



tim GIS

## Programsko rješenje administracije LAN, MAN i WAN mreža

# Sažetak prezentacije



- o tvrtci
- računalne mreže
- TIMgis novosti

# O tvrtci

- projektiranje i implementacija pasivnih telekomunikacijskih mreža
- distribucija pasivne telekomunikacijske opreme (Brand Rex, Telegärtner, Rittal, Rehau)
- razvoj poslovnih programskih rješenja

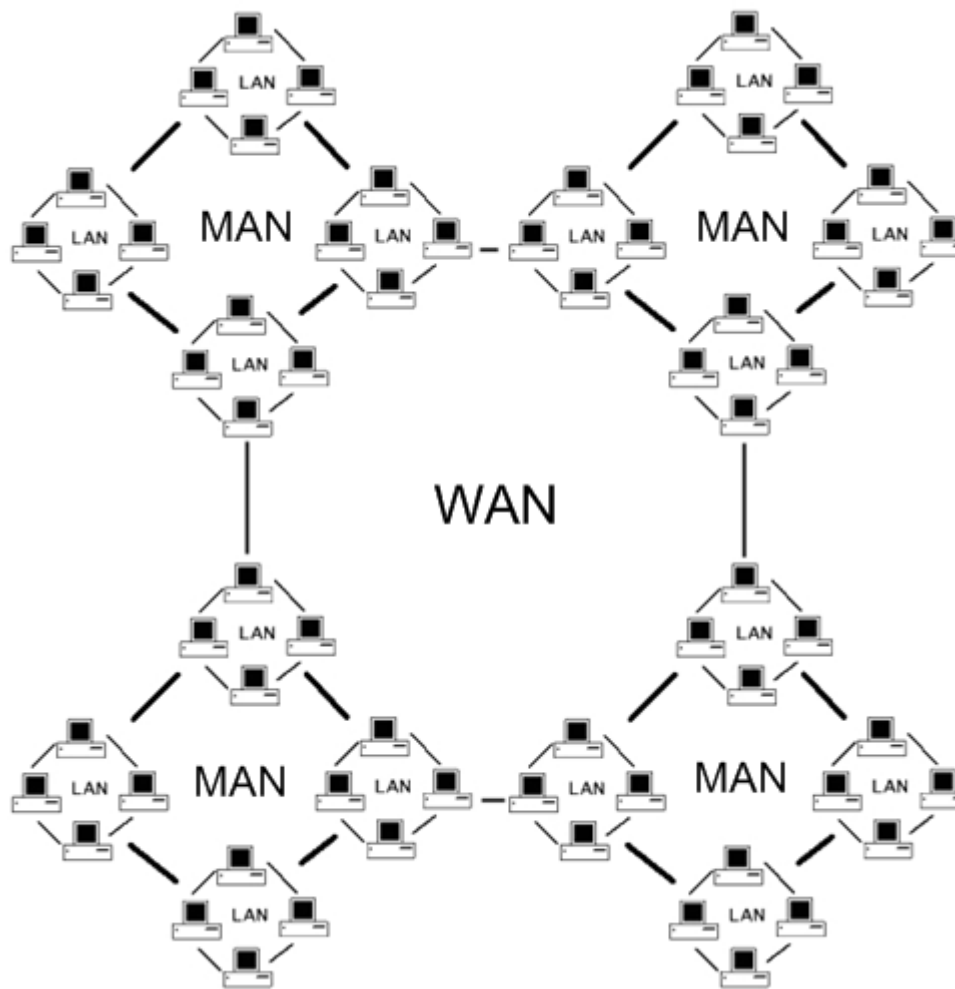


# Računalne mreže



- LAN (Local Area Network)
- MAN (Metropolitan Area Network)
- WAN (Wide Area Network)

# Računalne mreže

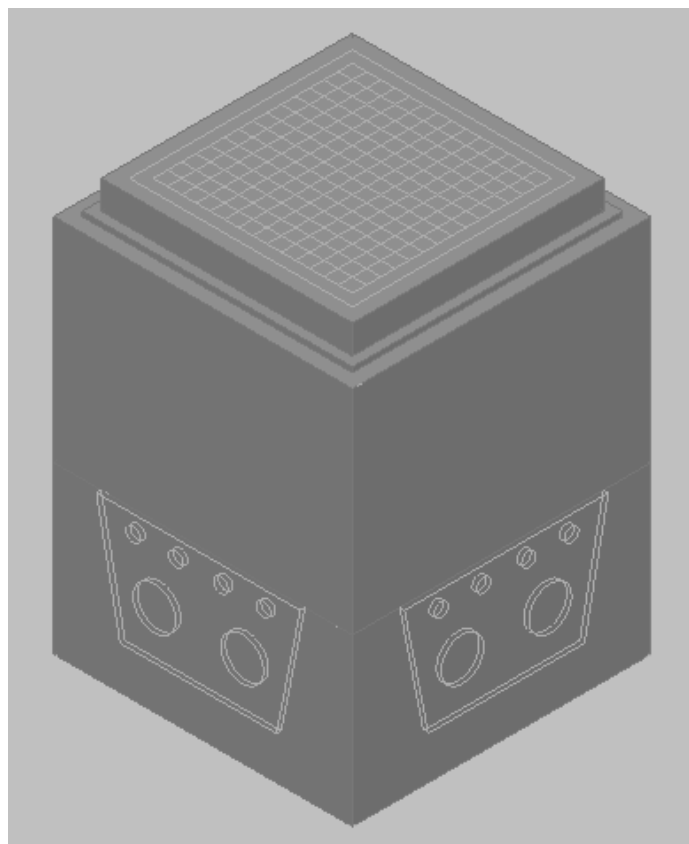


# Računalne mreže – WAN/MAN

- **Zdenci**



- Cijevi povezuju zdence i objekte



- Cijevi





- Kabeli

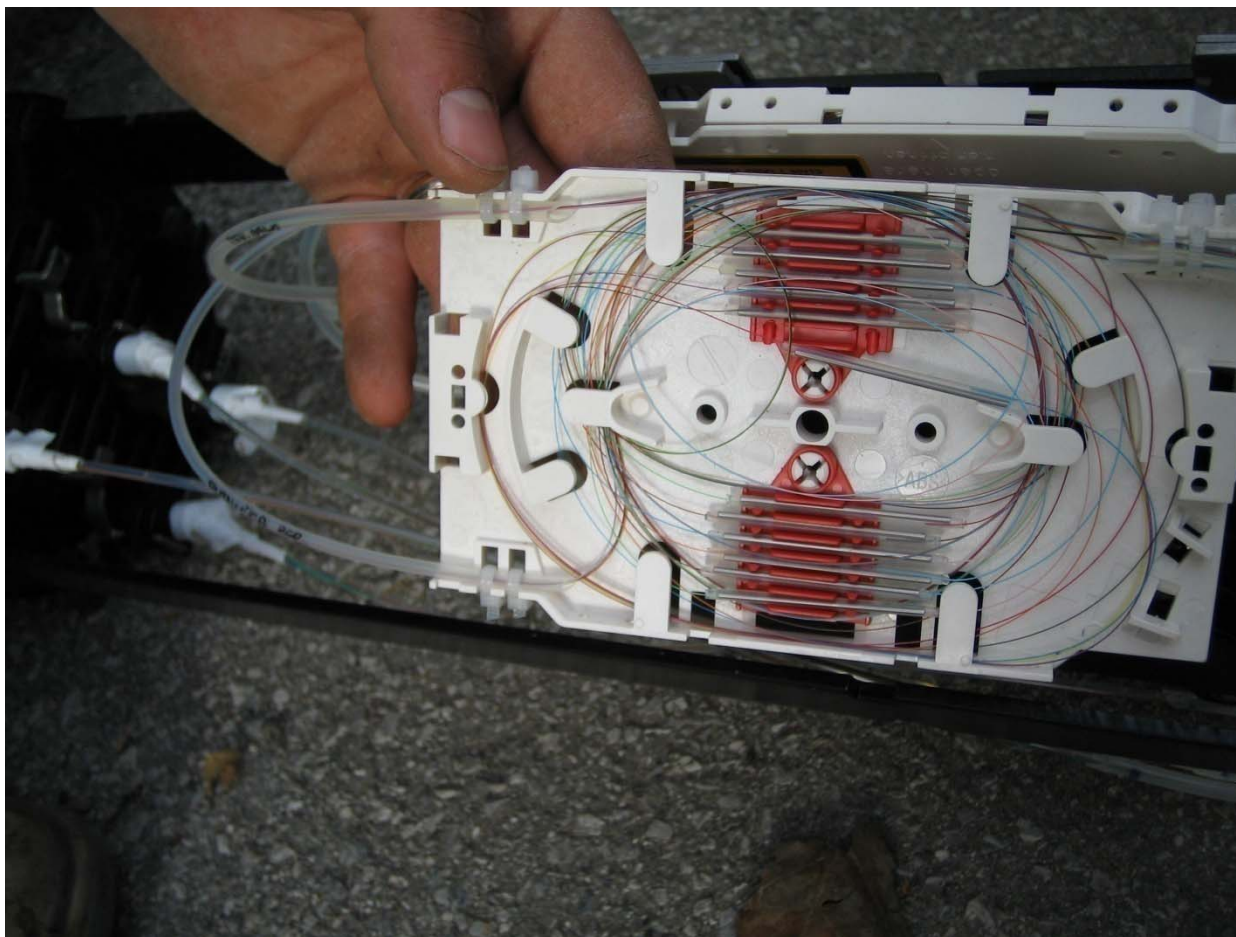


- Spojnice



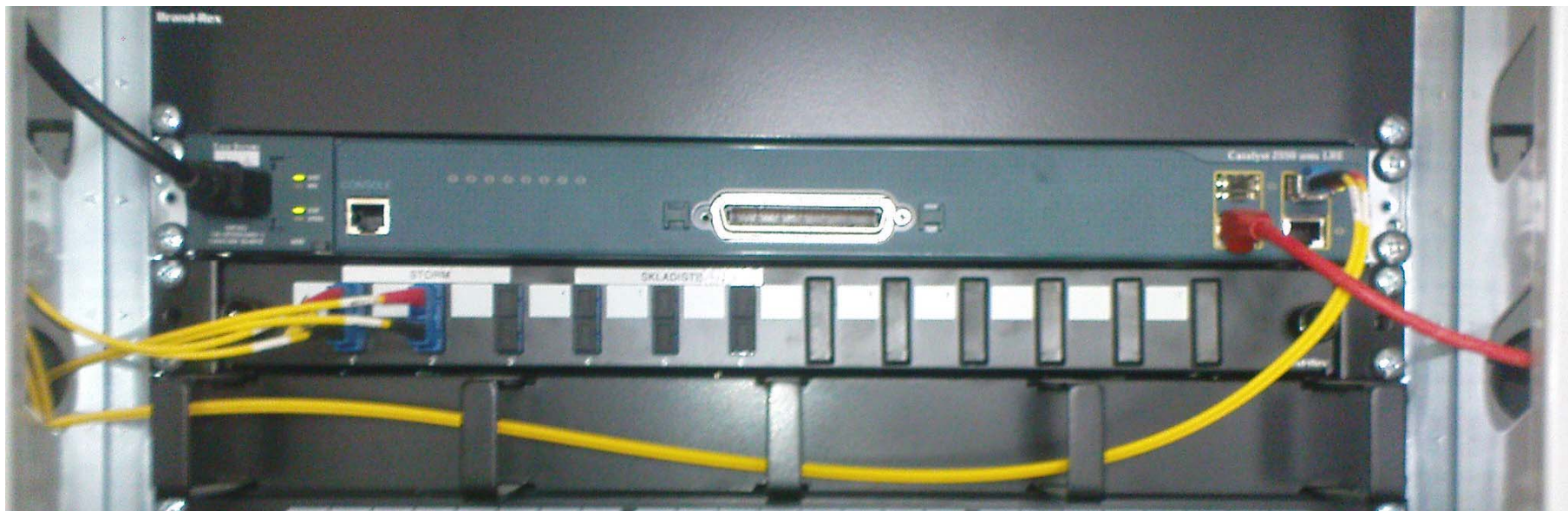
# Računalne mreže – WAN/MAN

- Spojnica/kazete



# Računalne mreže – WAN/MAN

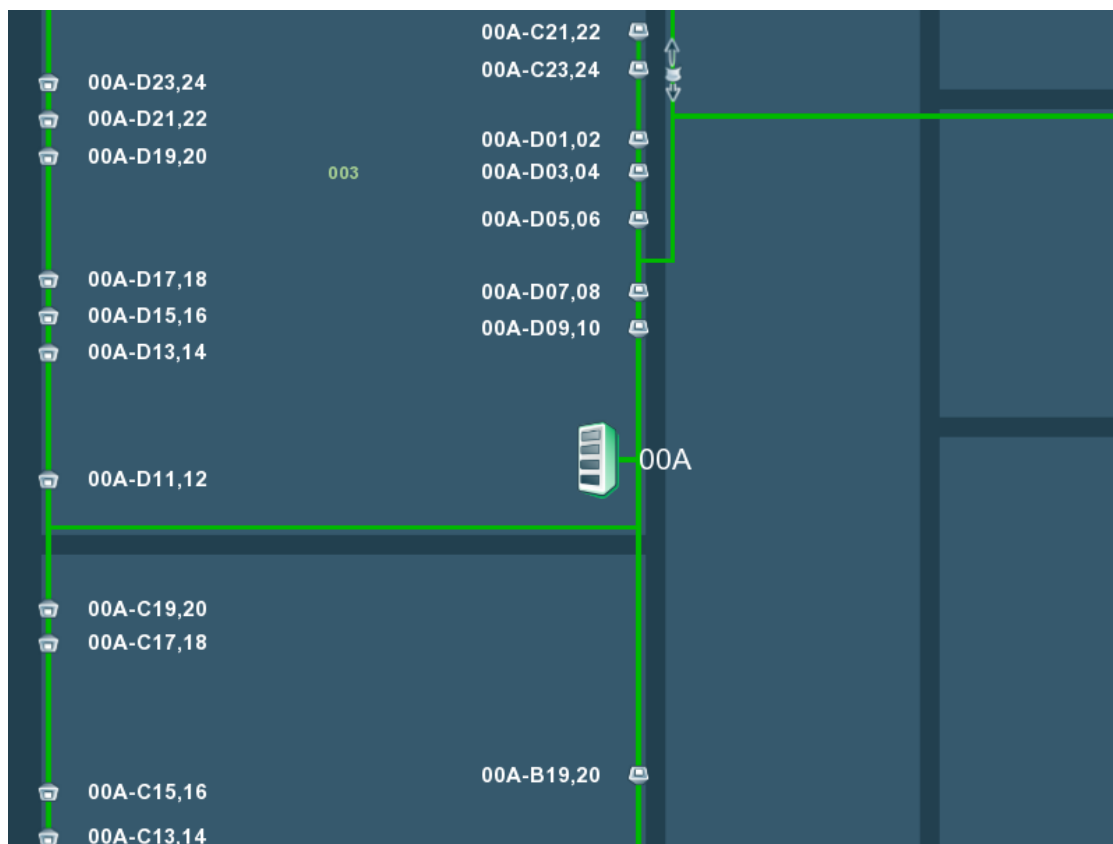
- Komunikacijski ormar i panel



# Računalne mreže – LAN/WAN/MAN

## LAN infrastruktura:

- Ormar
- Panel
- Kabelaška kanalica
- Priključna kutija



# TIMgis



- Tehnička osnova
- Funkcionalnosti

**ORACLE®**

**Autodesk®**  
Authorized Developer

- **ORACLE**
- **Autodesk Mapguide Enterprise**
- **Inter/intranet web rješenje**
- **Ne zahtjeva instalaciju s klijentske strane**
- **AJAX tehnologija**

# TIMgis - Funkcionalnosti

## Osnovne funkcionalnosti:

- Pregled položaja svih elemenata WAN/MAN/LAN mreže
- Lociranje puknuća kabela
- Traženje najpovoljnije veze između dva čvora
- Izvoz podataka u GPS



# TIMgis – novosti

## Korisničko sučelje

The screenshot displays the TIMgis user interface. On the left, a sidebar menu (labeled '1') contains sections for 'odabir', 'slojevi', 'oznake', 'prijjučnice', 'ormari', 'vertikalni proboji', '11 kabele', '12 kabele', '13 kabele', and 'kabelske kanalice'. Below these are 'alati' and a search field. A summary of objects is shown: objekti (5), ormari (18), zdeno (63), and spojnice (5). The main area (labeled '2') shows a 2D network diagram with a central cabinet labeled '01C' and various connection lines. The bottom section (labeled '3') is a data table with the following structure:

kabel			krajnja točka a				krajnja točka b		
rb	oznaka	mjeranje	objekt	ormar	panel	port	priključak	prostorna	kat
166.	01C-C12		01	01C	C	12	01C-C12	103	01
167.	01C-C13		01	01C	C	13	01C-C13	103	01
168.	01C-C14		01	01C	C	14	01C-C14	103	01
169.	01C-C15		01	01C	C	15	01C-C15	131	01
170.	01C-C16		01	01C	C	16	01C-C16	131	01
171.	01C-C17		01	01C	C	17	01C-C17	131	01
172.	01C-C18		01	01C	C	18	01C-C18	131	01
173.	01C-C19		01	01C	C	19	01C-C19	102	01
174.	01C-C20		01	01C	C	20	01C-C20	102	01

# TIMgis - WAN/MAN

## Zdenac

The screenshot displays a network management interface. The top part shows a diagram of a patch panel labeled 'ZD-20' with a grid of ports. Below the diagram is a table titled 'tabela kabela u zdencu' (table of cables in the patch panel). The table lists cable labels, patch panels, locations, and positions.

oznaka kabela	spojnica	lokacija	položaj	lokacija
(ZD21-SP04)/(ZD38-SP05)-01	-	ZD-21	↕	ZD-22
(ZD01-SP01)/(ZD21-SP04)-01	-	ZD-19	↕	ZD-21
(C05-00FO)/(ZD21-SP04)-01	-	ZD-21	↕	ZD-22
(C06-00FO)/(ZD21-SP04)-01	-	ZD-21	↕	ZD-22
(C14-00FO)/(ZD21-SP04)-01	-	ZD-21	↕	ZD-22
(C11-00FO)/(ZD21-SP04)-01	-	ZD-21	↕	ZD-22

skica raskolpa zdenca

popis kabela koji se nalaze u zdencu

## Položaj kabela u zdencu



# TIMgis - WAN/MAN

## Položaj kabela u zdencu

zdenac: ZD-20

ZD-20

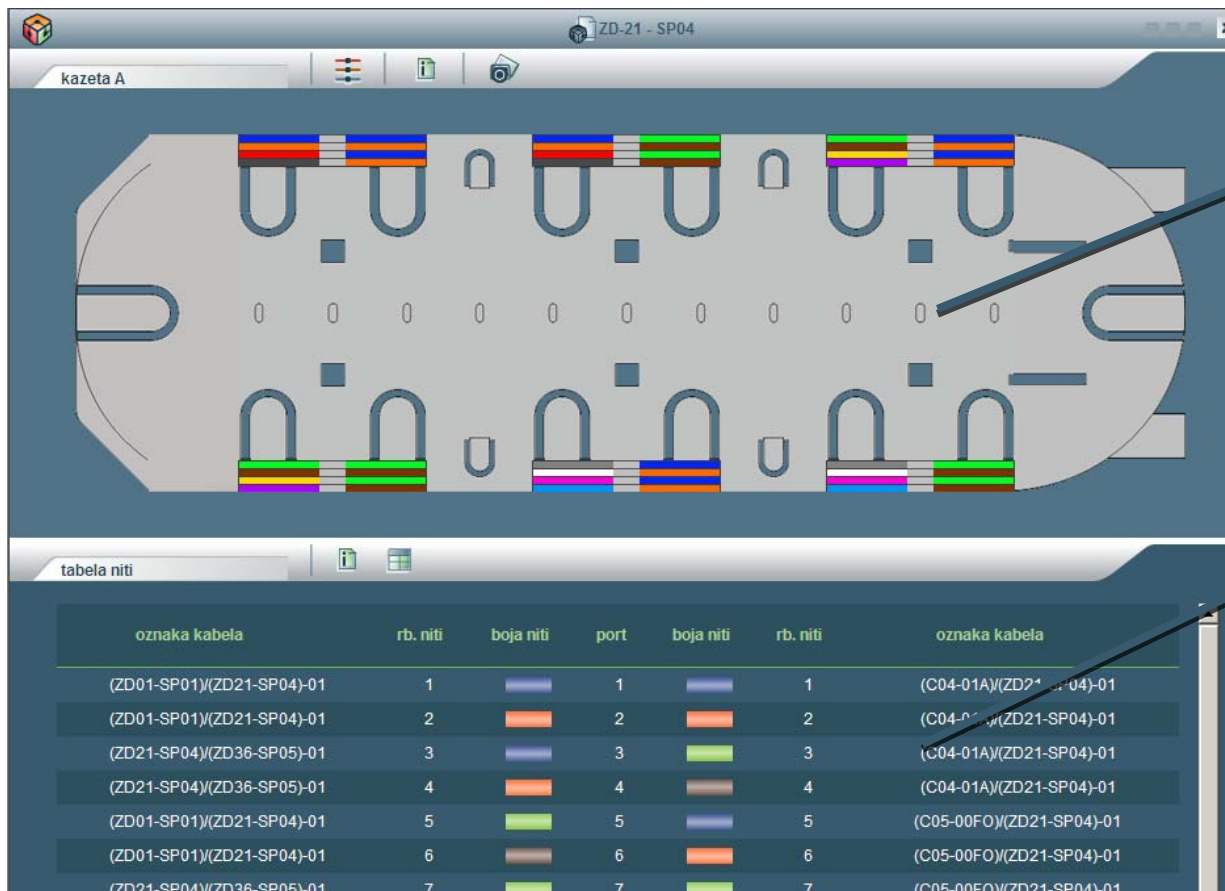
ZD-19 ZD-21 ZD-22

tabela kabela u zdencu

oznaka kabela	spojnica	lokacija	položaj	lokacija
(ZD21-SP04)/(ZD36-SP05)-01	-	ZD-21	↕	ZD-22
(ZD01-SP01)/(ZD21-SP04)-01	-	ZD-19	↕	ZD-21
(C05-00FO)/(ZD21-SP04)-01	-	ZD-21	↕	ZD-22
(C06-00FO)/(ZD21-SP04)-01	-	ZD-21	↕	ZD-22
(C14-00FO)/(ZD21-SP04)-01	-	ZD-21	↕	ZD-22
(C11-00FO)/(ZD21-SP04)-01	-	ZD-21	↕	ZD-22

# TIMgis - WAN/MAN

## Spojnicica



The screenshot displays a software interface for a patch panel configuration. The top section, titled "kazeta A", shows a 2x7 grid of ports. Each port has a colored wire connected to it. The bottom section, titled "tabela niti", contains a table with the following data:

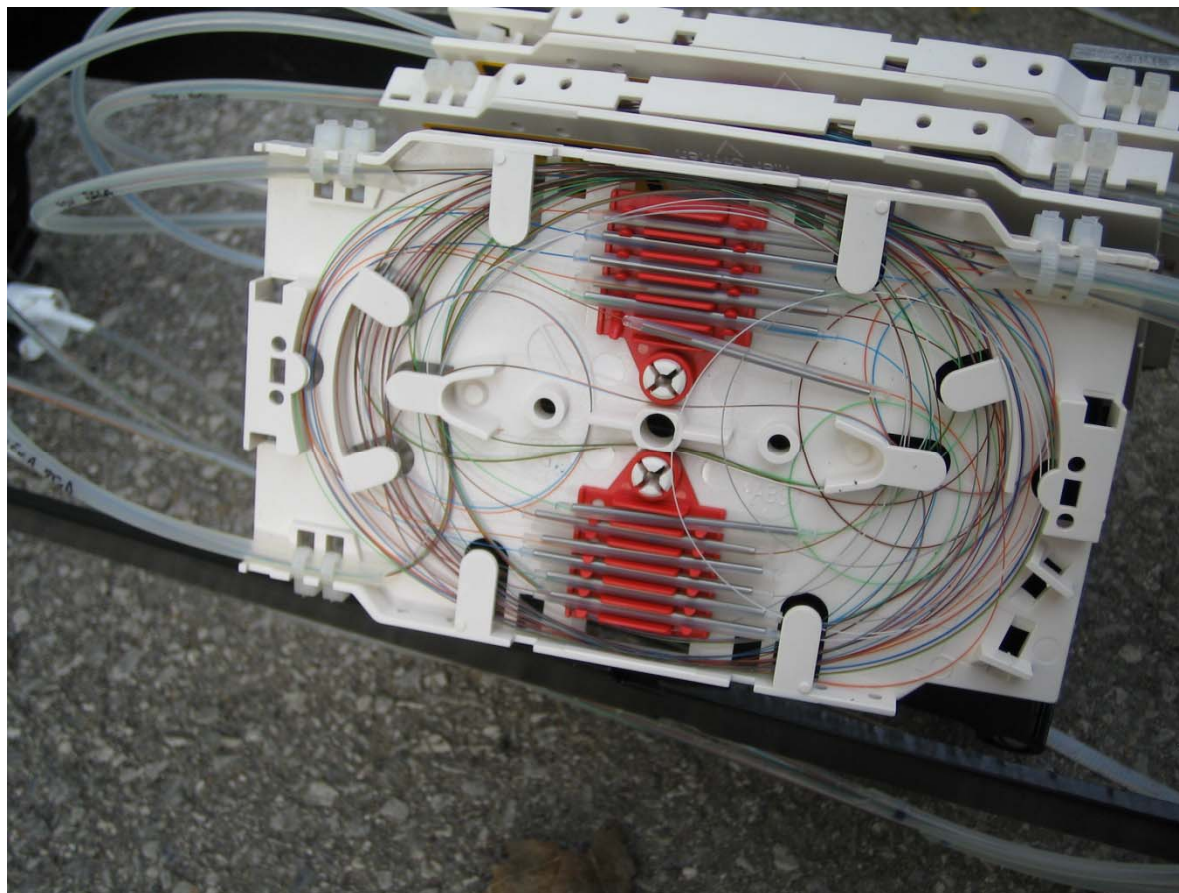
oznaka kabela	rb. niti	boja niti	port	boja niti	rb. niti	oznaka kabela
(ZD01-SP01)/(ZD21-SP04)-01	1	plava	1	plava	1	(C04-01A)/(ZD21-SP04)-01
(ZD01-SP01)/(ZD21-SP04)-01	2	crvena	2	crvena	2	(C04-01A)/(ZD21-SP04)-01
(ZD21-SP04)/(ZD36-SP05)-01	3	plava	3	zeleno	3	(C04-01A)/(ZD21-SP04)-01
(ZD21-SP04)/(ZD36-SP05)-01	4	crvena	4	crvena	4	(C04-01A)/(ZD21-SP04)-01
(ZD01-SP01)/(ZD21-SP04)-01	5	zeleno	5	plava	5	(C05-00FO)/(ZD21-SP04)-01
(ZD01-SP01)/(ZD21-SP04)-01	6	crvena	6	crvena	6	(C05-00FO)/(ZD21-SP04)-01
(ZD21-SP04)/(ZD36-SP05)-01	7	zeleno	7	zeleno	7	(C05-00FO)/(ZD21-SP04)-01

kazeta spojnice

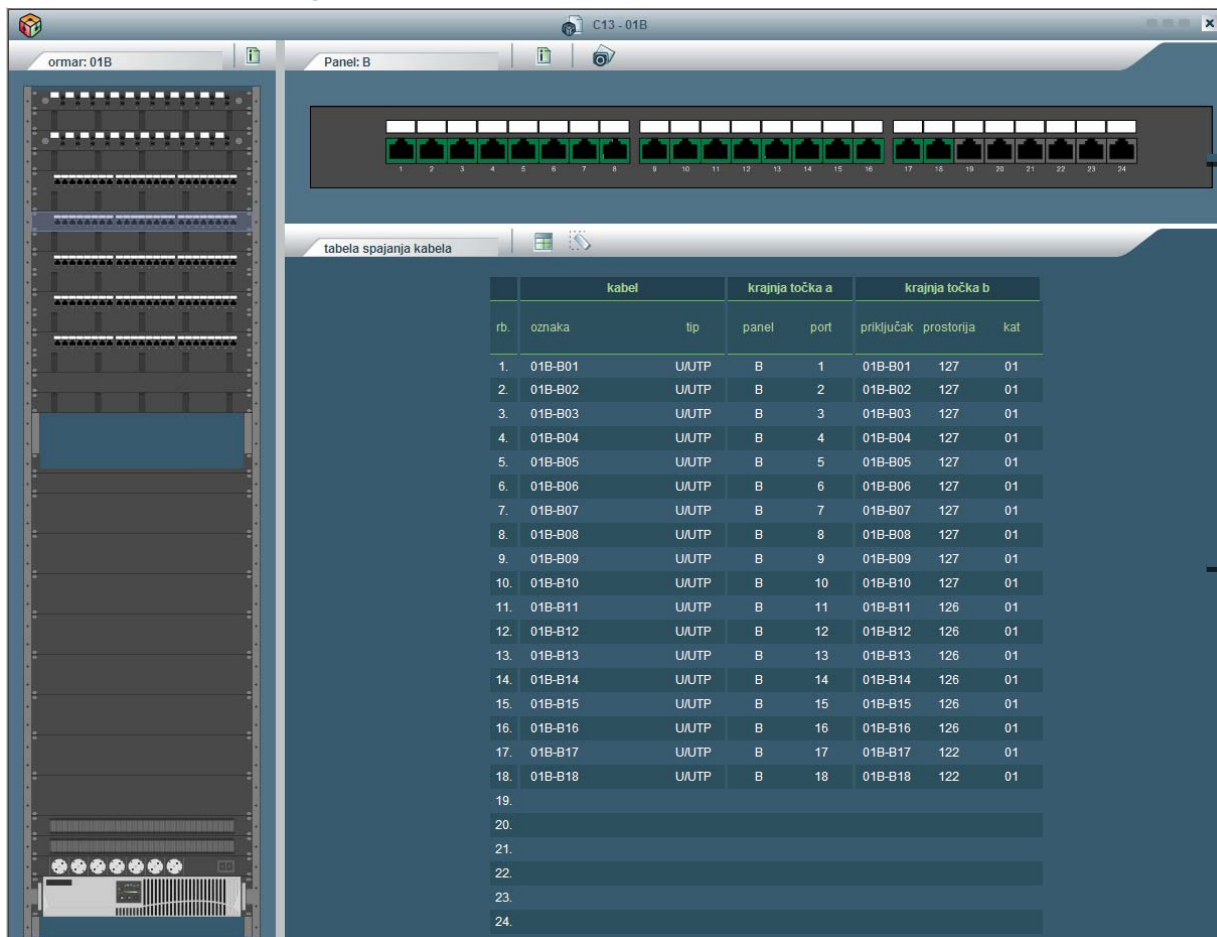
raspored spajanja niti  
u kazeti

# TIMgis - WAN/MAN

## Raspored spajanja niti u kazeti spojnice



## Komunikacijski ormar



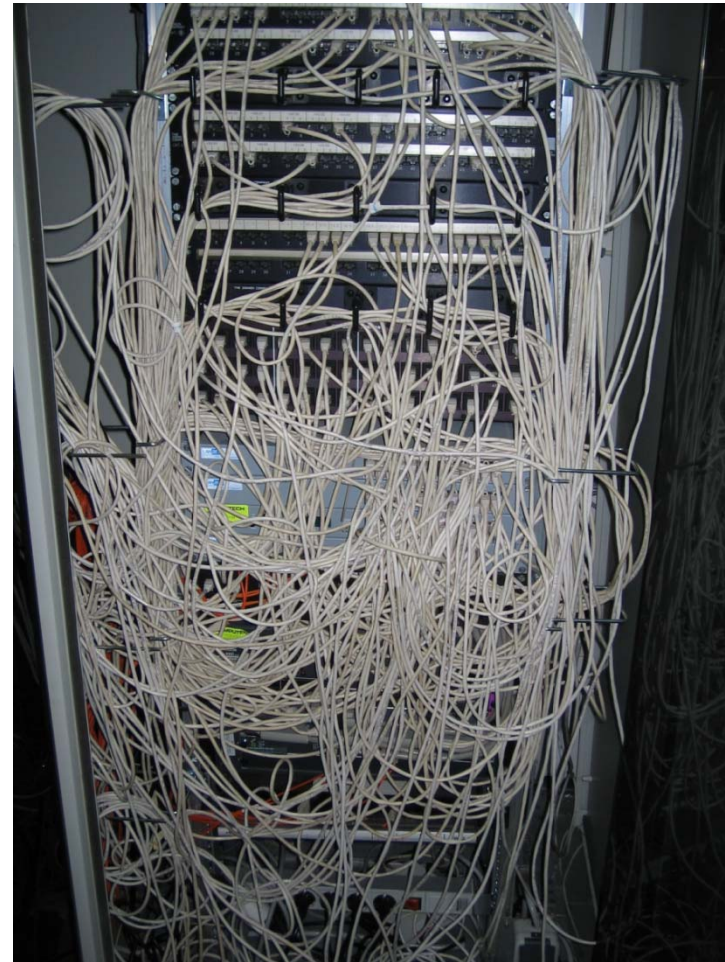
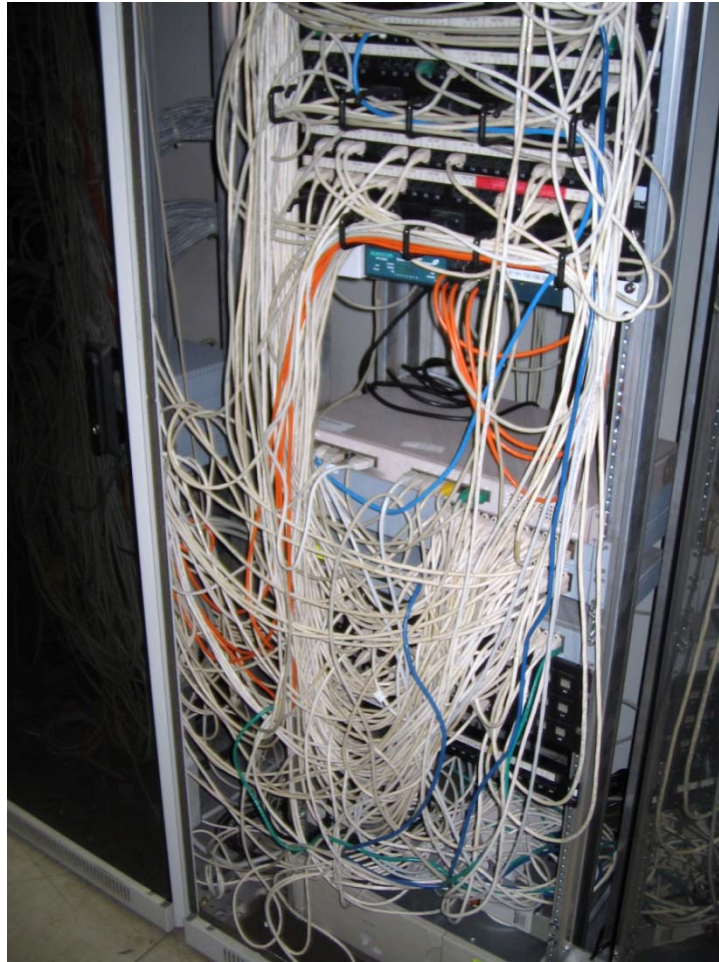
odabrani panel

tabela spajanja kabela

rb.	kabel		krajnja točka a		krajnja točka b		
	oznaka	tip	panel	port	priključak	prostorija	kat
1.	01B-B01	U/UTP	B	1	01B-B01	127	01
2.	01B-B02	U/UTP	B	2	01B-B02	127	01
3.	01B-B03	U/UTP	B	3	01B-B03	127	01
4.	01B-B04	U/UTP	B	4	01B-B04	127	01
5.	01B-B05	U/UTP	B	5	01B-B05	127	01
6.	01B-B06	U/UTP	B	6	01B-B06	127	01
7.	01B-B07	U/UTP	B	7	01B-B07	127	01
8.	01B-B08	U/UTP	B	8	01B-B08	127	01
9.	01B-B09	U/UTP	B	9	01B-B09	127	01
10.	01B-B10	U/UTP	B	10	01B-B10	127	01
11.	01B-B11	U/UTP	B	11	01B-B11	126	01
12.	01B-B12	U/UTP	B	12	01B-B12	126	01
13.	01B-B13	U/UTP	B	13	01B-B13	126	01
14.	01B-B14	U/UTP	B	14	01B-B14	126	01
15.	01B-B15	U/UTP	B	15	01B-B15	126	01
16.	01B-B16	U/UTP	B	16	01B-B16	126	01
17.	01B-B17	U/UTP	B	17	01B-B17	122	01
18.	01B-B18	U/UTP	B	18	01B-B18	122	01
19.							
20.							
21.							
22.							
23.							
24.							

raspored spajanja kabela/niti na panelu

# TIMgis – WAN/MAN/LAN

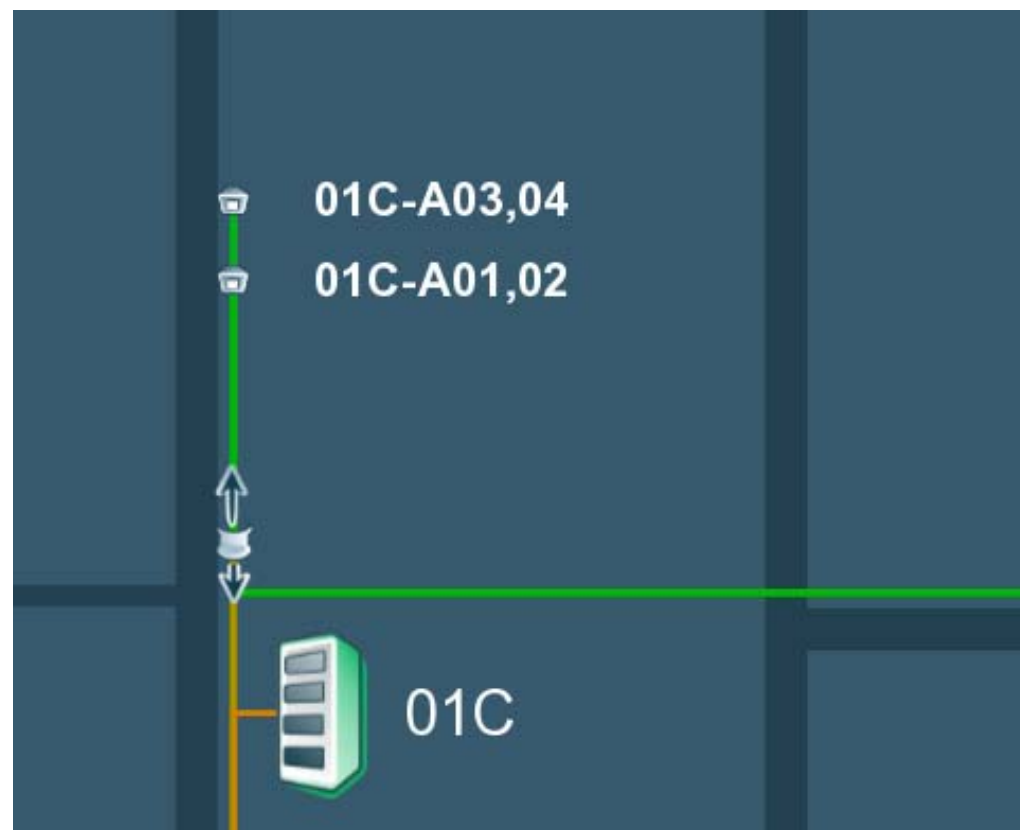




- **Mogućnost prikazivanja svih vrsta ormara**
- **Optički paneli**
- **Bakreni paneli**
- **Blende, police, strujne letve...**
- **Preko 20 vrsta panela**
- **Podaci o tipu, vrsti i proizvođaču opreme**
- **Inventar i pretraživanje opreme**

## Prikaz etaža objekata i položaj:

- Komunikacijskih ormara
- Vertikalnih proboja
- Kabelskih kanalica
- Kabela
- Priključnih mjesta



## Izvoz u GPS

- Zdenci
- Lokacija prekida kabela
- Objekti



Odabrani zdenci

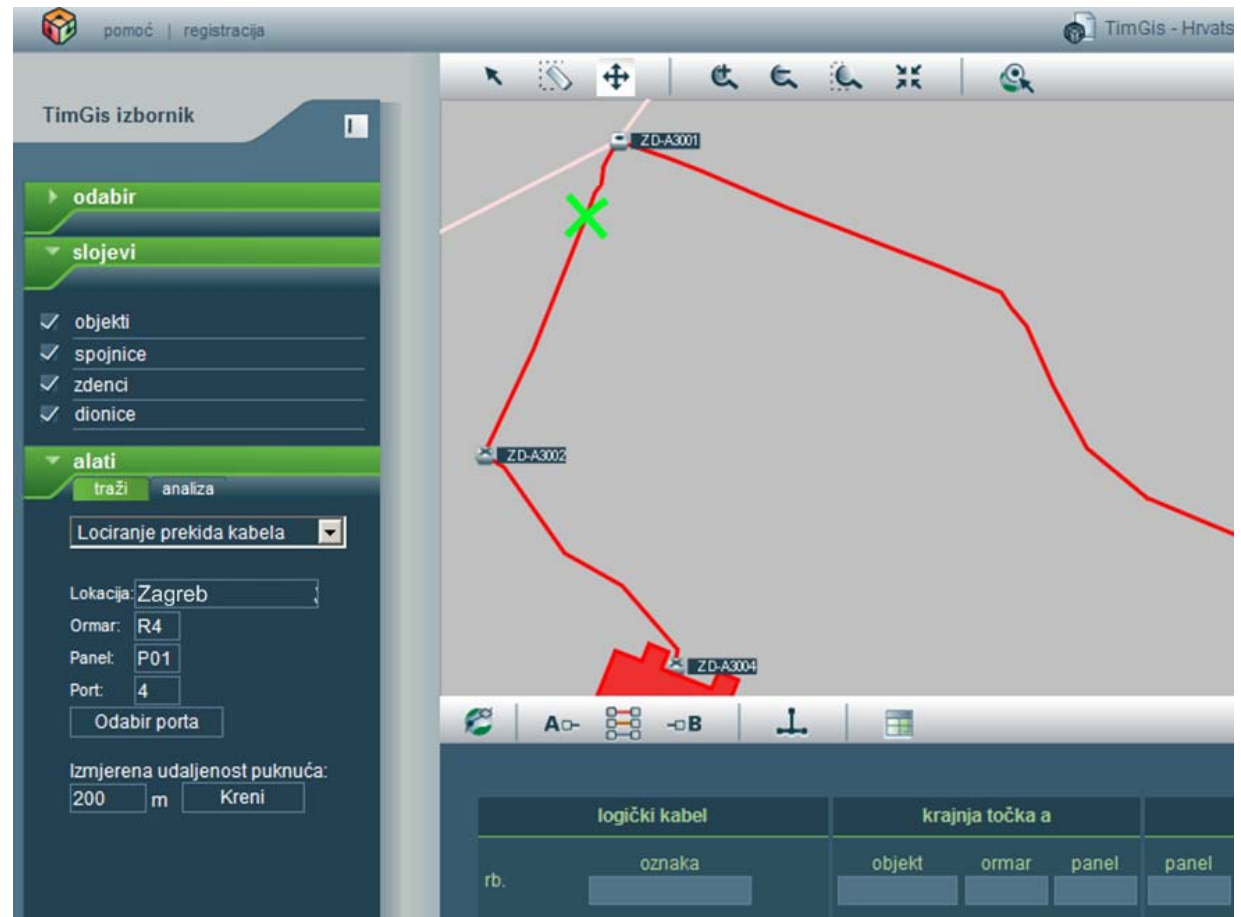
oznaka	x	y
ZD-A3179	5637645.3137	5035838.4642
ZD-A3177	5637665.2712	5035726.0655
ZD-A3176	5637684.9924	5035713.9923
ZD-A3174	5637200.2017	5035368.5292
ZD-A3172	5636789.2187	5035655.1572

Separator:

Ime datoteke:

## Lociranje prekida kabela

- Port panela
- OTDR mjerenje
- Izvoz u GPS
- Radni nalog



The screenshot displays the TIMgis software interface for cable fault location. The left sidebar contains a navigation menu with sections: 'odabir', 'slojevi' (with sub-items: objekti, spojnice, zdenci, dionice), and 'alati' (with sub-items: traži, analiza). A dropdown menu is set to 'Lociranje prekida kabela'. Below this, there are input fields for 'Lokacija: Zagreb', 'Ormar: R4', 'Panel: P01', and 'Port: 4', followed by an 'Odabir porta' button. At the bottom of the sidebar, there are fields for 'Izmjerena udaljenost puknuća: 200 m' and a 'Kreni' button.

The main map area shows a red line representing a cable route with nodes labeled 'ZD-A3001', 'ZD-A3002', and 'ZD-A3004'. A green 'X' marks a break location on the cable. The top toolbar includes navigation and zooming tools. The bottom toolbar shows 'A-B' and other icons.

At the bottom of the interface, there is a table with the following structure:

logički kabel		krajnja točka a			
rb.	oznaka	objekt	ormar	panel	panel

## Zašto TIMgis?

- **Brzo i lako lociranje svakog elementa pasivne telekomunikacijske infrastrukture**
- **Jasan pogled u sadržaje spojnice i kazete**
- **Prikaz etaže**
- **Fizička/logička podjela niti/kabela**
- **Brzo i lako lociranje kvarova**
- **Jasan uvid u svu telekomunikacijsku opremu**

- **Konstantan razvoj i praćenje modernih tehnologija**
- **Integracija sa sustavom za kontrolu pristupa komunikacijskim ormarima**
- **Integracija s aktivnim dijelom mreže**
- **Alati za analizu infrastrukture**

# TIMgis

(telecommunication infrastructure manager)

[ivan.milicevic@supranet.hr](mailto:ivan.milicevic@supranet.hr)