

IDABC programa: s veikumo tarp Europos sistem pagrindas— atvirojo kodo programos (OSS) ir atvirieji standartai (OS)

Romualdas Krukauskas

VĮ Infostruktūra

Vilnius, 2005 gegužės 20 d.



IDA programa

**Europos Bendrijos elektroninio
keitimosi duomenimis tarp
administracij programa**

**IDA angl. - *Interchange of Data
between Administrations***

Metinis biudžetas - apie 25 MEUR



INFOSTRUKTŪRA



IDABC

IDA misija

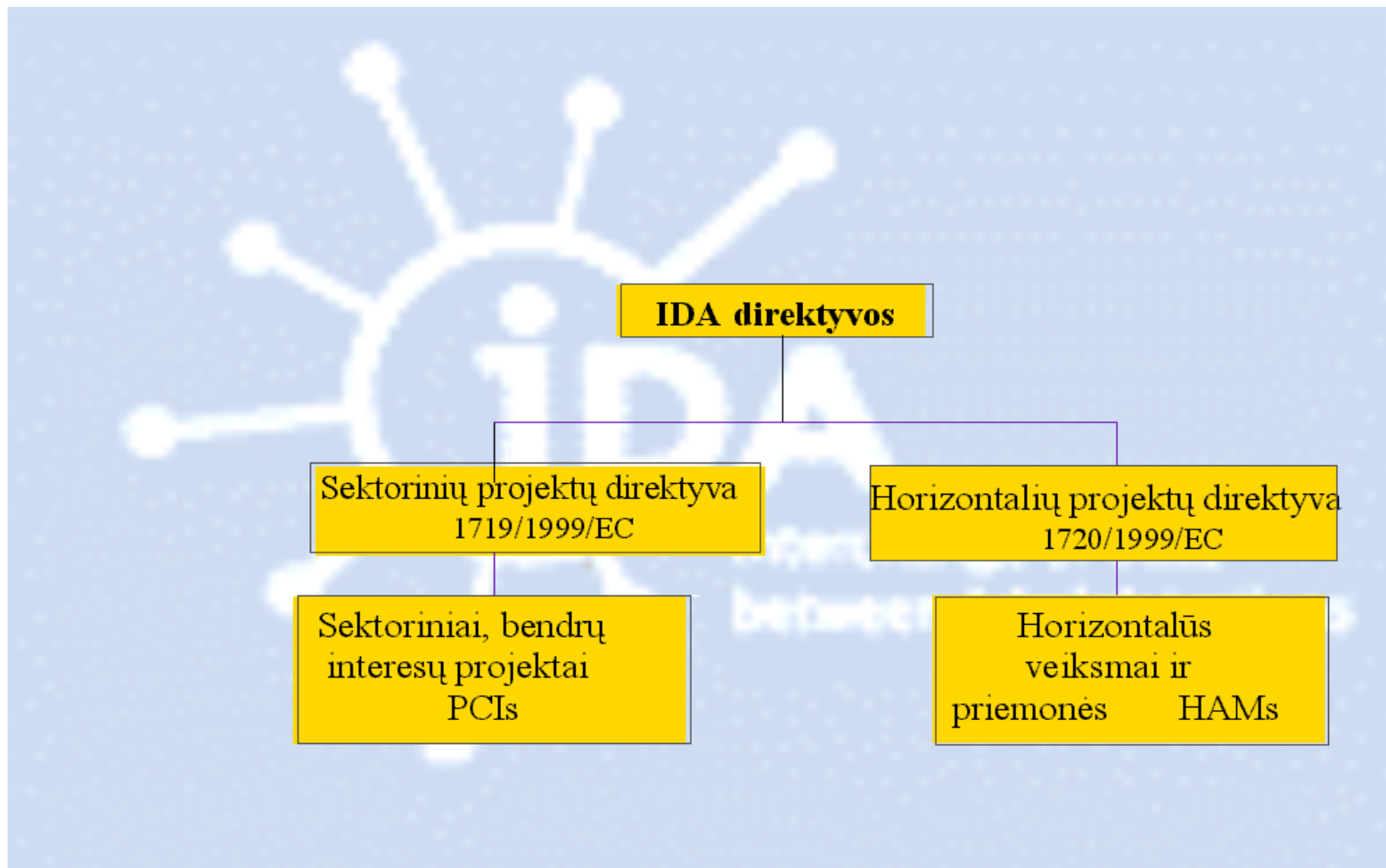
- Pradin - pagerinti sprendim pri mim Bendrijoje, pad ti vidin s rinkos procesams ir pagreitinti politikos gyvendinim , t.y. naudojant informacijos ir ryši technologij pasiekimus vykdyti G2G funkcijas.
- Programa IDA pradėta – 1996 metais
- Nuo 2005 – vykdyti G2G, G2B, G2C funkcijas (Government to government, Government to Business, Government to Citizens)

IDA teisinis pagrindas

1. Provision of sectoral telematics networks supporting Community policies
(1719/1999/EC “Guidelines”)
2. Determine common requirements & solutions for interoperability & needs of trans-European sectoral networks
(1720/1999/EC “Interoperability”)



IDA teisinis pagrindas



Sektoriniai arba Bendr interes projektai - PCIs



Sektoriniai IDA projektai

Lietuvoje 2004-2005 metais

- Eurodac, DublinNet - pirštų atspaudai; prieglobsčio prašytojai, daktiloskopinė informacija – VRM migracija; kriminalistikos centras (2004.04);
- SIGL - importo-eksporto licencijos, ŪM (2004.05);
- SFC - žemės ūkio ministerija, struktūrinių fondų bendroji duomenų bazė (2004.06);
- SFC – finansų ministerija, struktūrinių fondų bendroji duomenų bazė (2004.06);
- Kiti.

PLANUOJA:

- TACHONET – Valstybinė kelių transporto inspekcija, SM (2005.08)
- ES Šengeno IS (SIS II), Vizų informacinė sist.(VIS)
- Kiti.

Bendrosios paslaugos arba Horizontali veiksm ir priemoni projektai, HAMs

- TESTA (IP network);
- Viešųjų raktų infrastruktūra
(Public Key Infrastructure - PKI CUG);
- CIRCA grupinis darbas – workgroup
- Open Source Observatory – atviro kodo
programų taikymų monitoringas
-

TESTA – uždaras ES valdžios tinklas (private network):

Trans European Services for Telematics between Administrations

- IP protokolas su MPLS, izoliuotas nuo interneto

- Tinklas su įregistuota RIPEe adresų aibe – 62.62.0.0 / 17, kurie nėra maršrutizuojami internete

- Apdorojantis slaptą informaciją su žymomis:

■ ***“Riboto naudojimo” Restricted***

■ ***„Konfidencialiai“ Confidential***

- Turintis uždarų domenų vardus <3-i_lygio_vardas>.eu-admin.net pvz. www.portal.de.eu-admin.net

ar eudra.eu-admin.net, uždara paštą – pvz.

r.krukauskas@is.eu-admin.net





TESTA atitikmuo Lietuvoje - SVDPT

EUROPOS SĄJUNGOS STRUKTŪRINIŲ FONDŲ PARAMA - SAUGAUS VALSTYBINIO DUOMENŲ PERDAVIMO TINKLO (SVDPT) KAMIENINĖS DALIES SUKŪRIMO PROJEKTUI (2005 - 2007)

[1.1. PARAMOS SUTARTIS](#)

[1.2. PROJEKTO TIKSLAI IR REZULTATAI](#)

[1.3. SVDPT SAUGUMAS](#)

[1.4. VALSTYBĖS INSTITUCIJŲ DUOMENŲ PERDAVIMO TINKLAS LIETUVOJE 1994-2004 METAIS](#)

[1.5. SAUGUS VALSTYBINIS DUOMENŲ PERDAVIMO TINKLAS](#)



Informacija apie projektą teikiama telefonu Vilniuje 85 239 1712 ir elektroniniu paštu projektai@is.lt.

<http://www.is.lt/is/svdpt/>

SVDPT - SAUGUS VALSTYBINIS DUOMEN PERDAVIM TINKLAS

- SVDPT yra Lietuvos Respublikos Vyriausybės starteginė iniciatyva - vykdyti spartų ir saugų elektroninį keitimąsi duomenimis tarp šalies valstybinių institucijų, naudojant informacijos ir ryšių technologijų pasiekimus;
- Kuriamas SVDPT tinklas privalo turėti charakteristikas, analogiškas ES administracijų tinklams (TESTA). Jo pagalba Lietuvos institucijos turi keistis informacija tarpusavyje, taip pat su ES administracijomis ir institucijomis. Tinklas turi tenkinti nustatytus saugos reikalavimus, taip pat perduoti informaciją su slaptumo žymomis.




TESTA - „Mozilla“

Byla Iaisa Rodinys Eiti Adresynas Priemonės Darbai Žinynas

http://62.62.0.35/ leškoti

Pradžia Adresynas „Mozilla“ Lietu...



April 14, 2004

- Home
- What Is Testa?
- TESTA Manual
- Useful Links
- FAQ
- Feedback
- Site Map

Database

- Browse
- Planning
- Application
- Who's Who
- Database Help

Identify yourself

Login

Password

GO

Search

About Testa News & Events Using Testa About the Network Support

Welcome to TESTA

The Trans-European Service for Telematics between administration portal

[An IDA initiative](#)

Newsletter subscription [Unsubscribe](#)

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[View the latest newsletter](#)

TESTA Manual

[Guidelines on how to use TESTA Generic Services](#)

Headline

Ireland
[EU Presidency - Focus On Ireland](#)

News

- 14/12/2003
[EudraNet II TESTA Pilot](#)
Equant, on behalf of DG Enterprise, has been requested to assist EMEA to set up a pilot environment in order to solve addressing and access issues generated by the current system.
- 04/12/2003
[New connection to SYZEFXIS network](#)
A new node has been connected to the SYZEFXIS network for the Greek National Technical University of Athens (Transport Section) to access CARE II....
- 27/11/2003
[OLAF's AFIS/CIS is now accessible via TESTA](#)
OLAF's principal means of cooperation with Member States, the Anti-Fraud/Customs Information System, is now accessible via TESTA....
- 24/11/2003
[New IDA Publication](#)
New IDA Publication: FROM INTERCHANGE OF DATA BETWEEN

Next events

- 22/04/2004
[TAC](#)
Agenda to be defined...
- 08/06/2004
[TAC WHAM](#)
Agenda to be defined...
- 01/07/2004
[TAC](#)
Agenda to be defined...

LIETUVA PIRMA KARTA
SUSIJUNGĖ SU TESTA TINKLU
2004 kovo 17 dieną



IDABC

IDA PKI CUG – el. parašo paslaugos uždarai vartotojų grupei

- IDA išduoda X.509v3 elektroninius sertifikatus IDA tinklų vartotojams (nariams), pvz. EURODAC, TACHONET it kt.
- Naudoja: SSL, S/MIME, PKI elektroninį parašą
- Vysto “CA tiltas” - angl. “bridge CA” koncepciją



*CIRCA - a collaborative workspace
with partners of the European Institutions*



[CIRCA quick guide?](#)
[How to register?](#)
[CIRCA on line HELP](#)
[FAQ](#)

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[Internal Audit Service](#)
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[Join Interpreting and](#)
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[Paymaster Office](#)
[Personnel and Administration](#)
[Press and Communication](#)
[Regional Policy](#)
[Research](#)
[Secretariat General](#)
[Taxation and Customs Union](#)
[Trade](#)

<http://forum.europa.eu.int/>

Decentralized bodies

[CEDEFOP - European Centre for the Development of Vocational Training](#)
[EIONET - European Environment Information and Observation Network](#)
[EFILWC - European Foundation for the Improvement of Living and Working Conditions](#)
[ECA Co-operation Supreme Audit Institutions - European Court of Auditors and the Supreme Audit Institutions](#)
[ECA ICT Contracts - European Court of Auditors IT and Telecommunications contracts](#)
[CVRIA - The Court of Justice of the European Communities](#)
[Consilium - The Council of the European Union](#)
[Translation Centre for the Bodies of the EU](#)
[EFSA - European Food Safety Authority](#)
[ETF - European Training Foundation](#)
[EUMC - European Monitoring Centre on Racism and Xenophobia](#)
[EPSO - European Personnel Selection Office](#)

Interinstitutional projects

[CINDI - Composite Indicators](#)
[I3 - Interinstitutional Internet](#)
[IPA CC - Interoperable delivery of European eGovernment Services to public Administrations, Business and Citizens](#)
[NB-Net - Notified Bodies Network](#)

Interinstitutional bodies

[Publications Office](#)

Others

[CIT](#)
[Forward Study Unit](#)
[ICTAC-ICT Agency Committee - Interagency ICT network](#)
[Terminology](#)
[EU Public Administrations Network](#)
[EU National Institutes of Public Administration](#)

CIRCA - Communication & Information
Resource Centre Administrator –
sistema kolektyviniam darbui

IDA-TESTA istroija

Reference card

Abbreviation.: NSPP

National Server Pilot Project
1993 - 1997

Reference card

Abbreviation.: **TESTA I**

Trans-European Services for
Telematics between Administrations

Duration: 1996 - 2000

Trans-European Services for Telematics
between Administrations, 1st Project,
1996 - 2000

Reference card

Abbreviation.: **TESTA II**

Trans-European Services for
Telematics between Administrations

Duration: 2000 - 2004

Trans-European Services for
Telematics between Administrations,
2nd Project, 2000 - 2004

IDABC - *Interchange of Data between
Administrations Business & Citizens*)
replacing IDA since 2005,

Reference card

Abbreviation.: **s-TESTA**

Trans-European Services for
Telematics between Administrations

Duration: 2005 - 2009

3rd Project, 2005 - 2009



IDABC

IDABC juridinis pagrindas

- 2004 met Europos Parlamento ir Tarybos sprendimas dėl "Tarpusavio s veikum turin i tanseuropin e-valdžios paslaug tiekimo viešosioms administracijoms, verslui ir pilie iams" - Decision **2004/387/EC** of 21 April 2004 on **Interoperable delivery of pan-European e-Government services to public administrations, businesses and citizens** (IDABC), OJ L 181, 18/05/2004.
- Planuojama, kad per 5 metus programos IDABC operacin s išlaidos bus apie 148.7 milijonai eur

IDABC programos vykdymas

- IDABC programos biudžetas - apie 38 MEUR metus, trukmė : 2005-2009
- IDABC programą valdo IDABC Unit, DG Enterprise and Industry
- IDABC programą Lietuvoje valdo Vidaus reikalų ministerija

<http://europa.eu.int/idabc/>

<http://www.vrm.lt/index.php?id=529>

<http://www.is.lt/is/ida/>



S VEIKUMAS – ESMINIS IDABC PROGRAMOS TIKSLAS

- IDABC programa yra- s veiki visos Europos el.valdžios paslaug teikimas viešosioms administracijoms (vyriausyb ms), verslui ir pilie iams;
- IDABC programa sukuria trans-Europinius tinklus - TESTA, sTESTA;
- IDABC programa sukuria sektorinius tinklus/paslaugas (PCIs);
- **IDABC programa ATVIRO KODO PRIEMON MIS sukuria bendr sias paslaugas ir bendras priemones (HAMs), kad palaikyt visos Europos sistem s veikum .**



INFOSTRUKTŪRA



IDABC



Interchange of Data between Administrations

**FLOSSPOLS Conference on
"Open Standards and Libre Software in Government"
The Hague
18 November 2004**

**Interoperability:
The EU perspective**

**SAVEIKUMAS –
per atvirojo kodo
programas(OSS) ir
atviruosius
standartus (OS)**

**Dr. Barbara Held
Interchange of Data between Administrations (IDA)
European Commission**

Open Source Software (and Open Standards) from a European perspective

**SAŲVEIKUMAS – per atvirojo
kodo programas(OSS) ir
atviriuosius standartus (OS)**

Dr. Barbara Held
IDABC, Enterprise and Industry Directorate-General,
European Commission

SAŲVEIKUMAS – per atvirojo kodo programas(OSS) ir atviruosius standartus (OS)

European Interoperability Framework for pan-European eGovernment Services

Paulo Lopes

European Commission, Directorate General Information Society

**Presentation to the @METIS kick-off meeting,
Sophia Antipolis,
30-31 March 2005**

INTEROPERABILITY - SĄVEIKUMAS

- 2004 m. sausio 21 d. IDA išleido Europos sąveikumo schemos 1-os versijos projektą;
- 2005 m. sausio 21 d. IDABC išleido Europos sąveikumo schemos 1.0 versiją (**European Interoperability Framework v 1.0**, EC, ISBN 92-894-8389-X), kurią visus metus svarstė ir darė pakeitimus visuomenė.
- <http://europa.eu.int/idabc/en/document/3761>

SĄVEIKUMO (INTEROPERABILITY) APIBRĖŽIMAS

- Sąveikumas apibrėžiamas kaip IKT sistemų ir verslo procesų (kuriuos šios sistemos palaiko) gebėjimą keistis duomenimis ir galėjimą dalintis informacija bei žiniomis;
- Interoperability is “the ability of information and communication technology (ICT) systems and of the business processes they support to exchange data and to enable the sharing of information and knowledge”, angl.



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SAVEIKUMO SCHEMOS (INTEROPERABILITY FRAMEWORK) APIBRĖŽIMAS

- **Sąveikumo schema** apibrėžiama kaip standartų ir rekomendacijų visuma, kur aprašyti būdai, kaip organizacijos sutarė, ar turi susitarti, kad galėtų tarpusavyje bendrauti.
- **Interoperability framework** is “a set of standards and guidelines that describes the way in which organisations have agreed, or should agree, to interact with each other”.

eEUROPA'2005 - SAVEIKUMO POLITINIS PAGRINDAS

- **eEurope 2005 Action Plan**

“issue an agreed interoperability framework (EIF) to support the delivery of pan-European e-government services to citizens and enterprises. It will address information content and recommend technical policies and specifications for joining up public administration information systems across the EU. It will be based on open standards and encourage the use of open source software.”

EIF REMSIS ATVIRAIS STANDARTAIS IR BUS REMIAMAS ATVIROJO KODO PROGRAMŲ NAUDOJIMAS

- **Resolution of the European Union Directors General responsible for public administration of 22/23.11.2004**

“The Directors General invite the European Commission to develop in co-operation with the member states a policy on open standards, addressing issues like definition of open standards, removing legal barriers to the use of open standards in procurement, and opening up closed standards and identifying a minimum set of standards, needed for the pan European communication.”



eEurope Action Plan 2005

An Information Society for everyone:

... the Commission will issue an agreed interoperability framework to support the delivery of pan-European e-government services to citizens and enterprises ... It will ... recommend technical policies and specifications ... It will be based on **open standards** and encourage **the use of open source software**



Turning the European Union into the strongest IT-based economic area by 2010

ESS (EIF) TIKSLAI YRA:

1. To support the EU's strategy of providing user-centred e services by facilitating the interoperability of services and systems between public administrations, as well as between administrations and the public (citizens and enterprises), at a pan-European level;

**PAREMTI ES STRATEGIJĄ TEIKTI ORENTUOTAS Į VARTOTOJĄ
EL.VALDŽIOS PASLAUGAS, PALENGVINANT JŲ SĄVEIKUMĄ G2G,
G2B, B2C SRITYSE**

2. To supplement national interoperability frameworks in areas that cannot be adequately addressed by a purely national approach;

PAPILDYTI NACIONALINIAS SĄVEKUMO SCHEMAS

3. To help achieve interoperability both within and across different policy areas, notably in the context of the IDABC Programme and any other relevant Community programmes and initiatives.



INFOSTRUKTŪRA

**PASIEKTI SĄVEIKUMĄ VIDUJE VIENOS IR TARP
SKIRTINGŲ ES PROGRAMŲ**



IDABC

S VEIKUMO GAIR S

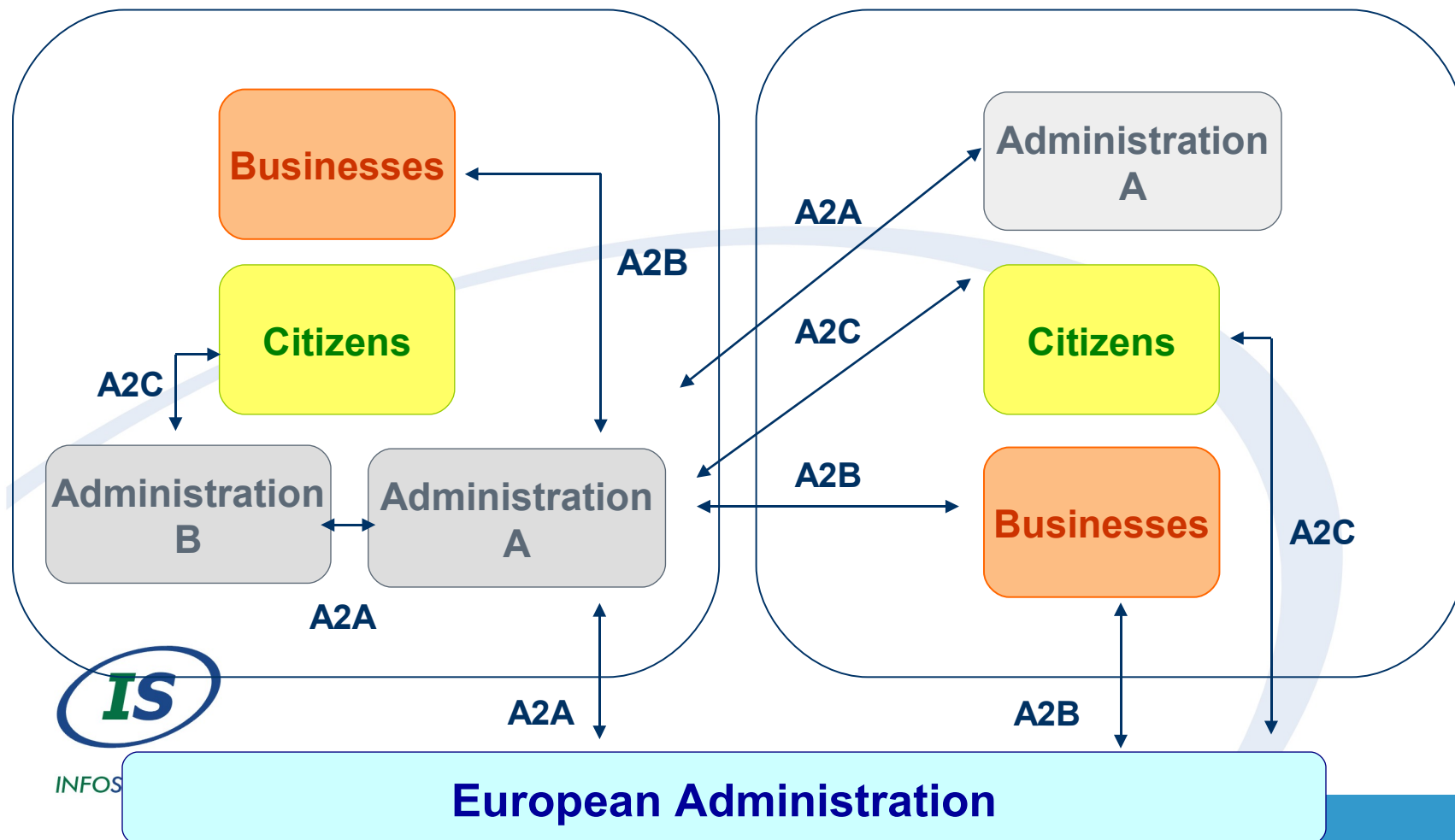


- I received left L4-5 disc prolapse, causing pain/radicle at 2000
- I am his senior of 10 years and I am his

GALIMOS SUD TINGOS INTERAKCIJOS TARP ES ŠALI NARI (šalies A ir šalies B)

Member State A

Member State B



SAVEIKUMO DIMENSIJOS

- ▶ **ORGANIZACINIS SAVEIKUMAS** **Organisational Interoperability** is about streamlining administrative processes and information architecture to the institutional goals we want to achieve – and to facilitate the interplay of technical and organizational concerns. It requires the identification of “business interfaces”, and coordination throughout Member States and the European Union.
- ▶ **TECHNINIS SAVEIKUMAS** **Technical Interoperability** is about knitting together IT-systems and software, defining and using open interfaces, standards and protocols. It relies on cooperation as well as on technical infrastructures.
- ▶ **SEMANTINIS SAVEIKUMAS** **Semantic Interoperability** is about ensuring that the meaning of the information we exchange is contained and understood by the involved people, applications, and institutions. It needs the know how of sector institutions and publication of its specifications.

PAGRINDINIAI PRINCIPAI S VEIKUMUI PASIEKTI (1)

- **PRIEINAMUMAS** *Acessibility* – multilingualism, disabled users, socio-economic disparities, multi-plataform approach (e.g. PC, mobile, TV, PDA, etc.)
- **SAUGUMAS** *Security* – common security policy, maximum transparency level and simplicity for users (identification, authentication, confidentiality)
- **PRIVARUMAS** *Privacy* – uniform levels for data protection
- **ATVIRŲ STANDARTŲ NAUDOJIMAS** *Use of open standards*



ATVIR J STANDART APIBR ŽIMAS

(...)The following are the minimal characteristics that a specification and its attendant documents must exhibit in order to be considered an open standard:

- The standard is adopted and will be maintained by a **not-for-profit organisation**, and its ongoing development occurs on the basis of an **open decision-making procedure** available to all interested parties (consensus or majority decision etc.).
- The standard has been published and the **standard specification document is available either freely or at a nominal charge**. It must be permissible to all to copy, distribute and use it for no fee or at a nominal fee.
- **Intellectual property** – i.e. patents possibly present – of (parts of) the standard is **irrevocably made available on a royalty-free basis**.
- There are no constraints on **the re-use** of the standard.

PAGRINDINIAI PRINCIPAI S VEIKUMUI PASIEKTI (2)

- ***GAUTI NAUDA IŠ ATVIRO KODO PROGRAMŲ***
Access the benefits of Open Source Software – exchange of experiences on its advantages (e.g. avoid lock in to proprietary solutions, flexibility to share and develop applications, increased security through access to source code, develop local/national software industry, cost reduction, etc.)

European Commission issued guidelines to assist EU public administrations to migrate to open source software:

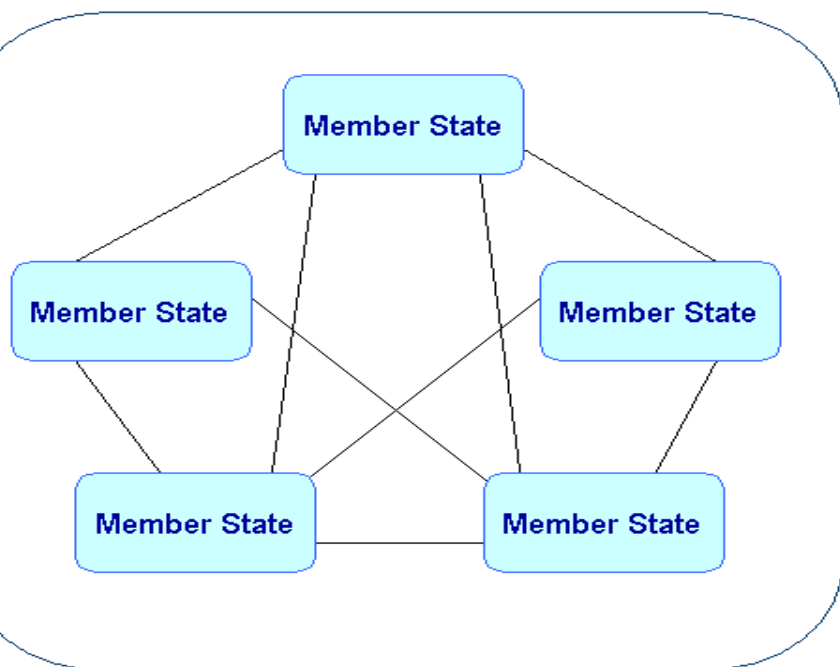
<http://europa.eu.int/ISPO/ida/jsps/doc.jsp?1647>



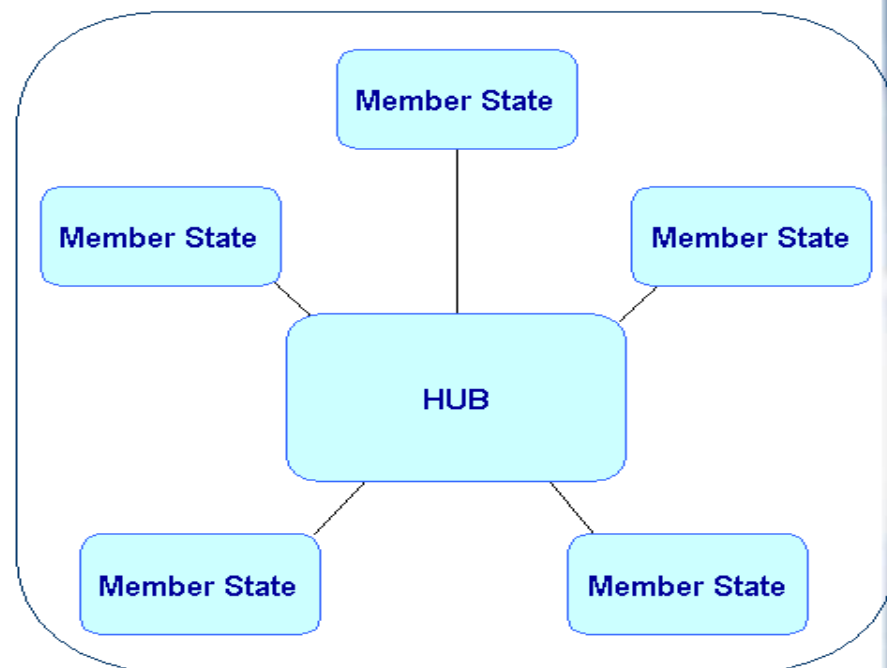
NAUDOTI DAUDIAŠALIUS SPRENDIMUS ***Use of multilateral solutions***

DAUGIAŠALIAI SPRENDIMAI – STEBUL S ARCHITEKTŪRA

Bilateral Solutions



Multilateral Solutions



KODĻ ATVIRO KODO PROGRAMOS ?

1. AKP tenkina atvirųjų standartų reikalavimus.

- 2. Atviras kodas duoda skaidrumą – o tuo pačiu ir žinias.
- 3. AKP duoda garantiją ateityje turėti duomenų pasiekiamumą.
- 4. AKP yra nebrangios pakartotino panaudojamumo pažiūriu (reusability), tuo naudojasi IDABC mažindama sistemų sąnaudas).
- AKP patikimos ir saugios dėl kokybės patikrinimo, kurį atlieka AK visuomenė



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ATVIRO KODO PROGRAMOS (AKP) EUROPOS KOMISIJOJE



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<http://europa.eu.int/idabc/>

Important legal notice

English

EUROPA > European Commission > IDABC

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The Programme

eGovernment Observatory

Open Source Observatory

IDABC Events

Welcome to IDABC!



IDABC stands for **I**nteroperable **D**elivery of European eGovernment Services to public **A**dministrations, **B**usinesses and **C**itizens. It uses the opportunities offered by information and communication technologies to encourage and support the delivery of cross-border public sector services to citizens and enterprises in Europe, to improve efficiency and collaboration between European public administrations and to contribute to making Europe an attractive place to live, work and invest.

[Read more](#)

Highlights

- IDABC@LinuxTag
- European Tourist Destinations Portal
- RESPER: Réseau permis de conduire
- Study on Stakeholder Requirements for European eGovernment Services

News



Synergy 02 - April 2005

This second edition of Synergy, the quarterly publication of the IDABC Programme, focuses on the IDABC inaugural

MyIDABC Login

Username:

Password:

RSS 0.91 1.0

Slide 37 of 46

Default Design



ROPA - IDABC - IDABC@LinuxTag - „Mozilla“

Taisa Rodinys Eiti Adresynas Priemonės Darbai Žinynas

http://europa.eu.int/idabc/en/document/4189

Įeškoti

Pradžia Adresynas IDA_IDABC_T... „Mozilla“ Lietu... Enterprise - ID... Lietuvos auto... com/ Naujienos

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IDABC

European eGovernment Services

Programme

Government Observatory

Open Source Observatory

IDABC Events

IDABC@LinuxTag



IDABC returns to Karlsruhe (Germany) to discuss with Member State experts on open source and the public sector during the 2005 LinuxTag - Europe's biggest open source software and Linux event.

The IDABC meeting "Working with the Community": OSS in Public Administrations", organised in conjunction with the [German Federal Ministry of the Interior](#) and the LinuxTag promoters, comes on the heels of a successful event held during the 2004 Linux conference.

Topics

Date and Location

Registration

Working with the Community: OSS in Public Administrations

The IDABC forum will examine two key issues:

- Pooling infrastructures ('source forges' for the public sector): this will follow up on the work done by the IDABC Open Source

Slide 37 of 46

Default Design



ATVIRO KODO PROGRAMAS EUROPOS KOMISIJOJE NAUDOJA:

► IDABC

Entreprise and Industry Directorate-General

➔ OSS for pan-European eGovernment services

<http://europa.eu.int/idabc>

► eTen, eGovernment Unit ...

Information Society and Media

Directorate-General

➔ Research and development - OSS projects in business, administration, education etc.

http://europa.eu.int/information_society/activites/open/source/european_activities/index_en.htm



IDABC PROPAGUOJA ATVIROJO KODO PROGRAMŲ NAUDOJIMĄ

- **Open Source Observatory:** Webpage with general information and international news on Open Source Software
- **European Open Source Competence Center:** Networking national and regional European Competence Centers
- **OSS Inventory:** Catalogue displaying OSS licensed software sponsored by public administrations
- **Open Document Format Initiative:** Promoting an ODF for European public administrations (studies, policy recommendation, workshops)
- **OSS Migration Guide**

<http://europa.eu.int/idabc>

IDABC rekomendacijos migracijai atvir sias programas

4000 vidinių ir nutolusių vartotojų kompiuterių tinkle - jų HW, SW su 10 serverių, taip pat apratnaujančių žmonių kaina per 5 metus yra:

- 1) firminės (MS) įrangos atveju yra 37 289 039 EUR per 5 metus.
- 2) atvirųjų programų naudojimo atveju - 11 490 983 EUR per 5 metus.
- Migracijos kaina iš 1) į 2) - yra 4 331 250 EUR per 5 metus.
- **TAUPYMAS PER 5 METUS – 21 466 806 EUR**



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Ataskaita "The IDA Open Source Migration Guidelines".



IDABC



IDABC NAUDOJA AKP SIUOSE PROJEKTUOSE:

- ▶ **eLink:** middleware for secure transactions between administrations and their communication partners
- ▶ **CIRCA Server:** tool for the online collaboration of working groups
- ▶ **eServices Tool:** software facilitation the implementation of multilingual websites (mainly for smaller administrations and institutions)
- ▶ **IPM – Interactive Policy Making:** web-based tool for the construction, programming and evaluation of online questionnaires



AKP NAUDOJIMAS DG INFORMATION SOCIETY AND MEDIA

- ▶ OSS is key to several eTEN eGovernment projects
 - ◆ e-PPS (e-procurement) <http://www.mermig.com/e-pps>
 - ◆ e-POLL (e-voting) <http://www.e-poll-project.net/>
 - ◆ SPES (security for citizen/administration exchanges) <http://www.spesproject.org>
- ▶ Two big IST-Research projects are investigating the use of OSS in public administration
 - ◆ COSPA <http://www.cospa-project.org>
 - ◆ FLOSSPOLS <http://www.flosspols.org>
- ▶ Another project is focusing on OSS in businesses
 - ◆ Calibre <http://www.calibre.org>



TOLIMESNI ŽINGSNIAI ...

Next steps ...

... to be discussed at the

**IDABC Workshop at the Linuxtag
in Karlsruhe (Germany) – June 23**

- ◆ **OSS applications for public administrations**
 - ◆ “gForge” and other platforms
 - ◆ Forms of collaboration with the community
- ◆ **Do we need a European GPL?**
 - ◆ Creating a OSS license for the CIRCA server
- ◆ **Economic impact of Open Source Software**



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