



ACCELLA

- managing the flows

Accella is a module-based software offering unique functionality for automation, operation and administration for petroleum terminals and oil distribution. Accella can be configured for individual terminals as well as network-based solutions for the central operation of regional, national and global terminal chains.

Based on in-depth knowledge of the value-chain, we offer scalable systems and services with documented increase of efficiency and reduced cost of operation. In today's market, where the trends show tough margins and hard competition, it is essential for management to have web-based access to real-time information from Accella.

Accella//SEC – Security, Admission & Monitoring

FEATURES

- Improved Personnel security
- Improved Product security
- Individual entrance permission
- Easy to lock out vehicles or persons
- Configurable time groups

General

The Accella//SEC module provides authorization, authentication and auditing functions.

Admission control

If equipped with identification facilities, all entrance and exit gate traffic may be monitored and controlled by Accella//SEC. Identification methods include:

- ID card only
- Password only (entered via keypad)
- ID card and password

The ID card may be configured with either identification of the tanker (truck) or the driver.

Vehicle – Driver control

If both driver identification and vehicle identification are used, Accella may link vehicles and drivers, i.e. for each driver, one (or more) vehicle must be connected. Typically, the vehicle is identified by an ID card and the driver is identified by entering a password.

Vehicle – Product control

Accella may also link vehicles and products, i.e. each vehicle is configured for certain products only. When a vehicle is identified on an ID reader at a truck loading rack, only the allowable products are presented on the driver's terminal.

Time groups

Time groups, which are unlimited and configurable in Accella, are the time periods when the drivers or vehicles are allowed to enter the depot and load product. Drivers or vehicles may be individually allocated to a time group.

Monitoring functions

The monitoring feature in Accella has two basic functions:

- **Depot activity:** Monitoring persons/tankers from arrival at the depot to exit from the depot.
- **Loading rack activity:** Monitoring the driver's terminal at each loading rack for "continuous" activity.

The Monitoring time/period is configurable.

Accella//SEC - Security, Admission & Monitoring

Monitoring depot activity

The monitoring function is individually configurable by either tanker or person.

For loading approval at the rack, a person or tanker must first be registered as "IN", i.e. passed through the arrival gate.

Monitoring alarms are shown as Alarm symbols (red bells) in the respective Accella screens. Alarms also trigger an output from the PLC to an audible alarm. If the alarm is not reset within a certain time period (ex. 3 min.), a new alarm is triggered. This alarm could, for instance, automatically generate a call to a security company.

Monitoring alarms can be reset in two ways:

- Click on the Reset button in Accella
- Acknowledge the alarm on any driver's terminal (at loading rack or gates)

Monitoring loading rack activity

Loading rack activity is monitored by the PLC. When no input is registered from the driver's terminal and no loading activity occurs within the monitoring period, both vehicle and driver will automatically be logged out. Within the monitoring time, an audible alarm is also triggered.

The following figures show some of the monitoring function screens in Accella:

ID nr.	Kommentar	Reg. nummer	Tidspunkt IN	Tidspunkt U	Tidspunkt siste aksj	Tidspunkt Alar	Inn/Ut status	Alarm stat	Maksimalt lastevol [t]	URIlastevol [t]
2542	Torned Woldstad	KT-52779	07.02.2003 10	07.02.2003 0	07.02.2003 10:05:00		P8			0
2611	A. Reek Transport	KF-68776	21.01.2003 12	21.01.2003 1	21.01.2003 12:51:30		Ute	×	12345679	0
2103	Børn Mehren	KF-66016	13.02.2003 11	14.02.2003 1	14.02.2003 14:33:51	07.02.2003 12:5	Ute			0
2111	Juul Fuglerud	KF-79670	21.01.2003 13	21.01.2003 1	21.01.2003 13:33:59		Ute			0
2109	Sitan Portaa	LH-59450	19.03.2003 12	15.01.2003 1	19.03.2003 12:34:19		P8			0
2519	Statol Service Høf	LH-73349	30.12.2002 14	30.12.2002 1	30.12.2002 14:32:40		Ute			0
2101	Jules Petrolum Se	KF-14650	20.01.2003 11	20.01.2003 1	13.02.2003 11:59:00		Ute			0
3402	Sigdal Jern og Byg	DE-49004	21.01.2003 08	21.01.2003 0	21.01.2003 08:16:17		Ute			0
1103	Roar Lund AS	LH-92074	21.01.2003 16	21.01.2003 1	21.01.2003 16:11:44		Ute			0
1105	LHJ objeervice AS	KF-59223	21.01.2003 13	21.01.2003 1	17.03.2003 15:51:35		Ute			0
1109	Roar Lund AS	KF-56396	17.01.2003 08	17.01.2003 0	17.01.2003 08:56:26		Ute			0
1106	Roar Lund AS	D3-57094	21.01.2003 12	21.01.2003 1	21.01.2003 12:57:16		Ute			0
6122	Alf Wærdeud	EO-99422	21.01.2003 09	21.01.2003 0	21.01.2003 09:51:47		Ute			0
2105	Esso Depott. Ofte		17.03.2003 16	15.01.2003 1	17.03.2003 16:10:50		Inne			0
6112	Taralud Transport	EO-22908	02.12.2002 23	02.12.2002 2	02.12.2002 23:26:59		Ute			0
6127	Martinsen Transpo	IC-88020	09.12.2002 10	09.12.2002 1	09.12.2002 11:09:15		Ute			0
6128	Martinsen Transpo	JU 74179	05.11.2002 22	05.11.2002 2	05.11.2002 22:41:49		Ute			0
2488	Deputvoll For Skat		14.10.2002 12	14.10.2002 1	14.10.2002 12:31:18		Ute			0
6123	Taralud Transport	EO-18840	25.10.2002 10	25.10.2002 1	25.10.2002 10:51:12		Ute			0
1102	Roar Lund AS	KF-29485	21.01.2003 13	21.01.2003 1	26.08.2003 10:53:07		Inne			0
6103	Taralud Transport	EO 14278	17.10.2002 12	17.10.2002 1	17.10.2002 12:52:15		Ute			0
2531	Torned Woldstad	KT-41995	27.09.2001 10	27.09.2001 1			Inne			0
2108	Asker Brensel	EH-73644	13.02.2003 10	13.02.2003 1	13.02.2003 10:46:23		Ute			0
6115	Taralud Transport	EO 29559	15.12.2002 21	15.12.2002 2	15.12.2002 22:23:24		Ute			0
6116	Taralud Transport	EO 29559	10.11.2002 19	10.11.2002 1	10.11.2002 19:26:52		Ute			0
2637	Lof Vanebo J Tran	KF-92325	21.01.2003 11	21.01.2003 1	21.01.2003 11:21:40		Ute			0
6119	Thorstad Transp.	OH-51500	02.09.2001 20	02.09.2001 2			Inne			0
6102	Thorstad Transp.	D3-63004	01.10.2001 12	01.10.2001 1			Inne			0
6121	Thorstad Transp.	HL-9912	01.10.2001 13	01.10.2001 1			Inne			0
3530	Torned Woldstad	KT-59628	07.11.2002 07	07.11.2002 0	07.11.2002 07:34:44		Ute			0

Figure 1: Screen "Vehicle status"

(default) WatchDog

	[Minutes]	[SMS Phone no / E-MAIL]	[Tid for aktivert funksjon]	[Tidspunkt for siste alarm]	
PLC Watchdog timeout	100		0-18	24.03.2003 12:42:42	
Accella - Tank watchdog timeout	120		0-24		
Accella - Weight watchdog timeout	29		0-18		
Person watchdog timeout security in/out	45		Stengt	19.03.2003 10:35:07	
Person watchdog timeout terminal activity	1		Stengt		
Vehicle watchdog timeout security in/out	45	Fullveie	Stengt	19.03.2003 10:35:14	
Vehicle watchdog timeout terminal activity	10		Stengt		
Minimum time between PLC timeout alarms	10				
Minimum time between TANK timeout alarms					
Minimum time between WEIGHT timeout alarms					
Minimum time between security timeout alarms					
Reset security alarms by	<input type="text" value="1018, Test"/> <input type="text" value="07.05.2003 13:19:05"/>		<input type="button" value="RESET"/>		

Figure 2: Screen "Watchdog"