

Hotel International Iasi

1 The subnetworks analyses

- Number of the subnetworks: 5
- Future subnetworks: 8
- Today's subnetwork has a maximum of 30 hosts
- The future subnetwork will have a number of 30 hosts
- Network type: C

2 Subnetworks

- I. Video cameras: 14
- II. Ground floor computers: 9
- III. Single camera: 1 computer, one network hub
- IV. Double camera: 1 computer, one network hub
- V. Suite: 2 computers, two network hub's
- VI. Camera surveillance: 2 computers

3 Subnetwork address

192.168.0.0 - C class network

$$2^S \geq 7 \Rightarrow S = 3$$

$$2^H - 2 \geq 30 \Rightarrow H = 5$$

4 Subnetwork mask\

CDIR: 30

255.255.255.252

Binary: 11111111.11111111.11111111.11111100

Sub- network	ID Sub- network	ID Subnetwork	Subnetwork Mask	Interval Host	Broadcast
#0	000	192.168.0.0	255.255.255.252	192.168.0.1 - 192.168.0.2	192.168.0.3
#1	001	192.168.0.4	255.255.255.253	192.168.0.5 - 192.168.0.6	192.168.0.7
#2	010	192.168.0.8	255.255.255.254	192.168.0.9 - 192.168.0.10	192.168.0.11
#3	100	192.168.0.12	255.255.255.255	192.168.0.13 - 192.168.0.14	192.168.0.15
#4	110	192.168.0.16	255.255.255.256	192.168.0.17 - 192.168.0.18	192.168.0.19
#5	011	192.168.0.20	255.255.255.257	192.168.0.21 - 192.168.0.22	192.168.0.23

#6	111	192.168.0.24	255.255.255.258	192.168.0.25 - 192.168.0.26	192.168.0.27
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