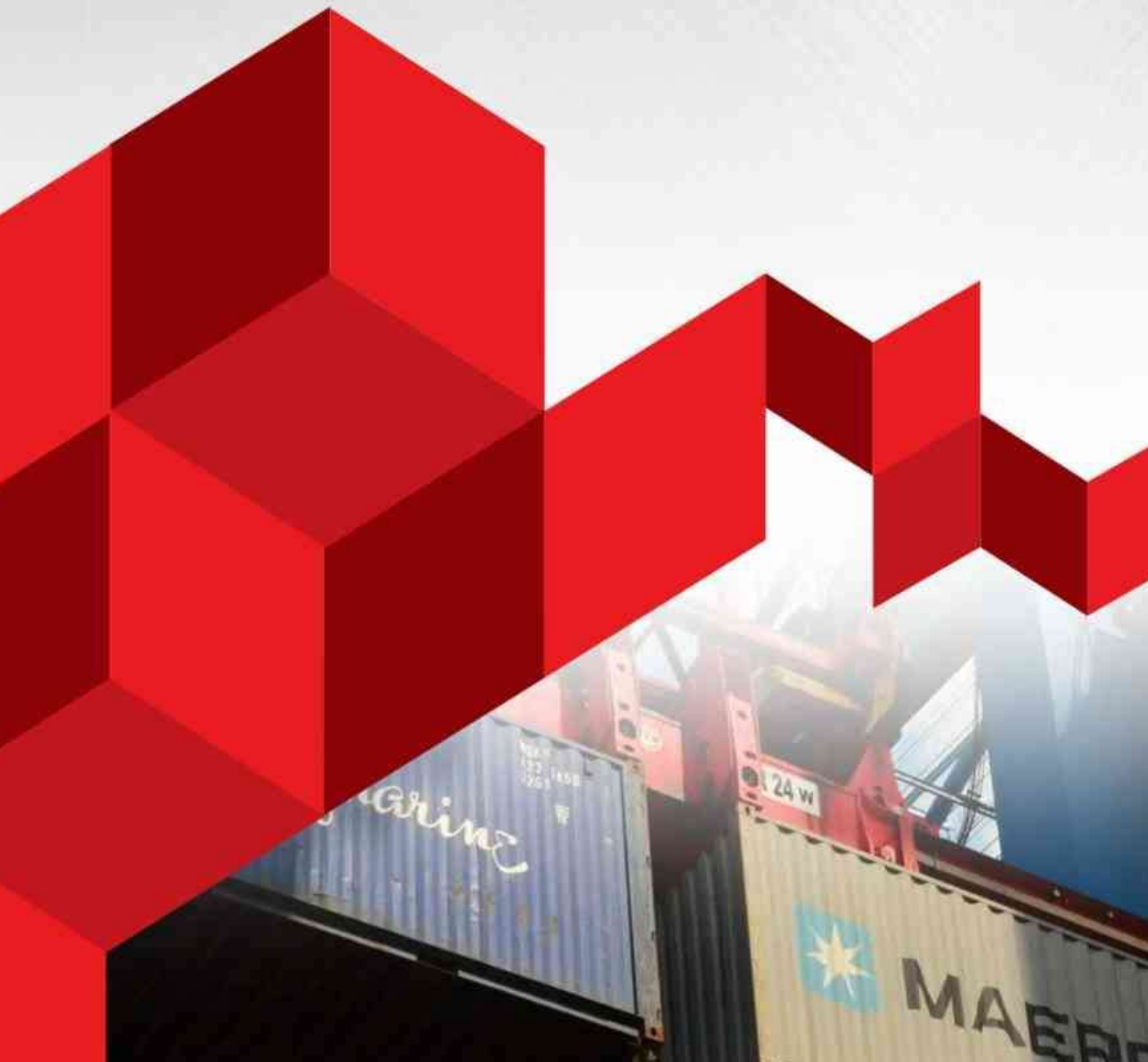


MACHINE TO MACHINE (M2M) & INTERNET OF THINGS (IOT)

PRODUCT **PORTFOLIO**



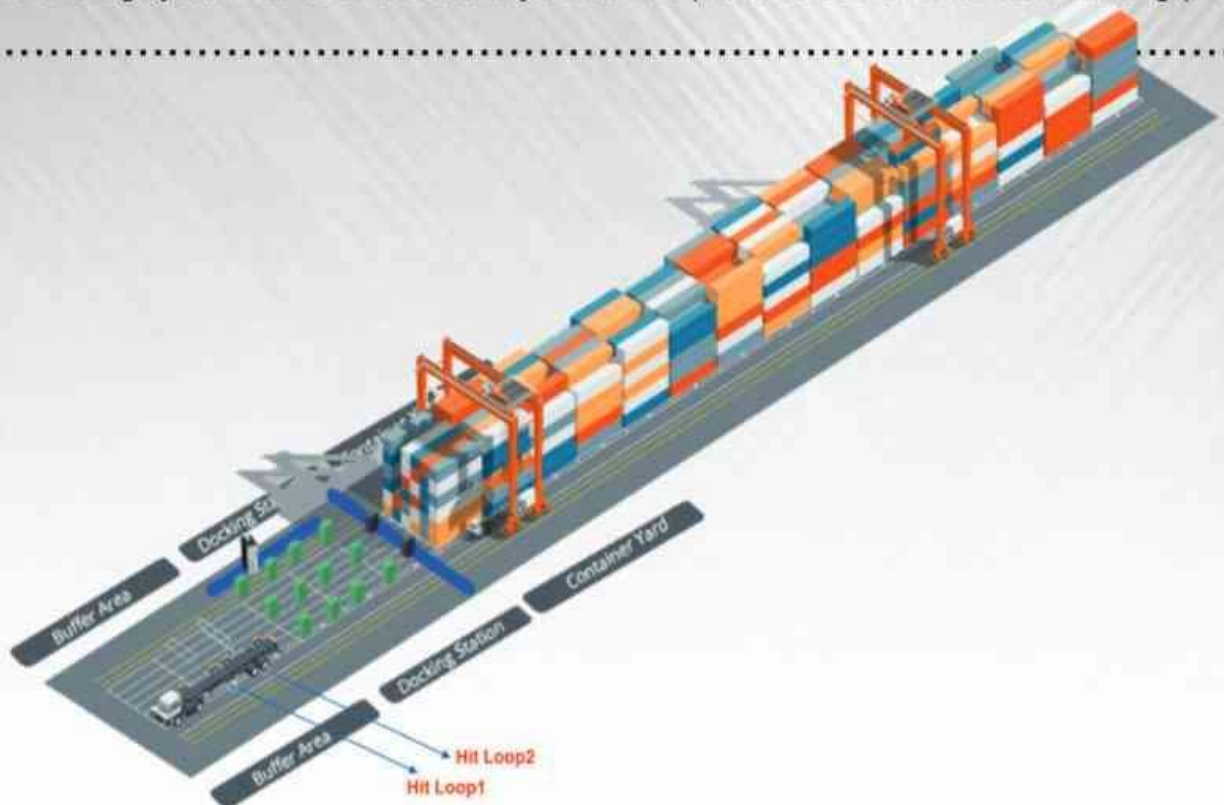


TERMINAL TELUK LAMONG DOCKING AUTOMATION

Combined Terminal Tractor (CTT) and Docking System.

CTT is an automatic truck used to transport containers to and from ships. CTT has sensors that can pick up signals quickly without a driver. The CTT truck chassis is hydraulic, making it easy to place the containers on the docking system. The docking system is a new facility at the port. Docking System is required to integrate Automatic CTT detection and identification system with Terminal Operating System (TOS). Implementing CTT Docking System in docking facilities make it easier and faster to place containers in the stacking yard.

Halotec Indonesia's docking system has been successfully built and implemented at Terminal Teluk Lamong (TTL).



1. OBSTACLE SENSOR ON THE DOCKING

There will be obstacle sensor put on the docking.

2. UNLOADING PROCESS

The CTT Operator get request to unload the containers on block 5. The unloading request will shown on the VMT screen. The CTT operator then maneuvered into docking block 5 using the Wire Guidance System mode. This Wire Guidance System guide the CTT Operator to get into optimal height position. The CTT operator sees CTT dashboard screen to make sure it is in a perfect position. If the screen shows you this position, the operator can put down the container (Put Down Container).

EXIT & CONFIRM PROCESS

In this system the CTT operator does not need to do manual confirmation. The sensor will ON when it detects an object on the docking. It indicates that Put Down Container process is done. When the CTT is getting out from docking area and hit the ground loop 1 and ground loop 2, the system will send confirmation to TOS.

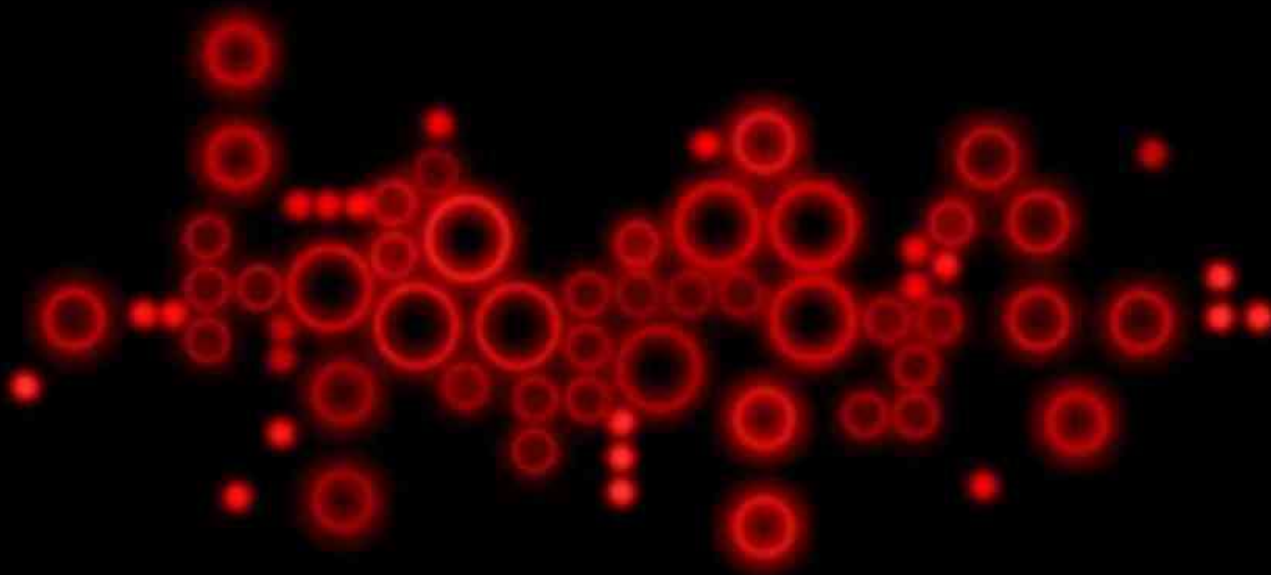
3. LOADING PROCESS

The CTT Operator get request to load the containers on block 5. The loading request will shown on the VMT screen. The CTT operator then maneuvered into docking block 5 using the Wire Guidance System mode. This Wire Guidance System guide the CTT Operator to get into optimal height position. The CTT operator sees CTT dashboard screen to make sure it is in a perfect position. If the screen shows you this position, the operator can pick up the containers (Pick Up Container).

EXIT & CONFIRM PROCESS

In this system the CTT operator does not need to do manual confirmation. The sensor will OFF when it detects there is no objects on the docking. It indicates that PICK UP CONTAINER process is done. When the CTT is getting out from docking area and hit the ground loop 1 and ground loop 2, the system will send confirmation to TOS.

IT SOLUTION FOR BETTER BUSINESS



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