

Forum

e|Government
joint event

7th Eastern European e|Gov Days: eGovernment & eBusiness Ecosystem & eJustice

Dr. Sylviane Toporkoff

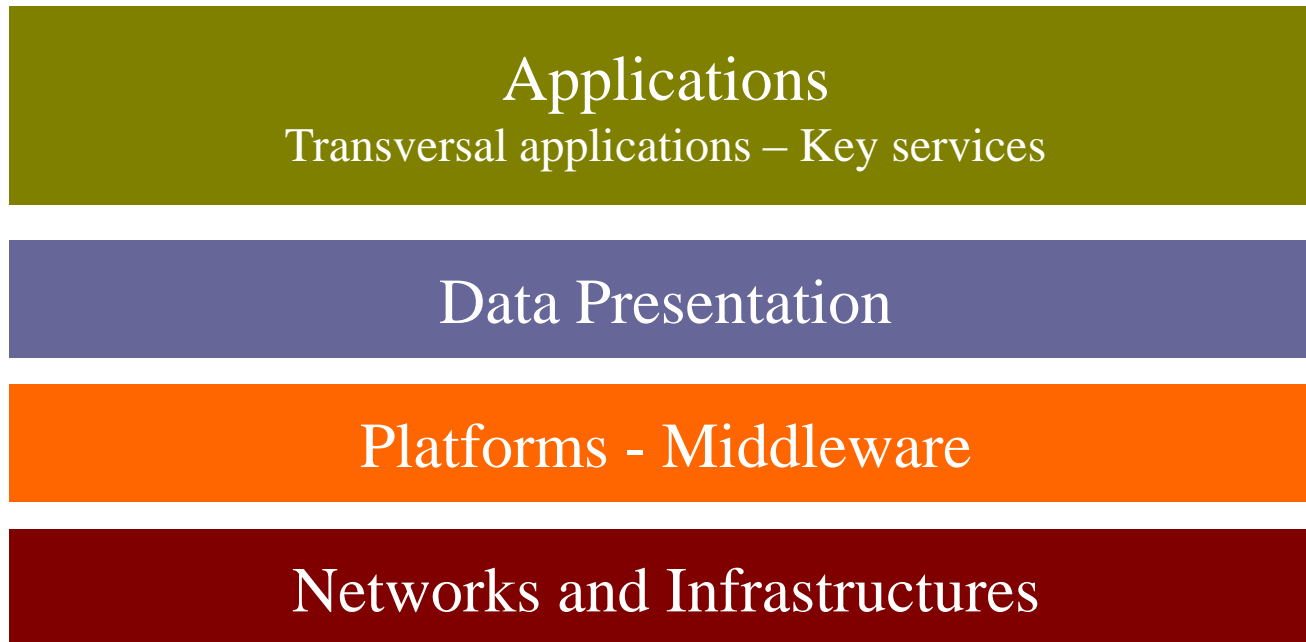
***April (22) -23 – 24, 2009, BREVNOV MONASTERY, Prague,
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16, rue Kléber – 92442 Issy-les-Moulineaux – France
Office : 46 ave Pierre Brossolette – 92240 Malakoff - France
+33 (0)1 4985 0326 - www.items-int.com

Benchmark on e-Gov Architecture frameworks and policies

- ▶ Assessment : Different approaches according to
 - Country
 - Period
- ▶ Problems relates to :
 - Architecture meanings
 - Level of interoperability
 - Impact of Middleware issues
 - Enterprise architecture and Web services
- ▶ Studies generally defend ONE point of view
- ▶ We can't use any existing template on which we can compare all e-Goc Architecture policies

- ▶ Conclusion : Layout for Architecture frameworks

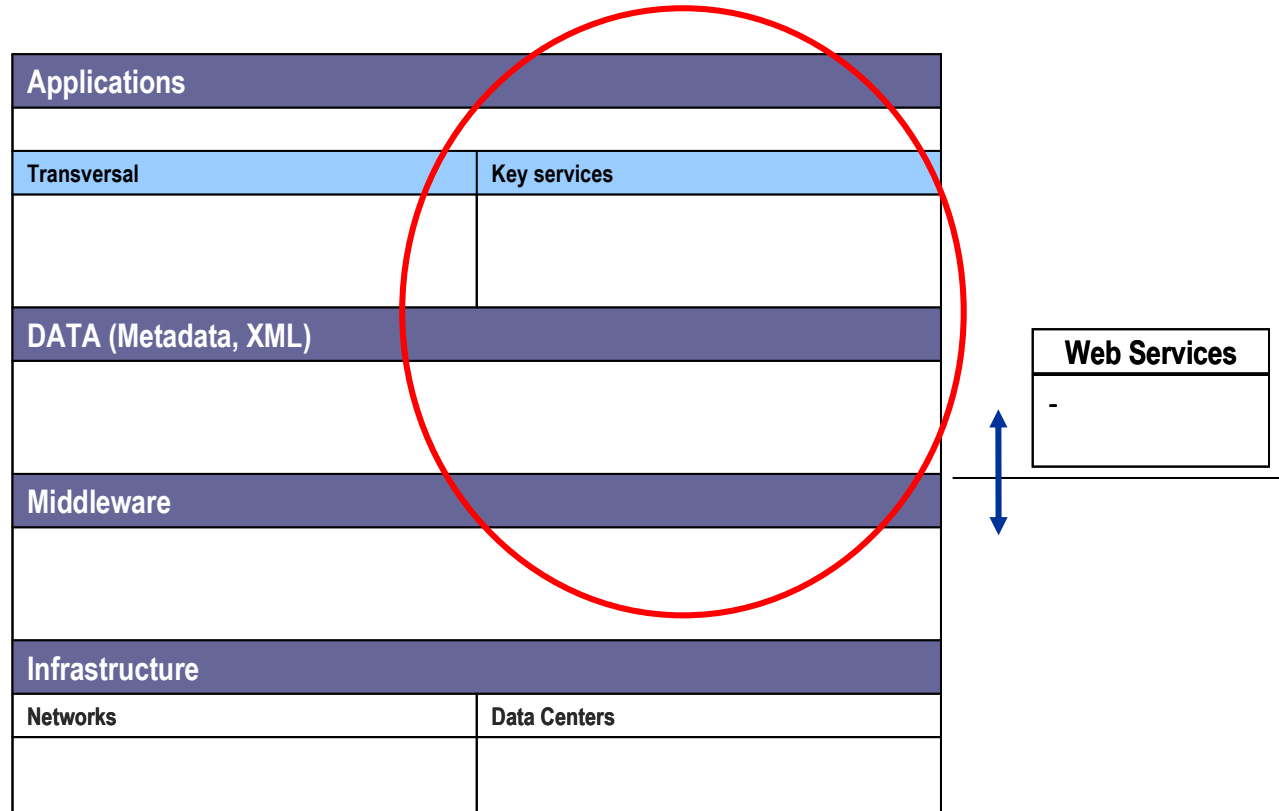


Items International - 2008

Benchmark on e-Gov Architecture frameworks and policies

▶ Main issues :

- Understand where the Architecture “Center of Gravity” is (ie Priorities are) ?



Benchmark on e-Gov Architecture frameworks and policies

- ▶ The benchmark focus on all that relates to governmental options related to e-Gov Architectures in order to foster their implementation by any Administration
- ▶ The benchmark doesn't focus on:
 - Specific applications
 - Specific choices on architectureswhen it's not related to global decision
...either they are made by the e-Gov organization for a dedicated platform

▶ Benchmark details

- The table shows the approach adopted by each country and the names of the projects
 - Transversal projects are project with a functional basis related to the Administration processes (ex: Budget preparation)
 - Key services refer to an IT services (ex: Portal) or tool (ex: Digital Signature) proposed to any administration
- The circle shows where the essential focus of the approach is located and where interoperability leads to make some recommendations

Country: UK

Questions on Policy
 1-Framework defined for Appli and Data Layer
 2-New shared services under study to Improve communication between administrations

| Applications | |
|--|--|
| Framework definitions and limited development of common services | |
| Transversal | Key services |
| Framework for: -eProcurement -OSS -Other under study (Customer Service Relation ...) | -Government Portal (Direct.gov.uk) -Government gateway: Secure Transaction Hub (www.gateway.gov.uk) -Other understudy (National ID Management ...) |
| DATA (Metadata, XML) | |
| -"e-GIF Architecture" includes: 1- the Framework, which covers high-level policy statements, technical policies and management, implementation and compliance regimes, 2-the e-GIF registry, which covers the e-Government Metadata Standard (e-GMS) and Government Category List (GCL), the Government Data Standards Catalogue (GDSC), XML schemas and the Technical Standards Catalogue (TSC) (previously e-GIF Part 2: Technical policies and specifications). | |
| Middleware | |
| N/A | |
| Infrastructure | |
| Networks | Data Centers |
| N/A | N/A |
| Mobile e-Gov under study | |

Web Services
 SOAP V1.2



Questions on Technologies
 1-Limited to Technical Framework

Country: Germany

Questions on Policy
1-

| Applications | |
|---|---|
| Development of shared services. | |
| Transversal | Key services (federal) |
| R_HAV: Budget drafting Policy-regulation processes Travel Management Systems E-Procurement | Around 400 services of the different Federal administrations were identified. Form Management System (ISIS)-MTT Industrial Signature e-payment Virtual post office – data security Electronic legal communications Government Suite Builder |
| DATA (Metadata, XML) | |
| Generalization of XML in all exchanges (SAGA Framework) – Software reference frame | |
| Middleware | |
| Architecture 3/3 based on JAVA – J2EE .Net under observation | |
| Infrastructure | |
| Networks | Data Centres |
| National VPN (IVBV) Mobile is in the scope of the strategy | Federal Office of Administration (BVA). Federal Office for Information Technology (BIT) was established within the BVA and the Centre for Information Processing and Information Technology (ZIVIT) was set up within the Federal Revenue Administration as independent IT service providers. |

Web Services
-SOAP
-WSDL (Secured)

Questions on Technologies
1-xxx

Country: France

| Applications | |
|--|---|
| Framework definition for a set of services | |
| Transversal | Key services |
| <ul style="list-style-type: none"> - Public Accounting - Many middle size projects - AF/ELE (Administration Electronique) : National roadmap including : 'mon.service-public.fr , national electronic identity card (CNIE), centralised online change of address notification service , 'daily life card' ('Carte de Vie Quotidienne' or CVQ) | <ul style="list-style-type: none"> -Portal (www.services-publics.fr) -Single Sign-on -Digital Signature -One stop offices for specific services |
| DATA (Metadata, XML) | |
| <ul style="list-style-type: none"> - Common Interoperability Framework - XML strategy | |
| Middleware | |
| | |
| Infrastructure | |
| Networks | Data Centers |
| <ul style="list-style-type: none"> - ADER: inter-administrations Intranet | |

Questions on Policy

xxx

Web Services

-SOAP

Questions on Technologies

1-xxx



Country: USA

Questions on Policy
 1-Policy based on Models specifications which acts as a Quality Plan for each Ministry

| Applications | |
|---|--|
| Models specifications: BRM (Business Reference Model) & SRM including security and performances specifications | |
| Transversal | Key services |
| | Portal SRM: Service Component Model |
| DATA (Metadata, XML) | |
| DRM (Data Reference Model) with specifications partly based on XML (XML Schema. DRM includes extended specifications. | |
| Middleware | |
| TRM (Technical reference Model) | |
| Infrastructure | |
| Networks | Data Centers |
| | |

Web Services
 Evolution planned



Questions on Technologies
 1-xxx

Country: Canada

Questions on Policy
 1- Enhanced Management Framework (EMF).

| Applications | |
|---|--|
| A Single Point of Access for All | |
| Transversal | Key services (federal) |
| Central funds for Clusters & Gateways in 34 Federal agencies All integrated in a global management | Wireless Portal (wap.gc.ca) Common Directories Security tools (based on PKI) |
| DATA (Metadata, XML) | |
| Information Management Resource Centre (IMRC) Metadata Framework (based on Dublin Core) | |
| Middleware | |
| | |
| Infrastructure | |
| Networks | Data Centres |
| « Service Ready Infrastructure » Global Integrated Network | |

Web Services
 -SOA

Questions on Technologies
 1-The government is currently developing several Internet-based pathfinder projects to work through technology, policy and governance issues that will arise as it builds common pieces of the infrastructure. The SII is a multi-year strategy, with implementation expected to take place over the next one to five years.

Country : Hong Kong

Questions on Policy
 1- Strong engagement of PPP(Public Private Partnerships)

| Applications | |
|---|--|
| | |
| Transversal | Key services |
| M-government (mobile network services) Smart ID card Business entry portal Property information Hub Easy change of adress | Electronic Tendering System (PPP) Licence Information Service Electronic Service Delivery (ESD) E-procurement |
| DATA (Metadata, XML) | |
| XML Schema 1.0 – for data oriented message common Chinese language interface | |
| Middleware | |
| | |
| Infrastructure | |
| Networks | Data Centers |
| IP IPV4 WiFi Mobile | |

Web Services
 -SOAP v1.1
 -WSDL v1.1

Questions on Technologies
 1-The specifications are recommended based on analysis documented in the "Analysis Underpinning the HKSARG IF Recommendations
 2- the Government is supporting the Hong Kong Wireless Technology Industry Association to provide a platform for development of wireless applications, solutions and services,

Country: Brazil

| Applications | |
|---|---|
| - Policy: Develop common application platforms which will be used by central and local governments, Promotion of GPL licences | |
| Transversal | Key services |
| -Finance, -E-Procurement, -Human Resources (2 different projects), -Planning, -Budget, -Administrative organisation. | -Portal of Services -Security -Smart card services -Electronic Signature -Automatic Inventory of Hardware & Software -SIP (VoIP) |
| DATA (Metadata, XML) | |
| -National metadata repository XML reference Catalogue | |
| Middleware | |
| Open Source based when possible | |
| Infrastructure | |
| Networks | Data Centres |
| -IP v4 and IPv6 when available -E-Gov national network (Infvía) -Wireless services | -Data centre for all transversal applications |

Questions on Policy

- 1-Possible changes after elections
- 2- e-Ping

Web Services

- SOAP
- WSDL



Questions on Technologies

- 1-

Country: EU / IDABC

Questions on Policy

- 1-Policy based on Strategic Level
- 2-High importance given to interoperability
- 3-Importance of Open Standards
- 4-Importance of Open Source

| Applications | |
|---|--------------|
| I2010 Action Plan, Benchmarking Report | |
| Transversal | Key services |
| Horizontal Measures eIDM : electronic document authentication and archiving | |
| DATA (Metadata, XML) | |
| European Interoperability Framework Reference Framework for Authenticated Electronic Documents | |
| Middleware | |
| | |
| Infrastructure | |
| Networks | Data Centers |
| | |

Web Services

General orientation



Questions on Technologies

Transversal Applications

Country: EU / IDABC, Interoperable Delivery of pan-European e-government services to Administrations, Businesses and Citizens

- ▶ Meeting of CIOs and national representatives from 24 countries, on June 13 2008 at the 2nd European CIO under the chairmanship of Mr. García Morán, Director General for Informatics at the European Commission.
- ▶ Members agreed to develop a European Interoperability Strategy, EIS and to steer its preparation.
- ▶ EIS : a plan of action to address cross-boundary interoperability in order to facilitate the implementation of EU policies and initiatives.
- ▶ The French Presidency intended to support the European Interoperability Strategy as a priority for their mandate

François-Daniel Migeon, Director General DGME, Direction Générale de la Modernisation de l'État

- ▶ IDABC programme comes to an end in December 2009.
- ▶ The draft of the EIS is expected to be agreed upon by the time of the Swedish Presidency meeting in Malmö in 2009.

An IDABC follow-on programme: ISA

- ▶ On 29 September 2008, the Commission approved a proposal for a decision of the European Parliament and the Council of Ministers on a new programme for the period 2010–15 “Interoperability Solutions for European Public Administrations” - ISA.