



## SHARED SERVICES CANADA

### Challenge-Based Solicitation (CBS) For an Event Broker Solution

Solicitation No.	2B0KB-1874371	Date	15 November 2018
Amendment No.	005	Amendment Date	18 December 2018
GCDocs File No.	32997418	GETS Reference No.	PW-18-00851200

Issuing Office	Shared Services Canada 180 Kent Street, 13 <sup>th</sup> Floor Ottawa, Ontario K1P 0B5	
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Closing Date and Time	14:00 21 December 2018	
Time Zone	Eastern Standard Time (EST)	
Destination of Goods/Services	National Capital Region	
Email Address for Submitting your Bid by Solicitation Closing	<a href="mailto:ssc.pvrdcprojects-arfprojetscd.spc@canada.ca">ssc.pvrdcprojects-arfprojetscd.spc@canada.ca</a>	

**SOLICITATION AMENDMENT #005**  
**SHARED SERVICES CANADA**  
**Challenge-Based Solicitation (CBS)**  
**For an Event Broker Solution**

This amendment 005 is raised to:

- Amend the solicitation document;
  - Amend the solicitation attachments; and
  - Respond to Bidder questions 49-57; and
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**The Solicitation document is amended as follows:**

1. At Page 1 **Article 1.1 Background: Canada's Need for an Event Broker Solution** paragraph 6 is amended as follows:
  - Delete:** Canada will require that COTS and other proprietary software components be licensed to Canada under SACC 4003 and will require that any open source software components be licensed to Canada under the MIT licence.
  - Insert:** Canada will require that COTS and other proprietary software components be licensed to Canada under SACC 4003 and will require that any open source software components be licensed to Canada under any combination of the MIT licence, the Apache License 2.0, the 3-clause BSD license, or the 2-clause BSD license.
2. At Page 29 Part 6 **Article 6.2.2 Supplemental General Conditions 4006 -03(2) Ownership of Intellectual Property Rights in Foreground Information** is deleted and replaced with the following:
  - Insert:** Canada will have a license to use the prototype but will not own the system or equipment that forms part of the prototype delivered at Stage 3 of the Contract (Delivery and Testing the Event Broker Solution Prototype). If Canada has exercised Option 1 to move on to Stage 4, then despite the Contractor's ownership of all the Intellectual Property Rights in the Foreground Information, Canada has unrestricted ownership rights in all equipment and systems required to be delivered to Canada under the Contract, including manuals and other operating and maintenance documents. This includes the right to make them available for public use, whether for a fee or otherwise, sell them or otherwise transfer ownership in them.
3. At Page 42 **Attachment 1 – Proposal Submission Form** is amended to delete references to SSC's Standard Instructions.
  - Delete:** Attachment 1 – Proposal Submission Form in its entirety; and
  - Insert:** New Attachment 1 – Proposal Submission Form

4. At Page 46 **Attachment 4 – Evaluation Criteria Section 2** is amended as follows:

**Insert:** New comment after Section 2: Supported Protocols to read:

In Section 2 there are criteria that state that the bidder must demonstrate that the proposed solution “implements” a protocol. For the purpose of this solicitation, “implement” used in Section 2 is the capability to publish messages to the solution or subscribe to messages with the solution using the specified protocol.

5. At Page 60 **Form 5.1 – OEM Certification Form** is amended to delete reference to SSC’s Standard Instructions.

**Delete:** Form 5.1 – OEM Certifications Form in its entirety; and

**Insert:** New Form 5.1 – OEM Certifications Form

6. At Page 61 **Form 5.2 – Software Publisher Certification Form** is amended as follows:

**Delete:** Form 5.2 – Software Publisher Certification Form in its entirety; and

**Insert:** New Form 5.2 – Software Publisher Certification Form.

**The Solicitation attachments are amended as follows:**

7. Insert new **Financial Proposal Form attachment\_2 – pièce jointe\_2\_v2** which replaces **attachment\_2 – pièce jointe 2.xlsx** (2018-11-15).

# ATTACHMENT 1 – PROPOSAL SUBMISSION FORM

SSC Solicitation No. [Insert No.] Bid Submission Form			
<b>Bidder's full legal name</b> <i>[Note to Bidders: Bidders should take care to identify the correct legal name as the Bidder.]</i>			
Authorized representative of bidder for evaluation purposes (e.g., clarifications)	Name		
	Title		
	Address		
	Telephone #		
	Fax #		
	Email		
<b>Bidder's Procurement Business Number (PBN)</b> <i>[Please make sure that your PBN matches the legal name under which you have submitted your bid. If it does not, the bidder will be determined based on the legal name provided, not based on the PBN, and the bidder will be required to submit the PBN that matches the legal name of the bidder.]</i>			
<b>SME or Under-represented Bidder</b>	I certify that the bidder meets the definition for SME set out in the solicitation.	Yes	
		No	
	I certify that the bidder meets the definition for one or more of the under-represented bidder groups defined in the solicitation.	Yes	
		No	
<b>Former Public Servants</b>  Please see SACC A3025T "Former Public Servant – Competitive Bid" for more information.  If you are submitting a bid as a joint venture, please provide this information for each member of the joint venture.	Is the bidder a Former Public Servant in receipt of a pension as defined in SACC A3025T (2014-06-26)? <b>If yes, provide the information required by SACC A3025T.</b>	Yes	
		No	
	Is the bidder a Former Public Servant who received a lump sum payment under the terms of the work force adjustment directive? <b>If yes, provide the information required by SACC A3025T.</b>	Yes	
		No	
<b>Federal Contractors Program for Employment Equity Certification</b>  Please check one of the boxes or provide the required information. If you are submitting a bid as a joint venture, please provide this information for each member of the joint venture.	The bidder certifies having no work force in Canada	Yes	
		No	
	The bidder certifies being a public sector employer	Yes	
		No	
	The bidder certifies being a federally regulated employer subject to the <i>Employment Equity Act</i>	Yes	
		No	

	The bidder certifies having a combined work force in Canada of less than 100 permanent full-time, part-time and temporary employees.		Yes	
			No	
	The bidder has a combined workforce in Canada of 100 or more permanent full-time, part-time and temporary employees.		Yes	
			No	
	Valid and current Certificate number			
	The bidder certifies having submitted the Agreement to Implement Employment Equity (LAB1168) to HRSDC-Labour.		Yes	
		No		
Requested Canadian province or territory for applicable laws				
Bidder's Proposed Site or Premises Requiring Safeguard Measures and document safeguarding security level [Delete if N/A]  If you are submitting a bid as a joint venture, please provide this information for each member of the joint venture.	Street Address with Unit/Apartment, if applicable			
	City			
	Province/Territory/State			
	Postal Code/Zip Code			
	Country			
<b>Security Clearance Level of Bidder</b> <i>[Please ensure that the security clearance matches the legal name of the bidder. If it does not, the security clearance is not valid for the bidder.]</i>	Clearance Level			
	Date Granted			
	Issuing Entity (PSPC, RCMP, etc.)			
If you are submitting a bid as a joint venture, please provide this information for each member of the joint venture.	Legal name of entity to which clearance issued			
<b>Supply Chain Security Information</b> The Bidders must provide:	The company names of all Joint Ventures, partners and owners;			
	The company names of all shareholders;			
	The company names of all the OEMs they will be working with;			
	The company names of all the software publishers they will be working with;			
	The company names of all the subcontractors they know ahead of time that they intend on working with.			
Please specify license types you need for components of your solution.				
On behalf of the bidder, by signing below, I confirm that I have read the entire solicitation, including the documents incorporated by reference into the solicitation, and I certify and agree that:				

1. The bidder considers itself and its products able to meet all the mandatory requirements described in the solicitation;
2. The bid is valid for the period specified in the solicitation;
3. All the information provided in the bid is complete, true and accurate;
4. The bidder has read and complies with the obligations of the PSPC Code of Conduct for Procurement (<http://www.tpsgc.gc.ca/app-acq/cndt-cndct/contexte-context-eng.html>);  
and
5. The bidder agrees to be bound by all the terms and conditions of this solicitation, including the documents incorporated by reference into it.

Signature of Authorized Representative of Bidder	
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### Form 5.1 –OEM Certifications Form

#### OEM Certification Form

This confirms that the original equipment manufacturer (OEM) identified below has authorized the bidder named below to provide and maintain its products under any contract resulting from a solicitation issued as part of the procurement process initiated further to the solicitation identified below.

Name of OEM \_\_\_\_\_

Signature of authorized signatory of OEM \_\_\_\_\_

Print Name of authorized signatory of OEM \_\_\_\_\_

Print Title of authorized signatory of OEM \_\_\_\_\_

Address for authorized signatory of OEM \_\_\_\_\_

Telephone no. for authorized signatory of OEM \_\_\_\_\_

Fax no. for authorized signatory of OEM \_\_\_\_\_

Date signed \_\_\_\_\_

Solicitation Number \_\_\_\_\_

Name of Bidder \_\_\_\_\_

**For the purposes of this procurement process, "OEM" means the manufacturer of the hardware, as evidenced by the name appearing on the hardware and on all accompanying documentation.**

This certification must be provided for each of the OEMs listed in the Proposal Submission Form.

**Form 5.2- Software Publisher Certification Form**

<p style="text-align: center;"><b>Software Publisher Certification Form</b></p> <p style="text-align: center;">(to be used where the bidder itself is the Software Publisher)</p> <p>The bidder certifies that it is the software publisher of all the following software products and components and that it has all the rights necessary to license them (and any non-proprietary sub-components incorporated into the software). <b>The bidder understands that any software costs are to be embedded in the firm, all-inclusive prices for the Licensed Software and the Subscription Services submitted in its financial proposal.</b></p> <p>_____</p> <p>_____</p> <p>_____</p> <p><i>[bidders should add or remove lines as needed]</i></p> <p style="text-align: center;">Unless otherwise indicated in the solicitation, for the purposes of this procurement process, <b>“Software Publisher”</b> means the owner of the copyright in any software products proposed in the bid, who has the right to license (and authorize others to license/sub-license) its software products.</p> <p>This certification must be provided if the bidder will be using its own software as part of the Solution.</p>
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The following table will be updated throughout the solicitation phase with the respective Amendment #, Amendment date, and Q&A # which will form a Q&A repository for the Event Broker Solution Challenge-Based Solicitation.

**ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME**



Amdt # Amdt Date	Question #	Reference	Question	Response
002 30 Nov 2018	1	PART 6 Article 6.4	Can companies from Outside Canada can apply for this? (Like, from India or USA)	<p>Yes. Bidders from outside of Canada may submit a bid as long as they are in position to satisfy all obligations under the resulting contract including the ones describe in paragraph 6.4 which states:</p> <p>“The Contractor agrees that, although it may access the Solution remotely, it must do so only from locations within Canada and the Contractor agrees to segregate its network or access to its network in all ways required in order to ensure that no person outside the geographic boundaries of Canada is capable of accessing the Solution remotely using the Contractor’s infrastructure.”</p>
	2	PART 4 Article 4.3.1.2 and Annex A SOW	Do companies need to come over there for meetings?	<p>During the solicitation process:</p> <p>During Stage 2, the presentation may be made in-person in Ottawa or via teleconference or videoconference at the bidder’s choice.</p> <p>During the Contract, as described in the Statement of Work:</p> <p><b>1.4.1 Stage 3 Location of Work</b> The work for Stage 3 will be conducted at the Contractor’s facilities. However, for the task of supporting Canada’s Prototype Testing (related to Milestone 3), the Contractor may be asked to participate in workshops with the option of teleconference or in-person meetings in Ottawa, Ontario or Gatineau, Quebec.</p> <p><b>1.5.1 Stage 4 Location of Work</b> If Canada exercises Option 1, the Work for Stage 4 must be performed at the Government of Canada</p>

				<p>office located at 255 Albert Street, Ottawa, Ontario K1P 6A9.</p> <p>However, the tasks related to providing operational support (Task 4.2) may be carried out remotely via a secure connection to Government of Canada networks using a Government of Canada accepted 2-factor authentication solution.</p> <p><b>1.6.1 Stage 5 Location of Work</b> The Work for Stage 5 must be performed at the Government of Canada office located at 255 Albert Street, Ottawa, Ontario K1P 6A9.</p> <p>The tasks related to providing operational support (Task 5.2) may also be carried out remotely via a secure connection to Government of Canada networks using a Government of Canada accepted 2-factor authentication solution.</p>
	3	PART 6 Article 6.4 and Annex A SOW	Can suppliers perform the tasks (related to RFP) outside Canada? (like from India or USA)	No. See answer to question 2.
	4	PART 3 Article 3.2.1	Can bidders submit the proposal via email?	Yes. See Article 3.2.1 Electronic Submission of Proposals by Email.
	5	N/A	Has the Crown issued an RFI and/or ITQ in relation to this current RFP? If yes, are you able to disclose the solicitation number(s)?	<p>Yes, please refer to the following solicitation number: PW-16-00760893</p> <p><a href="https://buyandsell.gc.ca/procurement-data/tender-notice/PW-16-00760893">https://buyandsell.gc.ca/procurement-data/tender-notice/PW-16-00760893</a></p>
	6	N/A	Due to the very quick turnaround required for submission, and the fact that a vendor meeting is scheduled for November 29 that we assume will assist organizations with further understanding this RFP, would the Crown consider granting a 1 or 2 week extension for submissions?	Solicitation Closing Date extended by 1 week to 1400 hrs 21 December 2018.

	7	PART 1 Article 1.4.1 and Annex A SOW	Can the Crown please provide more details as to how Stage 3: Delivery and Testing the Event Broker Solution Prototype would work for the line on Page 4 of the RFP 'The prototypes must be configured in a publicly available environment (e.g., commercial Cloud)?' Is the Crown expecting organizations to provide their prototype within their own Cloud environment that allows government departments access to test the prototype solution?	<p>Further details are described in Annex A Statement of Work:</p> <p><b>1.4.2.5 Stage 3 Milestone Details</b></p> <p>a) <b>Milestone 1: Solution Prototype Delivery</b> The Contractor must deliver the Solution prototype within the Contractor's environment but accessible remotely by the Government of Canada. The delivered Solution prototype must provide all functionality defined in the Stage 3 Mandatory Requirements.</p> <p>The Contractor must provide access to the environment and Solution prototype for up to 30 users that will be testing the prototype. Canada will provide the list of users at least 10 business days prior to the Delivery Date.</p> <p><b>Milestone 3: Support Memo</b> The Contractor must support Canada's effort to integrate with and test the Solution prototype. Testing will begin once the Solution prototype has been delivered (Milestone 1: Solution Prototype Delivery) and last up to 25 business days in duration. Testing will include the functionality listed in the Stage 3 Mandatory Functional Requirements.</p> <p>As part of the support, the Contractor must:</p> <ul style="list-style-type: none"> <li>• Attend workshops scheduled by Canada to walk through the operation of the Solution prototype. These workshops can be attended by either remote teleconference and videoconference or in person at an office in either Ottawa, Ontario or Gatineau, Quebec. Attending in-person or remotely will be at the Contractor's discretion.</li> </ul>
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				<ul style="list-style-type: none"> <li>• Provide step-by-step documentation for executing the functionality described in the Stage 3 Mandatory Functional Requirements.</li> <li>• Assist in troubleshooting any issues with the use of the Solution prototype.</li> </ul> <p>After providing this support, the Contractor must provide a Support Memo to reflect that support within 5 working days of completing the support. This Support Memo must contain:</p> <ul style="list-style-type: none"> <li>• A list of all workshops and support sessions attended;</li> <li>• A list and description of all documentation provided in support for the testing; and</li> <li>• A list of any defects/issues resolved during prototype testing.</li> </ul>
	8	PART 1 Article 1.1 and 2.2(b)	Could a bidder submit a proposal with different licensing terms than those defined in the resulting contract?	<p>Article 1.1 of the General Information states:</p> <p>“Canada welcomes software solutions comprised of commercial-off-the-shelf software components, non-commercial (proprietary) software components, open source software components, or any combination thereof. The evaluation methodology does not distinguish between solutions that have components which may be subject to different licensing regimes. Canada will require that COTS and other proprietary software components be licensed to Canada under SACC 4003 and will require that any open source software components be licensed to Canada under the MIT licence. Suppliers must identify during the solicitation period whether they require alternate licensing terms for components in the supplier’s potential solution. Suppliers must propose any alternate software licensing terms during the solicitation period so that Canada can consider whether it can accept the alternate license terms.”</p>

				<p>If a bidder wants to submit different licensing terms, you must do it during the solicitation period so that, if acceptable, Canada could make them available for all bidders via a formal solicitation amendment.</p> <p>As specified under paragraph 2.2 Enquiries – Solicitation:</p> <p>“All enquiries are requested to be submitted in writing to the Contracting Authority no later than 10 calendar days before the CBS closing date. Enquiries received after that time may not be answered.”</p>
	9	PART 1 Article 1.4.1	How quickly must responsive bidders be ready to provide the Presentation defined in Stage 2?	Bidders will be expected to be ready to provide the presentation within approximately 2 business days of being notified that they qualify for Stage 2.
003 7 Dec 2018	10	PART 3 Article 3.4 and Annex B	Is it expected that the pricing limits include all software licenses as well?	Yes. As stated in article 3.4, “Where requested in Attachment 2, the Bidder must provide firm, all-inclusive prices for the Licensed Software and the Subscription Services. These all-inclusive prices must include any upgrade or update that will be required to satisfy the Contractor’s obligations described in Annex A Statement of Work.”
	11	Attachment 3	In the response template (Attachment 3) the fields are set to a limit of 1000 characters. Our answers may exceed that number. Are we allowed to alter that template or do we have to fit within it?	The correct limit for substantiating each criterion is 5000 characters. The form is updated as a part of this Amendment 3. Any information above the 5000 characters will not be considered.
	12	N/A	Are we allowed to provide hyperlinks within our responses?	No. See the Standard Instructions 2003 (2018-05-22) Section 5, Submission of Bids, paragraph 7. “Unless specified otherwise in the bid solicitation, Canada will evaluate only the documentation provided with a bidder’s bid. Canada will not evaluate information such as references to Web site addresses where additional information can be found, or technical manuals or brochures not submitted with the bid.”

	13	PART 1 Article 1.1	Who is the vendor of the GC Enterprise Service Bus referenced in section 1.1 of the CBS?	Oracle SOA Suite implemented by Public Services and Procurement Canada (PSPC).
	14	PART 1 Article 1.1	Why not simply extend the API Store project referenced in Section 1.1 to meet the needs of this challenge?	The API Store is functionally very different and does not support asynchronous messaging, so they have very different requirements.
	15	N/A	Based on the stages and options slides, the spending amounts are the same regardless of transaction amounts, correct?	As stated under  6.8.2 Basis of Payment Stages 4 and 5 Ceiling Prices  If Canada exercises options 1, 2, 3, 4, or 5, and in consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid in accordance with the Basis of Payment in Annex B up to the ceiling prices set out there.  The Basis of Payment is based on Implementation Milestones Firm Prices, All-Inclusive Firm Unit Prices for Licensed Software and Subscription Services and Firm All-Inclusive Hourly Rates.  The prices to be paid does not vary with the level of transaction.
	16	Attachment 4	In the attachment number 4, there is no proposed architecture for the solution, including interactions, transaction flows or API-based deployments. Can this level of detail please be provided?	The event broker is an industry-standard architectural concept and we are expecting bidders to provide their own proposed architectures. At this point the Government of Canada has decided on a decoupled architecture and we do not believe we have to provide specific architectures for bidders to respond.
	17	N/A	Can we get a copy or recording of the presentation?	The minutes from this meeting, including questions, answers, and the presentation are attached.
	18	N/A	This is a “challenge-based” solicitation. Is it an ITQ, or RFI or RFP based on previous tenders on Buy and Sell Canada?	This is a new approach. It’s a solicitation, not an ITQ. It is an open form of request for proposal, a challenge-based procurement.
	19	Attachment 4	What could be the average spool accumulated across all consumers during the outage for RPO?	See the Evaluation Criteria outlined in Attachment 4 as the basis of this average. Specifically, M4-2,

				"Performance requirements" and M5-2 "Recovery Time Objective".
	20	Attachment 4	Can it be assumed that the JMS spec needs to be fully implemented rather than partially? In other words, full support of topics and queues?	Yes, see Attachment 4, R2.1: "The bidder should demonstrate that the proposed solution implements JMS (Java Message Service)."
	21	PART 3 Article 3.2	Could you clearly identify and articulate what is required by the due date? Is it strictly the answers for the mandatories and the requirements of stage one, or is the financial proposal required as well?	The solicitation has been amended to improve the clarity. See amendment above.
	22	Attachment 4	MQ refers to message queuing, FIFO implementations, or the IMB MQ product? When you say MQ compatibility does that mean that we need to connect to MQ or provide MQ as a broker?	The IBM MQ product. The solution should connect to MQ as an endpoint, provider or subscriber. See Attachment 4, R2.2.
	23	Attachment 4	What is the definition of third-party products? If a vendor decides to bundle in open-source libraries are they considered third-party?	The solicitation has been amended to improve the clarity. See amendment above.
	24	Attachment 4	The number of brokers is often dictated by the number of locations. Is the number of physical locations provided?	It is expected to be a centralized location. We are open to vendor suggestions during Stage 4 on the number of physical nodes required to meet the availability and performance objectives (see Attachment 4).
	25	N/A	Is a physically separate disaster recovery site to be assumed?	It is up to the vendor based on the architecture they plan on implementing how they plan to implement disaster recovery and distributed high availability. We are open to suggestions.
	26	N/A	For delivery receipts, who is the intended recipient?	The Government of Canada is not expecting to provide a response to this question at this stage. It is expected that this is a detail of implementation and that it should be addressed during the Stage 3 or Stage 4.  If it is expected that this will materially impact a bidder's proposal, it is requested that a follow-up be provided with clarification.
004 13 Dec 2018	27	Attachment 4	R3.3 - Can topics be assumed to have wildcards, given that MQTT is required, and is part of the MQTT specification? JMS can also support wildcard	Yes. See Annex A, Stage 3 Work Article 1.4.2.1:

			based event routing whereby the broker performs the filtering based on matching of wildcard subscriptions to published topic data. Is this a requirement of the event broker capability?	“U2. Establish a topic and send messages to multiple subscribers, i.e. one sender and multiple subscribers. a. Include a condition for subscribers based on a data element in the message, where only messages that meet the condition will be received.”
	28	Attachment 4	R3.4 - Is protocol interoperability required? For example, publish REST and subscribe over AMQP?	Yes, protocol interoperability is required.
	29	Annex A SOW	Is event filtering required? (For example, wildcarding based filtering is done by the event broker on topics to get a subset of events delivered to the subscribing applications.)	Yes. See Annex A, Stage 3 Work Article 1.4.2.1:  “U2. Establish a topic and send messages to multiple subscribers, i.e. one sender and multiple subscribers. a. Include a condition for subscribers based on a data element in the message, where only messages that meet the condition will be received.”
	30	Attachment 4	R3.1 - What Qualifies as a unique endpoint?	For the purpose of this solicitation, a unique endpoint is defined as a unique application instance that is publishing to or subscribing to the Solution.
	31	Attachment 4	What is the deployment topology that is envisioned? Will event brokers be deployed exclusively on-premise, in the Public/Private clouds or some combination thereof?	Deployment topology must support both on-premise and cloud deployments. The deployment topology is not yet defined beyond those requirements. See Attachment 4, M5.4 and M5.5.
	32	Attachment 4	How many sites will require HA broker pairs to be deployed? A site could be a Government-owned Data Centre, or its DR location, or a public cloud VPC (virtual private cloud), etc. This helps define the total number of HA broker pairs that are required.	The Government of Canada is leaving this determination to the bidder based on the bidder’s recommendation to achieve the requirements. See Attachment 4, M5.1, M5.2, and M5.3.
	33	Attachment 4	What are the expected transaction volumes and maximum message sizes for the solution?	See Attachment 4 M4.2 for required transaction volumes to be supported.  At this time, the Government of Canada is not defining the maximum message size.
	34	Attachment 4	What would your average peak message rate and message size be per site? We are trying to determine the total number of HA pairs per site that are required, based on the message volumes per site.	See response to question #33.



	35	N/A	Would it be possible to give a few examples of workflows you would like to achieve?	Example: Life events (e.g. birth, death) are published to the Solution. These events are subscribed to by multiple GC departments. The GC department may wish to consume the message in a different protocol, therefore requiring protocol translation.
	36	Attachment 4	Do you have an approximation of what the maximum number of connections might be per broker HA pair, or if not, what the number would be per site?	See Evaluation Criterion M4.2 for the total required number of unique endpoints.  See response #32 regarding the quantity of HA pairs.
	37	N/A	What is the PaaS provider the SSC is using or considering using for the RFP? For example, Pivotal or OpenShift? Is Kubernetes a part of SSC strategy for container orchestration?	The Government of Canada has made no references to PaaS.
	38	Annex A SOW	What does the engagement model look like once a vendor moves to the next stage, i.e. Will the vendor be responsible for implementing your existing workflows on the message broker or will it be a partnership with GoC employees? More information in this area would be much appreciated.	See Annex A – Statement of Work, Stage 4 Mandatory Support Requirements and Stage 5 Mandatory Support Requirements, S7, S8, and S9.  S7 - The Contractor must provision queues and topics as requested by users. S8- The Contractor must provision credentials and connection strings. S9- The Contractor must support onboarding of new message publishers and subscribers.
	39		Our company and its affiliates have no criminal charges or convictions, etc. – do we need to provide a certificate under Section 5.1.1 of the RFP? We will supply a list of owners under Section 5.1.2.	The Integrity Provisions - Declaration of Convicted Offences should be submitted with the proposal but may be submitted afterwards.  Bidders must provide this information only if it is applicable to them.  An integrity declaration form must be submitted <b>only</b> when:  1. the supplier, one of its affiliates or a proposed first-tier subcontractor has, in the past three years, been charged with or convicted of a criminal offence in a country other than Canada that, to the best of the supplier's knowledge and

				<p>belief, may be similar to one of the listed offences in the <a href="#">Ineligibility and Suspension Policy</a> (the “policy”); and/or</p> <p>2. the supplier is unable to provide any of the certifications required by the <a href="#">Integrity Provisions</a>.</p>
	40	Attachment 5 Certification Forms	Form 5.1 – OEM Certification Form - do we need to complete this if our company is the bidder and the OEM?	No.
	41	Annex C SRCL	Annex C – Security Requirement Checklist – attached as a separate document. Page 85 of the RFP – We have not received this attachment.	<a href="#">Annex C SRCL</a> has been released as part of Amendment 3.
	42	PART 3 Article 3.6	Section 3.6 (p.14) - SCSI - Supply Chain Security Information – our company has ~200 shareholders, one of which holds the majority of shares and has the contractual right to appoint a majority of our company’s board of directors. The other shareholders are composed of several institutional investors but predominantly employees and former employees. Question: Do we need to name all of our shareholders individually given that they do not control the company?	In situations where there is a majority shareholder that has controlling interest in the company, just their information is required.
	43	Attachment 3	Can we override the 1000 character limit for the technical response document?	See response #11 (Amendment #003)
	44	Attachment 4	M5.2 - what could be the average spool accumulated across all consumers during an outage, for RPO?	See response #19 (Amendment #003)
	45	Attachment 4	What is the definition of 3rd party products? If a vendor decides to bundle in open source libraries, are they considered 3rd party?	See response #23 (Amendment #003)
	46	Attachment 4	M4.1 - delivery receipts - who should get them? Publisher? Or some Audit application?	See response #26 (Amendment #003)
	47	Annex C	SRCL – Annex C - Section 15 says that there are supposed to be additional instructions attached to Annex C, where can we find these additional instructions?	Annex C SRCL Instructions have been released as part of Amendment 4.

	48	Attachment 4	M6.1. How does Canada expect authentication to be managed and whether there's an existing active directory implementation or something similar we're expected to integrate with.	Canada expects the bidder to provide a secure credential management capability. This could include integrating with an existing active directory implementation.
005 18 Dec 2018	49	N/A	Are message promotion and demotion important - publish direct consume guaranteed, for example?	The Government of Canada has a mandatory requirement for persistent topics and queues for the event broker solution, as per criterion M4.1 – Reliable messaging capabilities. The degree of flexibility in the bidder's solution to support how and when persistence can be done is up to the bidder.
	50	Form 5.2 Software Publisher Certification Form	Why does Form 5.2 refer to the bidder providing the software "royalty free" when the contract (if awarded) will permit the bidder to charge for the software as part of the solution?	The certification has been modified to improve the clarity in section 1 of this amendment. Royalties can involve payments to third parties. The bidder must ensure that Canada may use the Solution in accordance with the Contract in return for making the payments contemplated by the Basis of Payment, and nothing further.
	51	Form 5.3 Form 5.4 Form 5.5	Do these forms need to be signed by the bidder?	No. By submission of a bid, a Bidder is confirming that it has read the entire solicitation, including the documents incorporated by reference into the solicitation, and it certifies and agrees that:  1. The bidder considers itself and its products able to meet all the mandatory requirements described in the solicitation.
	52	PART 6 Articles 6.3.1 and 6.4	For the following sections,  1. 6.3.1 The Contractor/Offeror personnel requiring access to protected information, assets or sensitive work site(s) must EACH hold a valid reliability status, granted or approved by CISD/PSPC  2. 6.4 "...The Contractor agrees that, although it may access the Solution remotely, it must do so only from locations within Canada, and the Contractor agrees to segregate its network or access to its	a) No, staff in Five Eyes countries would not be exempt or exemptible.  b) No, those resources must have valid reliability status.  c) Yes. Reliability Status can be granted to any non-resident of Canada. It is important to note that additional background checks may be required which could cause substantial delays with processing.

			<p>network in all ways required in order to ensure that no person outside the geographic boundaries of Canada is capable of accessing the Solution remotely using the Contractor’s infrastructure...”</p> <p>a) Would staff in Five Eyes countries be exempt or exemptible?</p> <p>b) Would staff in Singapore be exemptible? Our company provides 24X7 support based on employees that are geographically dispersed.</p> <p>c) Can “reliability status” be granted to a non-resident of Canada?</p> <p>d) 6.3.1 Clarify “protected information,” “assets,” “sensitive work sites.”</p> <p>e) 6.4 Define “access the Solution.” Would passive monitoring of the solution constitute “access”?</p>	<p>d) <b>Protected information and assets</b> are related to other than the national interest that may qualify for an exemption or exclusion under the Access to Information Act or Privacy Act, and the compromise of which would reasonably be expected to cause injury to a non-national interest..</p> <p><b>Sensitive work sites:</b> Sensitive work sites, are those that contain or process protected or classified information and assets and / or may face different threats because of the nature of operations that occur on the site, their location and/or the attractiveness of their assets. Examples include, server rooms, police or military establishments, health services, laboratories, sensitive research facilities, overseas facilities etc.</p> <p>e) Access to the solution is defined as any connection to the Solution. This includes passive monitoring. See response to (b).</p> <p>Bidders are also encouraged to review the contents and of the <b>Canadian Industrial Security Manual</b> at: <a href="https://www.tpsgc-pwgsc.gc.ca/esc-src/msi-ism/index-eng.html">https://www.tpsgc-pwgsc.gc.ca/esc-src/msi-ism/index-eng.html</a></p>
	53	Attachment 1 Proposal Submission Form	<p>Attachment 1 – Proposal Submission Form:</p> <p>a) Employment Equity Certification – Our Company is not federally-regulated. Do we need to submit the Agreement to Implement Employment Equity?</p> <p>b) Does the bidder need a Security Clearance in order to bid?</p>	<p>a) As stated under Article 5.1:</p> <p>“Bidders must provide the required certifications and additional information to be awarded a contract. The certifications and additional information listed below should be submitted with the proposal but may be submitted afterwards.”</p> <p>b) As stated under 1.6 Security Requirements:</p>

				<p>“The following security (<i>our addition</i>) requirements must be met by the date of exercising the Option 1 – Stage 4: Implementation.</p> <p>The bidder does not have to obtain a security clearance at bid closing date but will need to have it prior exercise of option 1.</p> <p>The proposal will not be rejected if a bidder does not have a security clearance at bid closing time.</p> <p>In all cases, bidders are requested to provide the information about their security clearance on Attachment 1 – Proposal Submission Form.</p>
	54	SACC 4003	Under SACC 4003, Section 05 and 06 – would a Device License be more appropriate than an Entity License if the Contractor licenses its software on a CPU basis?	It is the responsibility of the bidder to determine what type of license is required to implement its solution. The bidder will determine the unit of measure, the Firm, all-inclusive Unit Prices and the quantity associated with the Licensed Software and Subscription Services required to implement the solution. The bidder will have to provide the Licensed Software and Subscription Services for the Licensed Software and Subscription Services Ceiling Prices provided in its bid.
	55	SAAC 4006	Under SACC 4006, Section 03, item 2 – will Canada own the prototype and system developed by the successful bidder, as provided in this section.	No. Canada will not own the prototype. The solicitation has been amended to reflect that clarification.
	56	PART 4 Article 4.3.1.2 Presentation Logistics	Is a date set for the submission of presentations for Stage 2? If so, what is that date?	Current planning dates are 9 and 10 January 2019. Further details to follow following Bid Closing Date.
	57	N/A	Would the Crown consider granting an extension for submissions until 18 January 2019?	No. Due to tight timelines for delivery, the Crown is unable to extend the Solicitation Closing Date.