



ACCESS CONTROL TEST PROCEDURE



Access Control Test procedure

Case study: IT company

The company consists of 24 employees (accounts), distributed on four floors: ground, first, second and third floor. Only one account has full access (Manager), other 23 employees have differently defined access times and rules, which will be explained in more detail later in text. In this example, there are 9 employees with access to Sales and Accounting, 2 employees with IT Center and Server Access, 3 employees with IT Center Access, 5 employees with Administration office access (Management), 2 Maintenance workers and 2 Guards.

Different zones are located at different floors. Each zone is created according to door access, therefore 8 doors equals 8 zones, which is shown in Figure 1. The company will be arranged according to Figure 1, Figure 2 and Figure 3.

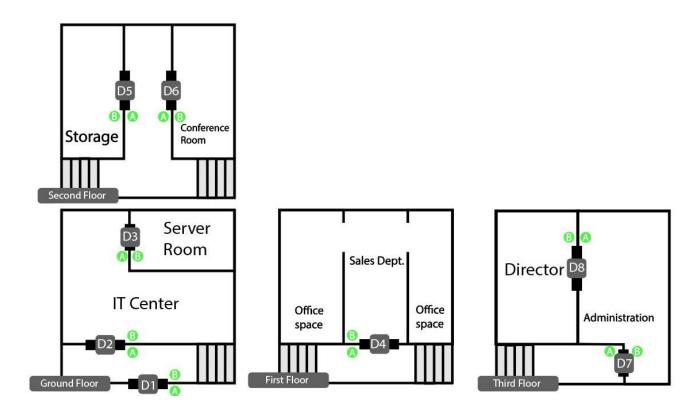


Figure 1 Zones

Unlock Type



DOORS IN ZONE Door Number 08:00 - 18:00 Mon - Fri 08:00 - 18:00 IT + Server Room 08:00 - 18:00 Mon - Fri Sales Dept. 08:00 - 18:00 Mon - Fri 08:00 - 18:00 Mon - Fri Conference Access 12:30 - 15:00 Mon - Fri

08:00 - 18:00

00:00 - 23:59

Mon - Fri

Mon - Fri

Monday to Friday Access Rules for Company Employees

Figure 2 Access rules and times (Monday to Friday)

Management

Full Access

Monday to Sunday Access Rules for Company Employees



Figure 3 Access rules and times (Monday to Sunday)

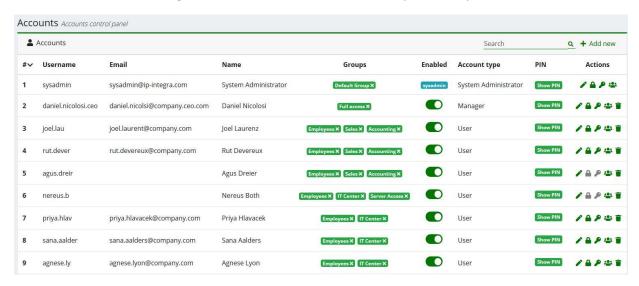


Figure 4 Accounts

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After we have created all accounts, we divide them into groups based on the job position (i.e. if Joel Laurent is an accountant and a salesperson, he is included in both the Sales and Accounting Groups).

All the employees can be edited in the Employees group.

Group Groups control panel			
Search		+ Add new	
#	Name	Accounts	Actions
1	Default Group	sysadmin X	/ ≥+
2	Full access	daniel.nicolosi.ceo X	/ 4· i
3	Employees	joel.lau X rut.dever X agus.dreir X nereus.b X priya.hlav X sana.aalder X agnese.ly X oly.quin X ruben.leroy X avi.mosch X tamara.filip X emese.ber X dimitri.stef X justina.sanchez X alberta.iliev X anzo.stasi X rama.ho X danny.shea X stephen.mcafee X cari.salvatici X tamsyn.simonson X mehrab.kir X judith.te X	<i>></i>
4	Sales	joel.lau X rut.dever X agus.dreir X justina.sanchez X alberta.iliev X anzo.stasi X rama.ho X danny.shea X stephen.mcafee X	/ ≟ + ī
5	Accounting	joel.lau X rut.dever X agus.dreir X justina.sanchez X alberta.iliev X anzo.stasi X rama.ho X danny.shea X stephen.mcafee X	/ ≟ + ī
6	IT Center	nereus.b X priya.hlav X sana.aalder X agnese.ly X oly.quin X	/ ≟ + ī
7	Server Access	nereus.b X oly.quin X	/ ≟ + ī
8	Management	ruben.leroy X avi.mosch X tamara.filip X emese.ber X dimitri.stef X	/ ≟ + ī
9	Maintenance	cari.salvatici X tamsyn.simonson X	/ 2 + i
10	Guards	judith.te X mehrab.kir X	/ ♣+ ī

Figure 5 Groups

In the device menu we change the name of each door in order to better describe it (i.e. if it is the door to the server room, we call it the Server Room).



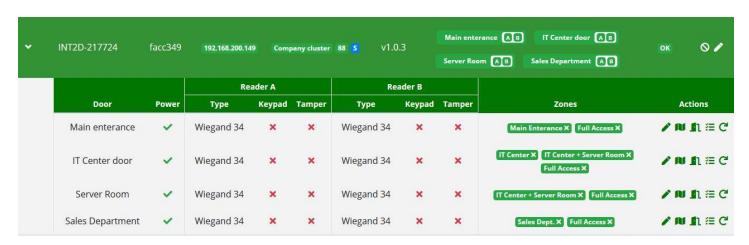


Figure 6 Devices and doors



Figure 7 Devices and their doors

Now we can configure the zones. For this scenario, we define every access point as its own zone (i.e. the door for Sales Department is in the Sales Dept. zone).



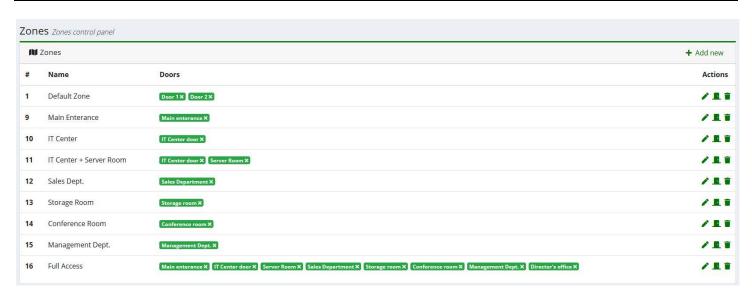


Figure 8 Zones

Now we must create Access Time for every group, since not all employees can enter every room the at any time (i.e. employees have access to certain doors from 08:00 until 18:00, while guards for example have access from 18:15 until 23:59).

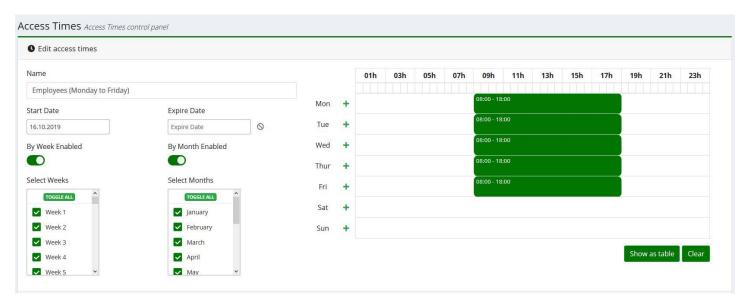


Figure 9 Employees Access Time



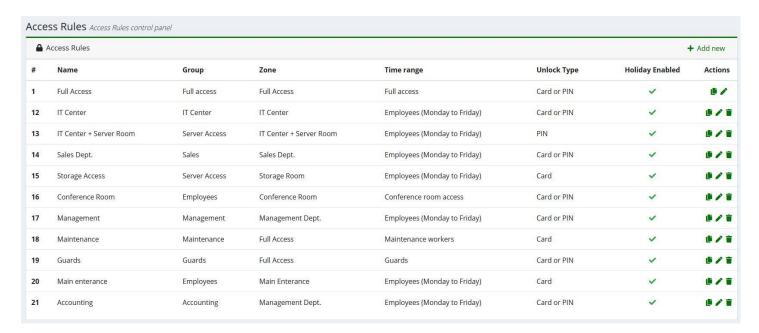


Figure 10 Access Rules

There are in total 10 rules, according to the room to which employees must have access to. In case of the Server room access, the employees must have access to the doors of IT Center to get to the Server room, which can be seen from Figure 1.