Counting with AEOS

There are various reasons to want to know how many people are inside a building or how many cars are entering and leaving a parking lot. This information can be useful for space planning, management objectives, security measures or facility reasons. With Nedap's access control system AEOS counting these things has never been easier.

Count Manager

With the AEOS Count Manager, it is possible to count authorized movements by so called 'carriers'. Carriers are persons or vehicles that can be identified in AEOS with a variety of identifiers, such as badges or license plates. The Count Manager can be used to keep track of the number of times carriers enter and leave a certain space. It can also set limiting values in order to determine if the counted movements are exceeding the preset limit, and activate logical outputs on the basis of that.

Groups and zones

Many companies have to deal with the problem of insufficient parking spaces at the office building. With the Count Manager it is possible to distribute the available parking spaces in a structured way among the people who want to park their car. To do this, the people are placed in groups and the parking lot is defined as a zone. This can be done easily via the AEOS user interface.
The Count Manager counts the number of entries for each group in a zone to ensure the optimal occupancy of the available parking spaces. See the example below.

Suppose two companies share one parking lot. Each company has 15 employees, but the parking lot only has 15 parking spaces.

The setting could be as follows:
Zone: max. 15 parking spaces
Group A: max. 8 people/ cars
Group B: max. 12 people/ cars

This results in the following diagram:

Already entered		Total	Still allowed to enter?	
Group A	**Group B**		**Group A**	**Group B**
8	4	12	no	yes (max. 3)
7	8	15	no	no
3	11	14	yes	yes
4	11	15	no	no

The same principle can be used to administer the parking spaces of tenants in a certain area. By defining zones and groups, the Count Manager makes sure that a tenant does not use more parking spaces than he has been authorized for.

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Visitors

Companies usually want to avoid that their visitors can't get a parking space. The problem is that visitors normally don't have a badge that will give them access to the parking lot. This can be solved effortlessly, by creating a default group for visitors. The guard or receptionist can manually allow access to the visitor and decide to which group he should be assigned. In many other systems, this will confuse the ongoing counting, because the visitor is granted access even though he is not in the system. But by assigning the visitor to the default group in AEOS, such confusion will not happen; the entry will be counted in that group and not mix up the counting in other groups or zones.

Automatic reset

It is unavoidable that cars sometimes tailgate the car in front of them at the barrier. When that happens, the second car can pass the barrier unnoticed, or in other words, uncounted. This will frustrate the count. For that reason there's an option to automatically reset the status of the Count Manager to its initial state at any desired moment. The best time to do that is when only a few carriers are expected to enter or leave the zone, probably at night. It guarantees that counting starts new again from that moment on, so there are no errors due to unauthorized movements.

Management information

The costs of parking spaces can be very high, especially if companies have to rent the spaces from a third party. Therefore it is essential that the occupancy rates of parking spaces are optimal. With the data gathered in AEOS, useful information for the management of parking lots can be easily generated. The carriers counted in the parking can be seen in the AEOS user interface, no matter if one or multiple Count Managers are being used. Based on that, events can be generated. If the parking garage is almost full, for example, it is possible to warn the manager about this by e-mail. That can be useful to help him decide if he has to turn on signposting to the next parking lot. He can also print a report on the occupancy rate based on the information in AEOS, to find out if parking spaces should be distributed differently. Some companies have even developed carpool constructions to avoid a surplus of vehicles at the office. To support these constructions, AEOS will be further developed to manage the different authorizations.

People Management

The Count Manager can also be used for a completely different purpose. That is counting the amount of people in a specific area. Many locations have to deal with security regulations about the allowed number of people in buildings or a certain area thereof. This is often required to avoid potentially dangerous situations. By counting the amount of people entering an area, it is possible to block entry to that area when its capacity is about to be exceeded and to generate a corresponding event. At the same time, The Count Manager can be used to count the amount of first aid assistants present in the area. Most regulations require a minimum amount of first aid assistants to be available per a certain number of people. The Count Manager can generate an event in AEOS informing the system user that not enough first aid assistants are available.

The Count Manager is an effective way to count authorized movements in AEOS. It can generate events and alert people to take action if necessary.

Features and Benefits
- Controlled assignment of available parking spaces
- Default group for visitors
- Automatic reset
- Generation of events and SMS/ e-mail alerts
- Total integration into AEOS
- Count Manager (necessary for each zone and each group)   product number: 9809430