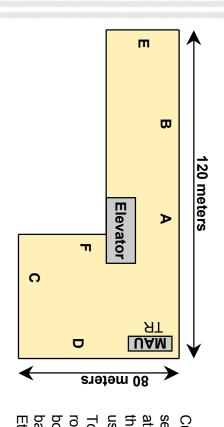


Site survey (hands-on)

## Configuration 1

# A financial institution (part 1 - Headquarters)



ne branches. The branches are connected to the headquarters	Justomer is a bank with a multi-story headquarters building and everal branches. A support department is present and operational theadquarters. They install and support pre-configured LANs in the branches. The branches are connected to the headquarters sing X.25 over leased lines (T1).
oing VOF over Incomed lines (T4)	sing X.25 over leased lines (T1).
	t headquarters. They install and support pre-configured LANs in
t headquarters. They install and support pre-configured LANs in	everal branches. A support department is present and operationa
everal branches. A support department is present and operational theadquarters. They install and support pre-configured LANs in	bustomer is a bank with a multi-story headquarters building and

backbone (with a MAU on each floor) and the branches have To save cost for frequent floor plan changes, and to support a fast roll out in the branches, the bank wants to install wireless LANs in Ethernet backbones. both branches and headquarters. Headquarters has a Token Ring

	No Communications	F	В
B = possibility for WP	Acceptable	Е	В
	Poor	Е	D
	Acceptable	F	D
D = possibility for WP	Acceptable	С	D
	Acceptable	В	А
	Poor	Е	A
	Acceptable	F	A
No Communications A = possibility for WP	No Communications	С	A
Comments	Link Quality	Position - 1 Position - 2	Position - 1

### Task:

Design and propose a network solution for HQ for two scenarios:

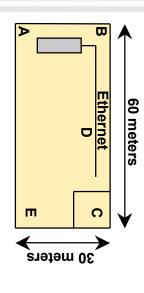
- 1. Only wireless stationary users
- 2. Both wireless stationary and mobile users

- 1. Wireless network design (location of the equipment)
- 2. Required components
- 3. Risks / issues



## Configuration 1

# A financial institution (part 2 - The branches)



Customer is a bank with a multi-story headquarters building and two branches. A support department is present and operational at headquarters. They install and support pre-configured LANs in the branches. The branches are connected to the headquarters using X.25 over leased lines (T1).

To save cost for frequent floor plan changes, and to support a fast roll out in the branches, the bank wants to install wireless LANs in both branches and headquarters. Headquarters has a Token Ring backbone (with a MAU on each floor) and the branches have Ethernet backbones.

В	D	D	Α	Α	Α	Position - 1 Position - 2
т	т	С	В	Е	С	Position - 2
Poor	Acceptable	Acceptable	Acceptable	Acceptable	Poor	Link Quality
B = possibility for WP		D = possibility for WP			A = possibility for WP	Comments

### Task:

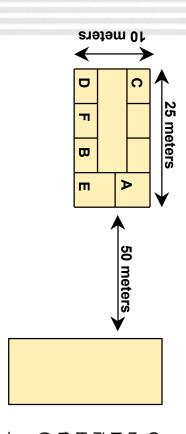
Design and propose a network solution for HQ for two scenarios:

- Only wireless stationary users
- 2. Both wireless stationary and mobile users

- 1. Wireless network design (location of the equipment)
- 2. Required components
- 3. Risks / issues







B	D E	D	D C	АВ	A E	A	A C	Position - 1 Position - 2
Good	Acceptable	Good	Acceptable	Acceptable	Good	Acceptable	Acceptable	· 2 Link Quality
			D = possibility for WP				A = possibility for WP	Comments

Customer is an attorney firm holding office in two buildings. The main building (original) has an Ethernet installation (with a Windows NT server). A new building across the street has no networking infrastructure and will host 10 people (working in a work group) to be networked. The customer wants to install wireless between the two buildings (saving cost for a leased link) and in the new building (to save cost on installing cable and to have a fast roll out).

### Task:

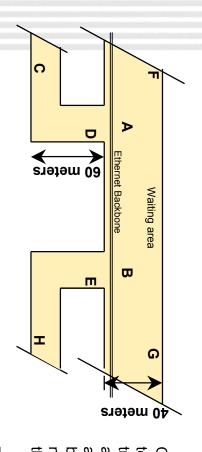
Design and propose a network solution for :

- 1. The new office
- 2. The connection between the two offices

- 1. Wireless network design (location of the equipment)
- 2. Required components
- 3. Risks / issues



## **Configuration 3**An airport



D	Ш	П	Ш	В	В	В	D	D	D	Α	А	Α	А	Position - 1
П	П	G	I	F	G	I	G	П	С	В	G	F	C	Position - 1 Position - 2
Poor	Poor	Acceptable	Acceptable	Poor	Acceptable	Poor	Poor	Acceptable	Acceptable	Acceptable	Poor	Acceptable	Poor	Link Quality
			E = possibility for WP			B = possibility for WP			D = possibility for WP				A = possibility for WP	Comments

Customer is a service provider on an airport. Space is rented on the terminals. The service provider provides wireless access to travelers with notebook computers to allow them access to Internet and email. Network adapters are provided on rental basis. The airport authority (owner of the terminals) offers an Ethernet backbone that needs to be shared with other service providers. A network server with access facilities to remote hosts is connected to the Ethernet backbone.

### Task:

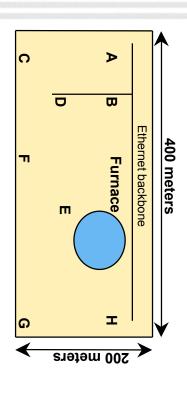
- Design and propose a network solution for this service provider to give maximum coverage and bandwidth to its travelers. Area to cover includes the waiting area, and the first portions of the "fingers" that go the the gates.
- 2. Determine a process to protect theft of the network adapters
- Determine at least three useful applications that the service provider could offer to its customers

- Wireless network design (location of the equipment)
- 2. Required components
- 3. Risks / issues

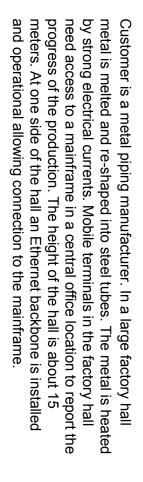


## Configuration 3

### A steel plant



D	ш	Ш	ш	В	В	В	D	D	D	Α	Α	Α	Α	Position - 1 Position - 2
П	П	G	I	П	G	ェ	G	П	С	В	G	D	С	osition - 2
Poor	Acceptable	Acceptable	Acceptable	Poor	Poor	Poor	Poor	Acceptable	Acceptable	Acceptable	Poor	Acceptable	Poor	Link Quality
			E = possibility for WP			B = possibility for WP			D = possibility for WP				A = possibility for WP	Comments



### Task:

Design and propose a network solution for this customer and observing the restrictions that the environment introduce

- 1. Wireless network design (location of the equipment)
- 2. Required components
- 3. Risks / issues

