COMPACT TALK

Simulator

Document version 1.0

WELAND SOLUTIONS

Contents

Introduction

To make it easier for a developer to integrate* against Compact talk there is a simulator included (found in the SDK folder). This makes it possible for the developer to write their own code and verify against the simulator that it works as expected, without having access to a real elevator. The simulator can be used without having Compact Talk installed on the computer.

**For more information about how to integrate against Compact Talk se the Integration manual.*

- Prerequisite before using the simulator
  - To use the simulator you will need the SDK folder which contains the files
  - .Net 4.7.1 needs to be installed before the installation of Compact Talk Simulator is started. Installation of these packages is not covered by this document.

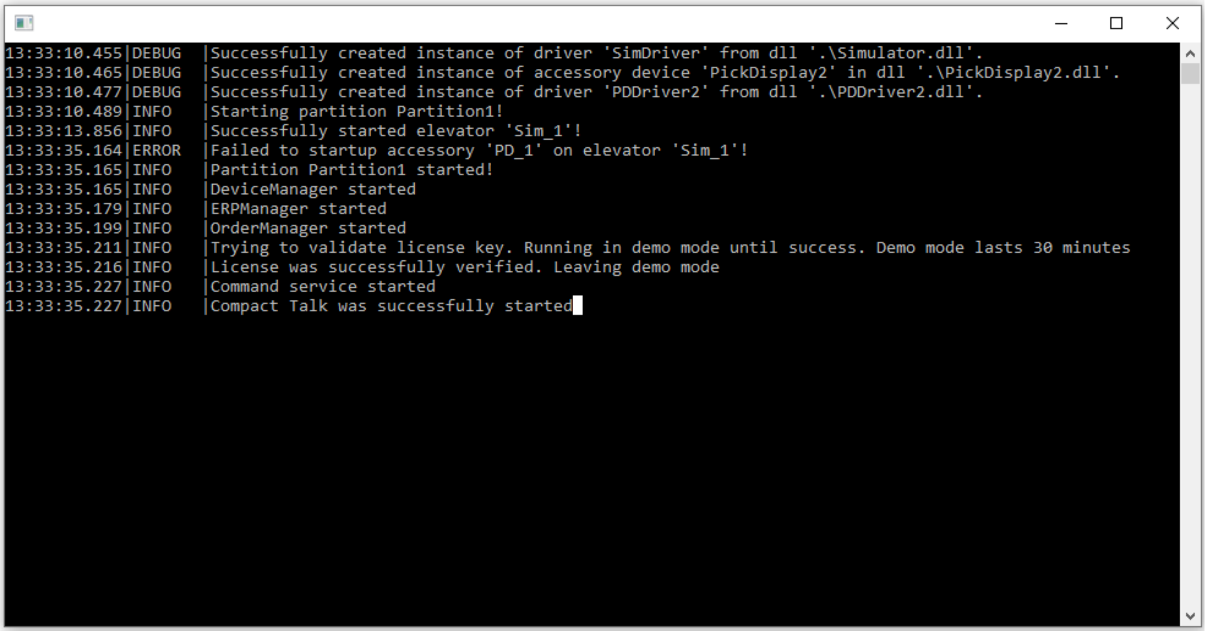
How to start the Simulator

Start the simulator by launching the application “Weland.CompactTalk.exe” in the SDK folder. This will start Compact Talk in a console mode. (Note! If you already have installed Compact talk on the computer you have to stop the Compact Talk service since you only can have one instance of Compact Talk running at the same time.). If you intend to use the simulator with Compact Talk backwardscompability you also need to install the Backwards Compability package.

** For more information about compabilty see separate documentation*

When the simulator is started you should have two windows running on your computer

The first one is the console that shows that compact talk is running. It should say that Compact Talk was successfully started. This means that Compact talk is up and running available to use.



```
13:33:10.455|DEBUG  |Successfully created instance of driver 'SimDriver' from dll '.\Simulator.dll'.
13:33:10.465|DEBUG  |Successfully created instance of accessory device 'PickDisplay2' in dll '.\PickDisplay2.dll'.
13:33:10.477|DEBUG  |Successfully created instance of driver 'PDDriver2' from dll '.\PDDriver2.dll'.
13:33:10.489|INFO   |Starting partition Partition1!
13:33:13.856|INFO   |Successfully started elevator 'Sim_1'!
13:33:35.164|ERROR  |Failed to startup accessory 'PD_1' on elevator 'Sim_1'!
13:33:35.165|INFO   |Partition Partition1 started!
13:33:35.165|INFO   |DeviceManager started
13:33:35.179|INFO   |ERPManager started
13:33:35.199|INFO   |OrderManager started
13:33:35.211|INFO   |Trying to validate license key. Running in demo mode until success. Demo mode lasts 30 minutes
13:33:35.216|INFO   |License was successfully verified. Leaving demo mode
13:33:35.227|INFO   |Command service started
13:33:35.227|INFO   |Compact Talk was successfully started
```

Figure 1 Console application running

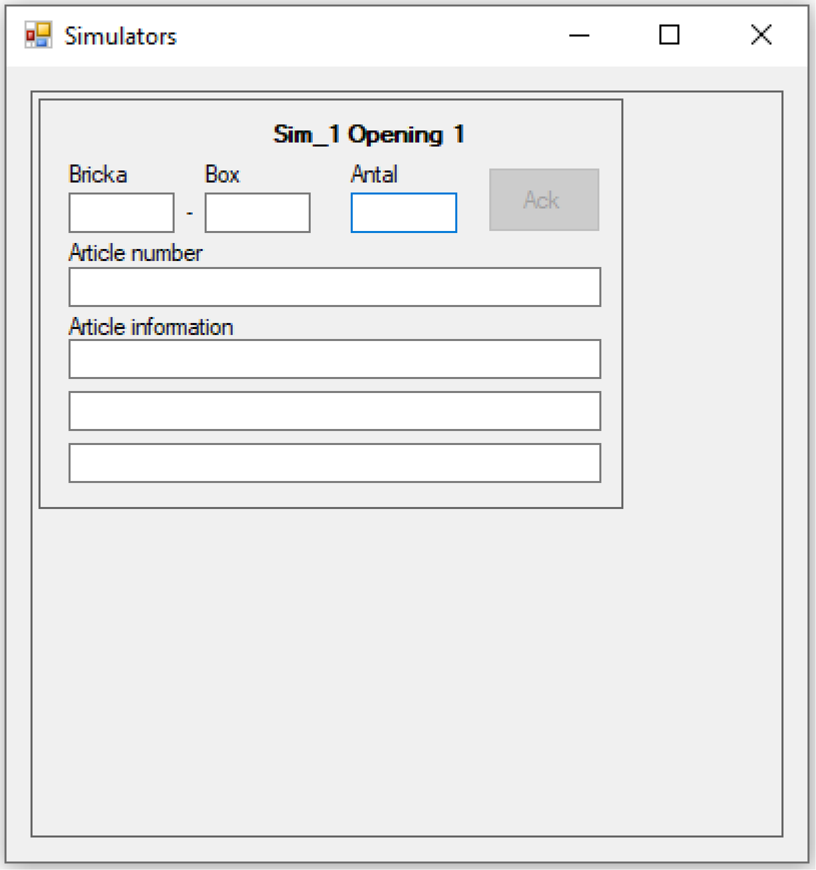


Figure 2 Simulated Operatorpanel

The second window illustrates the information that will be displayed at the panel attached to the elevator.

When a job is sent to the elevator information will be displayed in this window.

There is also a button called Ack which simulates the green button on the panel attached to the elevator.

Settings for the simulator

All the settings that can be made for the simulators are done in the configuration manager*, which can be started by executing ctconfig.exe (found in the same SDK folder).

Note: If using external acknowledge from the integrating systems towards Compact Talk, make sure to set the **AutoAcknowledge** to **false** (default is true).

**For more information about the configuration manager tool see separate documentation.*

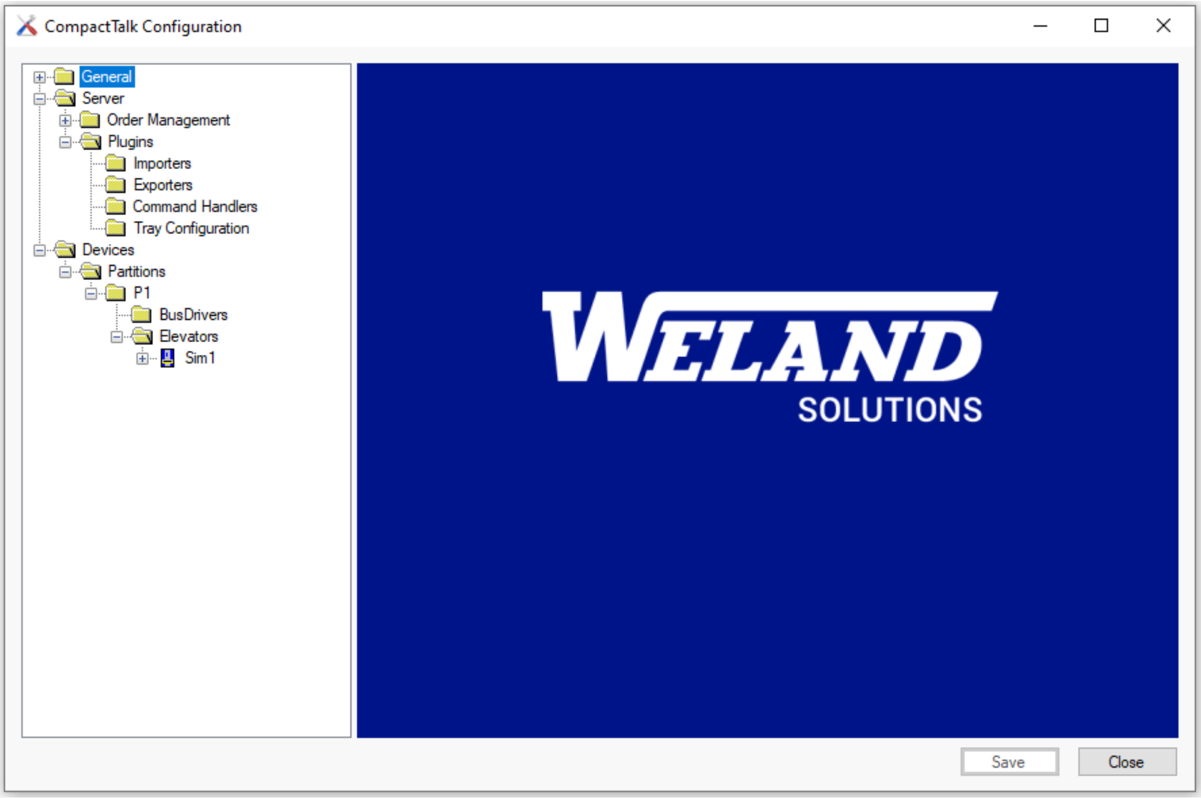
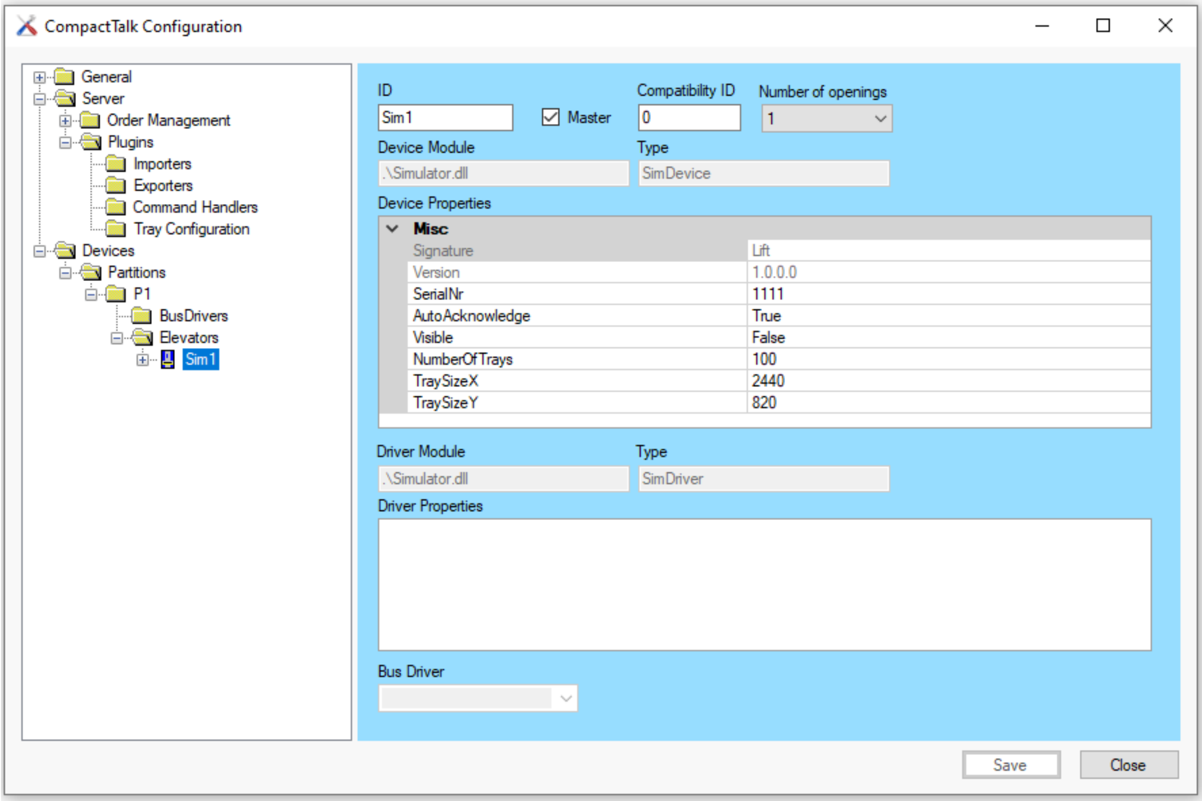


Figure 3 Compact Talk Configuration Tool

Parameters

All the parameters that can be changed for the simulators are done in the configuration manager tool. As standard the simulator is preconfigured with five elevators, each one of them configured with 100 hundred trays.



CompactTalk Configuration

- General
- Server
  - Order Management
  - Plugins
    - Importers
    - Exporters
    - Command Handlers
    - Tray Configuration
- Devices
  - Partitions
    - P1
      - BusDrivers
      - Elevators
        - Sim1

ID: Sim1 ☑ Master

Compatibility ID: 0

Number of openings: 1

Device Module: .\Simulator.dll

Type: SimDevice

Device Properties

Misc	
Signature	Lift
Version	1.0.0.0
SerialNr	1111
AutoAcknowledge	True
Visible	False
NumberOfTrays	100
TraySizeX	2440
TraySizeY	820

Driver Module: .\Simulator.dll

Type: SimDriver

Driver Properties

Bus Driver

Figure 4 Shows the configuration for the Sim_1 elevator

Properties

AutoAcknowledge

All the "jobs" are automatically acknowledged. This only works if the property Visible is set to false.

Tip!

To change the cycle time, change the Active Pollrate for the used partition, for instance to 1000ms

NumberOfTrays

Makes it possible to set how many tray's the elevator has Note! A real elevator has maximum limit for 250 trays.

SerialNr

Used for licensing purposes no reason to change.

TraySizeX and TraySizeY

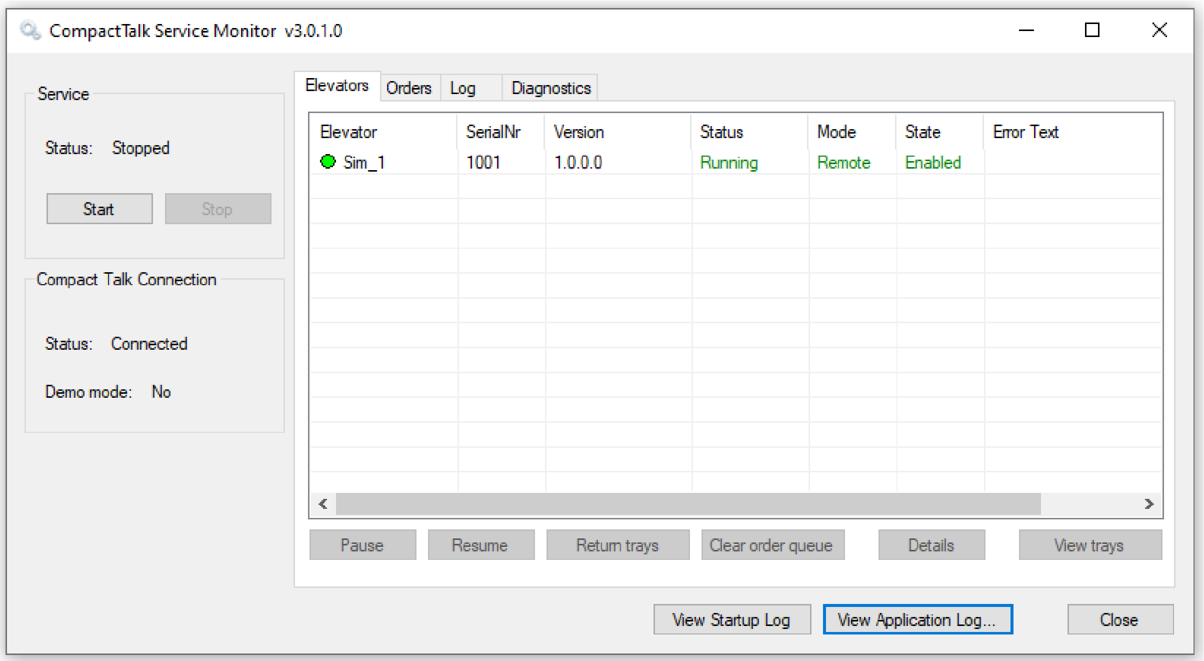
The size for the length (TraySizeX) and width (TraySizeY) for the tray in mm.

Visible

When set to True you will see the simulated operator panel, see figure Figure2.

How to verify if Compact Talk has received any jobs

When developing against Compact Talk there is a monitoring tool ctmonitor which can be used. (This one can be found in the SDK folder ctmonitor.exe.). By starting this application you can see the status of the elevators connected/configured in compact talk. (When using the preconfigured simulator there should be five elevators running).



Status: Stopped

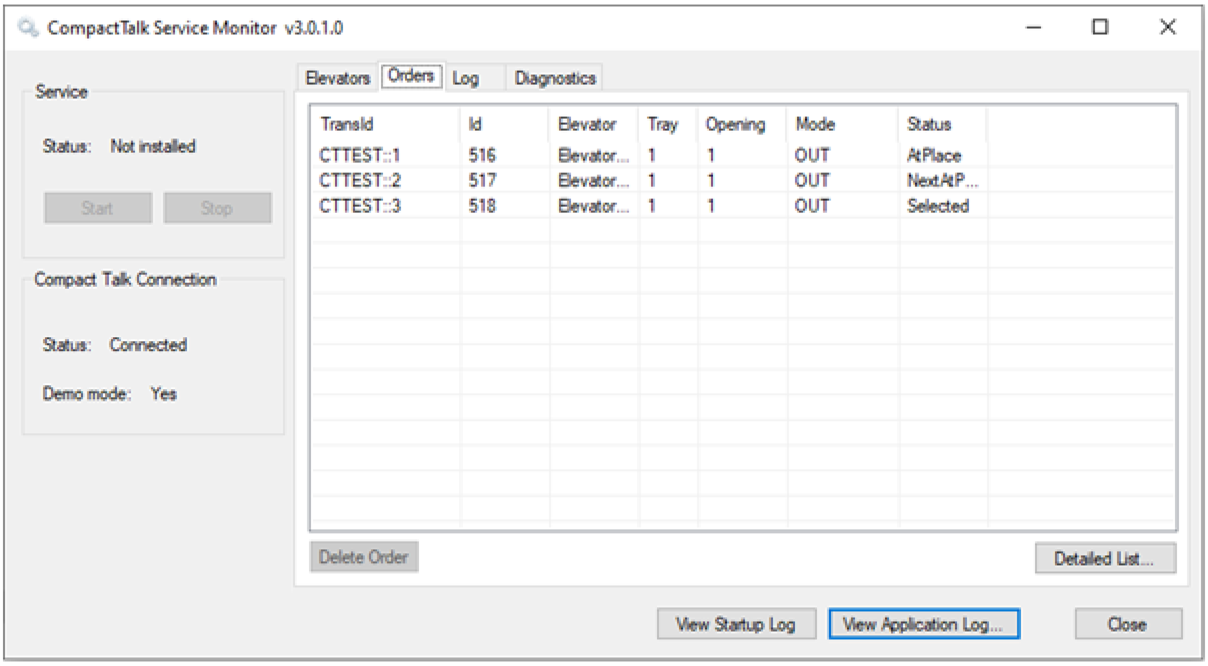
Status: Connected

Demo mode: No

Elevator	SerialNr	Version	Status	Mode	State	Error Text
● Sim_1	1001	1.0.0.0	Running	Remote	Enabled	

Figure 5 Compact Talk Service Monitor shows the status of the elevators

To see what orders Compact Talk has received click the tab Orders, here you can see what orders that are executed right now and what orders that are in the queue.



Status: Not installed

Status: Connected

Demo mode: Yes

TransId	Id	Elevator	Tray	Opening	Mode	Status
CTTEST::1	516	Elevator...	1	1	OUT	AtPlace
CTTEST::2	517	Elevator...	1	1	OUT	NextAtP...
CTTEST::3	518	Elevator...	1	1	OUT	Selected

Figure 6 Compact Talk Monitor, Tab Order shows the queue and the status for the orders that compact talk has received.

Limitation on Simulator

Compact Talk handles elevators that have more than one opening. But in the simulator only one opening are supported.