



www.iptp.com



**NEW GLOBAL PUBLIC INTERNET EXCHANGE**  
with jumbo frame (9000 MTU) capability  
see page 35



**MESSENGER**

**NEW MULTIFUNCTIONAL MESSENGER**  
with ERP & CRM integration  
see page 45



# CORPORATE MAGAZINE 2019

A BETTER NETWORK, NOT JUST A BIGGER ONE!

# Contents

|  |           |
|--|-----------|
| <b>About us</b> .....                            | <b>3</b>  |
| Our History .....                                | 4         |
| IPTP Networks' Achievements in Numbers .....     | 7         |
| Global Partnership .....                         | 8         |
| Global IX Community .....                        | 10        |
| Global Peering .....                             | 11        |
| <b>Connectivity</b> .....                        | <b>12</b> |
| IPTP Networks' Facilities .....                  | 12        |
| Global Network and Points of Presence Map .....  | 13        |
| Low Latency Routes Map .....                     | 14        |
| Low Latency Cable Systems .....                  | 15        |
| Managed Datacenter Services .....                | 16        |
| <b>Datacenters</b> .....                         | <b>20</b> |
| Anything Remote .....                            | 20        |
| Dedicated Hosting .....                          | 22        |
| Colocation Service .....                         | 24        |
| Matrix 4 Datacenter (the Netherlands) .....      | 26        |
| Kermia 1 Datacenter (Cyprus) .....               | 30        |
| San Isidro Hosting facilities .....              | 31        |
| <b>Communication</b> .....                       | <b>32</b> |
| Communication Services .....                     | 32        |
| Managed Security Services .....                  | 34        |
| <b>Hardware &amp; Software Development</b> ..... | <b>35</b> |
| Jumbo Internet Exchange .....                    | 35        |
| IPTP DDoS Mitigation Solution .....              | 36        |
| IPTP ERP & CRM .....                             | 39        |
| WHERR Tracking Solution .....                    | 47        |
| Vargus: Video Surveillance .....                 | 53        |
| CISCO Video Surveillance .....                   | 56        |
| IPTP CADA .....                                  | 57        |
| IPTP SmartSpaces Automation Solution .....       | 58        |
| Middleware IPTV .....                            | 62        |
| Meet our Team .....                              | 63        |

# About IPTP Networks

IPTP Networks is fully diverse, secure and independently owned.  
Our broadband network links Asia, Africa, Americas, Europe and Australia.

IPTP Networks is a leading System Integrator, Tier-1 single-homed network (AS 3356), Internet Service Provider (AS 41095) and Software Development group of companies operating worldwide with offices in Limassol (Cyprus), Amsterdam (the Netherlands), New York (USA), Moscow, Novorossiysk (Russia), Hong Kong (SAR of China), Lima (Peru), São Paulo (Brazil), La Paz (Bolivia) and Ho Chi Minh City (Vietnam). Originally founded in Cyprus (1996) as a System Integrator, after 8 years of successful development, the company IPTP Networks (2004) grew up into a major international group and a world-class organization. We operate a global backbone as a Tier-1-class-network Internet Service Provider (ISP) providing connectivity through 170+ ON-NET datacentres worldwide.

At its core IPTP strives to be a 1 stop shop IT solutions provider, our all-encompassing approach will manage every stage of the project, from design and procurement to implementation and integration. Our managed services include ongoing support and maintenance, IT expertise, vendor management and infrastructure capabilities while helping to reduce costs and increase productivity. With a multitude of resources, extending a helpful hand to your business with our global and tailor-made solutions all with a single point of contact.

Our global team provides support 24/7 around the globe in 10 different languages. With over 3000 satisfied customers you can count on IPTP to deliver the right solutions for your business. As a Software Development company, we offer you our ERP and CRM platform, which has evolved from 15 years of hard work. A product that has been tested and used not only internally since the day it was first deployed, but it is also a very convenient and valuable tool to our clients.

We are also very proud of CADA which is our in-house developed IOT platform and one of the main components of the IPTP Smart Spaces Automation Solution. Pooling and managing data from an array of Sensors to orchestrate and automate daily tasks to give you insides and real time management capabilities for your business. All solutions and platforms offered by IPTP are tailored by our in-house engineering team and adapted to fit each client's needs.



Comprehensive solutions, fortified with management, monitoring, maintenance and 24/7 support.



A full array of services from a single point of contact.



Guaranteed SLAs with up to 99.9999% availability for N+2 redundant solutions.



A wide selection of industry-standard technologies from the leading manufacturers.



Technical support available in English, Mandarin Chinese, Cantonese, Greek, French, Japanese, Portuguese, Russian, Spanish and Vietnamese languages.

# 23 YEARS OF HISTORY

## IN TEAMWORK, INNOVATION, AND EXPERIENCE

1996

Business activity started in **Cyprus** with a focus on **system integration**.

2004

**IPTP Networks brand name** is registered.

Our website **www.iptp.net** is launched.

**NB:** IPTP Networks was initially standing for IP Triple Play, but we eventually found out that it could also stand for IP Telephony Provider, IP Transit Provider, IP Television Provider, IP TelePort, IP Transport Provider, Internet Projects Technology Provider and many more.

2006

The company is founded and established in **The Netherlands**.

The **first data center** (Matrix 3) acquisition.

The company is founded and established in **Russia**.

IPTP Networks becomes a **RIPE NCC member**.

**AS number 41095** is assigned to IPTP Networks.

2008

The company is founded and established in **the U.S.**

The First Point of Presence in the U.S. is acquired.

**Level(3)** reseller status is acquired

2010

The company is founded and established in **Hong Kong**.

Distributed Mitigation Managed service (**DMMS**) against DDoS is released.

Our AS is ranked at the **top 200** as per Caida's report.

2005

Our **CADA** (Controller of Automatically-Driven Appliances) is released.

**Vargus** (IPTP's Video Surveillance Software) is released.

**IP Triple Play** Middleware is released.

2007

**IPTP ERP & CRM** system is released.

2009

Development of North American Segment (**ARIN membership**).

The company's total network capacity goes over **1 Tbps**.

IPTP companies are reorganized into a public holding in Cyprus.

Our AS is ranked at the **top 400** as per Caida's report.

2011

The first edition of Corporate Magazine is issued.

IPTP expands its footprint to the major cities in the Asia-Pacific segment.

Our AS is ranked at the **top 100** as per Caida's report.

2013

**Matrix 4** Datacenter becomes operational.

Development of Asia-Pacific Segment (**APNIC membership**).

2015

**Wherr** GSM tracking solution is released.

2017

The company is founded and established in **Vietnam**.

The company is founded and established in **Peru**.

24x7 Network Operator Centres are launched in Vietnam and Peru.

**CenturyLink** reseller status is acquired.

A major upgrade of global links to **100G** waves is applied.

**Cross Messenger** is released.

The company is founded and established in **Bolivia**.

2019

2012

The company's total network capacity reaches **5 Tb/s**.

Our AS is ranked at the **top 70** as per Caida's report.

2014

IPTP acquires **Wherr's** major stake; a GSM tracking solution which is developed and based in Hong Kong.

Development of African Segment (**AFRINIC membership**).

Development of Latin American Segment (**LACNIC membership**).

2016

The company's total network capacity reaches **30 Tb/s**.

The v3 IPTP ERP & CRM is released.

The company is founded and established in **Brazil**.

Our AS is ranked at the **top 40** as per Caida's report.

The **JumbolX** project is initiated.

2018

"IPTP has been a reliable infrastructure partner for our global video CDN. Because we provide low-latency live streaming services to major brands, we often need to scale up to manage the influx of new viewers – and we can always count on IPTP for additional capacity."

Vlad Ruban, Tech Client Services Manager, Advection.NET

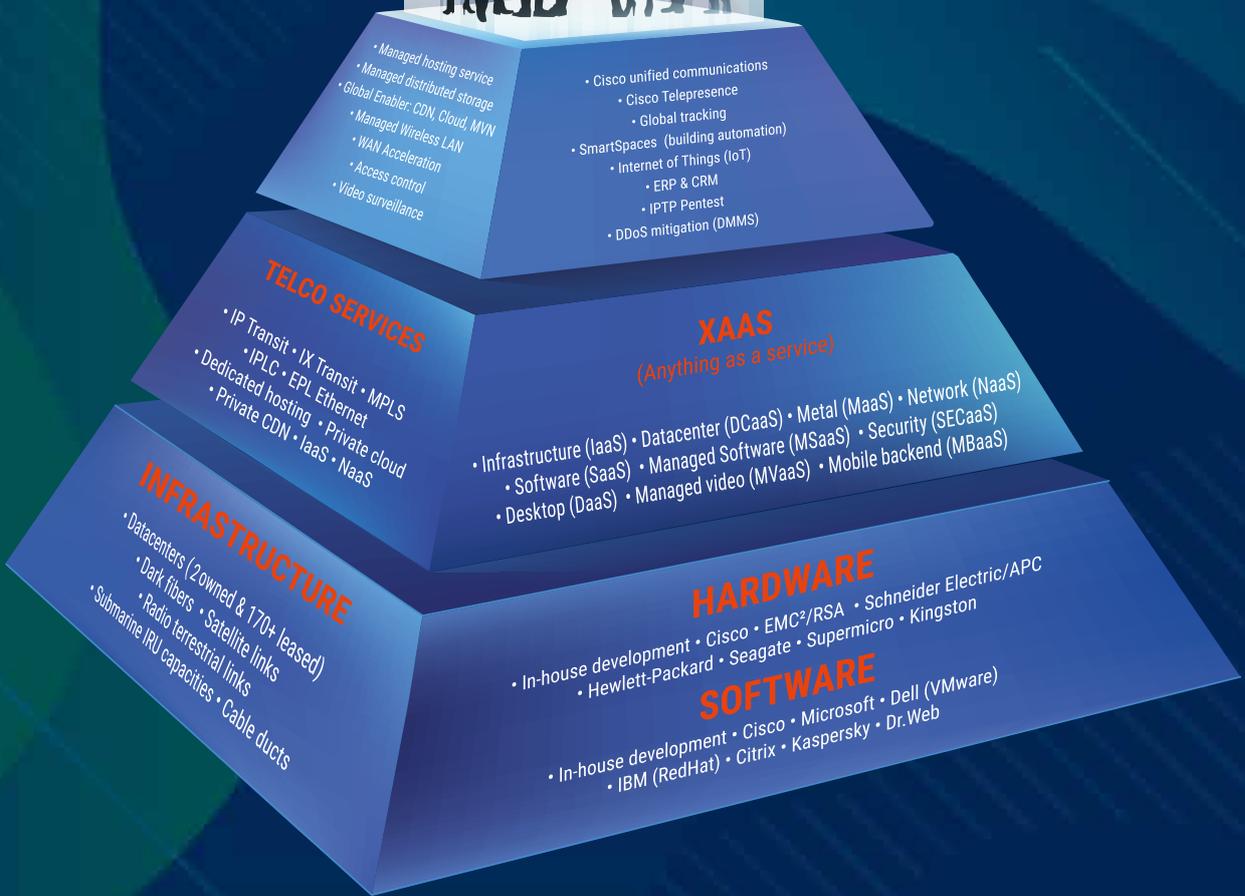
MORE THAN

# 3000

SATISFIED CLIENTS  
AND PARTNERS



**IPTP TEAM**



**ISO 9001**



**PCI DSS**



**GDPR**

The ISO 9001 quality management system helps to develop, maintain, promote and facilitate industry standards as well as improve the efficiency and effectiveness of operations, enhancing customer satisfaction. ISO 9001:2015 certification demonstrates the company's ability to consistently deliver top-quality products and services.

Attestation of Compliance for Service Providers - 'Payment Card Industry Data Security Standard' (PCI DSS) for certified locations and points of presence is dedicated to companies involved in handling and storing cardholder information for all major debit/credit card companies.

IPTP Networks is committed to ensuring the security and protection of the personal information that we process, and to provide a consistent approach to data protection. We recognise our obligations in updating and expanding our policy to meet the demands of the GDPR and all local data protection laws in our offices and employees worldwide.

# Our Achievements in Numbers

**35**

TBIT/S TOTAL NETWORK CAPACITY

**77**

HOSTING DATACENTERS

**1000**

PORTS WITH PEERING PARTNERS

**181**

DATACENTERS ON-NET

**100**

TERRESTRIAL AND SUBMARINE CABLE SYSTEMS

**45**

INTERNET EXCHANGES

**3000**

CLIENTS AND PARTNERS

**200**

LEADING EXPERTS ACROSS THE GLOBE

**60**

CITIES

**39**

COUNTRIES

**10**

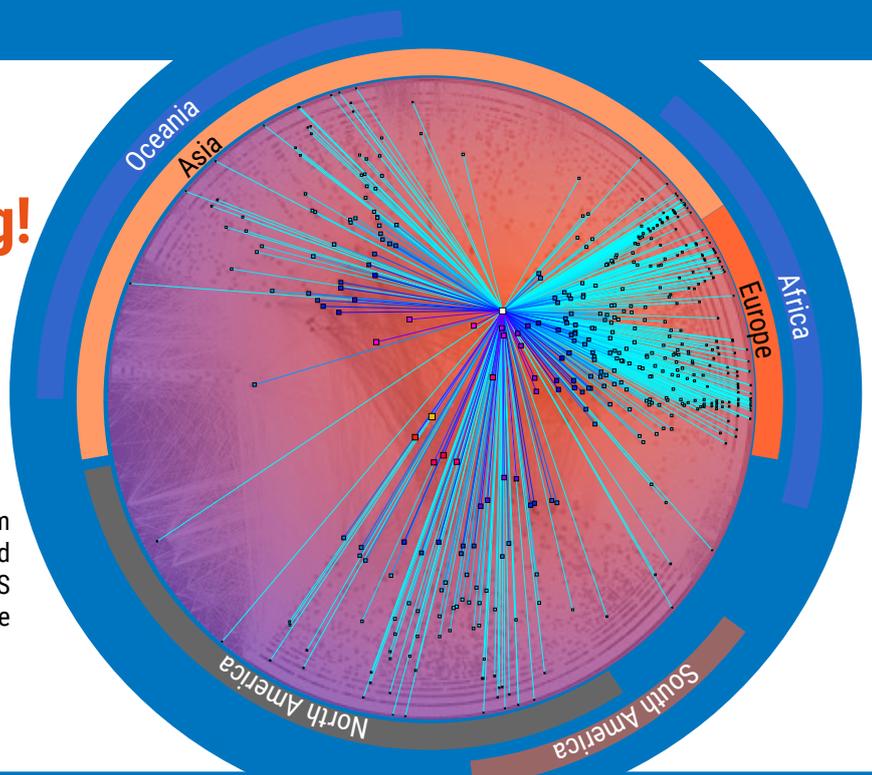
SUPPORT LANGUAGES

## IPTP Networks: 38<sup>th</sup> at global ranking!



Over the last decades, IPTP Networks team has worked on its network improvements, and according to Caida's (28th Dec, 2018) Report, our AS has reached the 38th place in the Global Worldwide Ranking among 89689 autonomous systems.

Source: <http://as-rank.caida.org/asns/41095>



# Global Partnership

Reach global IT-industry players from a single point of contact

## HARDWARE/SOFTWARE PARTNERS



**Cisco.** American corporation technology company headquartered in San Jose, California, that designs, manufactures and sells networking equipment worldwide. It is the largest networking company in the world. [www.cisco.com](http://www.cisco.com)



**Schneider Electric.** French multinational corporation that specializes in electricity distribution, automation management and produces installation components for energy management. It is the parent company of APC. [www.schneider-electric.com](http://www.schneider-electric.com)



**Dell EMC corporation.** Multinational corporation headquartered in USA. EMC sells data storage, information security, virtualization, analytics, cloud computing and other products and services that enable businesses to store, manage, protect and analyze data. EMC is a parent company for VMware, Inc. and RSA Security LLC. [www.emc.com](http://www.emc.com)



**Red Hat Inc.** Software company providing open-source software products to the enterprise community. Red Hat provides storage, operating system platforms, middleware, applications, management products, and support, training, and consulting services. [www.redhat.com](http://www.redhat.com)



**Kaspersky Lab.** An international software security group operating in almost 200 countries and territories worldwide. The company is specially focused on large enterprises, and small/medium-sized businesses. [www.kaspersky.com](http://www.kaspersky.com)



**Dr.Web** is a Russian anti-malware company and the name of its flagship software suite. First released in 1992, it became the first anti-virus service in Russia. The company also offers anti-spam solutions and is used by Yandex to scan e-mail attachments. [www.drweb.com](http://www.drweb.com)



**Microsoft Corporation** Multinational technology company that develops, manufactures, licenses, supports and sells computer software, consumer electronics, personal computers and services. [www.microsoft.com](http://www.microsoft.com)



**Super Micro Computer, Inc.** A company that designs, develops, manufactures and sells servers based on the x86-64 architectures. Its offerings include rack mount, server systems, high-end workstations etc. [www.supermicro.com](http://www.supermicro.com)



**Hewlett Packard Enterprise.** Multinational information technology company. It developed and provided a wide variety of hardware components as well as software and related services to consumers, SMBs and large enterprises, including customers in the government, health and education sectors. [www.hpe.com](http://www.hpe.com)



**Citrix.** American multinational software company that provides server, application and desktop virtualization, networking, software as a service (SaaS), and cloud computing technologies. [www.citrix.com](http://www.citrix.com)



**Veeam Software** is a privately held information technology company that develops backup, disaster recovery and intelligent data management software for virtual, physical and multi-cloud infrastructures. The company's headquarters is in Baar, Switzerland. [www.veeam.com](http://www.veeam.com)

"The network infrastructure of IPTP Networks spans key data centre locations in every continent. This key strength, together with their innovative and flexible approach, makes them a perfect party to resell the AMS-IX service remotely."

Mark Cooper, CCO at AMS-IX

## INFRASTRUCTURE PARTNERS

**colt** **Colt Technology Services** Multinational telecommunications, and data centre services company headquartered in London, United Kingdom.  
[www.colt.net](http://www.colt.net)

**EQUINIX** **Equinix, Inc.** American public corporation that provides carrier-neutral data centers and Internet exchanges to enable interconnection. Equinix data centers are also home to more than 500 cloud service providers.  
[www.equinix.com](http://www.equinix.com)

**CenturyLink** **CenturyLink** Is a multinational telecommunications and Internet service provider company. It operates a Tier 1 network, provides core transport, IP, voice, video, and content delivery for medium-to-large Internet carriers in Americas, Europe, and selected cities in Asia.  
[www.centurylink.com](http://www.centurylink.com)

**5G Innovations** **BroadBand Tower** is a leading network infrastructure provider in Japan with advanced technology and easy accessibility in Tokyo. Over the years BBT has built and maintained a loyal partnership with key providers in the internet industry. It also provides big data solutions such as EMC.  
[www.bbtower.co.jp](http://www.bbtower.co.jp)

**PCCW** **PCCW Global** The international operating division of HKT, Hong Kong's premier telecommunications service provider. Company offering the latest voice and data solutions to multinational enterprises and communication service providers.  
[www.pccwglobal.com](http://www.pccwglobal.com)

**vodafone** **Vodafone** is a British multinational telecommunications conglomerate. Vodafone is ranked 4th in the number of mobile customers (313 million).  
[www.vodafone.com](http://www.vodafone.com)

## INTERNET REGISTER COMMUNITIES

IPTP Networks is a member of all existing regional internet registries (RIRs) in the world. Such exclusive position makes our network truly global in scope.



Asia-Pacific Network Information Centre  
[apnic.net](http://apnic.net)

nic-hdl:  
ORG-IL3-AP



African Network Information Centre  
[afrinic.net](http://afrinic.net)

nic-hdl:  
ORG-II1-AFRINIC



American Registry for Internet Numbers  
[arin.net](http://arin.net)

nic-hdl:  
IPTRI



Latin America and Caribbean Network Information Centre  
[lacnic.net](http://lacnic.net)

nic-hdl:  
PE-INSA47-LACNIC



Réseaux IP Européens Network Coordination Centre  
[ripe.net](http://ripe.net)

nic-hdl:  
ORG-IL238-RIPE

# Global IX Community

IPTP Networks is the member of the major Internet Exchanges in the world. Currently, we maintain peering through the following Internet Exchanges:

|   |   |  |  |   |   |
|---|---|--|--|---|---|
| <br><b>amsix</b><br>amsterdam<br>internet exchange | <b>Amsterdam Internet Exchange</b><br>City: Amsterdam<br>www.ams-ix.net   | <br><b>CORESITe</b>                             | <b>CoreSite - Any2</b><br>Cities: Los Angeles CA, Denver CO<br>www.coresite.com                      | <br><b>BBIX</b><br>Internet Exchange       | <b>BBIX</b><br>Cities: Tokyo, Hong Kong, Singapore<br>www.bbix.net    |
| <br><b>DIGITAL REALTY</b><br><b>telx</b>           | <b>Digital Realty Internet Exchange (ex-Telx)</b><br>Cities: New York (NY), Atlanta (GA)<br>ix.digitalrealty.com  | <br><b>DE CIX</b>                               | <b>DE-CIX</b><br>Cities: Frankfurt, New York, Marseille, Madrid, Lisbon*, Istanbul<br>www.de-cix.net | <br><b>dtel-ix</b><br>the swearing company | <b>DTEL-IX</b><br>City: Kiev<br>www.dtel-ix.net                       |
| <br><b>EQUINIX</b>                                 | <b>Equinix</b><br>Cities: Ashburn VA, Chicago IL, Dallas TX, New York NY, Los Angeles CA, Miami FL (ex-NAP of Americas), Hong Kong, Paris, Madrid, Lisbon*, Singapore, Zürich<br>www.ix.equinix.com | <br><b>HKIX</b>                                 | <b>Hong Kong Internet Exchange</b><br>City: Hong Kong<br>www.hkix.net                                | <br><b>JPNAP</b>                           | <b>JPNAP Tokyo</b><br>City: Tokyo<br>www.jpnap.net                    |
| <br><b>nap</b><br>the Americas                     |   | <br><b>JPix</b>                                 | <b>JPIX</b><br>City: Tokyo<br>www.jpix.ad.jp   | <br><b>JBIX</b>                            | <b>JBIX</b><br>City: Johor Bahru<br>www.jbix.my                       |
| <br><b>ix.br</b>                                 | <b>IX.br (PTT Metro)</b><br>City: São Paulo<br>www.ix.br  | <br><b>KINX</b>                               | <b>KINX</b><br>City: Seoul<br>www.kinx.net   | <br><b>linx</b>                          | <b>LINX</b><br>City: London<br>www.linx.net                           |
| <br><b>MSK IX</b>                                | <b>MSK-IX</b><br>Cities: Moscow, Saint Petersburg<br>www.msk-ix.ru  | <br><b>MIX IT</b>                             | <b>MIX-IT</b><br>City: Milan<br>www.mix-it.net   | <br><b>NET NOD</b>                       | <b>Netnod IX</b><br>City: Stockholm<br>www.netnod.se                  |
| <br><b>NAPAFRICA</b>                             | <b>NAPAfrica IX Johannesburg</b><br>City: Johannesburg<br>www.napafrika.net   | <br><b>NETIX</b>                              | <b>Netix</b><br>City: Sofia<br>www.netix.net   | <br><b>Piter ix</b>                      | <b>Piter-IX</b><br>City: St.Petersburg, Moscow<br>piter-ix.ru         |
| <br><b>SIX</b><br>SEATTLE INTERNET EXCHANGE      | <b>Seattle Internet Exchange</b><br>City: Seattle (WA)<br>www.seattleix.net   | <br><b>torix</b><br>toronto internet exchange | <b>Toronto Internet Exchange Community</b><br>City: Toronto<br>www.torix.ca                          | <br><b>OpenIXP</b>                       | <b>OpenIXP</b><br>City: Jakarta<br>www.openixp.net                    |
| <br><b>GETAFIX</b>                               | <b>GetaFIX</b><br>City: Manila<br>www.getafix.ph  | <br><b>MyIX</b>                               | <b>Malaysia Internet Exchange</b><br>City: Kuala Lumpur<br>www.myix.my                               | <br><b>APJII</b>                         | <b>Indonesia Internet Exchange</b><br>City: Jakarta<br>www.iix.net.id |
| <br><b>Eurasia Peering</b>                       | <b>Eurasia Peering</b><br>City: Moscow<br>www.eurasiapeering.com  | <br><b>NYIIX</b>                              | <b>NYIIX</b><br>Cities: New York, Los Angeles<br>www.nyix.net  |   | * – planned location.   |

## IX connections via IPTP Networks are also available to:

### EUROPE:

- Asteroid Amsterdam
- Equinix Amsterdam
- iAIX (Athens)
- SOX (Belgrade)
- BCIX (Berlin)
- RoNIX (Bucharest)
- InterLAN (Bucharest)
- KleyReX (Frankfurt)
- ECIX-FRA (Frankfurt)
- FICIX (Helsinki)

- Equinix London
- LONAP (London)
- MINAP Milan
- Hopus (Paris)
- PARIX (Paris)
- SFINX (Paris)
- Peering.cz (Prague)
- B-IX (Sofia)
- BIX.BG (Sofia)
- MegalX Sofia
- T-CIX (Sofia)

- SOLIX (Bromma, Stockholm)
- STHIX - Stockholm
- BALT-IX (Vilnius)
- SwissIX (Zürich, Basel)
- VIX (Vienna)
- ASIA:**
- UAE-IX (Dubai)
- NH-IX (Fujairah)
- MegalX Singapore
- Equinix Tokyo
- TPIX-TW (Taipei)

### CIS & UKRAINE:

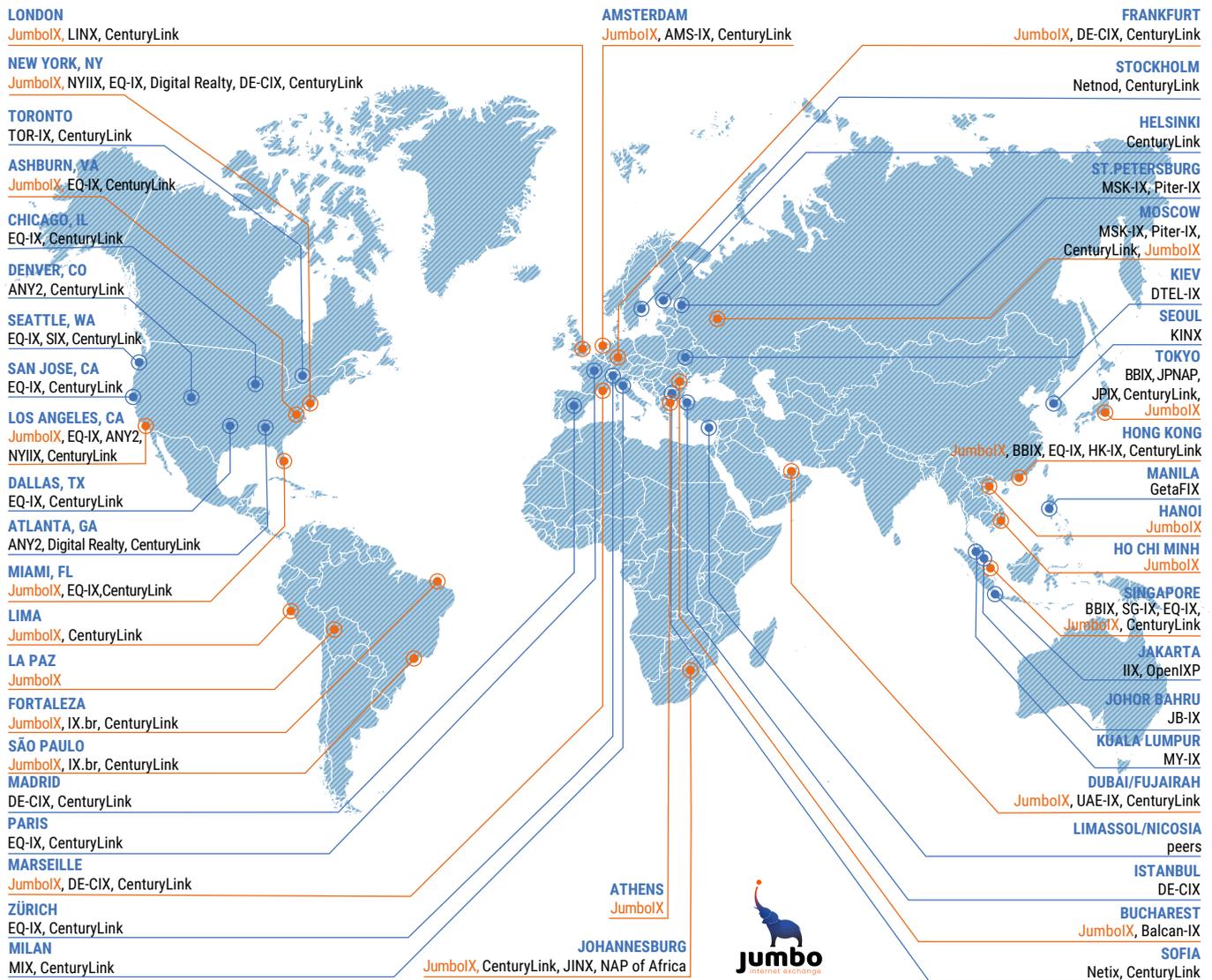
- GigaNET (Kiev)
- UA-IX (Kiev)
- CLOUD-IX MSK (Moscow)
- W-IX (Moscow)
- Global-IX (Moscow, St. Petersburg, Helsinki, Bromma)
- Data-IX (St. Petersburg)

### AMERICAS:

- CIX-ATL (Atlanta, GA)

- ChIX (Chicago, IL)
- CoreSite - Any2 Denver
- MegalX Los Angeles
- FL-IX (Miami, FL)
- Equinix Palo Alto
- SFMIX (San Francisco)
- MegalX Seattle
- Nap of Peru (Lima)
- Equinix São Paulo
- Equinix Toronto

## GLOBAL PEERING



IPTP JumboIX is our unique latest platform which is available now for trial, so you can try to run your business on bigger frames (MTU 9000) over the Globe.

### OFFICIAL RESELLER STATUS:

|               |                           |  |  |   |
|---------------|---------------------------|--|--|---|
| <br>London    | <br>Amsterdam             | <br>New York NY, Ashburn VA, Chicago IL, Seattle WA, San Jose CA, Los Angeles CA, Dallas TX, Miami FL, Zürich, Paris, Madrid, Hong Kong, Singapore | <br>Madrid, Marseille, New York, Frankfurt, Istanbul | <br>Denver CO, Los Angeles CA, Atlanta GA |
| <br>Stockholm | <br>St.Petersburg, Moscow | <br>St.Petersburg, Moscow  | <br>Kiev   | <br>Tokyo, Hong Kong, Singapore           |
| <br>Manila    | <br>Tokyo                 | <br>Tokyo  | <br>Johor Bahru                                      | <br>New York, Los Angeles                 |
| <br>Singapore | <br>Johannesburg          | <br>Sydney, Perth  | <br>Auckland   |   |

# IPTP Networks' Facilities

| AMERICAS  | Points of Presence  | On-Net Datacenters   | EMEA   | Points of Presence   | On-Net Datacenters  |   |  |
|---|---|--|--|--|---|---|--|
| <b>Denver, CO</b><br><b>Los Angeles, CA</b><br><b>San Jose, CA</b><br><b>Ashburn, VA</b><br><b>Chicago, IL</b><br><b>Dallas, TX</b><br><b>Atlanta, GA</b><br><b>Miami, FL</b><br><b>New York, NY</b><br><b>Seattle, WA</b><br><b>Toronto</b><br><b>São Paulo</b><br><b>Fortaleza</b><br><b>Santiago</b><br><b>Lima</b><br><b>La Paz</b> | Coresite - DE1<br>CoreSite LA1<br>Equinix LA1               | 910Telecom Denver<br>CoreSite LA1/LA2<br>Equinix LA2<br>Equinix El Segundo LA3/LA4<br>Digital Realty Trust | <b>Amsterdam</b><br><b>London</b><br><b>Zürich</b><br><b>Milan</b><br><b>Paris</b><br><b>Marseille</b><br><b>Frankfurt</b><br><b>Luxembourg</b><br><b>Madrid</b><br><b>Stockholm</b><br><b>Limassol</b><br><b>Nicosia</b><br><b>Larnaca</b><br><b>Sofia</b><br><b>Athens</b><br><b>Bucharest</b><br><b>Moscow</b><br><b>St. Petersburg</b><br><b>Kiev</b><br><b>Bishkek</b><br><b>Dubai</b><br><b>Manama</b><br><b>Mumbai</b><br><b>Johannesburg</b> | IPTP Matrix 4<br>Equinix AM1<br>Digital Realty (Science Park)<br>NIKHEF<br>Iron Mountain AMS1<br>Datacenter.com AMS1 | Equinix AM2/AM3/AM5/AM7<br>Interxion Science Park<br>NAP of Amsterdam |   |  |
|   | Equinix SV1   | Equinix SV2/SV3/SV5/SV10<br>Equinix SV4/SV6/SV8  |  | Equinix DC5  | Equinix DC1-DC4/DC6-DC13  | Equinix LD4/ LD5  | Equinix LD6/LD10   |
|   | Equinix CH4   | Equinix CH1/CH2<br>Digital Realty (350 E Cermak)   |  | Equinix DA3  | Equinix DA1-2/DA4-DA6   | Equinix ZH4<br>Interxion  | Equinix ZH1/ZH2/ZH3/ZH5                                    |
|   | Digital Realty   Telx                                       | Equinix AT2/AT3<br>Colo Atl<br>Colo at 55  |  | Equinix MI1  | Equinix MI2/MI3   | Enter<br>MIX  | KPNQwest<br>Telnet Caldera<br>Netscalibur Telehouse<br>GTT |
|   | Digital Realty   Telx (111 8 <sup>th</sup> )<br>Equinix NY4 | Equinix (111 8 <sup>th</sup> )<br>1025Connect NY<br>Equinix NY2/NY5  |  | Telehouse 2 Voltaire   | Interxion MRS1  | Interxion MRS1  | Net Center SFR   |
|   | Westin Building   | Equinix SE2/SE3  |  | Equinix TR1  | Equinix TR2<br>Cologix TOR1<br>Neutral Data<br>Telehouse Canada       | Newtelco<br>Equinix FR5/FR6   | CenturyLink<br>Equinix FR1-FR4/FR7<br>ITENOS               |
|   | Equinix TR1   | Equinix TR2<br>Cologix TOR1<br>Neutral Data<br>Telehouse Canada  |  | Equinix SP3  | Equinix SP1/SP2/SP4   | Equinix SK1   | Equinix SK2/SK3  |
|   | Mob Telecom   | Equinix NY2/NY5  |  | CenturyLink  | K1 Limassol   | Cablenet Engomi   | U1 Limassol  |
|   | CenturyLink   | Equinix NY4  |  | CenturyLink<br>San Isidro DC   | TripleA   | Data Center/Teleport<br>Telepoint Sofia   | Telepoint East   |
|   | PIT Bolivia   | Equinix NY2/NY5  |  | CenturyLink<br>San Isidro DC   | TripleA   | TI Sparkle ATH03  | NXDATA-1<br>NXDATA-2                                       |
|   | <b>ASIA-PACIFIC</b>   | <b>Points of Presence</b>  |  | <b>On-Net Datacenters</b>  | <b>Points of Presence</b>   | <b>On-Net Datacenters</b>   | <b>Points of Presence</b>                                  |
|   | <b>Hong Kong</b>  | Equinix HK1<br>MEGA-iAdvantage<br>HKCOLO Sino Favour Center  |  | Equinix HK2-HK5  | <b>Moscow</b>   | Moscow M9<br>Moscow B17/3Data<br>IKI<br>Dataspace<br>IXcellerate<br>NRZ Novoryazanskaya | Trust Info<br>Orange (Moscow)                              |
|   | <b>Beijing</b><br><b>Shanghai</b><br><b>Shenzhen</b>        | Beijing POP (Yizhuang EDZ)<br>Shanghai IDC<br>China Shenzhen GDS   |  | Chief LY Building (eASPNet)  | <b>St. Petersburg</b>   | B57 (Borovaya 57)   | B. Morskaya 18   |
|   | <b>Taipei</b>   | Chief LY Building (eASPNet)  |  | Equinix SG1<br>Global Switch   | <b>Kiev</b>   | Newtelco  | Bishkek ElCat  |
|   | <b>Singapore</b>  | Equinix SG1<br>Global Switch   |  | Equinix SG2/SG3  | <b>Bishkek</b>  | Bishkek ElCat   | Equinix DX1<br>Equinix DX2/ Datamena IMPZ                  |
| <b>Tokyo</b>  | Equinix TY2<br>AT TOKYO (CC1)<br>NTT DATA Otemachi Bldg     | Equinix TY1/TY3-10   | <b>Dubai</b>   | Equinix DX1<br>Equinix DX2/ Datamena IMPZ  | Equinix DX2/ Datamena IMPZ  |   |  |
| <b>Seoul</b>  | KINX IX Center (Dogok)                                      | Equinix TY1/TY3-10   | <b>Manama</b>  | INFONAS  | INFONAS   |   |  |
| <b>Ho Chi Minh</b><br><b>Hanoi</b>  | CMC IDC Ho Chi Minh<br>CMC IDC Hanoi                        | Equinix TY1/TY3-10   | <b>Mumbai</b>  | Web Werks DC 1   | Web Werks DC 1  |   |  |
| <b>Jakarta</b>  | Datacenter APJII-Cyber                                      | Equinix TY1/TY3-10   | <b>Johannesburg</b>  | Teraco House JB1<br>Teraco House JB2   | Teraco House JB1<br>Teraco House JB2                                  |   |  |
| <b>Kuala Lumpur</b>   | CSF CX1 Cyberjaya   | Equinix SY5<br>Global Switch Sydney  | Teraco House JB1<br>Teraco House JB2   | Teraco House JB1<br>Teraco House JB2   | Teraco House JB1<br>Teraco House JB2                                  |   |  |
| <b>Sydney</b>   | Equinix SY5<br>Global Switch Sydney                         | Equinix SY1-SY4,SY6,SY7  | Teraco House JB1<br>Teraco House JB2   | Teraco House JB1<br>Teraco House JB2   | Teraco House JB1<br>Teraco House JB2                                  |   |  |
| <b>Auckland</b>   | The Data Centre   | The Data Centre  | Teraco House JB1<br>Teraco House JB2   | Teraco House JB1<br>Teraco House JB2   | Teraco House JB1<br>Teraco House JB2                                  |   |  |



Get the latest version of this magazine!

Scan the QR code to see the latest updates of this magazine on your device:  
 Direct link: <https://iptp.com/cm>



www.iptp.com

# Global Network And Points Of Presence Map

IPTP Networks is a worldwide, ultra-high bandwidth network infrastructure provider that is independently owned, diverse and secure.



AS41095

### MAP LEGEND:

-  Own data center
-  Fully operational Point of Presence
-  Partly operational Point of Presence
-  10-100G IRU, long or short term leased Wave, spectrum or SDH capacity
-  Planned capacities to be activated in 2020-22
-  L2 service available



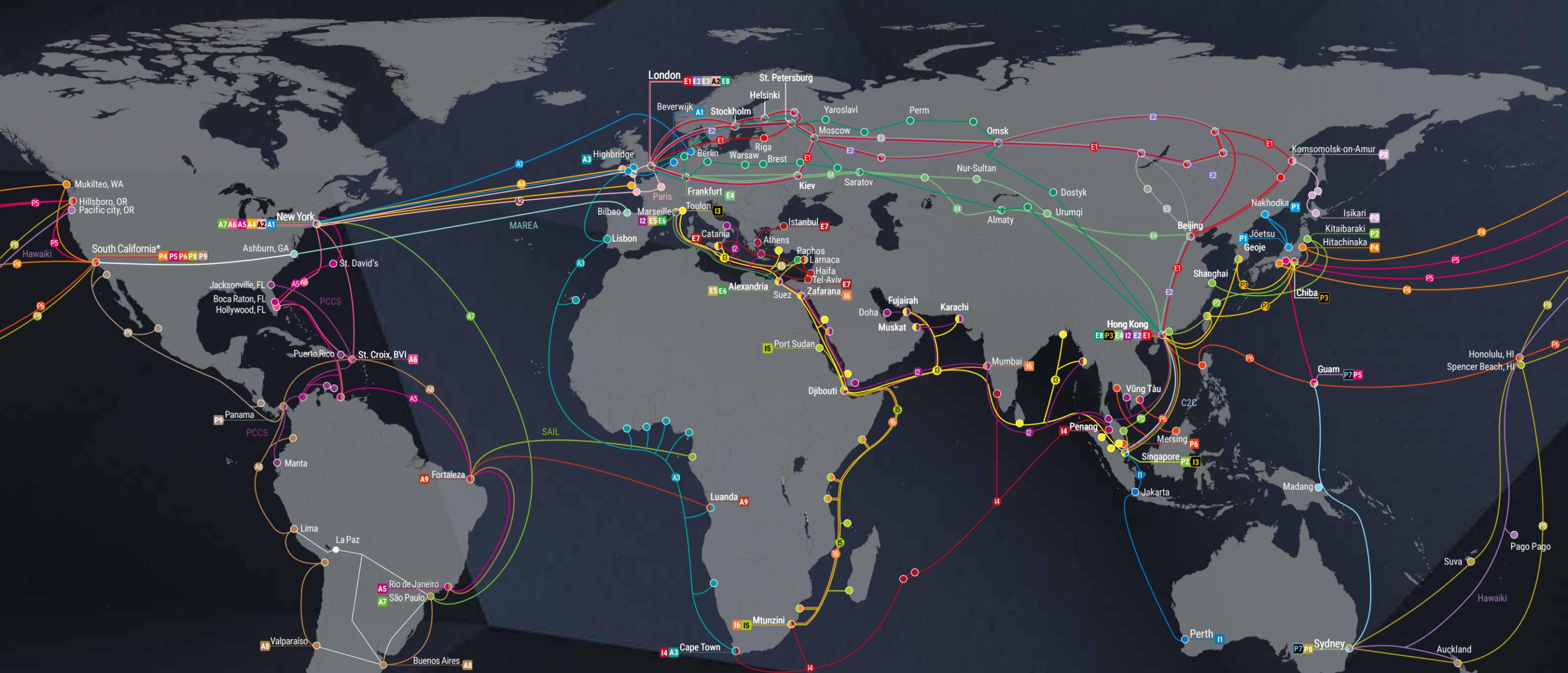
This map is changing over time, to see the last version of this map, please scan the QR code or simply put the following direct link into you browser:

<https://iptp.com/map>



**Need more information?**  
**Check out our live weathermap:**  
 Scan the QR code to see the live diagram of our network:  
 Direct link: <https://iptp.com/wm>

# IPTP Networks | Low Latency Routes Map



## Lowest latency chart

round trip delay in milliseconds

### NEW YORK RTD ▶

|              |   |        |
|--------------|---|--------|
| Chicago      | → | 15 ms  |
| London       | → | 64 ms  |
| Zürich       | → | 75 ms  |
| Limassol     | → | 119 ms |
| Hong Kong    | → | 215 ms |
| Johannesburg | → | 223 ms |
| Singapore    | → | 223 ms |

### LONDON RTD ▶

|           |   |         |
|-----------|---|---------|
| Frankfurt | → | 9 ms    |
| Moscow    | → | 35 ms   |
| New York  | → | 64 ms   |
| Limassol  | → | 53 ms   |
| Chicago   | → | 85 ms   |
| Hong Kong | → | <156 ms |
| Singapore | → | 157 ms  |

### FRANKFURT RTD ▶

|           |   |         |
|-----------|---|---------|
| Zürich    | → | 4 ms    |
| London    | → | 9 ms    |
| Moscow    | → | 31 ms   |
| Limassol  | → | 44 ms   |
| Dubai     | → | 94 ms   |
| Hong Kong | → | <145 ms |
| Tokyo     | → | 166 ms  |

### HONG KONG RTD ▶

|             |   |         |
|-------------|---|---------|
| Singapore   | → | 28 ms   |
| Tokyo       | → | 47 ms   |
| Moscow      | → | <120 ms |
| Los Angeles | → | 131 ms  |
| Frankfurt   | → | <145 ms |
| Zürich      | → | 149 ms  |
| London      | → | <156 ms |
| New York    | → | 214 ms  |

### SINGAPORE RTD ▶

|           |   |        |
|-----------|---|--------|
| Hong Kong | → | 28 ms  |
| Tokyo     | → | 64 ms  |
| Dubai     | → | 76 ms  |
| London    | → | 157 ms |
| New York  | → | 223 ms |

For more information please see the interactive map online:



[iptp.com/internet-access/low-latency-routes/](http://iptp.com/internet-access/low-latency-routes/)

## EURASIAN CABLE SYSTEMS

- E1 Europe-Russia-Mongolia-China (ERMC)**  
Latency: Hong Kong - London (185/195 ms)  
Capacity: up to 400 Gbit/s.
- E2 ERA or Europe-Russia-Asia**  
Latency: Hong Kong - London (200 ms)  
Latency: Moscow - Amsterdam (37 ms)
- E3 ERC or Europe-Russia-China**  
Latency:  
Hong Kong - London (230/240 ms)

- E4 Rapid Europe Asia Link (REAL)**  
The shortest link between Europe and Asia.  
Lit capacity: 200 Gbit/s.  
Latency: Hong Kong - Frankfurt (149 ms)
- E5 ALEXANDROS**  
Latency: Cyprus-Egypt (7 ms)  
Latency: Cyprus-France (17 ms)  
Capacity: 96x10Gbps.
- E6 HAWK**  
Total length: 3400 km  
First use: 2011

- E7 MedNautilus**  
Total length: 5729 km  
Design capacity: 3.84Tb/s (6 fiber pairs)  
First use: 2001
- E8 Prime Interconnection Pacific-to-Europe (PIPE)**  
Latency: Hong Kong – Frankfurt 145 ms  
Hong Kong – London 156 ms  
Hong Kong – Moscow 120 ms

## INDIAN OCEAN CABLE SYSTEMS

- I1 Australia-Singapore Cable (ASC)**  
Length: 4,600 km  
Build in: 2018  
Fibre pairs: 4  
Design capacity: 40 Tbit/s  
Lit capacity: 2.5 Tbit/s (total)

- I2 Asia Africa Europa-1 (AAE-1)**  
Length: 25,000 km  
Technology: 100Gbit/s  
Design capacity: 40 Tbps.  
Fibre pairs: 5

- I3 South East Asia-Middle East-Western Europe 5 (SEA-ME-WE 5)**  
Length: ≈ 20000 km  
Design capacity: 24 Tbit/s  
No of fibre pairs: 3  
Landing ports: 19  
Build in: 2016.

- I4 SAFE (The South Africa Far East)**  
Length: 13104 km  
Fibre pairs: 4  
Lit capacity: 440 Gbit/s  
Technologies: Erbium-doped fiber amplifier repeaters, WDM technology.  
Latency: Mtunzini, SouthAfrica – Penang, Malaysia (46 ms)

- I5 EASSy (The Eastern Africa Submarine CableSystem)**  
Length: 10000 km  
Operators: 16  
Capacity: > 10 Tbit/s  
Fibre pairs: 2  
Technologies: built-in resilience end-to-end  
Latency: Mtunzini, South Africa - Port Sudan, Sudan (94 ms).

- I6 SEACOM/Tata TGN-Eurasia**  
Length: 15000 km  
Latency:  
1) Mtunzini, S. Africa – Zafarana, Egypt (115 ms)  
2) Mtunzini, S. Africa - Mumbai, India (93 ms)

## ATLANTIC CABLE SYSTEMS

- A1 Atlantic Crossing 1 (AC-1)**  
Length: 14,000 km  
Lit capacity: 120 Gbit/s.  
Latency: U.S. - U.K. (≈ 64/65 ms)

- A2 FLAG Atlantic-1 (FA-1)**  
World's first dual terabit/s transoceanic cable system.  
Design capacity: 4.8 Tbps  
Lit capacity 320 Gbit/s  
Technology: DWDM  
Latency: London - New York (67 ms)  
Latency: New York - Paris (71 ms)

- A3 West African Cable System (SAT-3/WACS)**  
Length: 14530 km  
Fiber pairs: 4  
Terminal stations: 15  
No. of operators: 17

- A4 Apollo South / Apollo North**  
Length: 13000 km  
Topology: Two Fully Diverse Paths  
Design capacity: > 3.2 Tbit/s per Leg  
Technology: Fibre Optic DWDM  
First use: 2003  
Capacity: 300 Gbit/s

- A5 GlobeNet**  
Type: dual ring-protected  
Length: 23500 km.  
Design capacity: 1.36 Tbit/s  
(34 x 10 Gigabit x 4 fiber pairs)  
Built in: 2001.

- A6 Mid-Atlantic Crossing (MAC)**  
Length: > 7500 km  
Built in: 2000  
Design capacity: 920 Gbps

- A7 Seabras-1**  
Capacity: 72Tbit/s  
Technologies: 100 Gbit/s coherent, ultra-low latency SeaSpeed™, Bandwidth-on-Demand

- A8 South American Crossing (SAC)/Latin American Nautilus (LAN)**  
Length: ≈ 20,000 km

- A9 SACS (South Atlantic Cable System)**  
Length: 6,165 km  
Fibre pairs: 4  
Fibre type: 100 wavelenghts x 100Gbit/s.

also in Atlantic region:

- South Atlantic Inter Link**  
Length: 5900 km

- Pacific Caribbean Cable System (PCCS)**  
Length: 6000 km

- MAREA**  
RFS: 2018 February  
Length: 6,605 km

**Yellow**  
Length: 7001 km

## PACIFIC CABLE SYSTEMS

- P1 The RJCN or (Russia-Japan Cable Network)**  
Length: 1800 km  
Design capacity: 640 Gbit/s.  
Built in: 2008  
Latency: Tokyo - London via TEA (196 ms)  
Wavelength: transparent 10 Gbps

- P2 APCN-2 or Asia-Pacific Cable Network 2**  
Length: 19000 km  
Landing stations: 10  
Design capacity: 2.56 Tbps  
Technology: 64x10 Gbps, built with a self-healing function, DWDM  
Latency: Singapore - Japan (86 ms)  
Operators: 45 carriers

- P3 FLAG North Asia Loop/REACH North Asia Loop**  
Length: 10000 km  
Type: 6-fiber-pair redundant loop, upgradeable  
Technologies: DWDM, self-healing  
SLA: 99.99%

- P4 PC-1 or Pacific Crossing 1**  
Length: 21000 km  
Latency: Tokyo, Japan – Seattle,USA (83 ms)  
Tokyo, Japan – Los Angeles, USA (110 ms)  
Capacity: up to 10Gbps (SDH and wavelength)  
Ethernet services: up to 10G LAN PHY, 10G WAN PHY, 100GE connections.

- P5 Tata TGN-Pacific**  
Length 22800 km  
Technology: self-healing ring, 96x10 Gbps DWDM  
Fiber pairs: 8.  
Lit capacity: 1.6 Tbps  
Built in: 2002

- P6 Asia-America Gateway (AAG)**  
Length: 20000 km  
Capacity:  
2.88 Tbit/s (California-Hawaii)  
2.88 Tbit/s (Hong Kong - Mersing, Malaysia)  
1.92 Tbit/s (Hawaii - Hong Kong)  
Latency: Hong Kong - Singapore: 28 ms

- P7 PIPE Pacific Cable-1 (PPC-1)**  
Length: 7000 km  
Fibre pairs: 128 × 10 Gbps  
Capacity: 2.56 Tbps

- P8 Southern Cross Cable Network (SCCN)**  
Length: 28000 km undersea, 2000 km terrestrial.  
Technology: 40G  
Design capacity: >6 Tbit/s  
Lit capacity: 5.4 Tbit/s  
Build in: 2000

- P9 Pan-American Crossing (PAC)**  
Length: 9600 km  
Design capacity: 800 Gbit/s

also in Pacific region:

- C2C**
- Hawaiki**
- South-East Asia Japan Cable System (SJC), Asia Pacific Gateway (APG), Tata TGN-Intra Asia (TGN-IA), FASTER**

# Managed Connectivity Services

For best global and regional coverage

## MULTIPROTOCOL LABEL SWITCHING (MPLS)

**Multi-protocol Label Switching (MPLS)** is a prominent technology we maintain for numerous multi-site companies across the world. This service is ideal for businesses that run applications such as credit card transactions (PCI DSS), accounting packages and/or stock information or other services requiring fast and secure connectivity.

- **VPLS:** is the Ethernet-based multi-point switching service (Layer 2 Virtual Private Network) which allows you to connect geographically dispersed Ethernet LAN sites to each other across an MPLS backbone. For VPLS user, all sites appear to be in the same Ethernet LAN even though traffic travels across the globe. The paths carry VPLS traffic between each Provider Edge router via the BGP session.

- **EoMPLS:** Ethernet over MPLS is a Cisco solution which extends MPLS by tunnelling Layer 2 Ethernet frames across a Layer 3 core and allows the control over the traffic. EoMPLS works by encapsulating Ethernet PDUs in MPLS packets and forwarding them across the MPLS network. EoMPLS supports more than 4,096 VLANs by the service provider.

- **L2MPLS/VPN Pseudowire:** Pseudowire is a mechanism for emulating various networking or telecommunications services across packet-switched networks delivered over MPLS. This technology can be used to interconnect different types of media, like Ethernet to Frame Relay. These L2VPNs provide an alternative to private networks provisioned by dedicated leased lines or by L2 virtual circuits. The service maintained with these L2VPNs is known as Virtual Private Wire Service (VPWS).

## YOUR BENEFITS:

WIDE-SPREAD GLOBAL NETWORK

FREE OF PACKET LOSS

LOW LATENCY POINT-TO-POINT CONNECTIVITY

BACKBONE PROTECTION WITH HIGH SLA 99.9999% FOR N+2 SOLUTION

## WHY IPTP NETWORKS?

- High quality resilient latency, optimized broadband network for best global and regional coverage.

- Transparency: Global backbone publicly viewable and looking-glass available from most of the routers deployed around the Globe.

- Multiple interfaces types: 1 Gbps / 10 Gbps / 100 Gbps over 170+ datacentres around the Globe.

- 24/7 NOC support: Network engineers available for fast and high-quality troubleshooting.

- Multifunction: Simplify connectivity with access to multiple peers over one physical port.

- High-performance services with high-availability SLAs.

- Dual stack IPv4/ IPv6 support.

- Flexibility: Billing options flat/max/average/95%-tile.

- Neutrality: IP Transit from our partners could be bundled and offered as part of solutions for greater redundancy and route optimization.

- Get the community list and black-hole community support.

- Lower costs (in selected locations).

Get the latest version of our magazine.

Scan the QR code to see the latest updates of this magazine on your device:



Direct link: <https://iptp.com/cm>

**"IPTP is the first company to state that it 'simply provides proper internet', and for many years it has done just that!"**

Alexey Bozrikov, The head of IT, SCF Unicom  
<http://www.unicom-cy.com>

## IP TRANSIT

The unique position on the market and global coverage of IPTP Networks' (AS41095) makes it be recognised by a large number of providers as a Tier 1 Internet Service Provider (ISP), and ranked in the top 40 position of the global ISPs by Caida.

Most of the Internet Service Providers (ISPs), the size of IPTP Networks, or even smaller, call themselves a "Tier-1 ISP". Classically speaking, a Tier-1 ISP shall not have any payment relations with any party and shall be strictly selling IP Transit only to Tier-2 ISPs. In reality, even the largest ISP companies have bilateral payment relations with several same-level ISPs. However, classically speaking, IPTP Networks is a single-homed Tier-2 ISP, as we are globally seen behind CenturyLink (AS3356). We also have regional specific relations in Asia with PCCW Global (AS3491) and in LATAM for the purpose of having best local access in South America with the ex-"Global Crossing" and nowadays CenturyLink (AS3549).

The majority of recognized Tier-1 providers maintain global peering relations with IPTP Networks, which guarantees that you will always be using the shortest transit route available, over 1500 BGP sessions and more than 1000 peering ports all around the globe. Such technical approach, in combination with our own global latency-aware backbone network, ensures you that your data is promptly accessible with ultra-low latency and most likely in symmetrical way, which helps to avoid jitter and/or packet loss.

## IX TRANSIT

Is a unique Layer-3 product, developed for those who are keen to optimize their networks by themselves. IX Transit is basically a partial IP Transit with reach to the BGP community set for management outbound announces and flexible filtering of received prefixes. It provides approximately 350,000 prefixes of global BGP table that we are constantly obtaining via various Internet Exchanges, peering partners and customers around the Globe. The strong BGP community list that we support for both directions allows you to try most popular Internet Exchanges one by one or in any of your preferred combination; as well as some specific ASNs can be excluded/included for further fine-tuning.

For those who use IX Transit in combination with other upstream providers, it could be up to 60% of their traffic improvement performance and latency without building their own interconnections with IXPs. It will bring the value to get a greater global coverage via major the IXPs and IPTP Networks' customers and partners.

**What is the difference between IP and IX Transit?** IP Transit is performed on the level of a formal agreement (SLA) between the ISP and the transit provider which provides the services to ISP at the costs they have previously defined. With IX Transit we are basically talking about an agreement between two ISPs, which are obtaining mutual exchange of data. Overall, we can simplify that, while IP Transit is the connection between classical Tier-1 and Tier-2 providers, IX Transit is the connection between classical Tier-2 providers only.

## YOUR BENEFITS:

- RANKING IMPROVEMENT
- GREATER RELIABILITY
- MORE ACCURATE PREDICTION OF ROUTING
- BETTER PERFORMANCE FOR USERS
- A SINGLE PROVIDER FOR ALL YOUR GLOBAL NEEDS
- CARRIER NEUTRAL NETWORK
- CUSTOMIZABLE BANDWIDTH SOLUTIONS
- 24/7 CUSTOMER SUPPORT

# Managed Connectivity Services

Sophisticated solutions for best routing and connectivity

## **IPLC (International Private Leased Circuit)**

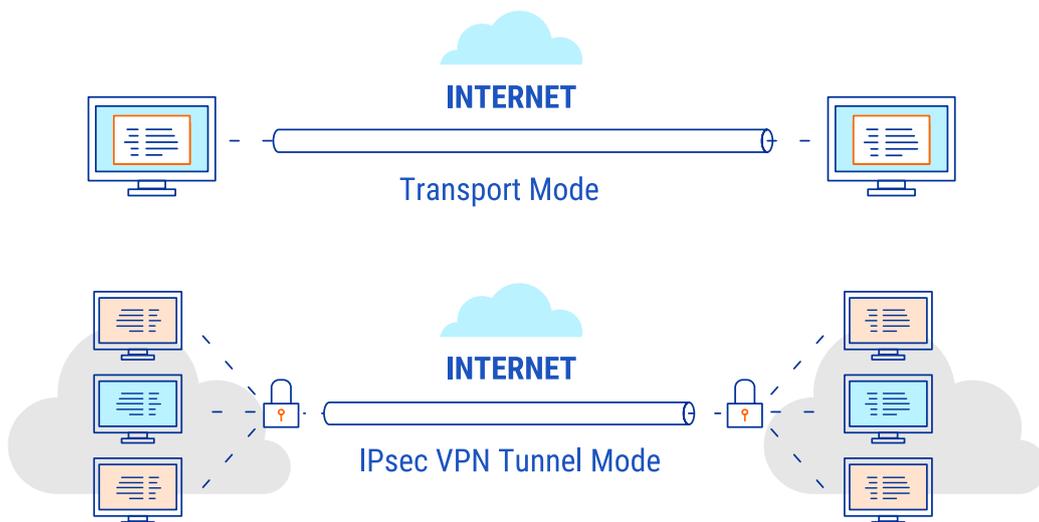
An international point-to-point leased line service provides a dedicated, reliable and secure point-to-point 24/7 connectivity solution between customers' premises and locations worldwide and allows organizations to communicate between offices that are geographically dispersed throughout the world. IPLC supports all types of traffic (Voice, Data, Video or any other latency and jitter-sensitive multimedia applications), provides a wide range of bandwidth and offers scalability and flexibility to meet your present and future communications needs. Benefits include secure and confidential support for numerous interfaces, data rates and protocols, connection to the world via subsea cables, high capacity, full resiliency, support for asynchronous transfer mode (ATM) and technical support for any application. We can place a single order with a single carrier for two private leased circuits for two offices in two different countries and allows the organization to report all problems from either circuit to one carrier.

## **EPL (Ethernet Private Line)**

A cost-effective connectivity solution that enables your organization to meet the demand of bandwidth-intensive applications with reliable, flexible, high bandwidth P2P configurations delivering high-capacity fiber connections between two sites. It enables you to connect your CPE using Ethernet interface with lower cost and allows you to use any VLANs or Ethernet control protocol across the service without coordination with IPTP. QoS-aware EPL allows you to deliver voice, data, video and any other media streams.

## **CLOUD/CDN ENABLER**

Our company serves as the backbone for numerous Cloud and CDN computing products and services, allowing us to build, deploy, integrate and deliver Cloud/CDN computing solutions. The service allows you to reduce IT costs for application and infrastructure, streamline operations and significantly speed up the process of accessing the market.

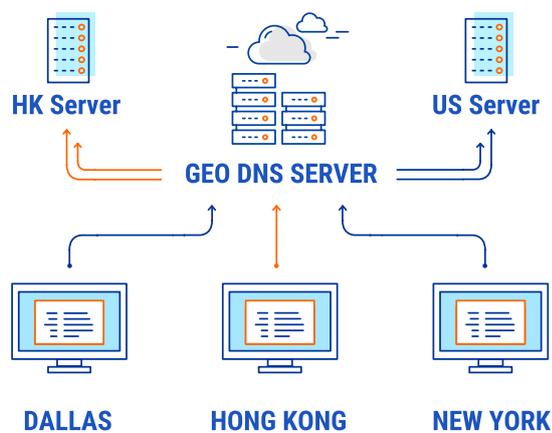


## **IPSec VPN**

To ensure the smooth running of operations every enterprise requires secure site-to-site connectivity. We offer you a service that has DES, 3DES and AES encryption and can be provided together with managed Firewall. Our framework of open standards (based on RFC specifications and the IPsec protocol) delivers IPsec encryption and provides tunneling protocols, data confidentiality, data integrity, and data authentication over unprotected networks (such as the Internet), all through encrypted data streams over a private or public network.

"Our cloud services including the GWS hybrid cloud and GWStack appliance built on VMware technology-based cloud platform can be connected not only to eASPNet platform, but also a number of international cloud providers such as AWS, Azure, Google, Alibaba Cloud etc. This is possible because of our brilliant partnership with IPTP Networks as global high-speed network connections provider for multi-cloud, cross-cloud premium cloud services. "

Jackson Wu, President of eASPNet ([www.easynet.com/en/](http://www.easynet.com/en/))



Simple GeoDNS configuration

### MANAGED METRO ETHERNET

Cisco-powered, managed Metro Ethernet provides you with high-speed site-to-site connectivity, supporting the delivery of Voice, Video and other mission-critical applications. We provide QoS functionality, including classification and prioritization techniques and deliver a variety of point-to-point and multipoint Ethernet services over Layer 1, Layer 2 and Layer 3 topologies with seamless integration.

### SIP TRUNKING

We provide you with core connectivity, emergency services, dial plan management and operation services, as well as executing all of your local and long distance call connections. Cisco-powered managed IP Trunking service is a Session Initiation Protocol (SIP) based trunk from us to an IP PBX or any other IP Telephony system, delivering voice, multimedia and data traffic. In addition, we provide you with an IP termination service that features PBX with a gateway, an IAD or an IP PBX. Comprehensive SLAs cover the overall performance of the service and you always have online access to detailed service-performance reports.

### GEO DNS

GeoDNS is a DNS (Domain Name System) solution that can distribute load for a hostname to the nearest 'mirrors' (geographically defined; on the country/continent level). GeoDNS could be named as one of the following: geolocation load balancing, geolocation-aware DNS or GSLB (Global Server Load Balancing). The service does not require any support from the ISP and will not break existing connections when the server selected for a particular client changes. If you have servers in multiple locations, GeoDNS provides a way to direct users to the closest server, which means that your visitors reach your website faster.

### MANAGED INTERNET

We offer you a service that delivers connectivity regardless of your location and access methods. Backed by comprehensive SLAs, online access to real-time and historical service-performance reports, it features top of the line quality of service, access control lists and other industry-leading practices. As a result, you receive a secure Internet connection based on Cisco's Self-Defending Network line of products supplemented by IPTP's in-house development and architecture, all built upon a highly reliable infrastructure.

### BGP ANYCAST

BGP (Border Gateway Protocol) Anycast allows for network level failover of IP Address space. This is achieved by announcing the same prefix into the global routing table from multiple locations. In an event of one location going offline, the global routing table adjusts automatically and routes traffic to the next nearest location, announcing the same prefix. As well as the failover, Anycast provides the "best path" to access the content, which means that user automatically connects to an Anycast location nearest to him, based on the network.

# Anything Remote

Your virtual presence at our global network

All our facilities are designed to ensure the maximum convenience for our clients. ITPN Networks as a SD-WAN Enabler provides a foundation of the highest standards for constructing outstanding, custom-made managed connectivity solutions, designed to fit each client’s individual business model.

### REMOTE IP TRANSIT

Via our MPLS services you can easily start using our remote IP Transit service which will give you the opportunity to connect to any of our on-net datacentres all over the globe. One of the biggest advantages of using remote IP Transit is that you do not have to invest into physical equipment locally and you can use our global facilities for reaching the desired points. Use our free of packet loss and low-latency global backbone infrastructure to reach your desired destination via the most optimal route available. ITPN Networks as a service provider can make your business life easier by eliminating the need for managing multiple relationships with different ISPs and reducing this number to a single source for your connectivity.

### VIRTUAL POP

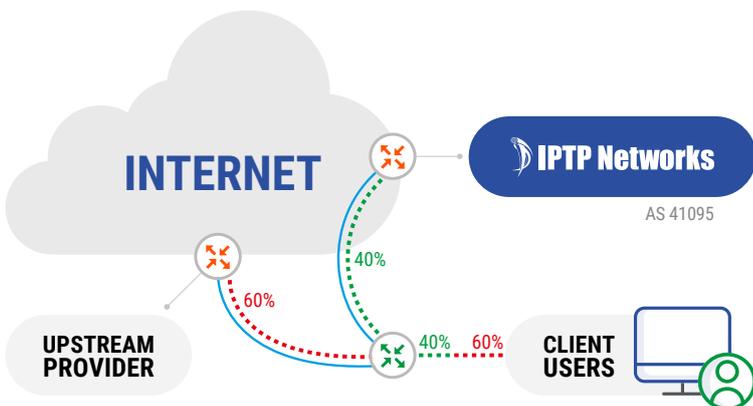
ITPN Networks’ Virtual POP service will help you to save time and money. It is suitable for any Carrier, who wants to build their business fast and without additional costs. Using our Virtual POP, you can create new points of presence at any available location; no additional CAPEX expenses or long term commitments. The service is highly scalable, fully manageable by the customer and easy to use and control.

### REMOTE IX TRANSIT

Remote IX Transit service could be either used in combination with IP Transit or IX transit service in a way of obtaining remote regional specific routes or being used separately. In similarity with IX Transit service it provides same number of prefixes (approximately 350,000) and same way could be fine-tuned with reach of BGP community set. In that case BGP session is established with remote router over L2 MPLS link in order to obtain desired regional specific routes and perform deeper traffic engineering on global scale.

### YOUR BENEFITS:

- No CAPEX Investment
- VLANS on the fly
- Comprehensive SLA Assurance
- 24/7 Network Operations Centre for Monitoring & Support
- Available at any Points of Presence
- Allocate as much ports as you need at every location
- Manage all cross connects by yourself
- Get billed according to circuits allocated



### IX TRANSIT SCHEME

CAPTION:

- CROSS CONNECT
- - - IX TRANSIT ITPN
- · · IP TRANSIT FROM UPSTREAM PROVIDER
- ROUTER
- CLIENT ROUTER

**"IPTP is a key partner who helped to make our Otemachi Data Center, where many Japanese IXs/ ISPs gather, to a hub with true global connectivity."**

Yosuke Hiyama, Member of the Board & Operating Officer, DC, Cloud & Storage Sales, BroadBand Tower, Inc.

## REMOTE PEERING/REMOTE IX

The uniqueness of IPTP Networks remote access to Internet Exchanges and private peers, via protected MPLS backbone, provides an ultimate flexibility that will help you to create your own design and traffic engineering solutions from a single port. Basically looking at IPTP Networks backbone you can select your preferred primary route with specific latency and backup route, and even more, you can add a VPLS aggregation points and peer directly at Internet Exchanges according to your business needs.

## REMOTE PEERING IS AVAILABLE THROUGH

### VLANS TO:

**Any2 Coresite** (Los Angeles, Denver)

**AMS-IX** (Amsterdam)

**Balcan-IX** (Bucharest)

**Interlan** (Bucharest)

**DE-CIX** (Frankfurt, Marseille)

**DTEL-IX** (Kiev)

**France-IX** (Paris, Marseille)

**JPNAP** (Tokyo)

**JPIX** (Tokyo)

**LINX** (London)

**MSK-IX** (Moscow)

**Netnod** (Stockholm)

IPTP Networks offers a brilliant possibility to become a full member of the largest Internet Exchanges with minimal financial efforts. Our remote peering service could help your company in some cases, to significantly reduce costs for IP Transit and use the best low latency routes provided by peering members. IPTP Networks is proud to be a member of more than 45 Internet Exchanges across the world. The geographical diversity of IPTP's network allows you to connect to our peering platform from more than 174 on-net datacenters worldwide, regardless of your company size.

**Net-IX** (Sofia)

**Piter-IX** (St. Petersburg)

**SPB-IX via MSK-IX** (St. Petersburg)

**IX.br** (São Paulo, Fortaleza)

### VIA DEDICATED 1G / 10G PORTS TO:

**BBIX** (Tokyo, Hong Kong, Singapore)

**Equinix** (Los Angeles, San Jose, Ashburn, Chicago, Dallas, Miami, New York, Toronto, São Paulo, Amsterdam, London, Zürich, Frankfurt, Stockholm, Hong Kong, Singapore, Tokyo, Sydney)

**Espanix** (Madrid)

**HKIX** (Hong Kong)

**SIX** (Seattle)

## DIRECT CONNECTION TO CLOUD PROVIDERS

IPTP Networks will help you to establish direct private connectivity between chosen cloud provider and your data-center, office, or colocation environment, which in many cases can reduce your network costs, increase bandwidth throughput, and provide a more consistent network experience than Internet-based connections. Use single or multiple ports at any location all around the Globe in order to deploy a secure direct connection of your digital infrastructure to more than 2500 cloud providers including Amazon Web Services (AWS), Microsoft Azure, Alibaba Cloud, Oracle Cloud, SAP Cloud, Salesforce, Google Cloud Platform and many others.

## YOUR BENEFITS:

- Lower bandwidth costs
- Consistent network performance
- Elastic connection
- Minimized security threats
- Better control of your data

Direct connection to cloud providers helps you improve the level of security and minimize threats bypassing the public internet and gives you better control on your connections with flexible bandwidth options. IPTP Networks can guarantee a perfectly secure and stable connection under SLA terms via the most optimal routes with the lowest possible latency, which is also jitter free.

# Dedicated Hosting

Cutting edge technology at your disposal



We provide safe and secure services with the aim to deliver the lowest possible latency. Our datacenters from all over the world provide you the best locations, availability, PCI DSS compliance, outstanding power density, and perfect redundancy.

By choosing our dedicated hosting service, in return, you get your online service available on the edge to your customers. Our high-end bare-metal servers are configured and customized according to your technical requirements. No sharing of space, CPU or RAM, your own administration, self-defined rights and complete freedom in the choice of operating system and hardware; all your resources belong to you only.

Our Dedicated Hosting service is offering high-performance, client-oriented, 1st class solutions in the most secured (PCI DSS) and demanded locations worldwide. We accommodate your applications for big data, machine learning, mission-critical sites, online gaming, streaming media, e-mail server, DNS server, chat platform and any other application hosting, backup and storage, infrastructure virtualization, server cluster, business applications (CRM, ERP) and anything else that requires great reliability, speed and a top level of security.

The fastest content delivery is guaranteed by the best possible routes available through our global low latency channels and our reliable diversified network connectivity. Each dedicated hosting server is connected to our privately owned backbone network with access to more than 170 datacenters ON-NET around the world. The Internet Access with dedicated capacity is provided with exclusive bandwidth rates up to 10Gbps.

Each data center has the duplication of critical components and functions allowing us to offer solutions up to 99.9999% SLA. Every detail of the data centre environment has been carefully configured to guarantee the best in security, resiliency, and efficiency. Our tried and tested security management system ensures that your data remains safe and private. Thanks to adjusted work of our engineers you can focus on your own business, improve your core services for greater profitability, move away from daily managing IT infrastructure and problem-solving.



IPTP Networks is a carrier-neutral datacentre provider giving you an opportunity to choose the best from hundreds of available providers in the market. IPTP Networks guarantees the best security and cost-effective datacentre solutions to maximize your business performance.



**"As a voice and messaging platform software company, with a big ambition to become a leader in CPaaS solutions for Communication Service providers, our infrastructure partner has to understand and be able to support real time communications platforms very, very well. They are sensitive in nature to latency and jitter and require super high availability in general and we believe we have found that partner in IPTP and their great support and response times, paired with their global reach are the icing on the cake."**

Andreas Hipp, CEO of Cataleya

Whether it be datacentre infrastructure, security or network accessibility, IPTP Networks can adapt to your business demands. Our ultimate goal here is to make it work for you.

#### ADVANTAGES:

- SPEED
- SAFETY
- RELIABILITY
- FLEXIBILITY
- INTERCONNECTION WITH LOCAL PROVIDERS
- EXCLUSIVE BANDWIDTH RATES

#### DEDICATED HOSTING INCLUDES:

- Repair and maintenance of hosted hardware and bandwidth utilization reports.
- Automated monitoring of your server 24/7, reboots and normal maintenance of hardware and software.
- Upgrades of patches, hot-fixes, and service packs.
- Wide range of pre-tested Supermicro servers.
- Rock-solid, 100% guaranteed Internet bandwidth of either 1, 10 or 100 Gbps ports.
- Exceptional global connectivity via IPTP Networks backbone.
- All network and security equipment provided by Cisco.
- Full equipment remote control via IPMI v2.0
- Remote power management port via APC PDU.
- Tier 1 basic protection against DDoS.
- 365/24/7 NOC live support.

#### OPTIONAL FOR DEDICATED HOSTING:

- Same Day Server Setup.
- Remote full administration for all hosted equipment.
- Cisco network and security appliances available.
- Wide range of Storage solutions based on enterprise-class Dell EMC.
- GEO-DNS, Anycast BGP solutions for optimal route service.
- International Private Line Circuits or EoMPLS to any location in the world for seamless connectivity available.
- Custom made Virtual Private Network.
- Available assistance and management of virtualization solutions RHEV/VMWare/Xen/Hyper-V.
- EoMPLS, DDoS Protection, Managed Service, Backup Space, Managed Firewall, Private VLAN port, remote connection to cloud providers.
- SLA 99.9999% for N+2 solutions.

# Colocation Services

We're present at the most demanded locations all over the world



With more than 20 years of experience in the field, IPTP Networks' colocation solutions can fully cater to your demands while ensuring a safe, high-level, professionally-maintained installation. Whether you're looking to host your full IT infrastructure or a single server for offsite backup, IPTP is sure to provide you with the protection and connection you need, with minimal cost and effort on your part.

IPTP Networks is providing Colocation services for any type of automated trading platforms, streaming media and other critical, high-bandwidth applications requiring security and availability. Top-level security is the most required condition from our customers and that is the main reason why IPTP Networks offers its services at PCI DSS (Payment Card Industry Data Security Standard) certified locations, which are dedicated to companies involved in handling and storing cardholder information for all major debit/credit card companies.

Whomever you are – media, financial corporation, bank, Forex market, game developer or big data company - we can provide a Colocation service in one of the most demanded locations all over the world (in such datacenters as Mega-i, HK1, LD4, M9, NY4, and many others). In our datacentres we

can offer a full (up to 48U) rack which you can use only by yourself and each of our racks includes cross-connect to IPTP Networks bandwidth.

IPTP Networks is a carrier-neutral datacentre provider giving you an opportunity to choose the best from hundreds available providers in the market. IPTP Networks guarantees the best security and cost-effective datacentre solutions to maximize your business performance.

Customer support is conducted by the NOC center, equipped with highly skilled engineers and operating 24/7 in all time zones. IPTP Networks provides you the best possible response time (up to 15 minutes) and technical support in 10 widely spoken languages.

As a Service Provider, IPTP Networks is oriented on delivering of IaaS (Infrastructure as a Service) to help your business grow stronger. Our points of presence are equipped with edge servers which are intended to provide better and faster performances.

## BENEFITS OF COLOCATION SOLUTIONS:

- PHYSICAL SECURITY

- RELIABILITY

- FLEXIBILITY

- LOW LATENCY CONNECTIVITY

- AVAILABILITY AT MOST DESIRED POPS

- EXCLUSIVE BANDWIDTH RATES

"Over the time that CardPay has been working with IPTP, we have enjoyed stable and secure servers and hosting facilities, which enabled us to grow and achieve greater success, thanks to their flexible and robust business solutions."

**Paul Dalziel, Business Relationship Manager at CardPay Inc.**

### COLOCATION INCLUDES:

- Rock-solid, guaranteed Internet bandwidth of either 1G, 10G, 100G ports with SLA up to 99.9999% for N+2 redundant solution.
- Remote power management port via APC PDU.
- 24/7 Live technical support with zero wait time.
- Customer Portal allowing access to real-time performance reports and billing functions.
- Exceptional worldwide connectivity via IPTP Networks backbone.
- Professionally customizable, upgradeable and configurable to your specific business model.
- Industry-leading security.
- Redundant power supply via privately-owned generators.

### OPTIONAL FOR COLOCATION:

- Seamless connectivity is provided via low-latency International Private Line Circuits or EoMPLS to any location in the world.
- Custom designed Virtual Private Network solutions.
- Assistance and management of virtualization solutions RHEV/VMWare/Xen/Hyper-V/OpenStack.
- Enabling CDN and Cloud networks.
- Private cages.
- Wide range of storage solutions from EMC.
- The Same IP address in different locations for state-of-the-art global resource distribution.
- Full management and administration of equipment eliminating the need for an in-house IT department.
- Same Day Equipment Setup.
- High-density racks.

### EDGE SERVERS

Edge Servers are positioned between end users and the main/core server. The Edge Server creates a clean, simplified data-flow between the main cloud and users, which alleviates server strain. At the same time, users will enjoy much faster performance, as response time from a local Edge Server is significantly reduced.

Edge servers perform at their best when paired with IPTP global network. Our infrastructure deployed over a large amount of latency channels with presence in 170+ points worldwide. Such a broad geographical distribution, allows us to deploy edge servers closest to your end users, as well as getting you most optimal connectivity across the globe.

Get your data processed fast, here and now - organize fast virtual offices, worldwide distributed services; build grids of IoT devices on a global scale with speed of local connectivity by using IPTP Networks benefits from the Edge computing servers.

IPTP Networks is a carrier-neutral datacentre provider giving you an opportunity to choose the best provider from a hundreds available on the market. IPTP Networks guarantee the best security and cost-effective datacentre solutions to maximize your business performance.



**AMSTERDAM  
SCIENCE PARK**  
PEERING FACILITIES

**Direct connection  
to AMS-IX!**

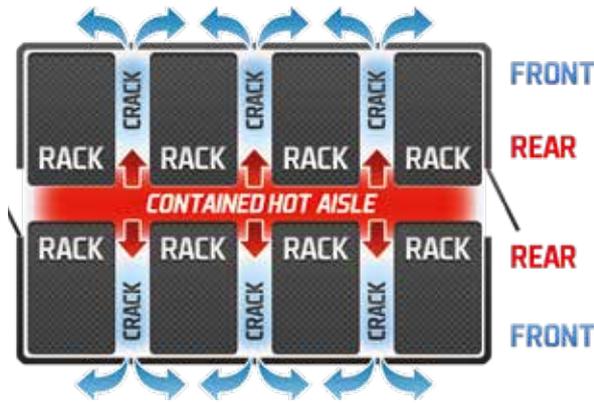




# Datacenter Matrix 4

AMSTERDAM SCIENCE PARK

Matrix 4 is IPTP Networks' world-class data center, built using industry-leading solutions and technologies, like APC InfraStruxure by Schneider Electric. Our scalable datacenter / IT room architecture allows our clients to deploy solutions with the highest levels of connectivity, security, adaptability and reliability; all whilst being tailored and adapted to complement the individual business model of each client.



Hot-aisle containment system (HACS) deployed with in-row cooling



Matrix 4 is based on the APC InfraStruxure – an innovative, industry-leading solution for data center infrastructure with unrivaled scalability, reliability and the highest quality as well as power supply allocation per rack that by far exceeds that of competing solutions.

**POWER-EFFICIENCY**

The industry accepted indicator of data center efficiency is PUE (Power Usage Effectiveness). This indicator provides an excellent representation of the efficiency of each data center's cooling solution as well as electrical systems and infrastructure. The approximate industry average is a PUE of 2.5 with a widespread effort among providers to reduce this figure to 1.3. The Matrix 4 datacenter is designed with the latest in power-efficient technologies to target a PUE ratio of as low as 1.08 depending on load and various environmental conditions.

**COST-EFFICIENCY**

The high level of performance is achieved by the use of a cooling system solution with a 'free-cooling' feature. This allows us to minimize cooling expenses as well as to contribute to the better overall efficiency of the datacenter given climatic conditions in Amsterdam, with an average annual high of 12.8 and low of 7.5 degrees centigrade.

**POWER DENSITY**

Our Matrix 4 data center has a dedicated power substation with a 2MW capacity, connected to the power supply grid of Amsterdam Science Park. This ensures a fully redundant supply of electricity for the facility.

**SCALABILITY**

APC InfraStruxure is the pinnacle of highly scalable and adaptable data center IT room architecture. All components are pre-tested as part of a unified ultra-functional system. Our facilities are designed with corporate clients in mind, resulting in uncompromised performance, ultimate flexibility and control over your business.

**ADVANCEMENT**

IPTP Networks implements, exclusively, state-of-the-art equipment provided by Cisco as the backbone of our data center network infrastructure. With our in-house, Cisco-certified engineering team we are able to guarantee the highest level of uninterrupted, uncompromising performance of all your network resources.

**SECURITY**

Our Matrix 4 facilities are enhanced with 24/7 monitoring and maintenance and secured by advanced access control systems. Our professional multilevel electronic system features cutting-edge technologies such as fingerprint and facial recognition and many other innovative solutions, ensuring that your data is stored securely at all times.

**ACCESS TO 7 MAJOR DATA CENTERS VIA DARK FIBRE**

- NIKHEF (AMS-IX)
- Digital Realty (ex-Telecity AMS1)
- Science Park Interxion (ex-SARA)

amsix  
amsterdam internet exchange

---

- Equinix AM1/2/3 • EvoSwitch Haarlem

Own and Partner infrastructure connecting major data centers in the Amsterdam Science Park area and beyond.



## ADVANTAGES

Hot-aisle containment system (HACS) deployed with in-row cooling.

The gross floor area equals 700 m<sup>2</sup> (7500 sq.ft).

24/7 access to qualified technical support.

Improved resiliency.

Network neutrality

The simplicity of concept, design, and installation.

48U cabinets instead of the standard 42U.

High-density racks with up to 70+ kilowatts per rack.

Swift and effortless planning of operations.

N+1 chiller plant.

Quick recovery from malfunction is achieved through interchangeable modules.

Complete redundancy of all systems and data center compliance with ISO 27001, PCI DSS, ISO 9001, TIA-942, Tier 4+ industry standards.

A+B UPS design.

High scalability

Matrix 4 as a carrier-neutral datacenter is offering to connect to the same providers which are present at AMS-IX and Nikhef. You can find all of the providers via the following link:

[www.nikhef.nl/housing/connectivity/carriers](http://www.nikhef.nl/housing/connectivity/carriers)





# Datacenter Kermia 1

LIMASSOL, CYPRUS

Kermia 1 is IPTP Networks' carrier-neutral facility in Cyprus – a strategic destination at the heart of the Middle East, at the crossroads of Europe, Asia, and Africa. Premium-level and brand new, the K1 datacenter makes use of our established global network infrastructure and is built using innovative, industry-leading solutions and technologies, offering unparalleled scalability, reliability, and security.

## GLOBAL INFRASTRUCTURE

IPTP Networks operates its own worldwide network infrastructure allowing us to serve as a redundant 'bridge', connecting local Cyprus operators (Cablenet, MTN, Primetel and CYTA) and clients to key Internet exchanges and global financial centers.

## ULTIMATE SECURITY

The Kermia 1 facility is enhanced by our internally developed SmartSpaces Automation solution as well as the IPTP Video Surveillance system. The combination of both allows us to ensure the complete security of all your corporate data with state-of-the-art security features such as mantrap with two-step verification access control, bulletproof materials for windows and walls of the building as well as numerous internal and external security cameras.

## ADVANTAGES:

Optimal network coverage and increased resilience is achieved by reserved channels

Global connectivity via our privately-owned global MPLS network infrastructure

Complete redundancy of all systems of the datacenter, targeting compliance with ISO 27001, PCI DSS, ISO 9001, TIA-942, Tier 3+ industry standards

24/7 access to our qualified technical support, available in 10 languages

## ADVANCED EQUIPMENT

IPTP Networks implements, exclusively, the state-of-the-art equipment provided by Cisco as the backbone of our data center network infrastructure. With our in-house, Cisco-certified engineering team we guarantee the highest level of uninterrupted, uncompromising performance of all your network resources.

## COMPLETE REDUNDANCY

Our datacenter, Kermia 1, is equipped with an autonomous power supply and connected to redundant communication channels. This is possible, because the facilities possess a fully redundant supply of electricity which is achieved by a 100KW power feed, and also backed up with a 100KW GENSET.

A fully redundant supply of electricity for the facility is achieved by a 100KW power feed, backed up with 100KW GENSET

Redundant electricity supply via a private power generator

24/7 monitoring and maintenance of the facilities

Advanced access systems

The simplicity of concept, design, and installation

# San Isidro hosting facilities

LIMA, PERU



4  
interconnection  
points in Lima

San Isidro is IPTP Networks' hosting facility, located in Lima, Peru, at the southwest of South America.

Our scalable architecture gives our customers the possibility to use solutions with the highest levels of connectivity, security, adaptability, and reliability, while adapting to complement the individual business model of each customer.

## SECURITY

San Isidro's facilities are equipped with monitoring and maintenance 24/7, guaranteed by advanced access systems. The combination of our access system and the video surveillance system allows us to guarantee the total security of all your corporate data.

## ADVANCEMENT

- State-of-the-art equipment provided by Cisco.
- Cisco-certified engineering team.
- Highest level of uninterrupted and uncompromising performance of all your network resources.

## FLEXIBILITY

All components are pre-tested as part of the unified ultra-functional system. Our facilities are designed with corporate clients in mind, resulting in persistent performance, maximum flexibility, and control over your business.

## ADVANTAGES:

- Access to qualified 24/7 technical support in Russian, English, Spanish, Greek, Vietnamese and Chinese.
- Installation simplicity.
- Direct dark fiber connection to the major CenturyLink's data center in Peru.
- Supply of totally redundant electricity for the installation through the 20kW power supply, backed with a GENSET of 20kW.
- 24/7 Monitoring and maintenance of the facilities.
- Top quality network coverage and increased resilience accomplished by reserved channels.

We provide dedicated high-speed communication channels for remote equipment taking into account the construction of even the last mile to the customer's office. You can check the characteristics of the main channels by using our IPTP Looking Glass tool accessed via:

<https://iptp.com/lg>

# Communication Services

Unified Voice, Video, Data and Mobility

Managed Unified Communication Services is a comprehensive suite of secure, industry-proven IP solutions that have been delivering IP Telephony to more companies than any other. Manufactured by Cisco, these solutions include Data, Voice, Video and mobility products that make communication easier.

## **BUSINESS UNIFIED COMMUNICATIONS**

Through this service, IPTP Networks provides unified Voice, Video, Data and Mobility communications for your business environment. We connect you to communication devices (PCs, phones) and applications (video conferencing, calendar) so that they can be accessed anytime and from anywhere, all while supporting open interfaces that allow other types of applications to be added. As a result, you receive a high-quality, Cisco-powered service that ensures a consistent experience and advanced security capabilities.

## **HOSTED UNIFIED COMMUNICATIONS**

With this Cisco-powered service, you do not need to own an IP communications network to acquire all the benefits of one. It enables you to gain revenue without additional cost, supporting extensive IP Telephony features and providing you with a unique dial plan, set of phone numbers, voicemail and other resources that help you save time and money.

## **UNIFIED CONTACT CENTER**

Our Cisco-powered Managed Unified Contact Center service provides a centralized, IP-based infrastructure that supports numerous distributed sites. We offer a full suite of contact management services, and administrative control options for your environment, as well as capabilities to integrate Web collaboration tools, CTI screen pops, and many other useful features.

## **ADVANTAGES**

Designed to assist your company in deploying advanced technologies with reduced risk and lowered costs

Provide extensive capabilities that fit any kind of business, independent of scale

Connect people instead of devices

Closely integrate communications with business processes

Deliver presence and preference information which helps to ensure quick delivery of communications through the most effective medium.

"Thanks to ITP Networks, we unify all of our communications on a single IP-based platform. Since our company significantly reduces communications costs while at the same time boost employees' productivity."

**Chryso Panayi, KPM Consulting, Cyprus**

### MANAGED WIRELESS LAN

Our Cisco-powered Managed Wireless LAN includes comprehensive security capabilities that protect both your device and your network with Quality of Service (QoS) availability and reliability, supporting advanced wireless capabilities such as seamless roaming. This service extends your corporate network in a secure manner, allowing your employees to conduct business anywhere, anytime and from any device.

### MANAGED MVNO

Our Managed MVNOs (Mobile Virtual Network Operators) service provides a full suite of support starting from designing solutions, obtain licensing, delivering all the components and managing the core infrastructure. MVNO solution is designed to help businesses launch new MVNO operations, expand and capture new revenue streams, delivering superior customer experience and increasing their competitive edge.

### ADVANTAGES

Increase your enterprise's productivity and responsiveness, adapting to current and future business demands.

Provide exceptionally reliable security capabilities, available at all times.

Support advanced wireless capabilities such as multimedia and seamless mobility.

Feature the flexibility of a wireless network with the management of a wired network.



# Managed Security Services

360° of security on physical, hardware and software levels

To ensure continuous running of all business operations, every enterprise needs to be confident in the security of its assets. IPTP Networks offers well-established, reliable solutions designed in accordance with defining requirements for the core security solutions in today's market. This capability helps us easily integrate into any existing infrastructure and address all market demands from the smallest businesses to the largest enterprises. Our Managed Security Services are designed to assess vulnerabilities, detect attacks and respond to suspicious activities and events.

## MANAGED FIREWALL

This service provides you with Cisco's proven firewall technology solutions combined with end-to-end management, monitoring and maintenance to enhance the protection of your business infrastructure. Our Managed Firewall complies to the industry best practices, and is covered by comprehensive SLAs, which guarantees top level overall service performance.

## MANAGED LAN

Our managed Local Area Network service is designed specifically to provide you with remote LAN switch configuration, management, and maintenance, combined with software patch management. You benefit from the reduced costs compared to an in-house IT department and sophisticated professional management, backed by our extensive experience and capabilities. Our solution design was accurately constructed to meet your specific requirements for all levels of service performance and can be complemented by other services such as IP Telephony.

## MANAGED ROUTER

WAN router by IPTP Networks provides you with integrated security that ensures protected connectivity. It includes hardware-based encryption for VPN and supports numerous security features. The service is based on the Integrated Services Router (ISR) security bundles that can range from basic security to VPN for integrated security and IP communications – the highest security level.

## SECURE ACCESS

Through the Managed RSA SecurID® solution, we provide you with proven two-factor authentication. This solution offers a wide range of user authentication options to help positively identify users before they interact with mission-critical data and applications, keeping your data as private as you want it to be.

## MANAGED IDS/IPS

Proven deep-packet inspection-based technology helps to protect your business infrastructure and prevent a wide range of network attacks. The service is deployed at strategic locations across your network in order to detect and react to misuse, attacks and security policy violations.

## PHYSICAL SECURITY

The physical security of equipment storing data in our datacenters is provided by a set of protocols and procedures preventing any physical damage ranging from natural disasters to corporate espionage. To prevent physical attacks, our datacenters use:

- Three-factor authentication
- Access restriction to private cages
- On-site security
- CCTV security network
- Temperature and humidity monitoring
- Fire extinguishing system
- 24x7 NOC Services
- Natural disaster risk-free locations

## ADVANTAGES

ULTIMATE PROTECTION BY IPTP DMMS

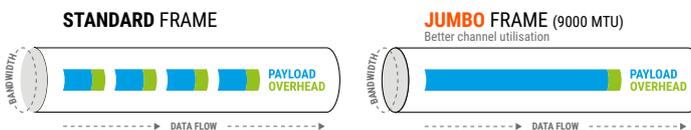
24/7 MANAGEMENT, MONITORING, AND MAINTENANCE OF NETWORK TRAFFIC FLOW ONLINE

CUSTOMER PORTAL WITH ACCESS TO REAL-TIME PERFORMANCE REPORTS



# Jumbo Internet Exchange

a brand new internet platform of a kind!



**JumboIX** target to become a complementary platform to legacy Internet Exchanges and IPTP Networks committed to find the best way to integrate with. IPTP Networks team has a strong belief that eventually **all Global Internet Exchanges will be available** via JumboIX platform (AS43565).

Latest IPTP Networks unique platform is available now in a trial mode in multiple locations **around the globe** (you can have a closer look on available locations on page 11), so you can try to run your business platforms on jumbo frames instantly!

**JumboIX** offers global public Internet Exchange service hybrid L2/L3 network topology with jumbo frame (up to **9000 byte MTU**) capability. Jumbo frames allow you to easily attain **higher data speeds** for large data transfers between geographically dispersed locations when both locations use the same jumbo frame-capable provider.

Jumbo frames should be considered by users that have specialized applications such as VPNs, database synchronization, high-speed, long-lived continuous streaming, big data, data warehousing, or site replication for disaster recovery purposes.

IPTP planning to maintain JumboIX **10G port free of charge** to local L2 capabilities for all current customers and various pay possibilities as you go for other options to exchange traffic with remote JumboIX locations via L3 capabilities. For other members, who want to join JumboIX as an exclusive platform, IPTP is planning to introduce a competitive charging model with local Internet exchanges. Jumbo frames provide a number of benefits over the traditional – Ethernet MTUs.

## BENEFITS:

- The amount of frame sent across the network is reduced.
- The number of Ethernet headers is reduced as a result of fewer frames.
- The reduction in frames results in few headers being required.
- CPU cycles are reduced at the sender and receiver side due to few headers needing to be built and read.
- Network bandwidth is reduced due to the reduction in headers. Some further, more detailed explanations around the benefits of jumbo frames:
  - A single 9k jumbo frame replaces six 1.5k standard frames, producing a net reduction of five frames, with fewer CPU cycles consumed end to end
  - It takes over 80 000 standard Ethernet frames per second to fill a gigabit Ethernet pipe, consumes a lot of CPU cycles and overhead. Sending the same data with 9k jumbo frames, only 14 000 frames need to be generated, with the reduction in header bytes freeing up 4 Mbps of bandwidth.
- These savings in CPU cycles and bandwidth can produce some significant increases in network performance.
- Every data unit on a network has to be assembled by the sender, and its headers have to be read by the network components between the sender and the receiver. The receiver then reads the frame and TCP/IP headers before processing the data. This activity, plus the headers added to frames and packets to get them from sender to receiver, consumes CPU cycles and bandwidth

# Distributed Mitigation Managed Service against volumetric DDoS

Cyber attacks are becoming increasingly problematic for organizations that conduct business online. Of critical concern today are Distributed Denial of Service (DDoS) attacks. DDoS is a distributed type of attack that allows malicious generating traffic to congest Internet access lines, leading to a denial of service and, as a result, damaging an organization's reputation and potentially leading to loss of revenue, loss of valuable customers and loss of market reputation. Every day these attacks become more sophisticated, making your corporate data vulnerable and security demands increasingly challenging.



**NO**  
REACTION TIME



**NO**  
ADDED LATENCY



**NO EXTRA CHARGES**  
FOR BANDWIDTH OVERLOAD

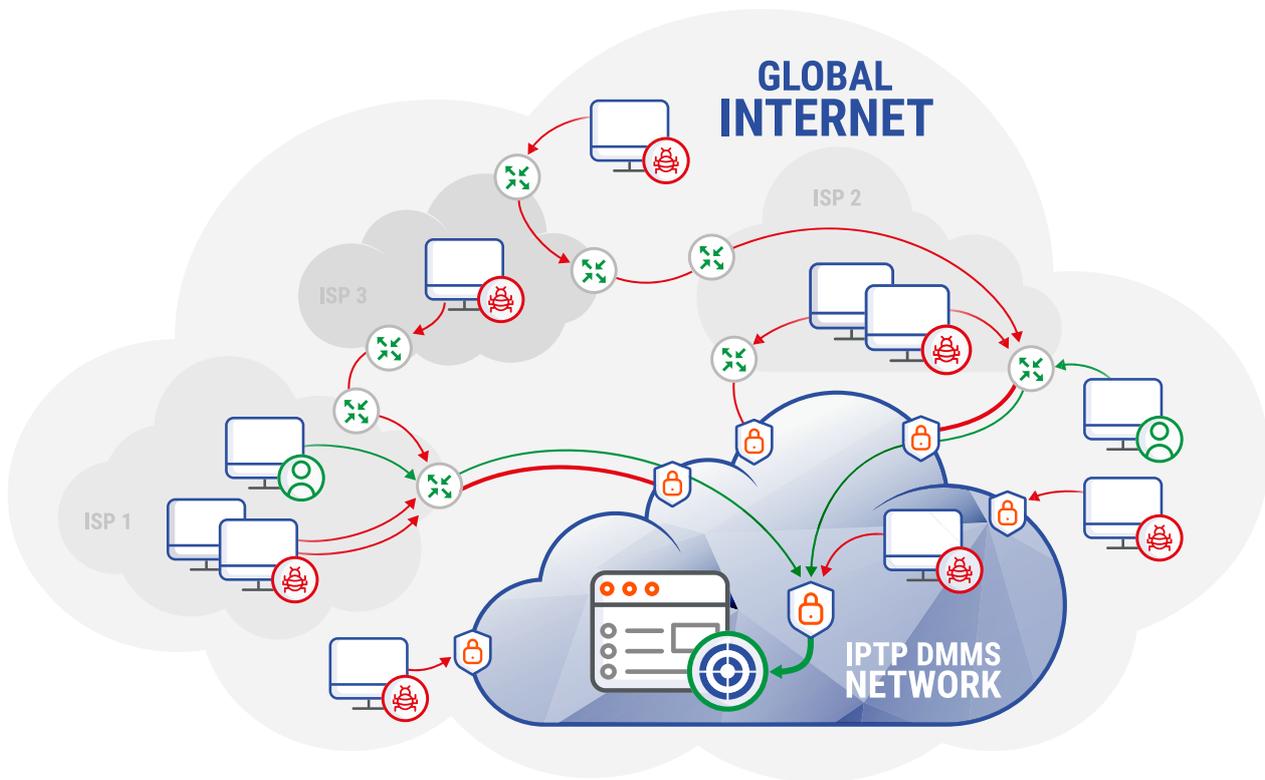


**BANDWIDTH LIMITS HIGHER**  
BY AN ORDER OF MAGNITUDE



# About IPTP DMMS

AGAINST DDOS



Distributed Mitigation Managed Service (DMMS) is the technology of mitigating DDoS attacks using a network perimeter equipped with a chain of powerful fine-tuned firewalls. Our solution has four key advantages over the classic DDoS mitigation technique called “Clean Pipe” or “Cleaning Center”.

First is **latency** – traffic is mitigated directly on the network’s perimeter avoiding the need to redirect traffic to the “Cleaning Center”.

The next aspect is **reaction time** – fine-tuned firewalls automatically detect most types of floods and immediately start the mitigation process making reaction time close to none.

Another advantage of the IPTP DMMS service is the **massive network capacity of over 35 Tb/s** which allows the withstanding of heavy-bandwidth DDoS attacks without the risk of service degradation.

And last, but not least, are expenses. Mitigation with the classic “Cleaning Center/Clean Pipe” approach results in the concentration of high traffic volume on a single point, which usually requires purchasing extra bandwidth. The usage of a worldwide distributed network of an IPTP DMMS firewalls helps customers avoid these unexpected expenses by distributing traffic among multiple points in our network and **eliminating the combined high load on a single node**.

Tier-1 level service protection is **FREE for our customers** (common security for our network), i.e. Colocation, Dedicated hosting and IP transit clients. For additional costs, we can offer a dedicated equipment for Tier-2 direct managed protection against DDoS.

Dozens of DDoS Mitigation service providers use our DMMS network to deliver better security for their customers.

At IPTP Networks, we've developed a unique way of protecting your business and customer base, designed specifically to provide unparalleled protection against volumetric DDoS and ensure continuous operation of your network.



**GEOGRAPHICAL DISTRIBUTION**



**ADVANCED FIREWALLS**



**HIGH NETWORK CAPACITY**



**NO ADDITIONAL LATENCY**



**NO EXTRA TRAFFIC CHARGES**



**ZERO REACTION TIME**

**NO REACTION TIME**

A high-performance network infrastructure owned by IPTP allows the handling of immense amounts of traffic and instantly filtering out the attacks, providing a powerful rebuff and subsequent mitigation of a potential threat. As a result, we leave your network with strictly legitimate traffic, and you in complete control over your business.

**NO ADDED LATENCY**

The distributed design of IPTP's DDoS mitigation defense topology allows us to clean traffic directly at the edge of our network (in under 1 ms) without shifting traffic to a clearing center and back, thus eliminating any response/activation delay and providing a truly transparent mitigation.

**NO EXTRA CHARGES FOR BANDWIDTH OVERLOAD**

Traffic is distributed among multiple points, so no combined the volume of traffic reaches a single network node. A major advantage of our solution is that malicious traffic is cleaned before it reaches our network so no extra charges will apply for additional bandwidth.

**BANDWIDTH LIMITS HIGHER BY AN ORDER OF MAGNITUDE**

Unlike other companies offering DDoS protection via limited Cleaning centers, we operate our own global cleaning network instead. Therefore malicious traffic never aggregated and cleaned immediately along the entire perimeter of our network. 1500 of 10 Gbps ports distributed across the globe and the total network capacity of over 35 Tb/s allows us to withstand heavy bandwidth attacks. IPTP DMMS Network is an ultimate solution for protecting your resources against most types of volumetric DDoS attacks.

**ADVANCED SOLUTION AGAINST DDOS**

Our highly customized firewalls can handle any type of protocol, starting from standard HTTP to any TCP and even proprietary UDP encrypted protocols used in financial sectors, making sure that each request gets serviced. The advanced firewalls within the DMMS Network can handle multi-gigabits of traffic and filter out all types of traffic floods, including but not limited to ICMP, UDP, and SYN. We deal with high loads of traffic on a daily basis and operate on high-end network equipment from Cisco, an industry-leading provider, to ensure that your enterprise receives the unparalleled sustained performance and continuous protection.



# IPTP ERP & CRM

The key to our success now available for your business.

Sometime in 2002, our company, as it grew, was faced with the urgent need to transfer its business processes, such as financial accounting, personnel management, analytics, logistics, procurement, and sales, to a higher level. Considering the global focus, already in those years we were looking for a solution that allows us to work as a team distributed in different parts of our planet.

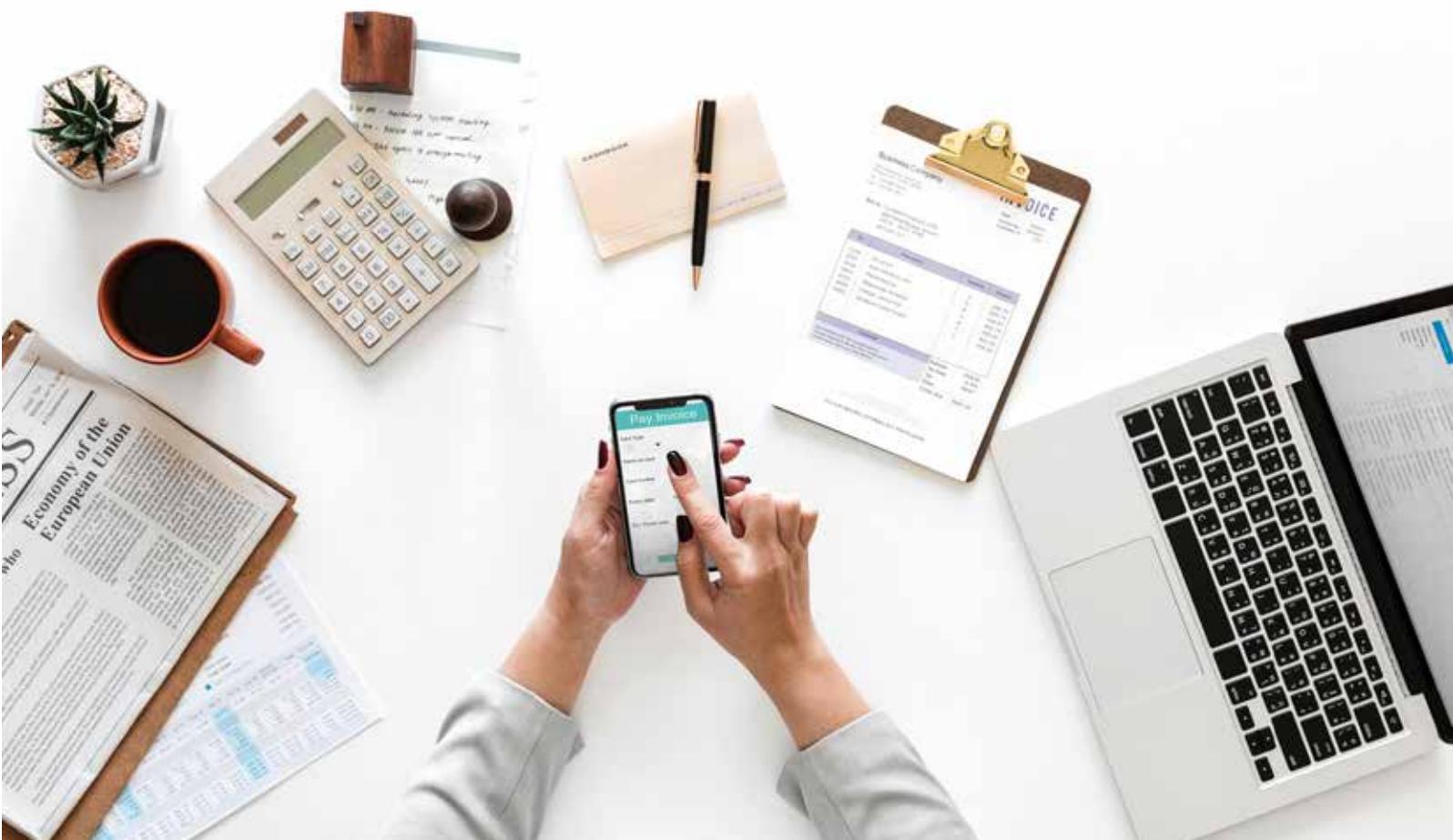
We studied various options. The most optimal in terms of technical parameters was the one that was very expensive ~ US\$ 2.2 million. We had no choice but to write our own software. After some time, we have formed our own software development team.

Working on products, exclusively for the internal needs of the company, we created a system in which, as they say

in Russia invested a soul. Each function of our software is the efforts of our entire team. Without knowing it, we have created a product that allows us today to successfully penetrate new countries and cities, interact with each other, neither looking at distances nor time zones and effectively help the development and growth of the company.

Not so long ago, one of our clients turned to us with a request to suggest software for their business. We decided to offer him our software in a friendly way. Within reasonable terms, we were able to customize the software for the required business processes, and our client also became our software client.

Today, we are sharing with you the success of our ERP software and proudly remain a user of this solution.

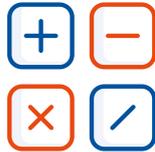


### A complete, all-in-one package of essential ERP functions:



#### CRM

- Marketing campaigns
- Sales pipeline
- Marketing budget



#### ACCOUNTING

- Account processing
- Inquiry processing
- Quotation processing



#### FINANCIAL ANALYTICS

- Financial and managerial reporting
- Profitability analysis
- Cash flow management



#### DUTY MANAGEMENT

- Employee administration
- Time and attendance
- Payroll and legal reporting



#### OPERATIONAL ANALYTICS

- Inventory and warehouse analytics
- Sales analytics



#### INVENTORY AND WAREHOUSE MANAGEMENT

- Warehousing and storage
- Physical inventory



#### PROCUREMENT

- Purchase request processing
- Purchase order processing
- Contract management
- Financial settlement



#### SALES ORDER MANAGEMENT

- Sales order processing
- Contract processing
- Billing
- Management of commissions

## GENERAL INFORMATION:

IPTP ERP & CRM is a subscription-based, scalable and easily expandable ecosystem consisting of both software and hardware and provided via the SaaS (Software as a Service) delivery platform.

It performs a wide range of tasks from stocktaking to financial analytics, HR-management, sales order management, and much more. The IPTP ERP & CRM system is a complex programming solution with over 600,000 source lines of code!

The primary goal of our system is to organize your financial data in a way that provides a complete understanding of how and where the money flows in your business processes and helps you to accurately plan your income for the near future.

## ADVANTAGES

DEPLOYED ON IPTP SERVERS, PROVIDING EDGE ACCESSIBILITY ACROSS THE GLOBE, ACCELERATED BY OUR OWN NETWORK AND OUR PEERING PARTNERS.

STRONG SECURITY WITH DIFFERENT LEVELS OF ACCESS

DIGITAL LEDGER OF TRANSACTIONS BASED ON BLOCKCHAIN TECHNOLOGY

ADJUSTABLE FOR DIFFERENT BUSINESS TYPES

CAPABLE WITH ALL POPULAR OS AND DEVICES

ACCESSIBLE FROM BROWSER

FIRST-CLASS SOFTWARE SOLUTION AT AN AFFORDABLE PRICE



Try online demo-version:

<https://erp-demo.iptp.net/>

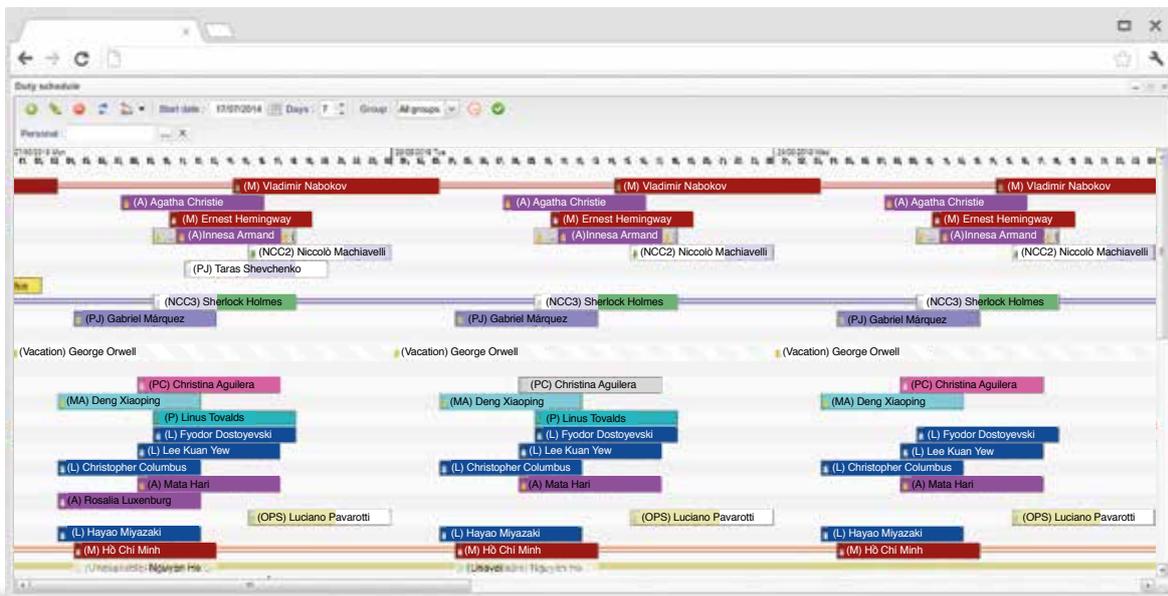
## DUTY MANAGEMENT

Discipline and punctuality are important elements of the successful interaction of company employees. The control of working hours, sick leaves and vacations is not an easy task. Especially if the team members are distributed around the world, in different time zones and each country has own labor law.

We managed to create our own solution to this problem. The system has multi-level access and allows you to control both individually by each employee and by the entire department or even the whole company in a structured way. Each employee of the company has access to his personal account allowing to manage working time. The system has protection against unauthorized changes to data confirmed by a subordinator manager. Schedule data is customizable and can be accessed by all members of the company team.

### MAIN FUNCTIONS:

- Profiles adjustable to location and local labor law.
- Automated accounting of working hours, sick leaves and vacations.
- Current staff real-time display and timeline for the required period.
- Summary hours for each employee.
- The ability to carry out uninterrupted customer service on a 24/7 basis.



## ACCOUNTING

This IPTP ERP & CRM feature allows for the tracking of settlements with customers and suppliers in an automatic mode, simplifying related processes and marginalizing human error. Our wide range of accounting features will help you to save your time on **General ledger** and **any kinds of reporting** (for example tax reporting, financial reporting, etc.). There is no need for an accountant to check balances or unpaid invoices - the system will send notifications to customers about delayed payments and display a report on those customers that were notified. Criteria for a client selection can be configured manually, with an option to create a separate list of those clients for which exceptions can be made. The system is also designed to help its users to send **automatically generated invoices** for used receipts and services.

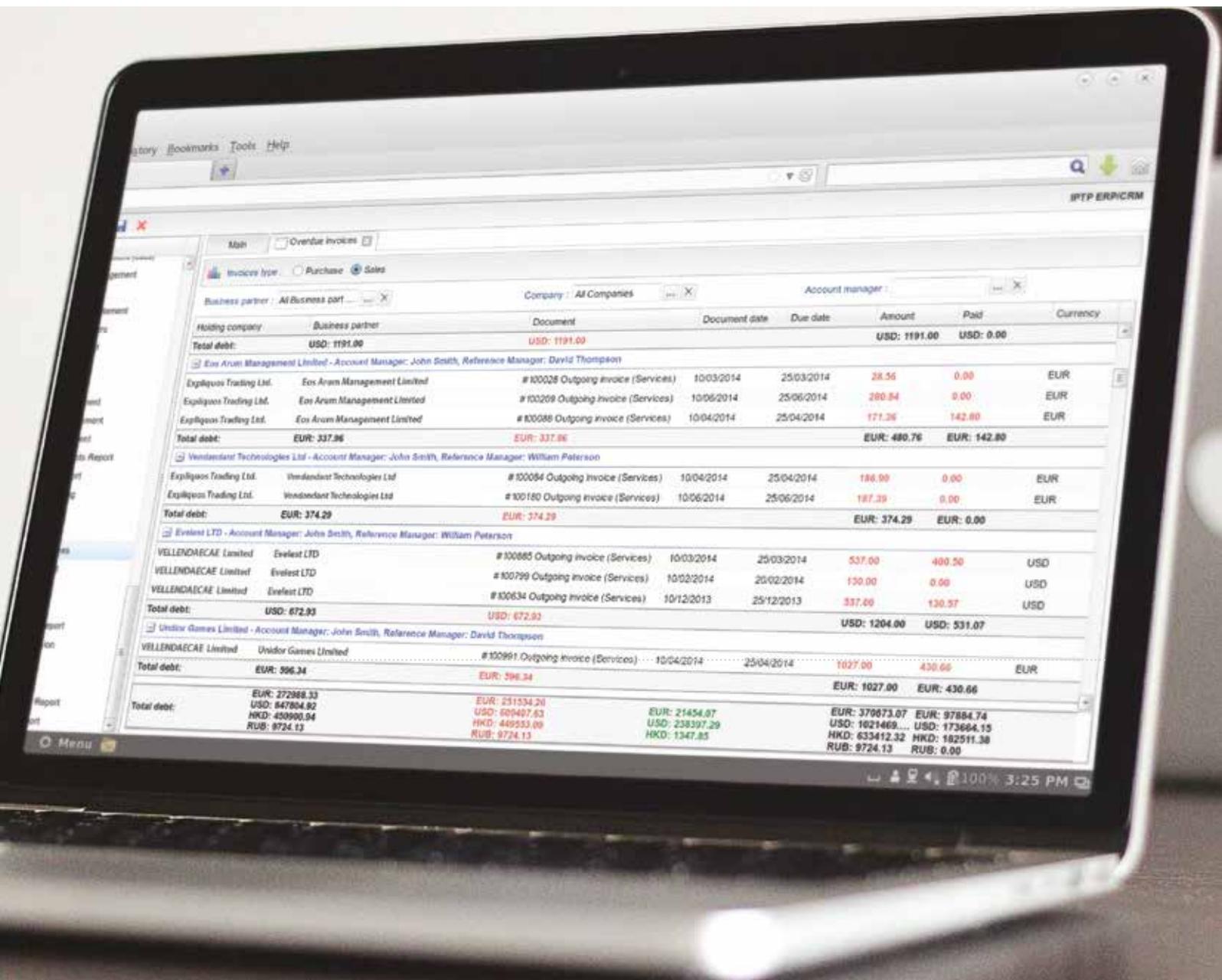
## CUSTOMER-RELATIONSHIP MANAGEMENT (CRM)

The first impression of service or product is achieved through marketing, advertising and promotion. It is very important to have a set of tools that allow you to manage marketing campaigns, focused on a targeted audience database development and growth. Our CRM not only allows you to develop targeted audience database, but to convert it to sales lead by a set of tasks assigned for each contact.

We created a system that unites different specialists who are located in different countries and different time zones. A system allowing each team member clearly fulfill their role and strives for the development and growth of the client base.

### MAIN FUNCTIONS:

- Management of marketing campaigns, both traditional and digital
- Marketing department expenses financial accounting
- Targeted audience database management and transformation to the client database
- Key performance indicators (KPI)
- Marketing department analytical reports



## DATA EXCHANGE & INTEGRATION

IPTP ERP & CRM operates on an open API (Application Programming Interface) which means that all the ERP features can be integrated with any third party system, allowing for data to be exchanged seamlessly and to be accessed both ways, resulting in a single, unified information system.

The screenshot displays the IPTP ERP system interface. The main window shows a financial statement for 'Magna Management Services Ltd' for the period from 2014-01-01 to 2014-07-31. The statement is titled 'Detailed Statement: Magna Management Services Ltd' and is categorized as 'Holding Company: Autopost Trading Ltd'. The report type is 'Detailed Statement of Account'. The balance forward is -32497.56. The table below lists transactions with columns for Date, Due Date, Transaction Details, Debit, Credit, Balance, and Debt.

| Date       | Due Date   | Transaction Details                 | Debit    | Credit   | Balance                 | Debt             |
|------------|------------|-------------------------------------|----------|----------|-------------------------|------------------|
|            |            |                                     |          |          | <b>Balance Forward:</b> | <b>-32497.56</b> |
| 2014-01-10 | 2014-01-26 | #100094 Outgoing Invoice (Services) | 4266.27  | 0.00     | -37763.83               | 0.00             |
| 2014-01-10 | 2014-01-22 | #100095 Outgoing Invoice (Services) | 2985.40  | 0.00     | -40749.23               | 0.00             |
| 2014-01-10 | 2014-01-24 | #100096 Outgoing Invoice (Services) | 31.46    | 0.00     | -40780.69               | 0.00             |
| 2014-02-05 |            | #00000995 Incoming Payment          | 0.00     | 17639.05 | -23141.64               | 0.00             |
| 2014-02-10 | 2014-02-26 | #100055 Outgoing Invoice (Services) | 4283.34  | 0.00     | -27426.08               | 0.00             |
| 2014-02-10 | 2014-02-24 | #100057 Outgoing Invoice (Services) | 14.09    | 0.00     | -27441.07               | 0.00             |
| 2014-02-10 | 2014-02-22 | #100056 Outgoing Invoice (Services) | 3610.70  | 0.00     | -31051.77               | 0.00             |
| 2014-03-10 | 2014-03-26 | #100013 Outgoing Invoice (Services) | 4219.78  | 0.00     | -34670.55               | 0.00             |
| 2014-03-10 | 2014-03-22 | #100013 Outgoing Invoice (Services) | 3610.70  | 0.00     | -37681.25               | 0.00             |
| 2014-03-10 | 2014-03-24 | #100010 Outgoing Invoice (Services) | 147.37   | 0.00     | -37828.62               | 0.00             |
| 2014-03-10 | 2014-03-25 | #100009 Outgoing Invoice (Services) | 11662.50 | 0.00     | -49491.12               | 0.00             |
| 2014-03-13 |            | #00000005 Incoming Payment          | 0.00     | 23141.64 | -26289.48               | 0.00             |
| 2014-04-10 | 2014-04-24 | #100072 Outgoing Invoice (Services) | 31.55    | 0.00     | -26321.03               | 31.55            |
| 2014-04-10 | 2014-04-23 | #100073 Outgoing Invoice (Services) | 35.70    | 0.00     | -26356.73               | 35.70            |
| 2014-04-10 | 2014-04-23 | #100075 Outgoing Invoice (Services) | 35.70    | 0.00     | -26392.43               | 35.70            |

ERP is a central structure that can interact with both the RT(Request Tracking) system and Cacti. Client account information can be accessed directly from Cacti with no need to create a separate account for the ERP system. Integration of the ERP system with the RT system allows employees to gain information on clients the moment they receive a request. All the client has to do is log into Cacti, go into the required ERP section, and he will be able to view and modify all the necessary information. You can also export data to accounting software.

The screenshot displays the IPTP ERP system interface showing a comment for a client account. The comment is titled 'RT\_System - Comments added' and is dated 'Thu Jul 10 08:22:05 2014'. The comment text is as follows:

```

FOR INTERNAL USE ONLY AUTOMATIC HELP FROM OUR ERP

=== Duty person info for group "NCC" ===

Name: John Smith
Email: john@smith.net
Ext: 2121
Jabber: john@jabber.smith.net

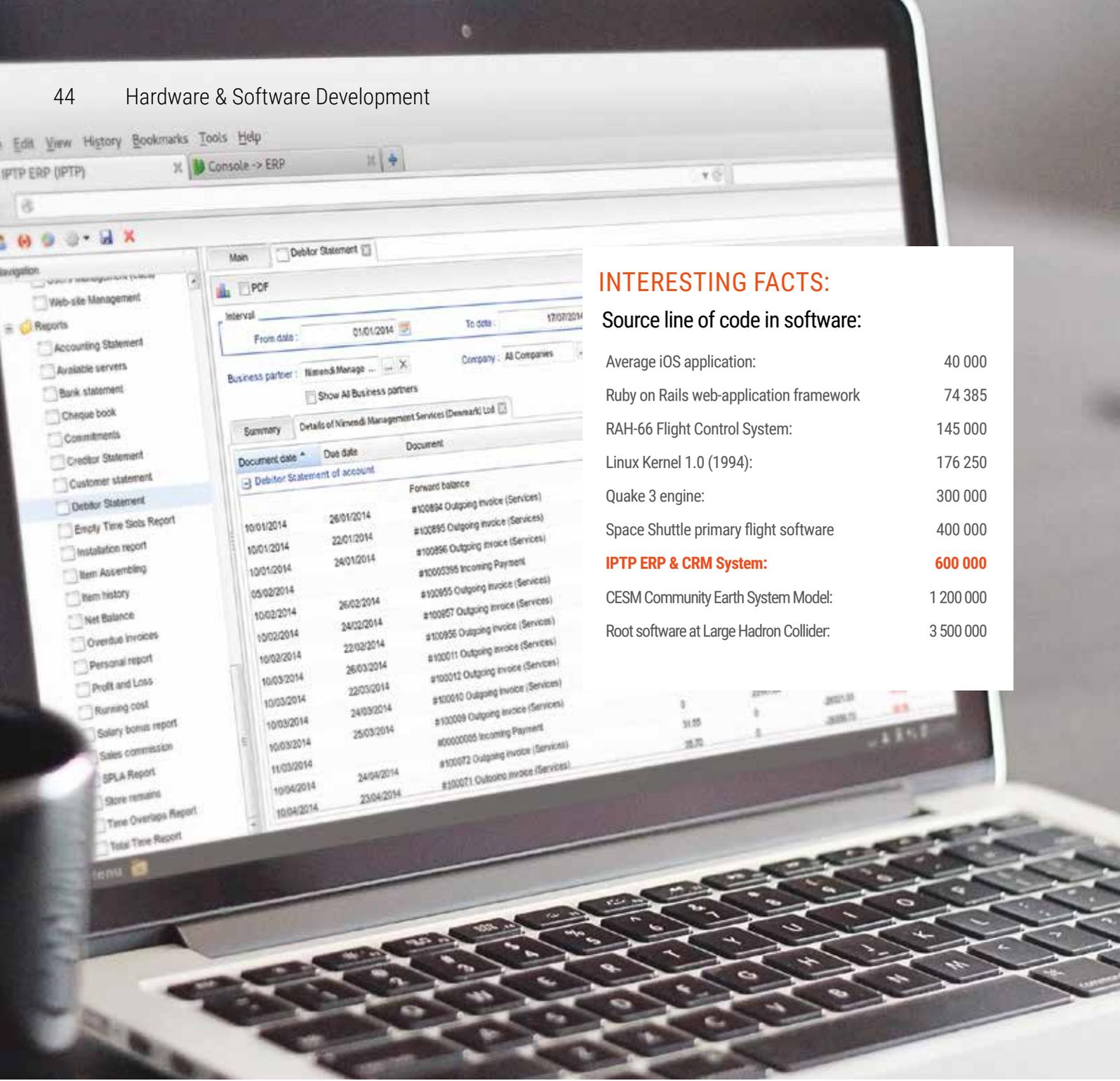
=== Business partner info ===

Company Name: Magnis Rehens Ltd
RT Link: https://secure.lightbulb.net/rt/Ticket/Display.html?id=2220
Manager Name: Thomas Edison
Manager Email: te@lightbulb.net
Manager Phone: 0775
Contact Name: David Hill
Contact Group: Accounting
Access Level: Master level access

=== Active Subscriptions ===

COF #234986:Corporate Symmetric Internet 2 Mbps
COF #234986:Installation
COF #234986:Static IP
Business Internet Connection 6Mbps over Ethernet
Business Internet Connectivity 16Mbps. Down/ 4Mbps Upload via Coaxial Cable

```



**INTERESTING FACTS:**

**Source line of code in software:**

|   |                |
|---|----------------|
| Average iOS application:                | 40 000         |
| Ruby on Rails web-application framework | 74 385         |
| RAH-66 Flight Control System:           | 145 000        |
| Linux Kernel 1.0 (1994):                | 176 250        |
| Quake 3 engine:                         | 300 000        |
| Space Shuttle primary flight software   | 400 000        |
| <b>IPTP ERP &amp; CRM System:</b>       | <b>600 000</b> |
| CESM Community Earth System Model:      | 1 200 000      |
| Root software at Large Hadron Collider: | 3 500 000      |

**BLOCKCHAIN BASED SYNCHRONISATION**

The operations in the ERP system must be streamlined. We have chosen blockchain technology as a reliable system that allows us to provide a guaranteed sequence of transactions in a decentralized environment. We have developed an ESB (Enterprise Service Bus) system which is a blockchain broker for transactions in the ERP system. Information (transaction) sent in the blockchain is transmitted to all nodes of the cloud infrastructure, after which the transaction is confirmed. The transaction is considered confirmed if the majority of the nodes have confirmed delivery. ERP system after confirming

the transaction unloads it from the ESB and performs the operation scanned in it. The use of the blockchain in conjunction with the ERP system ensures the integrity of the data at each node in a decentralized environment.

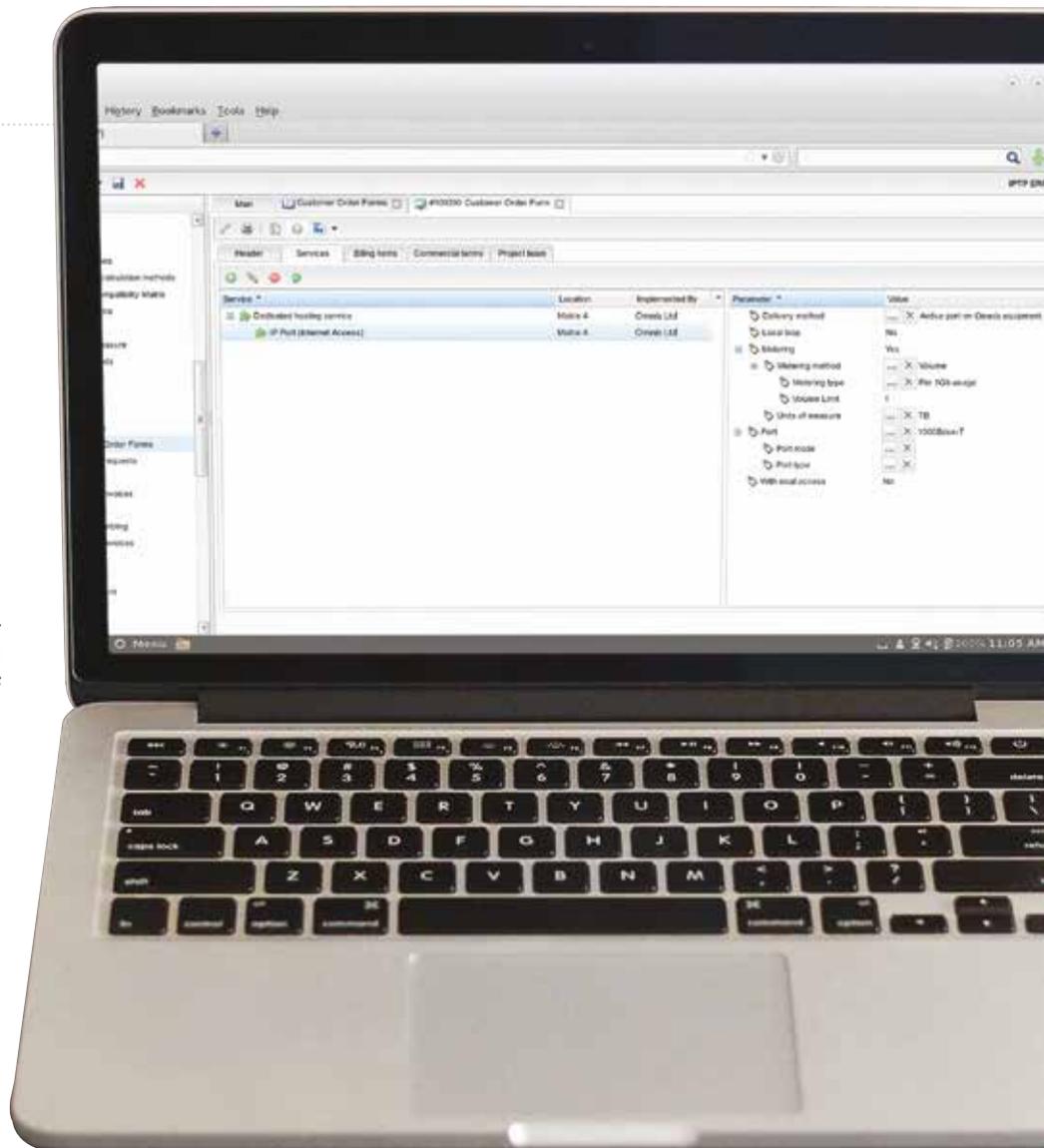
**BENEFITS:**

- Guaranteed sequence integrity
- Working in a decentralized environment allows you to easily scale resources
- Data security in the blockchain
- Autonomy

## SERVICES

### SERVICE ORDER FORMS (SOF)

Creation of forms for customer services is a very convenient feature that helps organize all required information about customer orders and allows for flexible parameter configuration. The formation of service packages allows for the creation of custom-made combinations of options for any type of service and can be constructed based on any specifications. Package formation is designed in a way that allows for it to be customized, resulting in packages that would suit the individual requirements of every client. A set of integrated rules makes sure that all the information filled in is valid at all times. The completed form can be printed out or sent to a client, and a signed version can be attached as a file and stored in the system.



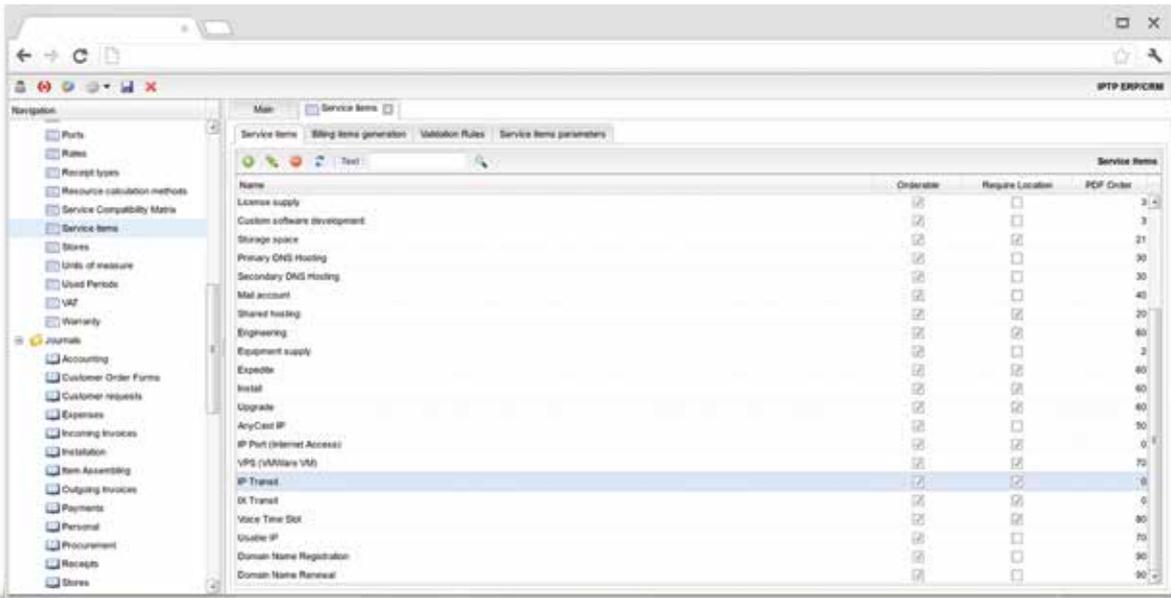
## MESSENGER

<https://iptp.com/xm>



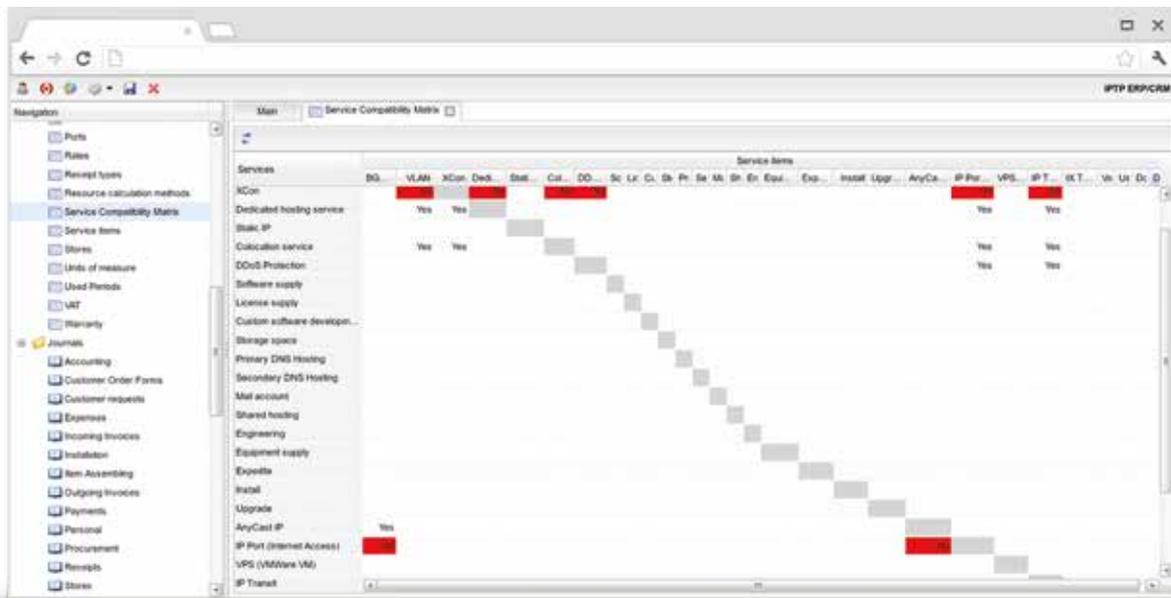
Cross Messenger is a new innovative standalone component of IPTP ERP&CRM system that provides an effective communication among all of your business partners and makes your CRM experience truly mobile. Moreover, Cross Messenger is a free of charge application that everyone can use in a mean of open communication app with friends, families and business of course. Users of IPTP ERP&CRM system will enjoy additional benefits of Cross Messenger which can be fully integrated with it.

Our logo is an integration of white pigeon which is a symbol for postal pigeon and "X" - a symbol which is standing for Cross-platform. With this messenger we're presenting the best way for Xchange of information aXross the Globe - being local everywhere and keep you data safe and available at any time and on any device. This business tailored secure messenger is already available for use on any type of computer operating systems, on Android and iOS. You can use Cross Messenger on any of your devices to build amazing and useful connections with anyone around the Globe in a very secure manner.



### SERVICE ELEMENTS

Service order forms can contain many kinds of different services. Every service can be fine-tuned with an unlimited amount of so-called Service Elements(SE). Service Elements are “smart” ERP objects which contain information about type or characteristic of service, such as geographic location, delivery option, specific kind of hardware, etc. Input data of every service element can be selected individually. If there are any service elements not included here that you require, you can always define a new one! SEs can also be used to control specific services and to send notifications in cases where they might have been set incorrectly.



### SERVICE COMPATIBILITY MATRIX

This feature is designed to show the coherency of services and to establish their dependence on one another. This is particularly useful when it comes to combining services that can only be sold together. Parameters in the Service Compatibility Matrix can vary and combining individual services that are co-dependent allows for the formation of finalized, more complex packages which are ready to be sold.



*global, easy,  
affordable*

# WHERR®

## TRACKING SOLUTION

Wherr is a state-of-the-art tracking solution that features **compact hardware** (a tracking device) and **user-friendly software** (the Wherr® platform), combined together Wherr® supports daily tracking of objects, assets, or people. This makes your life easier, your valuables secure, and the people you care about safe.

Wherr® uses wireless networks for tracking, and optional extensions of Wi-Fi and/or GPS modules are also available.

### WHERR® HARDWARE

It is a state-of-the-art and easy to use tracking technology redesigned and implemented in-house by Wherr. The tracking card serves as the core for your tracking device, establishing worldwide connectivity in locations where any kind of wireless network (GSM or Wi-Fi) is available. Additionally, we offer box solution with enhanced battery and GPS support.

### WHERR® PLATFORM

It is a unique monitoring software designed to complement the Wherr® hardware. A flexible, the user-friendly interface displays all the data collected by a tracking device in a web application that can be accessed and run remotely from any browser installed on any operating system as well as any iOS or Android client.



### UNIVERSAL

The solution is designed for multi-purpose use, with virtually limitless everyday and business application.

### FOR PERSONAL USE:

- Luggage and parcel tracking
- Assets safeguarding
- Monitoring people with disabilities, seniors or children
- Sports and active lifestyle (e.g., hiking, racing, fishing)
- Emergency services

### FOR PROFESSIONAL USE:

- For transportation and logistics professionals
- Massive fleet operation (vehicle, trucking, shipping)
- Forwarding operation (machines, containers, cargos, valuable freight)
- Operators who have a dynamic workload
- Scientific research (e.g., wildlife migration pattern tracking)
- Law enforcement
- Emergency services.



## TRACKING

Wherr® tracking card uses one of the more widely used cellular networks globally: GSM\*.

### How does GSM tracking work?

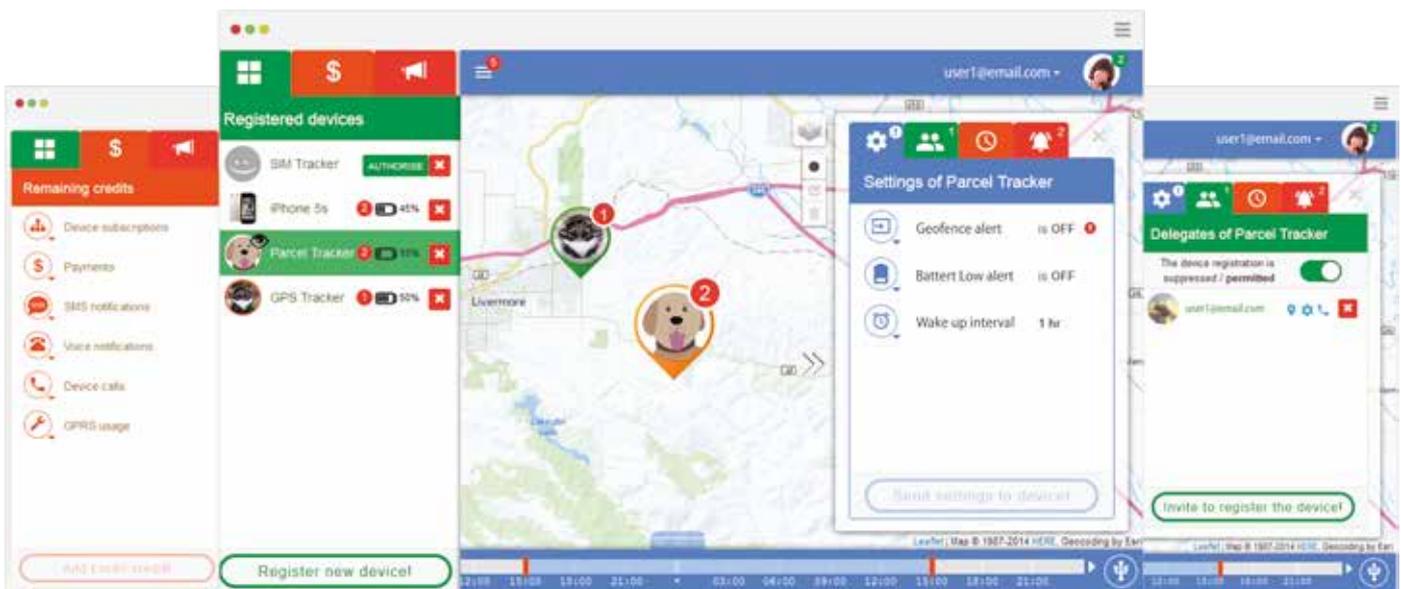
1. First, it determines the card's location by scanning cellular towers in the area and determining their signal strength.
2. Then it transfers the collected data to the backend, which, in turn, delivers the card's location, allowing you to instantly track and monitor your objects, assets, or people.

\* - As an additional feature, the Wherr® tracking device can also be equipped with Wi-Fi and/or GPS modules.

### RANGE

- Location range depends on the density and proximity of the cellular towers (the distance to the nearest GSM base stations); the more towers there are in range, the more accurate the data will be.

- The range of accuracy of the Wherr® tracking card is within a radius of approximately 250 meters in case of GSM module is used and within 10-15 meters with Wi-Fi module installed. This proximity is more than enough to ensure that your luggage arrives at its destination, your parcel is on its correct route, or that your child remains within the range you allowed.



## WHY WHERR?

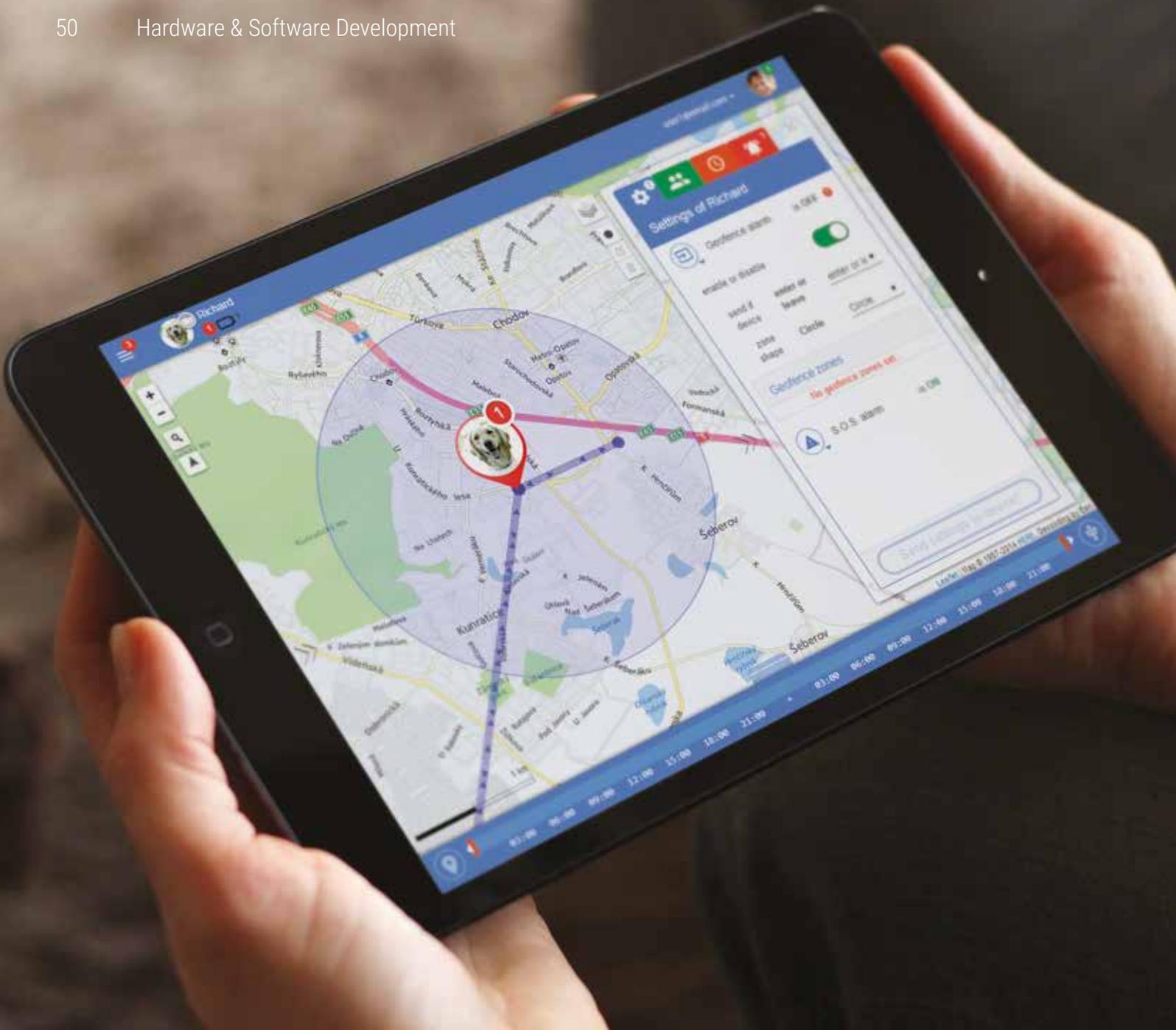
### AFFORDABLE

Subscription to Wherr® tracking card includes all roaming charges, significantly reducing associated costs. Additionally, this enables Wherr to operate not only locally, when it comes to tracking within one city/area, but allows it to perform in virtually any part of the world. The price of our solution (hardware+subscription) is approximately 25 dollars, which is the lowest price on the market today.\*

\* Price varies depending on the subscription period and the number of devices purchased.

### COMPACT DESIGN

Wherr® tracking card is a practical solution. It easily fits into a wallet, the smallest parcel or a briefcase. It can also be attached to a belt, a dog's collar or simply be placed into a pocket. The card is **light as a pen** (25 g / 0.88 oz) and **small as a credit card** (86 x 54 x 5.3 mm / 3.3 x 2 x 0.17 in). The design can be modified to include a company's logo on the tracking card. The shape and/or color of the case can be changed at the customers' demand and their expense. Wireless charging is available on request.



## LONG BATTERY LIFE

Power consumption is an important issue when it comes to global tracking. Even the most advanced devices have a battery life that is limited to several days. Wherr® tracking device allows you to adjust how often the card should report its location, from a few times in an hour to once a day. In addition, the power saving mode\* allows the device to operate from 1 month and up to 1 year without recharging the battery. The battery life longevity is adjustable, depending on the predefined settings.

*\* Our in-house software allows Wherr to remain in Sleep mode most of the time, allowing for minimal energy consumption and for optimal battery lifetime.*

## FLEXIBLE

- Wherr® device allows you to effortlessly track the location of devices on request as well as the trajectory of their movement in the past.
- The Wherr platform is available via all web and mobile interfaces and is compatible with most devices.
- Wherr® Mobile Application can be downloaded for free and is compatible with Android, Windows Phone, BlackBerry and other virtual panels. An iOS application is coming soon.

## WHERR® PLATFORM

Wherr® Platform is a unique tracking software that is designed, developed and implemented in-house by Wherr®. A flexible, user-friendly interface displays all the data collected by a tracking device in a web application that can be accessed and run remotely from any operating system, as well as any iOS or Android browser.

- **Track multiple devices** with just one user account.
- Add an **unlimited number of devices** to one account and locate them on the map.
- Share your device(s) with other users who have active accounts.
- Several users can **track shared devices simultaneously**, while still having individual accounts and being able to add their individual devices.

### COMMAND TYPES

**Battery Low / Battery Empty alert:** Both alerts are used to warn the user if the device battery is low or depleted.

**Geofence alert:** This feature is particularly useful when it comes to the supervision over children, elderly and people with disabilities. You can designate a radius on the map and if your device leaves that area, you will be alerted in the form of a push-notification, SMS\* message or e-mail.

**Motion history:** This feature allows you to observe device motion history on an interactive map within manual settings of the time period.

\* – additional charges may apply.





## AVAILABLE WORLDWIDE

The Wherr® tracking card operates in 100\* territories around the world (in contrast with competitors solutions which are usually limited to roughly 30 countries).

Armenia, Albania, Australia, Austria, Azerbaijan, Belarus, Belgium, Benin, Brazil, Bulgaria, Canada, Chad, Chile, China, Congo Dem. Republic, Côte d'Ivoire, Croatia, Cyprus, Czech Republic, Denmark, Dominican Republic, Egypt, Equatorial Guinea, Estonia, Ethiopia, Finland, France, Gambia, Georgia, Germany, Ghana, Gibraltar, Greece, Guyana, Hong Kong, Hungary, Iceland, India, Indonesia, Ireland, Israel, Italy, Kazakhstan, Latvia, Liberia, Liechtenstein, Lithuania, Luxembourg, Macau, Macedonia, Malta, Mexico, Montenegro, Montserrat, Mozambique, Netherlands, New Zealand, Norway, Papua New Guinea, Philippines, Poland, Portugal, Romania, Russia, Rwanda, San Marino, Sao Tome, Saudi Arabia, Serbia, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sri Lanka, Sudan, Sweden, Switzerland, Taiwan, Tajikistan, Tanzania, Thailand, Tonga Islands, Trinidad & Tobago, Turkey, Uganda, Ukraine, United Arab Emirates, United Kingdom, Jersey, USA, Uzbekistan, Vatican City, Vietnam, Vanuatu Republic, Western Samoa, Zambia, Zimbabwe.

*\* The list of countries is not final and is being updated with the aim of serving our clients across the globe, even in the most remote corners of the world.*



## ADVANTAGES

### ALL DEVICES:

Operates in Europe, Asia, Africa, the Middle East, the Americas and Oceania

SIM card pre-installed

Worldwide roaming charges are included into the subscription fee

Compatibility: PC, Mac, iOS, Android, Windows Phone, BlackBerry and other virtual panels

Battery type: Li-Pol, Non-Replaceable

Up to 1 year of battery life\*

Easy to use Web Application

Multi-user tracking

Wi-Fi & GSM networks support

### WHERR CARD:

Size: 86 x 54 x 5.3 mm / 3.3 x 2 x 0.17 in

Weight: 25 g / 0.88 oz

### WHERR BOX:

GPS support

IP67 waterproof protection

Size: 50 x 40 x 20 mm / 2 x 1.6 x 0.8 in

Weight: 50 g

\* Depends on mode of operation, environment and network conditions.



# IPTP Video Surveillance



VARGUS™

SECURITY FIRST!

Vargus™ IPTP Video Surveillance is a completely scalable and highly reliable integration solution. Vargus™ becomes a valuable element and a long-term investment in the security strategy for your office and premises. Our high-experienced engineers will help you to choose the most convenient package which will fit your individual business security needs. Moreover, our team will provide you the best support in management, monitoring, and maintenance.

## SOFTWARE SOLUTION

Our in-house developed Video Surveillance software is designed specifically to cater to the needs of customers with complex technology or security requirements and is set up to meet the unique challenges of small and mid-sized businesses. Compared to relatively inexpensive video surveillance systems with limited functionality such as DVRs, and sophisticated, but often over-priced and over-licensed high-end solutions, IPTP Video Surveillance software offers a balanced and affordable alternative.

Unlike DVR systems, our software features a single archive enhanced with centralized management and can support from one up to several hundred cameras of different categories simultaneously. At the same time, compared to the high-end solutions available on the market IPTP Networks offers a significantly more competitive price point. Completely customizable to fit your business requirements, our software helps us work within your budget, adjusting to your business model and complementing your existing technology investments.



VARGUS™

Cost-effective,  
multifunctional video  
surveillance for a  
multitude of cameras.

## FEATURES:

Monitor your shop, office or vessel using your PC, Pocket PC or TV with a Network Camera

The data is delivered to you via an Internet Connection, allowing you to survey your premises from any location

We work with IT, Security, Facilities, and other departments to designate the scope of the project and plan installation

View either the full stream video, or images of motion when it happens, from multiple locations, thus minimizing the bandwidth/traffic

CCTV to IP Video Migration

Mobile / Remote Viewing

Images are uploaded to the Web Server and can be delivered to your TV screen, a PC, Pocket PC or Cisco IP Phone

Wired and Wireless Network Design

Integration with Cisco phones is enabled by extraction of separate frames from a video stream and storing them in a separate archive

Integration with IP-enabled Access Control & Alarm Systems

**HIKVISION®**



Vargus™ ITP Video Surveillance Software is successfully deployed by ITP Networks in company datacenters as well as our offices worldwide, demonstrating the solution's effectiveness as an integrated and scalable way to protect both company assets and people.



ITP Video Surveillance can be configured to interface with any other IT or Security systems, employing camera systems to their maximum potential. Based on the clients' individual requirements, the solution can be delivered either on the basis of ITP's in-house developed Video Surveillance Software and deployed on any hardware, e.g. entirely Cisco or based on the Cisco Video Surveillance.

### A SINGLE ARCHIVE

In alternative systems, such as DVRs and other surveillance solutions, to extract recordings from many individual archives the user needs to refer to the same number of separate DVRs. With ITP Video Surveillance software all files from all cameras and servers can be accessed in a single place while all data is stored in an easily accessible and secure unified archive.

### SUPPORT OF DIFFERENT DATA WAREHOUSING FRAMEWORKS WITH VARIOUS CAPACITIES

Storing data in a DVR system significantly increases the risk of data loss due to potential disk failures. ITP Video Surveillance Software solves this issue once and for all, all the while providing the flexibility of storage and a variety of options that tailor the service to your needs. There are options to connect an external disk shelf or store video on a network share such as NFS, while iSCSI disks can be stored in a RAID configuration. Alternatively, an archive can be arranged as a collection of independent disks, which will ensure that your data remains available even in the event of one of the disks' failure to respond. Video can be recorded on fast local storage, and then archived

to a large capacity network storage. An archive can also be stored on a network share or, in case an archive is not needed, there is an option to set up a diskless server.

### AN UNLIMITED NUMBER OF OPERATOR SEATS

A number of restrictions usually binds the operator's position. Some video surveillance systems require licensing of every location and apply various other restrictions, such as having a monitor connected to a DVR to survey cameras. Vargus ITP Video Surveillance software requires only one operator to study cameras from all servers, providing a centralized way to monitor your assets. A total number of operator positions depends on customers requirements and can be virtually limitless.

### RECODING AN ARCHIVE VIDEO

Recoding establishes the ultimate quality/capacity ratio for the archive, enabling the system to store a year-long archive in only 2-3 hard disks. If the video is being recorded at a high resolution and takes up too much space, recoding it allows for conversion into a lower resolution, keeping your archive in sync with your capacity demands and capabilities.

# Cisco Video Surveillance

Guarantee of ultimate security



Security cameras are intended to enhance the safety and security of staff, the general public, and facilities. There are three characteristics that define good video surveillance: high resolution, long-term retention, and reliability. Cisco has developed a system that significantly boosts the deployment of its video surveillance solution, increasing flexibility and scalability while lowering operating costs and creating a reliable risk-managing environment.

Cisco video surveillance solutions support video transmission, monitoring, recording, and management. You can enhance your safety and security operations by using these products with your existing analog video surveillance equipment and smoothly migrate to a network-based physical security system. As a user of networked physical security and as a trusted advisor, Cisco is constantly developing its network and continues to gain expertise in order to guarantee ultimate security. Cisco Video Surveillance was designed to assist you with building an impressive networked physical security operation that maximizes the value of your investments and video information while allowing you to focus on the safety of your people and the security of your assets.

## ADVANTAGES:

Access to video; anywhere, anytime and with a wide range of devices via your IP network

Multi-vendor interoperability for Best of Breed Video Surveillance Systems

Faster incident response, investigation and resolution

Simplified deployment and control of new security applications

Motion detection and tampering detection system allows the triggering of alerts through communication with a central server

The cost savings of using the IP network for both voice and data

# IPTP CADA

## Controller of Automatically-Driven Appliances

CADA is IPTP's in-house developed software and one of the main components of the IPTP SmartSpaces Automation Solution. Pooling data from all Sensors/Detectors in your premises, IPTP CADA processes it and responds accordingly, attending to your day-to-day tasks through preset automatic settings. Based on equipment of the type "LinCon-8000" by ICP DAS, CADA is an independent component of the solution with an automated operating mode for failure-resistance, providing a basic level of automation in extreme situations.

### FUNCTIONS:

#### LIGHTING

All the lighting on the premises is controlled by and accessed from any available connected device. Depending on your preferences, the lighting can be either pre-regulated or controlled merely with an "on/off" switch. Every switch on the premises can control any lamp or a group of lamps with any required logic; i.e., the switch automatically sends a signal to the system, which, in turn, carries out the required task. This way, switching certain lights on and off can be combined with responses from other appliances.

#### ADAPTATION

To maximize your comfort even further, the solution is designed to recognize your everyday habits and adapt to them automatically. It uses smoke detectors, infrared/ultrasound, humidity/light intensity, inside/outside temperature, pool/hot water tank temperature, opening and closing of gates/doors/windows, weather (wind intensity/rain) sensors, sound sensors that react to commands and many other features that make your everyday life more comfortable.

#### TELEPHONE

A phone subsystem can be organized as an independent system, or be an extension of an existing office system, even if the office is located abroad. If necessary, the phone subsystem can be organized in a way that specific phone numbers from another country can be connected to the premises telephone system. It is also possible to provide a free-of-charge phone connection with another location which has the same equipment, i.e., with an office or another home. If stationary phones have a sensor panel, they can be used to control any element of the solution. Wireless Wi-Fi phones can also be connected.

#### SECURITY

With a wide variety of sensors, we can provide an exceptional system for safety and fire prevention that can be integrated with an automatic fire extinguishing system and placed under maintenance of a security company.

#### REMOTE SURVEILLANCE

The remote surveillance subsystem allows integration with a wide range of surveillance facility systems for internal and external observation. This subsystem also carries out the function of an intercom at every entrance of the premises, allowing for communication via any camera, similar to a video phone. The remote surveillance subsystem can also operate and be controlled from any corner of the world via the Secure Communications Channel.

#### COMMUNICATIONS LINE

A communication network can be set up on the premises, connecting the Secure Communications Channel to other premises, offices or vessels, providing a safe connection with a remote system through the Internet. This gives you transparent access to another network, which would be useful for creating, for example, identical network surroundings with an office.

#### INTERACTIVE TELEVISION

The television subsystem allows ordinary television, as well as a selection of additional elements that transform it into a multimedia system. Among these elements is access to a library of movies, music, karaoke, video clips, an option of recording TV programs for later viewing, importing blu-rays into the library and much more. You have complete control of the premises directly from the TV via an on-screen menu. Video-phone mode and volume control from every corner of the premises are also available.

#### ELECTRICALLY-DRIVEN APPLIANCES

All the electrically-driven appliances and other power generators (automated opening of gates, pump motors, electrical door locks, electrically-controlled taps, heating/air conditioning, pool/sprinkler control systems, etc.) can be controlled from any connected device.



SmartSpaces™

# IPTP Smartspaces

Automation Solution

**A 1-stop integration solution, designed to provide centralized control and automation of all motorized or manageable appliances on your premises, office or motor vessel.**

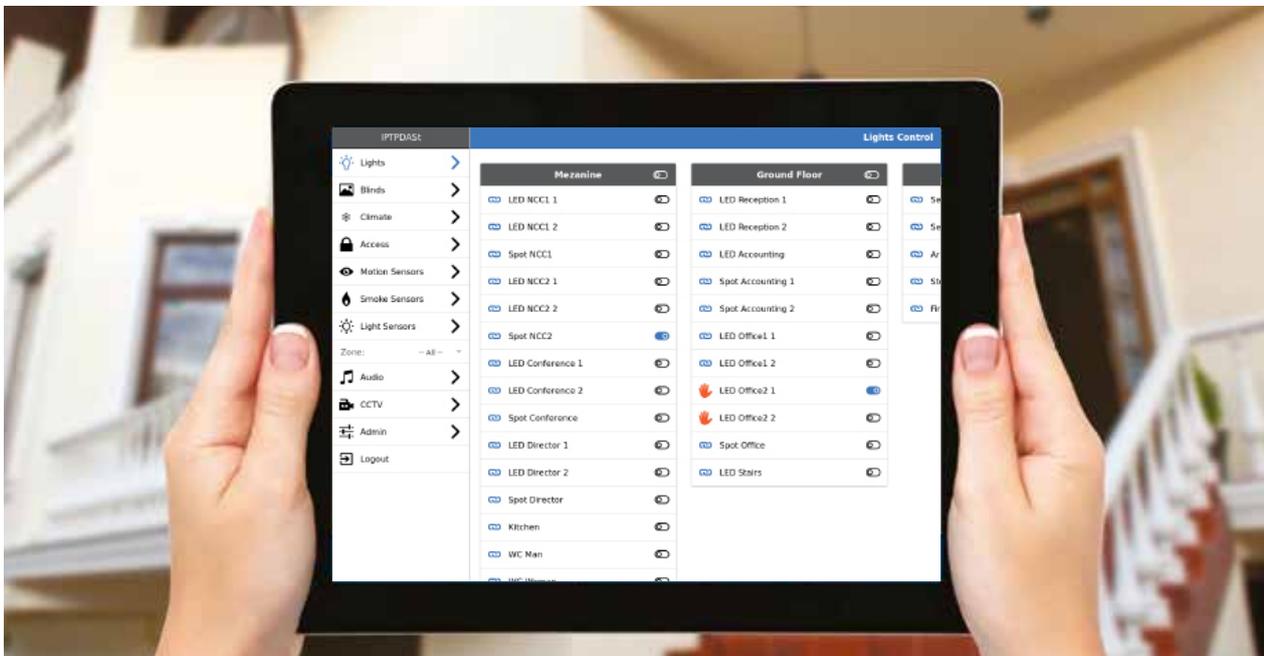
IPTP Networks' in-house development - Controller of Automatically-Driven Appliances or CADA provides a single interface for control of all electronics in your home, office or vessel, eliminating the need for multiple switches, control panels and remote controls. IPTP SmartSpaces solution is compatible with LinuxMCE, a free modular software platform that seamlessly integrates media and entertainment, home automation and security, telecommunications and computing. The interface can be accessed from any type of hardware: PC, smartphone, Cisco Phone, TV, tablet or other devices of your choice, giving you complete remote control over the solution from every corner of your premises and the world.



**SmartSpaces Automation Solution integrates various appliances in your home, office or vessel into a seamless digital environment via a unified control system.**

## FOR OFFICE

SmartSpaces is a flexible integration solution that turns the office space into an automated, multifunctional ecosystem with a unified control panel that does not require a single switch. The solution makes use of centralized technology for control over lighting, air-conditioners and electrical appliances; it also integrates with other systems, such as security, video surveillance and telephony, enhancing the office space with sustainable performance, operational efficiency, and improved convenience.



## HOW DOES IT WORK?

The entire office space is covered by multiple lights, movement and temperature sensors as well as Wi-Fi. Depending on the time of day, weather conditions and settings preset by employees, lighting is adjusted automatically via dimmers and electric shutters that move either up or down according to the time of day and amount of sunlight. The system also continually updates information on external factors to maintain the temperature in the office at an optimal level, so employees never feel too hot or too cold.

Access control is enhanced by two-step verification fingerprint recognition that is programmed to be used by every employee and the code to be entered on a panel. Fingerprint authentication is also required to be able to leave the office; if unauthorized entry occurs, the trespasser will not be able to exit.

The system is also programmed to set and disarm alarms and control other parts of the system from anywhere in the world, so even during holidays, a designated employee can adjust the

system settings remotely. Bulletproof materials can be used for windows, doors, and walls of the building, keeping all the assets under lock and key. When the office has visitors and the doorbell rings, the alert can be adjusted to be sent to any or all the devices in the office, be that a TV, a stationary phone or a tablet. An employee responsible for the system can use any of the devices mentioned above devices to open doors and monitor visitors via multiple cameras installed inside and outside of the office.

# IPTP Smartspaces

## FOR HOME

The Smart Spaces solution allows for sustainable control over the premises, automating the processes of all electrical appliances, utilizing them most efficiently.

### HOW DOES IT WORK?

When the occupant approaches his premises, smart home already detects his arrival and opens the gate or door automatically. A phone or a tablet can also be used to control doors or gates.

A weather station is set up on the roof to measure humidity, temperature, wind speed, cloud density, and other external factors and set to recognize, memorize and apply patterns accordingly. All in-house systems including irrigation and lighting of surrounding areas are adjusted to work according to these patterns. For example, if the system considers clouds to be too dense and the humidity level too high, the irrigation system would not switch on that day. If on the contrary, it is too sunny

of a day, the water tank will not be heated by the system, as the solar panels will heat it instead throughout the day. So that water is preheated in advance, the owner may also adjust the settings as to be able to shower as soon as he wakes up.

The solution also covers the security of the house: all windows and doors have sensors detecting movement and breakage. The 'Laser curtain' feature is also applied for security purposes; if anyone is detected entering or exiting a doorway in the absence of the occupant, an alarm will go off and, all doors will be locked. If unauthorized entry occurs, the system will take pictures of the intruder and call the owner and the police.

## FOR VESSEL

The SmartSpaces solution can be delivered to vessels, providing electronic entertainment, communication and information collection via a single system, no matter how far from shore you are.

### HOW DOES IT WORK?

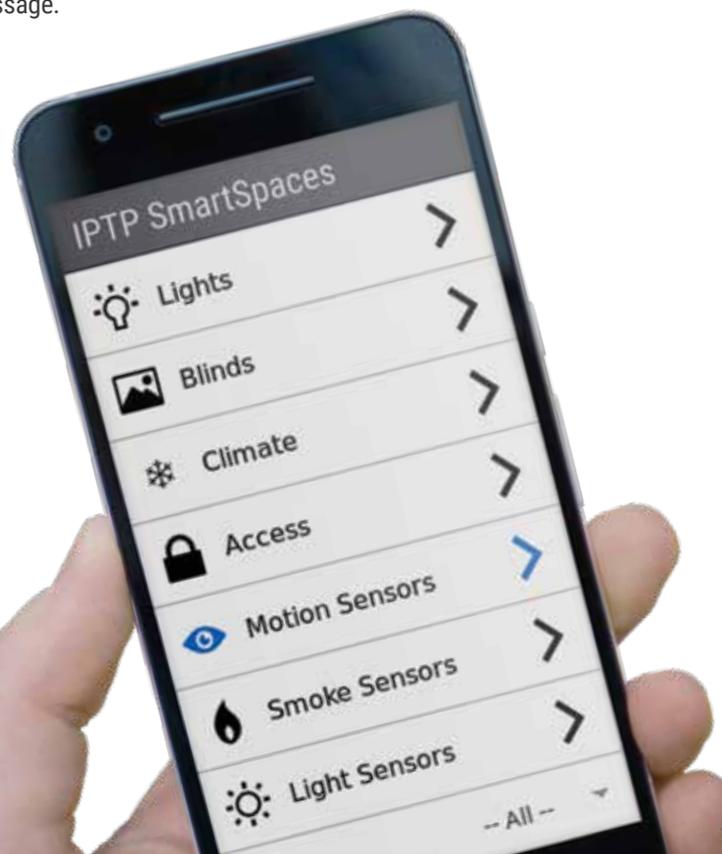
The yacht is equipped with two redundant data connectivity links for voice use, Internet and remote control. In order to provide reliable data connectivity on-board, a pair of tracking satellite transmit/receive systems are installed.

The owners of the yacht can stay in touch with their office and friends at no extra cost via Internet telephone; the system uses dozens of telephone lines to onshore numbers simultaneously. The owners also can make free calls from and to registered mobiles within the vessel.

Fast Internet connection enables the permanent availability of any of the Internet services, at no extra cost; high-speed wireless connections are available all over the vessel. The owners of the yacht can watch and record their favorite TV programs at any time, even when they missed them on air. They also have a wide choice of blu-ray and MP3 files available among thousands of titles found in the media library.

The Television Interactive Entertainment System makes possible the sending and receiving of messages among all the system's users. The flexibility of the system allows for the recognition of ranks, which helps avoid unauthorized dialogue between crew members and both owners and visitors of the yacht. At the same time, this enables all authorized

users of the yacht to dispatch text messages to all cabins in case of an emergency. In this scenario the inactive television screens become active, and the viewing of the current channel or any other activity will be interrupted by the text message.





## ADDITIONAL APPLIANCES

As a software developer, we can adapt to any demands of our clients and implement additional appliances. In other words, any device that you own can be integrated into the SmartSpaces Solution and controlled through a single interface.

## RACK

The rack is used to hold components such as Uninterruptible power supply block, the Core, Router, LAN switch, Controller of Electrically-Driven Appliances, cable distribution panel and, other additional devices.

## CLIMATE / POOL / IRRIGATION CONTROL

Thermoregulators are used for climate control on the premises and automating the processes using set parameters.

## LAN SWITCH

An essential part that provides an interrelation between the components through a TP cable, delivering the required amount of ports connecting them. For a wireless connection, Wi-Fi access points can be used.

## UNINTERRUPTIBLE POWER SUPPLY BLOCK

An uninterruptible power supply block is strongly recommended for mitigating adverse effects of electro-supply failures on components. Depending on the number of components, more than one sustained power-supply block may be necessary.

## POOL CONTROL

The solution also supports the pool control system by Jandy Aqualink. Pool temperature, cleaning, solar panels for warming up the water, etc. can be controlled with this system.



The main components of the solution are supported by IPTP Networks' in-house development and are compatible with the LinuxMCE project.

LinuxMCE (Linux Media Center Edition) is a free and open source software platform with a 10-foot user interface designed to allow a computer to act as a home theatre PC (HTPC) for the living-room TV, personal video recorder, and home automation system. It allows control of everything in the home, from lighting and climate to surveillance cameras and home security.

## ROUTER

One of the main components of the solution, responsible for providing a gateway for the telephone subsystem, a safe Internet connection or VPN, as it supplies the solution with critical network functionality.

## THE CORE

The nucleus of the system, necessary to carry out tasks more intricate than elementary automatization. The core is software run on a highly reliable professional server. It can be configured to suit individual requirements (the number of disks and their sizes, the amount of RAM, the number of processors and their models, the amount and types of DVB and RAID cards), all determined at the design stage. It is possible to add other components and improve system parameters at any time after implementation.

## MEDIA CONTROLLER

The Media controller is used to regulate audio/video devices.

## WIRELESS ORBITER

The main remote for the solution that connects you to the Media controller via a wireless network, using tablets, androids, Cisco Phones, and other devices.

## AUDIO PLAYER

Wireless devices can play a wide variety of music files in any room, connected to an existing Wi-Fi system or directly to powered speakers. The use of wireless networking leaves you unrestricted by cables or connectors. Also, Audio Player includes a directory of thousands of radio stations and connects you to online music databases that analyze your musical tastes and create playlists accordingly.

# Middleware IPTV

Finest viewing experience

IPTV represents a television system that has a number of technological advantages over a traditional one-way cable or satellite broadcast network. Programs and video channels are delivered to the television sets through a broadband connection, enabling two-way interactivity. As a result, you receive an ultimate package where the video streams are encoded into a series of IP packets and then carried out through the public internet, which means that all you need for deployment is a set-top box and a subscription for the service. The small size receiver-decoder saves space, and there is no need for extra furniture for the additional TV equipment.

Middleware IPTV is a software which helps you to control and manage the IPTV system. This software is made to manage subscription packages and to keep them under control at any time, you can add and edit your content which is available to your users.

## FEATURES:

- All-in-one Management
- Customer Management
- Content Management
- CatchUP - You can record Live TV channels to enjoy your favourite content later (up to 30 days after)
- EPG Grid and EPG Import; availability of detailed guides for your favourite live channels
- API Billing

## VIDEO ON DEMAND

The video on demand enables the user to look through video materials from the offered library. The interactivity of a Video on demand consists of receiving a video signal from the remote source while you have an opportunity to operate the data flow, applying numerous innovative features:

- Video Recording
- Live TV controller
- Movie-on-demand
- Real-time interactivity
- Triple play
- Single bill
- No effect of power cuts
- Video in search

## FOR SERVICE PROVIDERS:

Service providers must be able to deliver the finest viewing experience to their subscribers while optimizing resources. IPTV Networks provides products that have been developed to help service providers to succeed by deploying cost-effective, highly scalable and easily manageable IPTV services. In addition, the IPTV system allows you to study consumer tastes and needs, and collect statistical data by using the ratings of TV channels, programs and films.

## FOR HOME:

Internet Protocol technology allows your home network to be more flexible than ever before. All of the U-verse receivers in your home (no matter which room they are located in) are connected to the same high-speed home network. This allows you to have your shows, recorded from your DVR, to be watched on any TV in the house. The Ethernet port on the back of your set-top box also allows you to connect laptops, gaming consoles, and other devices to your home network.

## BENEFITS:

- Individual package of TV channels for each user
- Control over the subscription of each user
- Function for recording telecasts
- Function to view past telecasts at a given time interval
- Pause function for TV channels in real time
- Expansive TV guide

## ERP&CRM IPTV

Instead of Middleware IPTV IPTV Networks represents an integration of IPTV with our own ERP&CRM system. The biggest advantage of this integration is that you can control all of your channels and subscriptions through the ERP&CRM and there's no need to spend additional time on billing because it all will be billed automatically at your ERP&CRM account. This will help you to keep all of your features in one box without the need of purchasing many different types of software and of course, that means that you can use it both for business use and for home.

## ADVANTAGES:

- All your packages and bills in one spot – ERP&CRM
- High speed Internet access and VoIP and other IP-based services
- Protection of content at any level
- Different types of IPTV boxes (X96s, X96 mini, B88, R69 and other kinds of Android set top boxes)

# Meet our Team



## OXANA SHVYDKAYA

In the year 2004, when our company had just started its way to success, Oxana was one of the driving forces behind the entirety of IPTP Networks; bringing order to the chaos around her, and working long into the night to build up and reinforce our company, all the while being the supporting wife of our CEO Vladimir Kangin and mother of two young and energetic boys. She used to be a universal soldier working as a Customer Support Manager, Accountant, Engineer, Sales Manager and Financial officer. She is the head of the Cyprus office, but she still finds the time to manage and support our colleagues all over the world, and we're hoping that she will stay with us forever.



## SERGEY KOZHEDUB

Sergey, who has met our CEO Vladimir Kangin in 1994, from the start of their relationship has become not only an amazing friend, but also an extraordinary professional. His ability to always stay focused and to work unstoppably on his personal and professional growth has led Sergey to the position of CTO of IPTP Networks. He is one of the most experienced engineers and a Linux guru, but also the friendliest and calmest member of our team, who is using his skills to resolve challenging tasks faced by our company every single day. Sergey is standing behind the scenes, but he is the moving force and mind of our company and we're very grateful that he is staying with us for so long.



## GALINA BINDYUK

One of the most precious members of our team is Galina, who, back in 2007, heard from her friends that there was a job opening, went to the interview, and the next day was already setting things in motion at the Cyprus office. The reason why we're so happy and surprised at the same time, is that she has one of the most beautiful singing voices in the whole universe, and sometimes we're worried that she will leave us to start her singing carrier. Let's hope that our Chief Financial Controller will continue choosing us, because we are definitely not going to survive without her professional skills and financial analysis, and she will no doubt help us to lead our company to the stars.



## VLADIMIR SPORYKHIN

Vladimir is an unstoppable business machine, a well oiled sports-class car that will do everything in its power to keep moving forward. He is the one who always looks to the future and just can't live without everyday progress. At the same time, he's one of the most caring and sensitive members of the team (even though he's trying not to show it) and he also perceives the company as a "living organism, which is functioning well only when every single cell is healthy and working alongside each other". Vladimir is not only a great Business Development Manager, but also is a big fan of different types of intellectual games, and he can remember the right answer in 60 seconds – our very own fast and furious star.

# Meet our team



## IVAN SOLDATOV

Sometimes, people are appearing at the door of our company and are applying to positions which, from the first sight, seem to be far from their dream job. This happened with Ivan, one of our key Business Development Managers, whose dream was to become a part of the telecommunications business as a network engineer. He graduated from Instrument Engineering and Computer Science University, and was preparing for the Cisco CCNA exam when he got an opportunity to join IPTP Networks. Now Ivan is one of the most accurate, attentive and fast self-developing people, with deep knowledge of business administration received from an MBA intensive program by PwC Academy. His experiences with products of Supermicro, VMware, Citrix, EMC, and Cisco help him develop the best matching solutions to challenging requests from our customers.



## KIM LUU

Kim Luu is one of the youngest ladies in our team and she has done a wonderful contribution to IPTP Networks. Early of 2017, Kim was supporting our CEO during a conference in Vietnam and the idea of starting a new representative office has made her life go at different pace since IPTP's establishment in Vietnam. Graduating from Hochiminh University of Fine Art and Kim has been doing an excellent job as Managing Director of Vietnam office in IT industry. She was the one taking responsibility of setting up the office and building up our current strong team in Viet Nam. She also plays an important role in Business Development team where she grows our business within Vietnam and other countries. One more interesting thing about Kim, originally from Art background, Kim has great passion for painting and fashion and you could easily spot this lady in a crowd with her stand-out fashioned outfits.



## VICTOR MA

As Chief Operating Officer, Victor Ma provides expert solutions in network operations and dedicates himself fully to the team. He is highly regarded not only for the skills and knowledge, but the down-to-earth kindness in mentoring younger engineers. Victor has been known for maintaining perfect composure in most stressful situations. His knowledge, experience and awareness reveal many opportunities for cooperation on win-win basis.



## INNA ARKHIPOVA

This beautiful lady is part of our company for more than 10 years now, and she is always there for us; not only with resolving financial questions, but she's also a very warm and caring person. Every single member of the Moscow office can always find support from her, and other members of our team around the globe can also rely on her whenever they need it. While she is carrying out the role of Financial Director at our Russian office, she is not only a great mother but also a proud grandmother (we still cannot understand how this young lady can already be a grandmother). We are so happy to have such a great personality among us.



### MARK KANGIN

Mark started to make his first steps at the company when he was 15 years old as a remote hands engineer. Upon finishing his studies, he took the opportunity of taking an internship at IPTP as a customer support engineer and upon successfully fulfilling the new position, he continued his career path in engineering and customer support. Now he's only 25, and he already rose all the way to the point of becoming the Head Manager of Technical support and Operations. He is taking care of all our 24/7-support department. Mark is one of the fastest learners at the company, he is always ready to help and teach anyone who needs to know about technical stuff. As a big fan of the gaming industry, he spends most of his free time developing his own gaming projects; although being a workaholic makes his time being spent mostly at working into IPTP projects to make the daily work life of his colleagues a bit easier.



### FELIPE VILLADA

Whether you're the kind of person who believes in destiny or not, Felipe and our CEO met by total chance! A Telecoms acquaintance introduced them to each other, a few days passed, a proposal of partnership was accepted, and that's it! Now they're friends and partners, and they love to share as much as they love to argue... almost daily. On the other hand, there is a great father and husband in Felipe; he loves spending time with his family. Anyways, if you're in Peru and up for some fun, you may call this Colombian to have a drink-nap-drink session so the party never ends!



### PATRICK MUNEZERO

Patrick has joined IPTP Networks in 2016. He met our team in Mauritius during the AFRINIC event. "In Africa, IPTP Networks will be the first external connectivity provider. A door to the rest of the world for all local enterprises, operators, telcos, ISPs" - he said on that day. 33 year old IT Engineer, he is married has two kids, Andy and Kamaro. Patrick likes playing basketball, which is also a favourite activity for his children. Also, he enjoys travelling, be it together with family or on his own for business. His career path is rapidly developing due to his strong interest in the connectivity business, and today he is responsible for the development of our presence in the African region.

## Thank You!

IPTP Networks Corporate Magazine is published annually and is available in seven languages: English, Chinese (simplified and traditional), Japanese, Russian, Vietnamese and Spanish.

### Special thanks to:

Vladimir Kangin, Mark Kangin, Dmitry Fantalin, Ivan Soldatov, Vladimir Sporykhin, Nguyễn Hữu Thịnh, Phạm Bảo Thi, Lư Thị Mỹ Kim, Christina Fomenko, Uliana Kangin, Keyla Peña, Artur Norman, Yury Alimov – Texts and Photos  
Yury Alimov, Marina Sosnina, Yana Isakhanyan, Kirill Makarov – Artwork

### Photo backgrounds and artwork sources on pages:

5, 8, 16, 18, 20, 22, 30, 32, 37, 51, 52, 54, 60, 61, 62, 63 designed by Pressfoto - Freepik.com and are free for commercial use with attribution (visit [www.freepik.com](http://www.freepik.com) for details).



## MISSION

We aim to help companies sorting out all their challenges in this rapidly changing IT world. To be available at the right time, in the right place and with the right solutions, which are optimally tailored under individual unique requirements, – is our main priority. We are proud to call our partners and customers friends, and it warms our hearts that our partnership brings happy smiles on their faces.



**Cross Messenger:** Utility which is specially designed to make the communication outside and inside your company easier and more pleasant. [See p.45](#)



**JumbolX:** Brand new platform that offers global public Internet Exchange hybrid L2/L3 network topology with jumbo (MTU 9000) frame capability. [See p.35](#)



**ERP&CRM:** System which integrates all of the management functions – CRM, Accounting, Financial Analytics, Duty Management, Operational Analytics, Procurement, Sales Order Management. [See p.39](#)



**Wherr:** Wherr is a state-of-the-art tracking solution that features compact hardware (a tracking device) and user-friendly software (the Wherr® platform), combined together Wherr® supports daily tracking of objects, assets, or people. [See p.47](#)



**Vargus:** Our in-house developed Video Surveillance software is designed specifically to cater to the needs of customers with complex technology and security requirements. [See p.53](#)



**SmartSpaces:** 1-stop integration solution, designed to provide centralized control and automation of all motorized or manageable appliances on your premises, office or motor vessel. [See p.57](#)

## CONTACTS

### UNITED STATES OF AMERICA

#### IPTP LLC

130 7th Avenue, Suite 119, New York, NY 10011, USA.  
email: [info@iptp.us](mailto:info@iptp.us)  
phone: +1 (302) 407 4023  
fax: +1 (302) 407 4023

### THE NETHERLANDS

#### IPTP Networks

Science Park 404 BG, 1098 XH, Amsterdam, The Netherlands  
email: [nl@iptp.net](mailto:nl@iptp.net)  
phone: +31 207 147400  
fax: +31 207 147498

### RUSSIA

#### IPTP Ltd

117342, 17B, Butlerova ul., Moscow, Russia  
email: [ru@iptp.net](mailto:ru@iptp.net)  
phone: +7 495 983 0023  
fax: +7 495 983 0023

### HONG KONG

#### SAR OF CHINA

#### IPTP LIMITED

2602A, 26/F, Goodman Global Gateway, 168 Yeung Uk Road, Tsuen Wan, Hong Kong (SAR PRC)  
email: [info@iptp.hk](mailto:info@iptp.hk)  
phone: +852 24383217  
fax: +852 24383218

### BOLIVIA

#### IPTP SRL

Villalobos 1688, La Paz, Bolivia.  
e-mail: [info@iptp.bo](mailto:info@iptp.bo)  
phone: +59 150 117 300

### PERU

#### IPTP Networks S.A.C

Calle las Golondrinas 114, San Isidro, 15047, Lima, Perú.  
e-mail: [info@iptp.pe](mailto:info@iptp.pe)  
phone: +51 1 642 00 61

### CYPRUS

#### Fredonia Trading Ltd

Evagora Pallikaridi Kermia Court 1. Office # 2, 3106. Limassol, Cyprus  
email: [cy@iptp.net](mailto:cy@iptp.net)  
phone: +357 25 878860  
fax: +357 25 878862

### VIETNAM

#### IPTP Networks

#### Company Limited

03, lầu 06, 4A/167A Đường D1, Phường 25, Quận Bình Thạnh, Thành phố Hồ Chí Minh. Việt Nam  
email: [info@iptp.vn](mailto:info@iptp.vn)  
phone: +84 871099858  
fax: +84 871099858 ext. 0505



/IPTP Networks