Government of Canada
Enterprise Architecture
- A Collaborative Practice -

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What is Enterprise Architecture?

“enabling government to work faster and more collaboratively”

Enterprise Architecture is:

- a design discipline that delivers a holistic view of the business processes, information, systems and technology that is aligned and optimized according to an enterprise’s strategies, programs and priorities.

- the collection of models, designs and descriptions representing the structure and design of the enterprise’s processes, information, systems and infrastructure.

- “The fundamental organization of a system (e.g. enterprise, program, solution), embodied in its components, their relationships to each other and the environment, and the principles (incl. policies, standards, guidelines, reference models) governing its design and evolution.” (ISO/IEC 42010: 2007 - Recommended Practice for Architectural Description... )
Enterprise Architecture Practices

A *common practical GC EA toolkit* featuring….

- The GC EA Community of Practice has agreed to support the use the TOGAF 9 to enable the following:
  - A common vocabulary and taxonomy for creating and using architecture work products for multiple viewpoints:
    - *by concern:*
      - strategic / enterprise level architecture
      - program / segment level architecture
      - solution level architecture
    - *by domain:*
      - business,
      - information,
      - application,
      - technology, as well as,
      - security, accessibility, privacy …
  - Re-usable GC-wide reference models, policy instruments and standards applied to inform / align architecture work products.

- For the GC EA CoP, TOGAF 9 is a complementary tool for using with:
  - Department of National Defence (DND) AF as adopted by GC DND;
  - Other EA framework models – e.g. Zachman, Gartner;
  - Other extensions, as required.
GC EA Practices - work products

- **Strategic / enterprise, segment, and solution architectures** provide different perspectives by varying the level of detail.

  - **Strategic / Enterprise Architecture** - enterprise level view of architecture vision, principals, and requirements as a basis for longer-term direction, design and alignment. *“City Scapes”*

  - **Program / Segment Architecture** – program / portfolio view, informed by strategic enterprise architecture, providing context and opportunities for solution architectures. *“District Designs”*

  - **Solution Architecture** - a detailed design and specification, typically a single project, of a business solution, informed by program / segment architecture. *“Detailed Building Design & Specs”*
A common vocabulary and taxonomy for creating and using architecture work products
GC EA Practices - Reference Models, Standards

- Whole of Government Framework
- Program Activity Architecture
- Profile of GC Internal Services
- Performance Framework
- Management of Excellence Framework
- Service Output Types and Patterns

Architectures

Strategic Enterprise Architecture

Program / Segment Architecture

Solution Architecture

Reference Models

Policy Instruments and Standards

Management Policy Instruments:
- Policy Frameworks
- Policies, Directives, Standards
- Guidelines, Tools
- Int’l Standards (e.g. Treasury Board IT Standards, ISO, etc.)

Re-usable GC-wide reference models, policy instruments / standards applied to inform / align architecture work products
Collaboration: Architecture at Work

- GC EA Community of Practice
- IM & IT
- Policy
- Service Delivery
- Inter-jurisdictional
“Today, almost every department and agency must deal with global challenges, using new tools and asking people to work in new ways – in integrated teams, often across organizational boundaries.”

Sixteenth Annual Report on the Public Service of Canada
Clerk of the Privy Council, March 25, 2009
Welcome to the Government of Canada's Enterprise Architecture Community of Practice (GC EA CoP) whose role is to foster sharing and promoting of best practices (methods, guidelines, tools) for Enterprise Architecture aimed at applying consistent approaches for enterprise architecture and its value contribution within the Public Service.

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**GC Enterprise Architecture Community of Practice**

- **About the Community**
- **GC Enterprise Architecture Guidelines/Tools**
- **GC Enterprise Architecture Work Products**
- **Architecture Documents for Discussion**
- **Department Enterprise Architecture Best Practices**
- **Department Enterprise Architecture Work Products**

The structure and links associated with this page and other pages referenced here are not to be changed.

Federal Accountability Act

Public demand for increased accountability and transparency in government decision-making
Expenditure management and financial reporting improvements
Full and clear information on programs and operations

GC Enterprise Vision

Interoperability and integration
Service transformation across organizational boundaries requires efficient and effective aggregation of information
Policy: Program Activity Architecture (PAA) (example)

Department

Strategic Outcomes (3)

Program Activities (9)

Fisheries and Oceans Canada

Safe and Accessible Waterways

- Canadian Coast Guard
- Small Craft Harbours
- Science (Safe and Accessible Waterways)

Sustainable Fisheries and Aquaculture

- Fisheries Management
- Aquaculture
- Science (Sustainable Fisheries and Aquaculture)

Healthy and Productive Aquatic Ecosystems

- Oceans Management
- Habitat Management
- Science (Healthy and Productive Aquatic Ecosystems)

Solution Architecture
IT: Service Oriented Architecture (SOA) Centre of Excellence (COE): Community Context Model

COMMON PURPOSE

IT SOA COE CORE MEMBERS

SHORT TERM ASSIGNMENTS

COMMUNITY MEMBERS

GCPEDIA*

IRCAN*

* Pilot projects

- CIOC
- STAKEHOLDER REQUIREMENTS
- R&D REQUESTS

- PROOF OF CONCEPT
- STANDARDS
- ARCHITECTURE
- ARTIFACTS
- LESSONS LEARNED
Program Policy and Service Delivery: GC Internal Services -

- The Profile of GC Internal Services outlines a common vocabulary and taxonomy of the GC’s internal services and forms the basis for a common government-wide approach to planning, designing, budgeting, reporting and communicating all GC internal services.

- Internal services are an integral component of the GC’s Program Activity Architecture (PAA) and a department’s Management, Resources and Results Structure (MRRS).

- Internal services enable the efficient and effective delivery of GC programs. A program is a group of related resource inputs and activities that are managed to meet specific needs and to achieve intended results, and that are treated as a budgetary unit.
Service Delivery: Government Reference Model Example
(source: the Government of Canada Strategic Reference Model)

The 19 GSRM Service Output Types

<table>
<thead>
<tr>
<th>Supply capacity to act</th>
<th>Regulation action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. (Units of) Resource</td>
<td>12. Findings</td>
</tr>
<tr>
<td>2. Funds</td>
<td>13. Interventions</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Enhance capability to act</th>
<th>Core</th>
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<tbody>
<tr>
<td>4. Care &amp; Rehabilitation Encounters</td>
<td>18. Implemented changes</td>
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<tr>
<td>5. Educational &amp; Training Encounters</td>
<td>19. Rules (laws, regulations, policies, strategies, plans, designs, standards)</td>
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<tr>
<td>6. Movements</td>
<td></td>
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<tr>
<td>7. Recreational &amp; Cultural Encounters</td>
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Facilitate & influence action

8. Advisory Encounters
9. Advocacy and Promotional Encounters
10. Matches, Referrals & Linkages
11. Periods of Agreement

Government Reference Models Provide:
Standard Classification Schemes

...and much more!
Inter-jurisdictional: Example: Seniors Programs

Seniors Program and Service Alignment Model

Is there an opportunity for sharing back-office services?

Common Case Mgt?
What are different orders of government doing, both individually and collectively, to develop reference model standards, tools and capabilities that can be shared and leveraged by all governments in Canada?
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