



Neutral Internet eXchange of
(not only) the Czech Republic

ANNUAL REPORT 2009



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ABOUT OUR ASSOCIATION

Association Profile

NIX.CZ, z.s.p.o. (Professional Association of Legal Entities) is a company associating Czech and foreign Internet related businesses in order to mutually interconnect their networks (so called peering). The association provides stable and reliable exchange of approximately two thirds of all data flows within the Czech Republic. The infrastructure of the Association is accessible from four Prague locations. The hardware equipment of individual Internet Exchange points and the capacity of optical routes between individual locations is being continuously and sensibly upgraded and increased in preparation for the change-over to the new "double star" topology of the infrastructure which will take place in 2010.

Year 2009 witnessed the continuous growth of the NIX.CZ Association. In 2009, the constantly growing number of Internet users and the popularity of multimedia and data-intensive applications were the main reason for the growth of data transmitted through NIX.CZ. Despite the decrease in investments witnessed all around Europe in 2009 and slower development in the first half of the year, the data flow running through the NIX.CZ Exchange increased by more than 50% compared to the previous year. The NIX.CZ Association has again reinforced their role as a leading and reliable partner of telecommunication companies.

On 26th August 2009, the data flow exceeded 100 Gb/s and at the end of the year, peak traffic reached the value of 115 Gb/s. The total number of connected companies in 2009 grew to 93. In 2009, the Association continues to be globally one of the fastest growing IXPs (Internet Exchange Points), the largest IXP in the Czech Republic and ranks among the 10 largest IXPs in Europe. Since 2003, the Association has enabled peering via the IPv6 protocol and supported the implementation of this protocol by holding free seminars for the members of the Association.

The development of the Association itself is largely based on cooperation both within the Association as such, and with other IXPs. General Meetings as well as various social events and working groups enable Association members and customers to meet not as competitors but as partners cooperating on the future progress of their IXP. These events are largely attended by interesting foreign guests giving presentations which enable members of the Association to receive up-to-date information on the current situation of other IXPs in the world. The presence and active participation of representatives of the Association in key conferences of the Internet industry held in our country as well as abroad ensured ongoing inflow of state-of-the-art information and new developments and makes the Association visible internationally.

NIX.CZ is a dynamic and open company which actively contributes to Internet development in the Czech Republic and abroad. NIX.CZ is a member of Euro-IX which associates mostly but not exclusively European IXPs. In 2009, the Euro-IX Association initiated the creation of a short film explaining the role of IXPs to the general public. The NIX.CZ Association participated in the financing of the project. This film called "Internet Revealed" can be freely distributed for non-commercial purposes and is suitable as training material. In May 2009, the NIX.CZ Association hosted the European Peering



Forum – the conference and meeting of the members of Euro-IX in Prague, and in September 2009, the Association participated in organizing the regional RIPE NCC meeting in Moscow.

Historical Development

The Association was founded by eight companies on the day of 1st October 1996. The main reason for establishing the Association was an effort to simplify the system of interconnecting individual Internet networks and to reduce the costs of such connections. The efficiency of this system is evidenced by the continuously growing number of members and customers over the years. Here are a few milestones in the development of the Association:

- 2002** This year the NIX.CZ Association employs the first full-time employee.
- 2003** Open attitude to new technologies results in the implementation of services using the IPv6 protocol.
- 2004** The Association connected the first F-ROOT anycast for a DNS server in the Central Europe.
- 2005** In December 2005 the data traffic exceeds 10 Gb/s.

- 2006** In 2006, the administrators of .eu, .be and .at Top Level Domains choose the NIX.CZ peering node as one of the locations for their secondary name-servers. This represents the first service of this type within the region of Central and Eastern Europe.
- 2007** In 2007, the data traffic reached 30 Gb/s and NIX.CZ becomes the host of .com, .net secondary name-servers as well as J-ROOT anycast.
- 2008** In 2008, NIX.CZ offers their members and customers to connect via route-servers. The Association starts to be active in the area of marketing. The data traffic exceeds 50 Gb/s and the Association becomes the host of .ru and .pl name-servers.
- 2009** As of 31st December 2009, the Association has 73 members and provides services to 20 customers. The Association employs 8 full-time employees. NIX.CZ becomes the host of .It secondary name-server and the first European L-ROOT anycast of the ICANN company. At the end of 2009, the data traffic reached 115 Gb/s. During the years of 2005 – 2009 the volume of data transmitted through the NIX.CZ Internet Exchange has increased more than ten times.

Mission

The purpose of the NIX.CZ Association is to enable data flow exchange. This data exchange is voluntary between and among individual companies. The objective of NIX.CZ is to provide reliable hardware equipment for this data exchange, to provide professional services related to such data exchange, to remain neutral and to ensure equal conditions for all its members and customers.

Another objective of the Association is to protect the common interests of the members of the Association, to cooperate with the most important organizations operating in the Internet industry, to provide its members with access to the latest information about IXP and to keep providing neutral environment for the meetings of various specialists.



Registered Office and Contact Details

The current location of the registered office enables fast access to all locations of the NIX.CZ Association.

The registered office and contacts details in 2009 were as follows:

Address: Vinohradská 184/2396
130 52 Praha 3

Company ID: 65990471
Tax ID: CZ65990471

Phone: +420 272 660 628
Fax: +420 272 660 629
e-mail: info@nix.cz
URL: <http://www.nix.cz>

In 2009 the Association operated interconnection points at the following locations:

NIX1
České Radiokomunikace
Mahlerovy sady 1
Praha 3

NIX2
GTS Telehouse
Vinohradská 190
Praha 3

NIX3
T-Systems Czech republic
5.května 65
Praha 4

NIX4
SITEL Telehouse
Nad Elektrárnou 411
Praha 10



Foreword by the Chairman of the Board of Directors

Dear readers,

The NIX.CZ Internet Exchange Point has become a stable and inherent part of the Czech Internet; in fact, not only in the Czech Republic but internationally. Among the connected networks we can find a high number of foreign nets and a number of global players. Thus, NIX.CZ has again confirmed its important role in the area of Internet operation in Central Europe.

Everybody got used to the stable and reliable operation of the technical infrastructure of the NIX.CZ node. This makes it very difficult to continue to maintain this level of quality in the future. Despite the crisis, the year of 2009 witnessed further growth of NIX.CZ – the number of members and connected networks increased again, as well as the total volume of traffic and financial results. The NIX.CZ Internet Exchange Point has remained one of the ten largest European IXPs.

In 2010, NIX.CZ is about to make a significant step forward – change in the technology of the Exchange Point to increase its capacity for future growth. This change will not be easy – it involves technologies which are not used by anybody else in the Czech republic as the traffic typical for NIX is quite unique, in a way. Experience and references from abroad could be counted on the fingers

of two hands. It will be a very challenging task, but I am sure our technicians will be able to achieve it with flying colours.

Besides technical stability, it is also necessary to mention our financial and political stability. Since its establishment until today, the NIX.CZ Association has been built on sound foundations. It is a stable company with a strong background in the area of both finance and personnel.

Let's wish the NIX.CZ Association all the best in the years to come.

On behalf of the Board of Directors of the NIX.CZ Association



Josef Chomyn
Chairman of the Board
of Directors of NIX.CZ Association



Foreword by the Director of the Association

Ladies and Gentlemen,

The most significant day of 2009 was undoubtedly 26th August when we reached the milestone of 100 Gb/s. Despite the predictions made by wicked tongues, NIX.CZ has retained its position in the European “TOP 10 IXPs”, keeps growing and developing with the following parameters (as of the end of 2009):

- 93 connected companies
- 115 Gb/s of transmitted data
- 40 high-speed 10 Gb/s ports

The year 2009 witnessed an increase in the number of direct interconnections between some operators which resulted in the stagnation of overall traffic in the first half of the year. Hand in hand with the introduction of new IP services, the number and capacity of the connections of members and customers started to grow again in autumn 2009, re-establishing the positive trends of the previous years – PBT is traditionally higher than planned in the budgeted.

The General Meeting held in autumn decided to significantly reduce prices for the operation and installation of the 10 Gb/s ports and other installation fees for the year of 2010 in order to motivate

the members to invest in the NIX.CZ Association and thus to reverse the trend of direct interconnections.

The area of technological operation was not subject to any significant changes, the attention was paid to the area of planning. The NIX4 node has been equipped with another switch, the Association has launched preparatory works for the enlargement of CORE switches and topology change-over to “double star”.

NIX.CZ demonstrated its TOP European position by successfully hosting the European peering forum in May 2009 and by its participation in organizing the regional RIPE meeting in Moscow.

I believe NIX.CZ will sustain its present growth trend within the region of Central and Eastern Europe and will remain an important IP crossroad for data exchange in the European region.



Ing. Tomáš Maršálek
Director of NIX.CZ Association



MEMBERS AND CUSTOMERS IN 2009



Changes in 2009

New members:

Company name	Member since
Pe3ny Net s.r.o.	1.3.2009
LOSAN internet s.r.o.	1.4.2009
WMS s.r.o.	1.5.2009
BKS Capital Partners a.s.	1.10.2009
RIO Media a.s. (přechod ze zákazníka)	1.11.2009
Kaora s.r.o.	1.12.2009
RETN Limited (přechod ze zákazníka)	1.12.2009

Terminated memberships:

Company name	Member until
BroadNet Czech, a.s.	31.8.2009
CL-NET s.r.o.	30.9.2009

New customers:

Company name	Customer since
Kaunas University	1.5.2009
Internet Corporation for Assigned Names and Numbers	21.10.2009
RIPNDS (MSK-IX, JSC)	1.12.2009

Terminated customers:

Company name	Customer until
Plus.line AG	31.8.2009
RIO Media a.s. (přechod na člena)	31.10.2009
CABEL MEDIA s.r.o.	30.11.2009
GLOBAL INSPIRATION, s.r.o.	30.11.2009
RETN Limited (přechod na člena)	30.11.2009

List of members as of 31st December 2009

Company name	Company ID
ACTIVE 24, s.r.o.	25115804
AT & T Global Network Services Czech Republic s.r.o.	25785435
BKS Capital Partners a.s.	27574016
Blue4.cz s. r. o.	27461254
BT Limited, organizační složka	70802025
Casablanca INT s.r.o.	25079832
CentroNet, a.s.	26165473
CESNET, z.s.p.o.	63839172
Cogent Communications Czech Republic s.r.o.	28174933
COOLHOUSING s.r.o.	14893983
CZ.NIC z.s.p.o.	67985726

Company name	Company ID
Dial Telecom, a.s.	28175492
E4A s.r.l.	VI02995520240
ČD - Telematika a.s.	61459445
České Radiokomunikace a.s.	27444902
ČEZ ICT Services, a. s.	26470411
EURid vzw/asyl	40405
Freebone s.r.o.	25503286
GiTy,a.s.	25302400
GRAPE SC, a.s.	25708783
GREPA Networks s.r.o.	25492900
GTS NOVERA s.r.o.	28492170
ha-vel internet s.r.o.	25354973
IGNUM, s.r.o.	26159708
IJC, s.r.o.	26762544
Inter Fiber s.r.o.	28470095
INTERNET CZ, a.s.	26043319
INTERNEXT 2000, s.r.o.	25352288
Interoute Czech, s.r.o.	26147653
IPEX a.s.	45021295
Kaora s.r.o.	27145905
KIT digital Czech a.s.	18630758
LOSAN internet s.r.o.	27356507
M - SOFT, spol. s r.o.	49434853

Company name	Company ID
MAFRA, a.s.	45313351
Master Internet, s.r.o.	26277557
MAXPROGRES, s.r.o.	25307126
MGI.CZ s.r.o.	26220318
MobilKom, a.s.	48171000
Mopos Communications, a.s.	26222396
NETWAY.CZ s.r.o.	26421046
NEW TELEKOM, spol. s r.o.	26690471
NFX z.s.p.o.	75093201
OVANET a.s.	25857568
OVH, SAS	424761419
OXID Networks s.r.o.	26890950
Pe3ny Net s.r.o.	27252183
RETN Limited	4774262
RIO Media a.s.	28216733
S E L F servis, spol. s r.o.	18826016
SEVEROSTAV, spol. s r.o.	48292290
Seznam.cz, a.s.	26168685
SkyNet, a.s.	25346687
Sloane Park Property Trust, a.s.	25036459
SMART Comp. a.s.	25517767
SuperNetwork s.r.o.	25492063
SUPRO, spol. s r.o.	46993185

Company name	Company ID
T-Mobile Czech Republic a.s.	64949681
T-Systems Czech Republic a.s.	61059382
Telefónica O2 Czech Republic, a.s.	60193336
TERMS a.s.	14499037
Tinet	213314/2001
Trestel SK, a.s.	35792981
TRIOPTIMUM s.r.o.	25722492
UPC Česká republika, a.s.	562262
UPL TELECOM, s.r.o.	27203221
Verizon Czech s.r.o.	26174081
Vodafone Czech Republic a.s.	25788001
VOLNÝ, a.s.	63080150
VSHosting s.r.o.	61505455
Web4U s.r.o.	26058774
WIA spol. s r.o.	26703297
WMS s.r.o.	48289957

List of customers as of 31st December 2009

Company name	Company ID
COPROSYS a.s.	45534152
Daf, s.r.o.	25521233
FORTECH, spol. s r.o.	48155811

Company name	Company ID
Google Ireland Limited	368047
Internet Corporation for Assigned Names and Numbers	45534152
IP Exchange GmbH	11815808
LambdaNet Communications, s.r.o.	26201691
LeaseWeb BV	30141839
Ministerstvo vnitra ČR	00007064
MIRAMO spol. s r.o.	43960987
„N_SYS s.r.o.“	25254405
PODA a.s.	25816179
RIPNDS (MSK-IX, JSC)	1087746785356
Unient Communications, a.s.	63078171

List of TLD customers as of 31st December 2009

Company name	Company ID
DNS.BE vzw/asbl	9157/99
EURid vzw/asbl	40405
Kaunas University	111950581
NASK	521-04-17-157
NIC.AT	FN17256b
VeriSign Netherlands, B.V	81145859

The total number of NIX.CZ members as of the end of 2009 was 73.
The total number of NIX.CZ customers including TLD as of the end of 2009 was 20.

STATUTORY BODIES IN 2009

Board of Directors

In 2009 the Board of Directors was as follows:

Name	Position	Term of office
Mgr. Josef Chomyn	Chairman	1.1.2009 – 31.12.2009
Milan Švácha, MSc, MBA	Member	1.1.2009 – 22.12.2009
Milan Švácha, MSc, MBA	Deputy Chairman	22.12.2009 – 1.12.2009
Mgr. Ondřej Filip, MBA	Member	1.1.2009 – 31.12.2009

Supervisory Board

In 2009 the Supervisory Board was as follows:

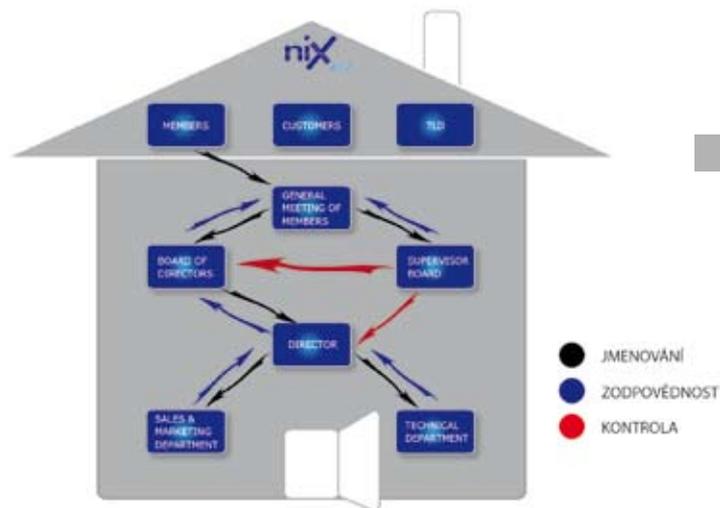
Name	Position	Term of office
Radek Majer	Member	1.1.2009 – 16.6.2009
Radek Majer	Chairman	16.6.2009 – 1.12.2009
Mgr. Karel Taft	Member	1.1.2009 – 16.6.2009
Radim Hájek	Member	16.6.2009 – 31.12.2009
Martin Semrád	Member	1.1.2009 – 31.12.2009

EMPLOYEES IN 2009

As of 31st December 2009, the Association employs 8 full-time employees in the positions of Director of the Association, 3 Technical Managers, 2 Sales & Marketing Managers and 2 Technical Specialists.

- The Director organizes and coordinates internal and external communication. Further, in cooperation with the Board of Directors, he prepares strategies and background materials for members' voting (on the Association's intranet), especially for the purposes of new members and customers admission, as well as principal changes in the organization of the NIX Association.
- Technical Managers look after technical, operational and development matters.
- Sales & Marketing Managers are in charge of operational, sales, marketing and administration matters of the Association.
- Technical Specialists are responsible for the development and administration of internal applications and the Intranet and participate in controlling and monitoring of the locations.

Organization structure of the Association:





Ing. Tomáš Maršálek
Director of NIX.CZ Association



Tereza Nikolaiová
Sales & Marketing Manager



Renáta Maličká
Sales & Marketing Manager



Ondřej Beran
Technical Manager



Adam Golecký
Technical Manager



Petr Jiran
Technical Manager



Jiří Mikuláš
Technical Specialist



David Stopka
Technical Specialist



Technical Solution

In 2009, due to a lack of dark fibres, the backbone connections between NIX1-NIX2 and NIX2-NIX4 were changed to passive DWDM technology (Dense Wavelength Division Multiplexing) running over the existing fibres, which enabled the increase to 50 Gbps. Thanks to this modification, NIX.CZ can provide up to 32 channels per one pair of optical fibres without the necessity to acquire additional dark fibres.

NIX.CZ uses a range of CISCO 6500 switches in fully redundant configuration. In 2009 we prepared premises for the installation of two new switches to cover the demand for new ports at all locations. Thus, there is a possibility of connecting new ports of capacities ranging from 100 Mbs to 10 Gbps; two or more physical lines joining into one logical line is supported from the speed of 1 Gbps up. This step was also made in preparation for the change in the topology of the network, which is to be carried out in 2010. The NIX.CZ interconnection technology continues to run on the link layer (Ethernet).

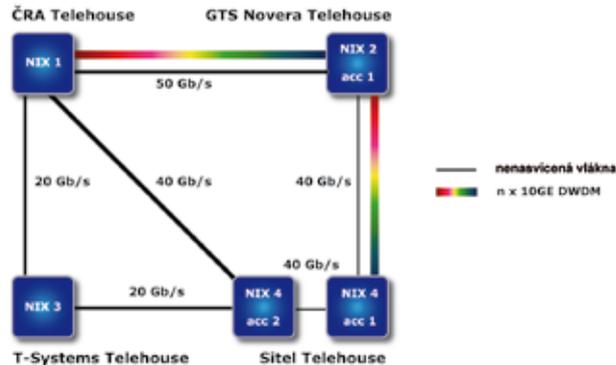
The Association runs its autonomous 6881 system on the platform of Cisco 7301 routers, which enable access to internal services of the Association and connection of hosted TLD DNS servers, both via the IPv4 and IPv6 protocols. The operation of the infrastructure is ensured by as many as 22 support servers installed at individual locations.

The Association continues to enable its members and customers to be interconnected using the IPv6 protocol. This connection is implemented within the same VLAN as IPv4; this fact enables the members and customers to operate routers and interfaces in a double protocol buffer mode. As of the end of 2009, 46 IPv6 networks have been interconnected representing approximately one half of all participating networks.

Two route-servers at NIX2 and NIX4 simplify the system of peering sessions between members and customers, where there is no need of individual sessions. These route-servers also simplify the process of new members and customers admission into the Association. The service is provided free of charge to members and customers, peering is supported in both IPv4 and IPv6 protocols. Due to the requirements for higher stability of the solution, the route-servers were divided into two independent routing daemons (Bird and Quagga).

In May 2009, a new any-cast secondary domain server for .it TLD was put into operation in the premises of NIX.CZ. In October, the Association put into operation a connection for ICANN, connecting the mirror of the root L server. This installation of a root server contributes to higher safety and stability of the operation within the European region.

Topology as of 31st December 2009:



Presentation

The presentation of the Association in 2009 was traditionally focused on the Czech as well as foreign professional communities, using the web pages and news releases as the main communication channels serving this purpose.

In 2009, the Euro-IX Association initiated the creation of a short film explaining the role of IXPs to the general public. The NIX.CZ Association participated in the financing of the project. This film called "Internet Revealed" can be freely distributed for non-commercial purposes and is suitable as training material. In May 2009, the NIX.CZ Association hosted the European Peering Forum – the conference and meeting of the members of Euro-IX in Prague, and in September 2009, the association participated in organizing the regional RIPE NCC meeting in Moscow.

In 2009 the Association continued to cooperate with other IXPs all around the world and actively participated in RIPE, NANOG and APRICOT conferences, the Euro-IX-WG working group and the Euro-IX meeting.

Like every year, in 2009 the Association held for its members two social gatherings and a number of working groups. These meetings give competitors an exceptional opportunity to meet as partners and co-operators. For technical specialists of the members, the Association organized two practical workshops on the implementation of the IPv6 protocol.

BALANCE SHEET

(in thousands of CZK) as of the last day of	2005	2006	2007	2008	2009
Total Assets	9666	15950	22836	30551	42462
Fixed assets	3035	5172	6858	7757	13803
Intangible assets (gross)	25	25	25	25	0
Allowance for intangible assets	-25	-25	-25	-25	0
Tangible assets	8031	10989	14944	19090	25152
Allowance for tangible assets	-4996	-5817	-8086	-11333	-11349
Unfinished investments	0	0	0	0	0
Financial investments	0	0	0	0	0
Current assets	6234	10392	15746	22014	27050
Inventory	0	0	0	0	0
Long-term receivables	0	0	0	0	0
Short-term receivables	3687	4620	7477	9644	10923
Financial assets	2547	5772	8269	12370	16127
Other assets	397	386	232	780	1609
Total Liabilities	9666	15950	22836	30551	42462
Equity	8453	13619	20332	27671	39703
Registered capital	0	0	0	0	0
Profit/loss of previous years	5149	8453	13619	20332	27672
Profit/loss of current period	3304	5166	6713	7339	12031
Other resources	1213	2331	2483	2880	2754

(in thousands of CZK) as of the last day of	2005	2006	2007	2008	2009
Reserves	0	0	0	0	0
Long-term payables	7	7	7	7	7
Short-term payables	1206	2324	2476	2837	2747
Bank loans	0	0	0	0	0
Other liabilities	0	0	21	0	5

PROFIT AND LOSS STATEMENT

(in thousands of CZK) For year	2005	2006	2007	2008	2009
Revenues – sales of services	12976	17827	23260	29410	37920
where: sales of services	12976	17827	23260	29410	37920
change in status of inventories	0	0	0	0	0
activation	0	0	0	0	0
Expenses	4890	5752	6661	7601	9372
where: material, low value assets, energies	545	600	949	1606	1920
Purchased services	4345	5152	5712	5995	7452
Added value	8086	12075	16599	21809	28548
Personnel expenses	2468	3925	6145	9633	9888
where: employees	1748	3205	5425	8848	9103
remuneration to members of bodies	720	720	720	785	785
Taxes and fees	3	6	12	24	13
Depreciation of fixed assets	1432	1734	2575	3523	4310
Revenues from disposals of fixed assets	149	0	127	368	0
Net book value of disposed fixed assets	121	0	0	438	0
Other operating revenues	3	13	45	282	280
Other operating expenses	135	49	142	291	358
Earnings (interest)	2	8	54	208	195
Member fees	150	150	550	450	200
Profit / loss before tax	4231	6532	8501	9208	14654
Income tax	927	1366	1788	1869	2623
Profit / loss after tax	3304	5166	6713	7339	12031

INDEPENDENT AUDITOR'S REPORT

We have audited the accompanying financial statements of NIX.CZ Association which comprise the balance sheet as of 31 December 2009, the income statement for the period from 1 January 2009 to 31 December 2009 and notes to these financial statements, including a summary of significant accounting policies applied.

Responsibility of the statutory body for the financial statements

The statutory body of the Association is responsible for the preparation and fair presentation of the financial statements in accordance with Czech accounting legislation. This responsibility includes: designing, implementing and maintaining internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error; selecting and applying appropriate accounting policies; and making accounting estimates that are reasonable in the circumstances.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Act on Auditors of the Czech Republic, International

Standards on Auditing and the related application guidance of the Chamber of Auditors of the Czech Republic. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the internal control. An audit also includes evaluating the appropriateness of the accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Auditor's Statement

"In our opinion, the financial statements give a true and fair view of the assets, liabilities and financial position of the NIX.CZ Association as of 31st December 2009 and the expenditures, revenues and financial results for the year 2009 in compliance with Czech accounting legislation."

In Liberec, on 10th May 2010

ADAMEC AUDIT s.r.o.
Licence No 342
Ing. Jaromír Adamec
Auditor, licence No 1719




ADAMEC AUDIT s.r.o.
oprávnění KA ČR číslo 342
Ing. Jaromír Adamec
statutární auditor číslo oprávnění 1719

STRATEGIC GOALS FOR 2010

In 2010, the Board of Directors and the Association Director will work in the following areas in addition to the normal operational issues:

- core switch tender
- change-over to the “double star” topology
- modifications to the pricelist and Operating Rules
- attracting of new members and customers
- education of members, IPv6
- cooperation with other IXs, mainly in the area of sharing know-how and technology
- active participation in EURO-IX
- participation in national as well as international conferences
- cooperation with important associations operating in the field of the Internet in the Czech Republic
- cooperation with international organizations operating in the field of the Internet
- cooperation in the preparation of the RIPE 60 meeting in Prague
- social gatherings and events