



Treasury Board of Canada
Secretariat

Secrétariat du Conseil du Trésor
du Canada

Better government: with partners, for Canadians

Industry Engagement Event

CLOUD COMPUTING SOLUTIONS CONSULTATION

EN578-151297/A

November 13th, 2014

Delta Hotel, Ottawa



Canada



Safe Harbour Statement

This presentation contains information regarding potential directions the Government of Canada may take on cloud computing

Content provided herein is solely for the purposes of gathering further information to support the development of directions, and is subject to change

Information and opinions presented here reflect our current knowledge and directions as of the date presented, and you are cautioned not to place undue reliance on this information

Agenda



Participant Registration : 10:30 EST – 11:00 EST

Welcome & Introductions

Dave Adamson, Deputy Chief Information Officer, Chief Information Office Branch, Treasury Board of Canada Secretariat

Consultation Objectives

Consultation Framework & Timeline

Mark Armstrong, Senior Project Coordinator, Information Technology Division, Treasury Board of Canada Secretariat

Policy

Serge Caron, Senior Director, Information Technology Architecture, Treasury Board of Canada Secretariat

Business

Procurement

John Penhale, Senior Director, Services and Technology Acquisition, Public Works and Government Services Canada

Security

Daniel Couillard, Senior Director, Cyber Security, Treasury Board of Canada Secretariat

Questions & Closing Remarks

Everyone



Consultation Objectives

Presenter: Dave Adamson, Deputy Chief Information Officer,
Chief Information Office Branch, Treasury Board of
Canada Secretariat



Message from President of the Treasury Board of Canada

“Cloud computing offers the federal government a way to maximize the efficiency of our IT investments. We’re looking for input from industry experts on how we can use cloud computing to achieve those savings.”

The Honorable Tony Clement, President of the Treasury Board, April 7, 2014 – Banff, AB

The Case for Cloud Computing in the Government of Canada



- *Serve Canadians Better*
 - Deliver innovative new services
 - Increase agility, flexibility and responsiveness
- *Respond to Canadian Expectations*
 - Safeguard their information
 - Protect their privacy
- *Enable IT Modernisation*
 - Achieve economies of scale
- *Develop Canada's cloud economy*
 - Position Canada as a leader in cloud adoption
 - Facilitate the establishment of domestic commercial services



Consultation Objectives

- Share views and influence the direction the GC should take with respect to cloud computing
- Identify what business opportunities are appropriate for the cloud
- Provide ideas as to how Canada could evolve its security and privacy framework in light of the cloud
- Develop a consistent approach for acquiring cloud services
- Work with Industry to identify some of the challenges facing cloud adoption in Canada



Overview of the Consultation Process

Presenter: Mark Armstrong, Senior Project Coordinator,
Information Technology Division, Treasury Board of
Canada Secretariat



Consultation Framework

Policy

- Policies on Management of IT
- Relevant legislation
- Organizational mandates
- Alignment with enterprise strategy and standards
- Etc...

Business

- Service & provider qualification
- Organizational capacity to manage
- Technical capacity of service provider
- Performance monitoring
- Managing cloud sprawl
- Etc...

Procurement

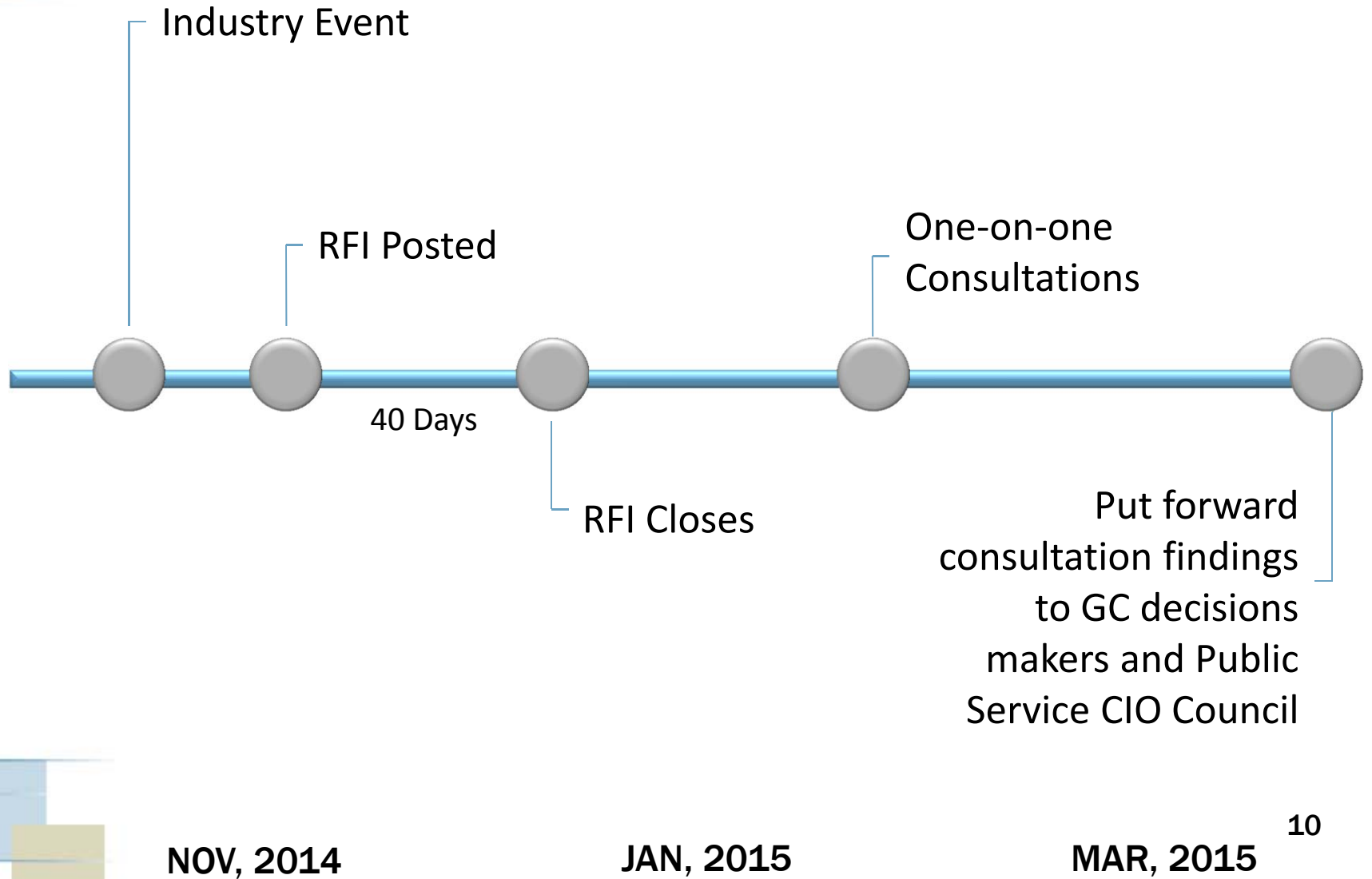
- Procurement processes
- Vendor selection and qualification
- Contracting processes and language
- Service Level Agreements
- Etc...

Security

- Risk Assessment
- Information Asset Identification
- Security Categorization
- Security Requirements
- Assurance of contractors security control implementation
- Risk Assessment and Authorization
- Ongoing security audit
- Etc...



Timeline





Request For Information (RFI)

- Document to be posted on buyandsell.gc.ca
- RFI activity will be jointly conducted with the participation of Canadian Provinces, Territories and Municipalities
- Document to include:
 - Detailed questions for each pillar of the consultation framework
 - Draft tools for consideration
- No obligation for a company to answer every question
- Responses will help inform the Government's cloud position, emerging cloud strategy and future procurement activities



One-on-One Consultations

- Provides the Government an ability to clarify responses received through the RFI process
- One-on-One consultations will be jointly conducted with the participation of Canadian Provinces, Territories and Municipalities
- RFI respondents wishing to participate in the one-on-one consultations should indicate this in the RFI response
- Consultations may be face-to-face in Ottawa, or regional presence via tele-conference
- Consultations will further inform the Government's cloud position, emerging cloud strategy and future procurements activities



Business Consultation Pillar

Presenter: Serge Caron, Senior Director, Information Technology
Architecture, Treasury Board of Canada Secretariat



Business Context

- The Government is working to consolidate and expand online services, modernize its back office and find efficiencies
- The Government wants to position itself to be more responsive and leverage new innovative IT solutions, such as cloud computing
- A cloud computing strategy would require departments to consider cloud solutions for all IT investments, whether for new services or to upgrade existing structures
- The government wants to better understand the business aspects to cloud computing, such as, economic viability, risks, potential for cloud sprawl, capacity of service providers, etc...
- This as an opportunity to partner with industry to develop Canadian cloud services and address government requirements



Business Considerations

- New Delivery Channels
- Benefits to Canadians
- Cloud technology and emerging trends
- Economic viability
- Measuring performance
- Service provider capacity
- Cloud sprawl
- Vendor lock-in
- Accessing the data stored in the cloud
- Interoperability



Business Sample RFI Questions

- How can cloud computing be leveraged to deliver new innovative IT solutions to the Business ?
- How does the Federal Government mitigate concerns around Vendor / Cloud “lock-in” ?



Policy Consultation Pillar

Presenter: Serge Caron, Senior Director, Information Technology
Architecture, Treasury Board of Canada Secretariat



Policy Context

- Policy pillar of the consultation framework is targeted at addressing Governmental policies/guidance/tools that may need to be created or modified to support the adoption of cloud computing solutions
- Directive on the Management of Information Technology is being updated to indicate that Federal CIOs are responsible for considering and evaluating the adoption of new technologies and delivery models, such as cloud computing, when initiating new IT investments
- Federal Government with Provinces & Territories will work together to evaluate pan-cloud opportunities



Policy Considerations

- Current policies that might be seen as barriers for cloud adoption
- Policies that may need to be developed
- Pan-government partnerships
- Legal considerations around data sovereignty



Policy Sample RFI Questions

- Are there any policies in place now in the federal government that limits or creates barriers for industry related to the provision of cloud solutions? If so what are they and what is their impact?
- What tools (policy, guidance, strategies) could the Federal Government develop to facilitate the efficient adoption of cloud solutions?



Procurement Consultation Pillar

Presenter: John Penhale, Senior Director, Services and Technology Acquisition, Public Works and Government Services Canada



Procurement Context

- The Government has recently seen an increased demand for procuring cloud computing solutions
- The software industry is providing an increasing amount of cloud based offerings
- Through this consultation process the Government is seeking:
 - Input on how best to adapt its procurement strategies, methods, terms and conditions to take advantage of this emerging trend
 - Guidance on how best to adapt our procurement approaches, future Request for Proposals (RFPs), Statement of Work or Requirement (SOW, SOR), Service Levels Agreements, business vocabulary, technical terminology and resulting Contract Terms and Conditions related to Cloud computing procurement.



Procurement Considerations

- Benefits to Canadians
- Contract terms and conditions
- Business and technical definition and vocabulary related to cloud computing procurement
- Canadian vs International sourcing, competitive opportunities, availability
- Financial and pricing methodologies
- Procurement process and methods of supply
- Service level agreements
- Government is on a path of learning related to cloud procurement



Procurement Sample RFI Questions

- What standard acquisition clauses, definitions, terms and conditions should be included or modified in a Cloud computing Solution Request for proposal and/or contract?
- How can Canada make the procurement process required to acquire Cloud computing Solutions easier for all parties engaged? What challenges are faced currently?



Security Consultation Pillar

Presenter: Daniel Couillard, Senior Director, Cyber Security,
Treasury Board of Canada Secretariat



Security Context

- Canadians expect that their information will be safeguarded and their privacy will be protected
- Security pillar is targeted at addressing Governmental security and privacy requirements and how these can best be addressed in a cloud environment
- Security and Privacy requirements are informed by existing Government of Canada laws, statutes, and TBS policies
- The Government is considering reuse of existing cloud provider certification processes as available through FedRAMP, Cloud Security Alliance or ISO 27001
- Data breaches and data loss is a risk for cloud adoption



Security Considerations

- Setting an appropriate level of security for different risk envelopes
- Exploring a methodology for providers to certify against known cloud security standards
- Defining the ability/capacity of industry to meet known cloud security standards
- Data will need to be appropriately secured at rest and in motion for all cloud implementations



Security Sample Questions

- How does the Federal Government assess and continue to monitor the capability of industry to meet security requirements?
- Should the Federal Government develop its own certification approach in line with the US FedRAMP or ISO 27001 or should it adopt one? Why?



Closing Remarks & Questions



Questions

When asking a question please indicate:

- Your name,
- The organization you are representing, and
- What aspect of the presentation the question addresses



Closing Remarks

- The Government wants to access the potential technological and economic benefits of cloud computing
- Government of Canada, in collaboration with Canadian Provinces, Territories and Municipalities are engaging industry through this consultation activity
- The Government wants to work with Industry to solve some of the challenges facing cloud adoption in Canada
- This is an opportunity for Industry to help shape the Government's Cloud Strategy
- The next step is the posting of a Cloud Computing RFI in the coming weeks



For More Information

Please send inquiries related to the presentation or the cloud computing consultation process to:

Chief Information Officer Branch
Treasury Board of Canada Secretariat
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All media inquiries related to this initiative should be directed to:

Media Relations Office at media@tbs-sct.gc.ca or
613-957-2640