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**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

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K1A 0S5

Title - Sujet TBIPS 47419-211212 TBIPS IT PROF SERVICES	
Solicitation No. - N° de l'invitation 47419-211212/A	Amendment No. - N° modif. 006
Client Reference No. - N° de référence du client 47419-211212	Date 2021-02-17
GETS Reference No. - N° de référence de SEAG PW-\$\$EL-629-38925	
File No. - N° de dossier 629el.47419-211212	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Standard Time EST on - le 2021-03-03 Heure Normale du l'Est HNE	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Morin, Sylvie	Buyer Id - Id de l'acheteur 629el
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Signature	Date

Solicitation Number:
47419-211212/A

Amendment Number:
06

Buyer ID:
639EL

Bids must be submitted only to the Public Works and Government Services Canada (PWGSC) Bid Receiving Unit via e-post Connect by the date and time indicated on page one of the bid solicitation.

For additional information on the submission of bids using epost Connect, please refer to the RFP.

The Request for Proposal (RFP) Amendment 006 is raised to answer Bidders questions and amend the RFP.

QUESTIONS AND ANSWERS

Question 27

Based on the complexity of the grids and uniqueness of the Technology Architect resources requested in this Solicitation, we respectfully request a two week extension to the current closing date in order to submit a fully compliant and competitive response. This time is required to adequately address and demonstrate the hundreds of unique elements listed for all the resources requested by CBSA. As an example, the Development Centre Specialist has 57 unique elements that a Bidder must address and demonstrate in detail – a time consuming and laborious effort. Your concurrence will significantly increase the likelihood of CBSA receiving compliant submissions.

Answer 27

See RFP amendment below.

Question 28:

Re Point Rated Criteria R1 in the **Technology Architects – Systems Engineering – Level 3** grid on page 89 of the RFP.

As written, the Point Grid awards one (1) point per project to a maximum of three (3) points per item, up to a maximum of fifteen (15) points. To score full points, bidders must demonstrate relevant experience on three (3) projects within the last two (2) years prior to the solicitation issue date. This scoring discriminates against senior level resources who often stay with the same client to support complex and critical multi-year initiatives involving multiple releases, and may prevent bidders from presenting the qualified and experience resources required to support the Crown. We respectfully request that the Crown accept a project equivalency of 6 months.

Answer 28

Canada has considered your request. However, the requirement remains unchanged.

Question 29:

Re Point Rated Criteria R6 in the **Technology Architects – Legacy Systems – Level 3** grid on page 109 of the RFP.

As written, the requirement states that bidders demonstrate experience within the last two (2) years prior to the solicitation issue date yet the Point Grid awards full points for 3+ years of experience. We respectfully request that the requirement be amended as per below:

R6	The Bidder should demonstrate that the proposed resource has experience, within the last two (2) years prior to the solicitation issue date, forecasting infrastructure capacity for a line-of business project using the Broadcomm Wily Introscope product.	10	Number of years of experience with tool: 6 months to 1 year = 6 points 1+ to 2years = 10 points Up to a max of 10 points
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Answer 29

See RFP amendment below.

Question 30:

Given the ongoing pandemic situation as well as the provincial holiday on February 15th, many consultants, clients and vendor employees are not currently available. This situation is causing bidders difficulty in preparing a high quality response. We respectfully request a one week extension to March 3rd to allow bidders time to ensure the highest quality is presented to the Crown.

Answer 30

See RFP amendment below.

RFP AMENDMENT

1. The closing date for this Solicitation has been extended to March 03, 2021.

2. At Attachment 3, Bid Evaluation Criteria – Rated Requirements, 3.4 Technology Architects – Legacy Systems - Level 3,

Delete R6 in its entirety

Insert:

R6	The Bidder should demonstrate that the proposed resource has experience, within the last two (2) years prior to the solicitation issue date, forecasting infrastructure capacity for a line-of-business project using the Broadcomm Wily Introscope product.	10	Number of months of experience with tool: 12+ to 18 months = 7 points 18 + to 24 months = 9 points 24 + months = 10 points Up to a max of 10 points		
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3. Delete Appendix C in its entirety

Insert: (SEE ATTACHED DOCUMENT)

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED

APPENDIX C TO ANNEX A (Revised)

RESOURCES ASSESSMENT CRITERIA AND RESPONSE TABLE

To facilitate resource assessment, Contractors must prepare and submit a response to a draft Task Authorization (TA) using the tables provided in this Annex. When completing the resource grids, the specific information which demonstrates the requested criteria and reference to the page number of the résumé should be incorporated so that Canada can verify this information. The tables should not contain all the project information from the resume. Only the specific answer should be provided.

1.0 Mandatory Resource Assessment Criteria:

1.1 Resource Mandatory Requirements - Technology Architect (Systems Engineer) – Level 3

Name of proposed Resource: _____			
Criteria ID	Mandatory Requirement	Contractor's Response	
		Demonstrated Experience and Cross Reference to resume (Page #)	Met / Not Met
M1	<p>The Contractor must demonstrate that the proposed Resource has a minimum of five (5) years of experience within the last ten (10) years prior to the Draft TA issuance date, evolving business requirements or architectures into physical infrastructure implementation specifications for *medium to large projects.</p> <p>*Medium to Large projects means projects with a development and release cycle exceeding five (5) months.</p>		
M2	<p>The Contractor must demonstrate that the proposed Resource has a minimum of two (2) years of experience within the last five (5) years prior to the Draft TA issuance date, researching <u>and</u> documenting existing system topology <u>and</u> componentry.</p>		
M3	<p>The Contractor must demonstrate that the proposed Resource has a minimum of five (5) years of experience within the last ten (10) years prior to the Draft TA issuance date, writing or</p>		

Name of proposed Resource: _____		
	maintaining technical specifications documentation for hardware or software being integrated into a new or evolving infrastructure.	
M4	The Contractor must demonstrate that the proposed Resource has a minimum of five (5) years of experience, within the last seven (7) years prior to the Draft TA issuance date, supporting a z/OS based WebSphere environment involving multiple developments, transition and production support environments, each with its own databases and connectivity to legacy systems and external interfaces.	

1.2 Resource Mandatory Requirements - Technology Architects (Systems Integration Capacity Management) - Level 3

Name of proposed Resource: _____			
Criteria ID	Mandatory Requirement	Contractor's Response	
		Demonstrated Experience and Cross Reference to resume (Page #)	Met / Not Met
M1	The Contractor must demonstrate that the proposed Resource has a minimum of five (5) years of experience within the last ten (10) years prior to the Draft TA issuance date, evolving business requirements or architectures into physical infrastructure implementation specifications for *medium to large projects. *Medium to Large projects means projects with a development and release cycle exceeding five (5) months.		
M2	The Contractor must demonstrate that the proposed Resource has a minimum of two (2) years of experience within the last five (5) years prior to the Draft TA issuance date, designing <u>and</u> implementing technologies associated with capacity management.		

M3	The Contractor must demonstrate that the proposed Resource has a minimum of five (5) years of experience within the last ten (10) years prior to the Draft TA issuance date, writing or maintaining technical specifications documentation for hardware or software being integrated into a new or evolving infrastructure.	
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1.3 Resource Mandatory Requirements - Technology Architect, Systems Integrators - Two-Factor Authentication Level 3

Name of proposed Resource: _____			
Criteria ID	Mandatory Requirement	Contractor's Response	
		Demonstrated Experience and Cross Reference to resume (Page #)	Met / Not Met
M1	The Contractor must demonstrate that the proposed Resource has a minimum of three (3) years of experience within the last five (5) years prior to the Draft TA issuance date, engineering IT infrastructures required for line of business applications on Microsoft Terminal Services Platform (TSP) using Citrix extensions.		
M2	The Contractor must demonstrate that the proposed Resource has a minimum of three (3) years of experience within the last five (5) years prior to the Draft TA issuance date, engineering IT infrastructures required for two-factor authentication.		
M3	The Contractor must demonstrate that the proposed Resource has a minimum of three (3) years of experience within the last five (5) years prior to the Draft TA issuance date, impacting and testing <u>all</u> of the following types of IT infrastructure changes for line of business applications on Microsoft Terminal Services Platform (TSP) using Citrix extensions: <ul style="list-style-type: none"> • Operating System; • Security Patches; <u>and</u> • Commercial-Off-The-Shelf (COTS) Software. 		

M4	The Contractor must demonstrate that the proposed Resource has a minimum of three (3) years of experience within the last five (5) years prior to the Draft TA issuance date, writing and maintaining technical specifications documentation for hardware or software being integrated into a new or evolving Windows or Citrix infrastructures.	
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1.4 Resource Mandatory Requirements - Technology Architects – Legacy Systems - Level 3

Name of proposed Resource: _____			
Criteria ID	Mandatory Requirement	Contractor's Response	
		Demonstrated Experience and Cross Reference to resume (Page #)	Met / Not Met
M1	The Contractor must demonstrate that the proposed Resource has a minimum of five (5) years of experience within the last ten (10) years prior to the Draft TA issuance date, evolving non-functional business requirements into infrastructure specifications for medium to large projects* *medium to large projects, meaning projects with a development and release cycle exceeding five (5) months.		
M2	The Contractor must demonstrate that the proposed Resource has a minimum of two (2) years of experience within the last five (5) years prior to the Draft TA issuance date, analyzing compatibility of line-of-business COTS products in relation to the platform and supporting infrastructure componentry.		
M3	The Contractor must demonstrate that the proposed Resource has a minimum of five (5) years of experience within the last ten (10) years prior to the Draft TA issuance date, writing or maintaining technical specifications documentation for hardware or software being integrated into a new or evolving infrastructure.		

1.5 Resource Mandatory Requirements - Technology Architects, Level 3 – Development Centre Specialist Level 3

Name of proposed Resource: _____			
Criteria ID	Mandatory Requirement	Contractor's Response	
		Demonstrated Experience and Cross Reference to resume (Page #)	Met / Not Met
M1	<p>The Contractor must demonstrate that the proposed resource has a minimum of seven years of experience, within the ten years prior to the Draft TA issuance date, architecting, designing, implementing and supporting JAVA Continuous Integration Systems that include all of the following:</p> <ul style="list-style-type: none"> • Version Control systems; • Eclipse; • ANT/Python based build and packaging scripts, rolling builds, static code analysis; • JUnit test integration for large integrated systems; <p>The Contractor must describe:</p> <ul style="list-style-type: none"> • the build and packaging process and the tools used; and • the tasks performed by the proposed resource for the system 		
M2	<p>The Contractor must demonstrate that the proposed resource has a minimum of seven years' experience, within the ten years prior to the Draft TA issuance date, evaluating and recommending the use of versions and combinations of open-source frameworks for JAVA applications running on IBM z/OS mainframe environment and providing knowledge support to the application developers in the use of these frameworks.</p>		
M3	<p>The Contractor must demonstrate that the proposed resource has a minimum of ten years' experience, within the fifteen years prior to the Draft TA issuance date, developing architectures, designs and specifications for critical, high availability high volumes systems which implement JAVA to and from Customer Information Control System (CICS COBOL) via MQ Series message-oriented middleware.</p>		

M4	<p>The Contractor must demonstrate that the proposed resource has a minimum of five years of experience, within the ten years prior to the Draft TA issuance date, in the installation, configuration, performance tuning and enterprise integration of business solutions using all of the following:</p> <ul style="list-style-type: none"> • WebSphere Application Server Network Deployment; • WebSphere Application Server; • WebLogic; • Liberty; • Container Technologies; • IBM WAS Single Sign On Technologies (LTPA) – (or similar sign-on technologies); • IBM MQ Series; • IBM Global Name Recognition and • IBM WebSphere Operational Decision Management for high availability and high volume systems. <p>To demonstrate, the Contractor must include:</p> <ul style="list-style-type: none"> • Name of project(s) and description • Demonstrated experience as a Technology/Software Architect and describe how the technology was put to use in the selected project 		
M5.	<p>The Contractor must demonstrate that the proposed Resource has a minimum of 10 years of experience within the last 15 years prior to the Draft TA issuance date, with the installation AND support of JAVA development software.</p>		
M6	<p>The Contractor must demonstrate that the proposed Resource has a minimum of 10 years of experience within the last 15 years prior to the Draft TA issuance date, engineering and troubleshooting the movement of web applications between environments/versions/platforms within each of the following elements:</p> <ul style="list-style-type: none"> • Element 1 - Moving application code from one development and testing environment to another (e.g. from a Unit Testing environment to a User Acceptance environment) 		

	<ul style="list-style-type: none"> • Element 2 - Moving application code from one application server version to a different or newer application server version (e.g. from IBM WAS to Oracle WebLogic or from different versions of IBM WAS) • Element 3 - Moving application code from a Windows platform to a mainframe platform <p>All 3 elements do not have to come from one project.</p>	
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1.6 Resource Mandatory Requirements - Project Managers, Level 3

Name of proposed Resource: _____			
Criteria ID	Mandatory Requirement	Contractor's Response	
		Demonstrated Experience and Cross Reference to resume (Page #)	Met / Not Met
M1	The Contractor must demonstrate that the proposed Resource has a minimum of 5 years of experience within the last 7 years prior to the Draft TA issuance date managing a project during the development, implementation and operational phases to meet the project requirements on a project involving a 24 hours per day, 7 days per week operational mandate that involved 2 or more stakeholders.		
M2	The Contractor must demonstrate that the proposed Resource has a minimum of 5 years of experience within the last 7 years prior to the Draft TA issuance date working with Microsoft Project for the purpose of reporting against project milestones.		
M3	The Contractor must demonstrate that the proposed Resource has a minimum of 5 years of experience within the last 7 years prior to the Draft TA issuance date in the development of project-related documentation such as charters, plans and schedules.		

2.0 Point Rated Resource Assessment Criteria:

2.1 Resource Point Rated Requirements - Technology Architects - Systems Engineering - Level 3

Name of proposed Resource: _____					
#	Point Rated Criteria	MAX Score	Point Grid	Contractor Self-score	Contractor Response (Demonstrated Experience and Cross Reference to resume Page Number)
R1	<p>The Contractor should demonstrate that the proposed resource has experience, within the last two (2) years prior to the Draft TA issuance date, writing or maintaining, the following type of technical specifications documentation:</p> <ol style="list-style-type: none"> Configuration: documentation providing lab-specific or product-specific configuration settings Connectivity: documentation providing specifications for interoperability in IT data exchange between two partners Wiring Diagram: physical implementation model of business flows through infrastructure componentry Work Order: change requests, stakeholder engagement, or release proposal paperwork Bill of Materials: comprehensive list of all technologies in play for a specific project <p>Note: the same project may be used for more than one item.</p>	15	<p>One (1) point for each relevant project will be awarded for a maximum of three (3) points per item:</p> <ol style="list-style-type: none"> Configuration Connectivity Wiring Diagram Work Order Bill of Materials <p>Up to a maximum of fifteen (15) points.</p>		

#	Point Rated Criteria	MAX Score	Point Grid	Contractor Self-score	Contractor Response (Demonstrated Experience and Cross Reference to resume Page Number)
R2	<p>The Contractor should demonstrate that the proposed resource has experience, within the last two (2) years, designing secure technical connections to external systems, for a minimum of 2 of the following types of connectivity:</p> <ul style="list-style-type: none"> • Canadian Governmental (e.g. CBSA to RCMP) • Non-Governmental (e.g. CBSA to Private Sector Inc.) • International (e.g. CBSA to USCBP) <p>The activation and termination points for the connectivity must be described in order for points to be allocated e.g. CBSA to RCMP.</p> <p>Note: Canadian Governmental is described as Federal or Provincial Government levels only (not Municipal).</p>	5	<p>One (1) point for each item:</p> <p><u>Canadian Governmental</u> 1 connection = 0 points 2 to 5 connections = 1 point 5+ connections = 2 points</p> <p><u>Non-Governmental</u> 1 connection = 0 points 2 to 5 connections = 1 point 5+ connections = 2 points</p> <p><u>International</u> 1+ connections = 1 point</p> <p>Up to a maximum of five (5) points.</p>		
R3	<p>The Contractor should demonstrate that the proposed resource has experience, within the last two (2) years prior to the Draft TA issuance date, engineering designs which include the following technologies:</p> <p><u>Operating System Platforms</u></p> <ol style="list-style-type: none"> 1. RedHat Enterprise LINUX (RHEL) operating system platform <p><u>JAVA Platforms</u></p> <ol style="list-style-type: none"> 2. Oracle WebLogic on RHEL 	10	<p>One (1) point for each item:</p> <ol style="list-style-type: none"> 1. RHEL 2. WLS on RHEL 3. DB2 on z/OS 4. DB2 LUW 5. Wily 6. SiteMinder 7. Apache 8. Load Balancers 9. DataPower 10. Firewall 		

#	Point Rated Criteria	MAX Score	Point Grid	Contractor Self-score	Contractor Response (Demonstrated Experience and Cross Reference to resume Page Number)
	<p><u>Supporting Technologies</u></p> <ol style="list-style-type: none"> IBM DB2 on z/OS IBM DB2 LUW Computer Associates Wily Introscope monitoring software Computer Associates SiteMinder security suite Apache WebServer F5 or Cisco Load Balancers IBM DataPower Firewall (e.g. Checkpoint, Fortinet) <p>The Contractor must include a description of the project in which the resource worked with the specific technology in order for points to be allocated.</p> <p>Note: the same project may be used for more than one item.</p>		Up to a maximum of ten (10) points.		
R4	<p>The Contractor should demonstrate that the proposed resource has experience, within the last two (2) years prior to the Draft TA issuance date, engineering designs on the following z/OS based WebSphere technologies:</p> <p><u>Operating System Platforms</u></p> <ol style="list-style-type: none"> IBM z/OS mainframe operating system platform <p><u>JAVA Platforms</u></p>	15	<p>Three (3) points for each item:</p> <ol style="list-style-type: none"> IBM z/OS WAS on z/OS WAS on RHEL MQ on z/OS MQ on RHEL <p>Up to a maximum of fifteen (15) points.</p>		

#	Point Rated Criteria	MAX Score	Point Grid	Contractor Self-score	Contractor Response (Demonstrated Experience and Cross Reference to resume Page Number)
	<p>2. IBM Websphere Application Server (WAS) on z/OS</p> <p>3. IBM Websphere Application Server on RHEL</p> <p><u>Supporting Technologies</u></p> <p>4. IBM Websphere MQ messaging software on z/OS</p> <p>5. IBM Websphere MQ messaging software on RHEL</p> <p>One (1) specific example of a project in which the Resource worked with the specific technology must be provided in order for points to be allocated.</p> <p>Note: Weblogic will not be considered as an equivalent to WebSphere. No points will be awarded for this.</p>				
R5	<p>The Contractor should demonstrate that the proposed resource has experience, within the last two (2) years prior to the Draft TA issuance date, with the following documentation and modeling tools:</p> <p>1. WIKI: Atlassian Confluence or equivalent</p> <p>2. Content Management: GCDocs (OpenText) or equivalent</p> <p>3. Defect Tracking: Atlassian JIRA or equivalent</p> <p>4. Service Management: BMC Remedy</p>	5	<p>One (1) point for each item:</p> <ol style="list-style-type: none"> 1. WIKI software 2. Content Management 3. Defect Tracking 4. Service Mgmt. 5. Modeling <p>Up to a maximum of five (5) points.</p>		

#	Point Rated Criteria	MAX Score	Point Grid	Contractor Self-score	Contractor Response (Demonstrated Experience and Cross Reference to resume Page Number)
	5. Modeling: Microsoft Visio One (1) specific example of a project in which the Resource used the tool <u>must</u> be provided in order for points to be allocated.				
	Total # of points	50			
	Pass mark = 70% or # points	35			

2.2 Technology Architects – Systems Integrators - Capacity Management Level 3

Name of proposed Resource: _____					
#	Point Rated Criteria	MAX	Point Grid	Contractor self-score	Contractor Response (Demonstrated experience and Cross Reference to resume Page Number)
R1	<p>The Contractor should demonstrate that the proposed resource has experience, within the last two (2) years prior to the Draft TA issuance date, conducting the following types of capacity planning activities associated with line-of-business applications:</p> <ol style="list-style-type: none"> 1. Processing (CPU or MIPS) 2. Memory 3. Storage <p>One (1) specific example of a project in which the Resource completed the activities <u>must</u> be provided.</p>	15	<p>Five (5) points for each item supported by one (1) project reference:</p> <ol style="list-style-type: none"> 1. Processing (CPU or MIPS) 2. Memory 3. Storage <p>Up to a maximum of fifteen (15) points.</p>		

#	Point Rated Criteria	MAX	Point Grid	Contractor self-score	Contractor Response (Demonstrated experience and Cross Reference to resume Page Number)
R2	<p>The Contractor should demonstrate that the proposed resource has experience, within the last two (2) years prior to the Draft TA issuance date, designing <u>and</u> programming the following technical componentry for a capacity management program:</p> <ol style="list-style-type: none"> Data Acquisition: consolidation of data feeds from various sources into a common repository Data Manipulation: determination of a standard data structure, data transformation, data filtering Chart Generation: graphical representations of the Infrastructure usage showback/chargeback metrics per line of business application Graphical User Interface (GUI): creation of end user charge-back or planning views, integration into a website or WIKI Reports: creation of canned or ad hoc reports <p>One (1) specific example of a project in which the resource delivered the technical componentry must be provided in order for points to be allocated.</p>	10	<p>Two (2) points for each item supported by one (1) project reference:</p> <ol style="list-style-type: none"> Data Acquisition Data Manipulation Chart Generation GUI Reports <p>Up to a maximum of ten (10) points.</p>		
R3	<p>The Contractor should demonstrate that the proposed resource has experience, within the last two (2) years prior to Draft TA issuance date,</p>	10	<p>One (1) point for each item supported by one (1) project reference:</p> <ol style="list-style-type: none"> ElasticSearch 		

#	Point Rated Criteria	MAX	Point Grid	Contractor self-score	Contractor Response (Demonstrated experience and Cross Reference to resume Page Number)
	<p>working with the following technologies:</p> <ol style="list-style-type: none"> 1. ElasticSearch 2. Kibana 3. Logstash 4. JSON 5. IBM Systems Management Facilities (SMF) 6. WordPress 7. Drupal 8. Graphical Database 9. Computer Associated Wily Introscope 10. Oracle JAVA <p>One (1) specific example of a project in which the Resource worked with the specific technology <u>must</u> be provided in order for points to be allocated.</p> <p>Note: the same project may be used for more than one item.</p>		<ol style="list-style-type: none"> 2. Kibana 3. Logstash 4. JSON 5. IBM SMF 6. WordPress 7. Drupal 8. Graphical Database 9. Wily Introscope 10. Oracle JAVA <p>Up to a maximum of ten (10) points.</p>		
R4	<p>The Contractor should demonstrate that the proposed resource has experience, within the last two (2) years prior to the Draft TA issuance date, using the following documentation and modeling tools:</p> <ol style="list-style-type: none"> 1. WIKI: Atlassian Confluence or equivalent 2. Content Management: GCDocs (OpenText) or equivalent 3. Defect Tracking: Atlassian JIRA or equivalent 	5	<p>One (1) point for each item supported by one (1) project reference,</p> <ol style="list-style-type: none"> 1. WIKI software 2. Content Management 3. Defect Tracking 4. Microsoft Visio 5. Microsoft Project <p>Up to a maximum of five (5) points.</p>		

#	Point Rated Criteria	MAX	Point Grid	Contractor self-score	Contractor Response (Demonstrated experience and Cross Reference to resume Page Number)
	<p>4. Modeling: Microsoft Visio</p> <p>5. Planning: Microsoft Project</p> <p>One (1) specific example of a project in which the Resource used the tool <u>must</u> be provided in order for points to be allocated.</p> <p>Note: the same project may be used for more than one item.</p>				
	Total # of points	40			
	Pass mark = 70% or # points	28			

2.3Technology Architect, Systems Integrators - Two-Factor Authentication - Level 3

Name of proposed Resource: _____					
#	Point Rated Criteria –	MAX	Point Grid	Contractor self-score	Contractor Response (Demonstrated Experience and Cross Reference to resume Page Number)
R1	<p>The Contractor should demonstrate that the proposed resource has experience, within the last two (2) years prior to Draft TA issuance date, engineering the following types of terminal services implementations:</p> <p>1. Connectivity to a remote Citrix backend on a Government organization's network OR on a private sector organization's network.</p>	10	<p>Five (5) points for each item supported by one (1) project reference.</p> <p>1. Connectivity to a remote Citrix backend on a Government organization's network OR on a private sector organization's network.</p>		

	2. Integration of an office automation suite on Citrix to a Content Management System		2. Integration of an office automation suite on Citrix to a Content Management System Up to a maximum of ten (10) points.		
R2	<p>The Contractor should demonstrate that the proposed resource has experience, within the last two (2) years prior to the Draft TA issuance date, engineering or providing subject-matter expertise in support of the following types of 2-factor authentication (2FA) initiatives:</p> <ol style="list-style-type: none"> 1. Alignment of a new smart card model to driver sets of existing components 2. Alignment of new smart card reader hardware to driver sets of existing components 3. Integration with a card management system 4. Validation of token management system (e.g. QMC) 5. Validation of compatibility with a certificate-based authenticator token management middleware client (e.g. SAC) 6. Validation of compatibility with the storage of certificates and corresponding keys (e.g. Entrust) on tokens 7. Validation of official languages support (e.g. French/English) 7. Validation of Entrust Management of Trusted Root and Intermediate Certification Authorities 	10	<p>One (1) point for each item supported by one (1) project reference.</p> <ol style="list-style-type: none"> 1. Alignment of a new smart card model to driver sets of existing components 2. Alignment of new smart card reader hardware to driver sets of existing components 3. Integration with a card management system 4. Validation of token management middleware client (e.g. SAC) 5. Storage of certs and keys on tokens 6. Official languages 7. Entrust Management 8. Required vs. redundant 9. RFP preparation 10. PoP for 2FA bids <p>Up to a maximum of ten (10) points.</p>		

	<p>8. Reviewing required versus redundant certificates</p> <p>9. RFP preparation for card management systems, smart card models, readers or middleware software</p> <p>10. Proof-of-Proposal for 2FA technology vendor bids</p> <p>One (1) specific example of a project in which the Resource completed the deliverables must be provided in order for points to be allocated.</p> <p>Note: the same project may be used for more than one item.</p>				
R3	<p>The Contractor should demonstrate that the proposed resource has , within the last two (2) years prior to the Draft TA issuance date, completed the following engineering tasks:</p> <ol style="list-style-type: none"> 1. Impacting: determine disruption to the organization based on technological change 2. Design: ensure the solution meets service level requirements (capacity, security, availability and performance) 3. Implementation Strategy: analysis required to either upgrade in-place or implement in parallel followed by decommissioning 4. Change Management: review change requests, participation at technical change advisory boards or committees 5. Test (unit test or healthcheck) Plan: end-to-end validation of the 	5	<p>One (1) point for each item supported by one (1) project reference</p> <ol style="list-style-type: none"> 1. Impacting 2. Design 3. Implementation Strategy 4. Change Management 5. Testing <p>Up to a maximum of five (5) points</p>		

	<p>solution to ensure it meets requirements, standards and service levels</p> <p>Specific examples of projects in which the Resource completed the deliverables <u>must</u> be provided in order for points to be allocated, to a maximum of two (2) projects.</p> <p>Note: the same project may be used for more than one item.</p>				
R4	<p>The Contractor should demonstrate that the proposed resource has experience, within the last two (2) years prior to the Draft TA issuance date, engineering secure 2FA and terminal services business solutions involving the following technologies:</p> <ol style="list-style-type: none"> 1. Locally-Connected Devices <u>and</u> Drivers 2. CAPI Stores 3. Virtual Serial Channels 4. DNS 5. Secure Remote Access (SRA) 6. Active Directory (AD) <u>and</u> Group Policy Object (GPO) 7. SafeNet Authentication Client 8. Oracle JAVA Runtime Environment (JRE) v1.7+ 9. Cisco AnyConnect 10. Managed Secure File Transfer (MSFT) 11. Microsoft .NET Framework 12. Adobe Reader 13. QMC 14. Entrust TruePass 	15	<p>One (1) point for each technology:</p> <ol style="list-style-type: none"> 1. Devices & Drivers 2. CAPI Stores 3. Virtual Serial Channels 4. DNS 5. Secure Remote Access 6. AD & GPO 7. SafeNet Authentication Client 8. Oracle JAVA Runtime Environment (JRE) v1.7+ 9. Cisco AnyConnect 10. MSFT 11. .NET Framework 12. Adobe Reader 13. QMC 14. TruePass 15. PKI <p>Up to a maximum of fifteen (15) points.</p>		

15. PKI	One (1) specific example of a project where the Resource engineered a solution involving the technology <u>must</u> be provided in order for points to be allocated.				
	The same project may be used for multiple items.				
R5	<p>The Contractor should demonstrate that the proposed resource has experience, within the last two (2) years prior to the Draft TA issuance date, with infrastructure upgrades associated with a terminal services platform completing the following analysis:</p> <ol style="list-style-type: none"> 1. Impact on Citrix Access Gateway (CAG) 2. Impact on thin device usage 3. Impact on Citrix-hosted applications <u>and</u> virtual desktop 4. Impact on published applications 5. Workstation Start Menu <p>One (1) specific example of a project in which the Resource completed the analysis <u>must</u> be provided in order for points to be allocated.</p>	5	<p>One (1) point for each item:</p> <ol style="list-style-type: none"> 1. CAG 2. Thin device usage 3. Citrix-hosted applications 4. Published applications and virtual desktop 5. Workstation Start Menu <p>Up to a maximum of five (5) points.</p>		
	Total # of points	5			
	Pass mark = 70% or # points	31.5			

2.4 Technology Architects – Legacy Systems - Level 3

Name of proposed Resource: _____					
#	Point Rated Criteria	MAX	Point Grid	Contractor self-score	Contractor Response (Demonstrated Experience and Cross Reference to resume Page Number)
R1	<p>The Contractor should demonstrate that the proposed resource has experience, within the last two (2) years prior to the Draft TA issuance date, forecasting infrastructure capacity for a line-of-business project:</p> <ol style="list-style-type: none"> Processing: e.g. extrapolations based on CPU clock speed or core density, MIPS forecasts, peak usage determination Memory: e.g. RAM, DIMM architecture, caching requirements Storage: LUN allocations, SCSI disk and RAID arrays, data retention, backup and recovery Thread Management: e.g. throughput tuning based on parallel processing, multi-threading Virtual Machine: e.g. virtual machine sizing, over-allocation models <p>One (1) specific example of a project in which the Resource completed the activities must be provided in order for points to be allocated.</p>	5	<p>One (1) point for each item supported by one (1) project reference:</p> <ol style="list-style-type: none"> Processing Memory Storage Thread Management Virtual Machine <p>Up to a maximum of five (5) points.</p>		

R2	<p>The Contractor should demonstrate that the proposed resource has experience, within the last two (2) years prior to the Draft TA issuance date, completing the following activities within a release cycle involving a minimum of four phases*:</p> <ol style="list-style-type: none"> Design Signoffs: landing tests and alignment to business requirement analysis prior to developers being allowed to start using the technology, recommended design to be promoted to production Order to Production: sequence in which products need to be promoted to production Implementation Strategy: technical tasks, dependencies and sequencing – includes critical path negotiations Lab-Specific Configurations: build book parameters tailored to development, testing, staging, production, and production support environments Uplift Strategy: in-place upgrade, parallel implementation or other model for ever-greening software suites or individual technologies <p>One (1) specific example of a project in which the Resource completed the activities must be provided in order for points to be allocated.</p> <p>*The Resource must prove that the project solution went through at least four (4) of the following phases:</p>	10	<p>Two (2) points for each item supported by one (1) project reference-</p> <ol style="list-style-type: none"> Design Signoffs Order to Production Implementation Strategy Lab-Specific Configurations Uplift Strategy <p>Up to a maximum of ten (10) points.</p>		
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	<ul style="list-style-type: none"> • <u>Pre-Development</u>: Research, Design, Proof-of-Concept, Exploration Sandbox • <u>Development</u>: Unit Test, Construction • <u>Testing</u>: Transition, User Acceptance, Quality Assurance, Staging, External Partner Validation • <u>Production</u>: End User • <u>Production Support</u>: Training, Emergency Fix, External Partner Certification 				
R3	<p>The Contractor should demonstrate that the proposed resource has experience, within the last two (2) years prior to the Draft TA Issuance date, integrating complex* suites of products into the following enterprise-level solutions:</p> <ol style="list-style-type: none"> 1. Master Data Management 2. Business Rules Management System 3. Enterprise Service Bus 4. Data Stewardship 5. Data Cleansing <p>One (1) specific example of a project in which the Resource completed the integration and a list of technologies associated with the project must be provided in order for points to be allocated.</p> <p>Note: the same project may be used for more than one item.</p>	15	Three (3) points for each item supported by one (1) project reference.	<ol style="list-style-type: none"> 1. Master Data Management 2. Business Rules Management System 3. Enterprise Service Bus 4. Data Stewardship 5. Data Cleansing <p>Up to a maximum of fifteen (15) points.</p>	

	*Complex: refers to a minimum of five (5) software products integrated into the line-of-business COTS solution.				
R4	<p>The Contractor should demonstrate that the proposed resource has experience, within the last two (2) years prior to the Draft TA issuance date, engineering designs which include the following technologies: <u>Operating System Platforms</u></p> <ol style="list-style-type: none"> 1. RedHat Enterprise LINUX (RHEL) operating system platform <p><u>JAVA Platforms</u></p> <ol style="list-style-type: none"> 2. Oracle WebLogic on Solaris <p><u>Supporting Technologies</u></p> <ol style="list-style-type: none"> 3. IBM DB2 on z/OS 4. IBM DB2 LUW 5. IBM DB2 AESE pureScale 6. Computer Associates Wily Introscope monitoring software 7. Computer Associates SiteMinder security suite 8. Apache WebServer 9. F5 or Cisco Load Balancers 10. LDAP <p>One (1) example of a project in which the Resource worked with the specific technology <u>must</u> be provided in order for points to be allocated.</p> <p>Note: the same project may be used for more than one item.</p>	10	<p>One (1) point for each item supported by one (1) project reference</p> <ol style="list-style-type: none"> 1. RHEL 2. WLS on Solaris 3. DB2 on z/OS 4. DB2 LUW 5. DB2 pureScale 6. Wily 7. SiteMinder 8. Apache 9. Load Balancers 10. LDAP <p>Up to a maximum of ten (10) points</p>		

R5	<p>The Contractor should demonstrate that the proposed resource has experience, within the last two (2) years prior to the Draft TA issuance date, engineering designs on the following z/OS based WebSphere technologies:</p> <p><u>Operating System Platforms</u></p> <ol style="list-style-type: none"> 1. IBM z/OS mainframe operating system platform <p><u>JAVA Platforms</u></p> <ol style="list-style-type: none"> 2. IBM Websphere Application Server (WAS) on z/OS 3. IBM Websphere Application Server on RHEL <p><u>Supporting Technologies</u></p> <ol style="list-style-type: none"> 4. IBM Websphere MQ messaging software on z/OS 5. IBM Websphere MQ messaging software on RHEL <p>One (1) specific example of a project in which the Resource worked with the specific technology <u>must</u> be provided in order for points to be allocated.</p> <p>Note: Weblogic will not be considered as an equivalent to WebSphere. No points will be awarded for this.</p>	15	<p>Three (3) points for each of the following items</p> <ol style="list-style-type: none"> 1. IBM Z/OS 2. WAS on z/OS 3. WAS on RHEL 4. MQ on z/OS 5. MQ on RHEL <p>Up to a maximum of fifteen (15) points.</p>		
R6	<p>The Contractor should demonstrate that the proposed resource has experience, within the last two (2) years prior to the Draft TA issuance date, forecasting infrastructure</p>	10	<p>Number of months of experience with tool: 12 + to 18 months = 7 points</p>		

	capacity for a line-of-business project using the Broadcomm Wily Introscope product.		18 + to 24 months = 9 points 24 + months = 10 points		
	Total # of points	65			
	Pass mark = 70% or # points	45.5			

2.5 Technology Architects – Development Centre Specialist Level 3

Name of proposed Resource: _____					
#	Point Rated Criteria	Max Score	Point Grid	Contractor Self Score	Contractor Response (Demonstrated Experience and Cross Reference to resume Page Number)
R1	<p>The Contractor should demonstrate that the proposed resource has experience, within the last ten (10) years prior to the Draft TA issuance date, installing, configuring and supporting each of the following JAVA infrastructure components:</p> <ul style="list-style-type: none"> • IBM Rational Software Architect • WebSphere Application Server • WebSphere Application Server Network Deployment • Floating License Server • MQMON 	25	<p>Number of years per tool 4+ to 5 years = 1 points 5+ to 6years = 2 points 6+ to 7 years = 3 points 7+ to 8 years = 4 points 8+ years = 5 points</p> <p>Up to a max of 25 points</p>		
R2	<p>The Contractor should demonstrate that the proposed resource has five years of experience, within the last ten (10) years prior to the Draft TA issuance date, with the following tools and technologies.</p> <ol style="list-style-type: none"> 1. MQ Series 2. IBM WebSphere MQ 3. Ant Scripting 4. CA SiteMinder 5. SOAP Web Services 6. RESTFUL Web Services 7. XSLT 8. Eclipse Plug-in development 9. JAVAServer Faces 	80	<p>Number of years per tool and technologies: 4+ to 5 years = 1 points 5+ to 6years = 2 points 6+ to 7 years = 3 points 7+ to 8 years = 4 points 8+ years = 5 points</p> <p>Up to a max of 80 points</p>		

	10. Liferay Enterprise Portals 11. IBM WebSphere Application Server developer Tools for Eclipse; 12. Cruise Control; 13. CICS Transaction Gateway; 14. Subversion; 15. Jenkins; 16. SonarQube;				
R3	<p>The Contractor should demonstrate that the proposed resource has experience, within the last 10 years prior to Draft TA issuance date, in the IT industry, using each of the following tools/technologies:</p> <ol style="list-style-type: none"> 1. JAVA policy files 2. JAVA plug-in 3. JNDI 4. JMS 5. J2EE 6. DRS 7. JNLP 8. Name or text search engines 9. Elixir print modules 10. Grammar support tools 11. Blaze business or comparable rules engines (site example) 12. FOP/XLS 	60	Number of years per Tool/Technology 4+ to 5 years = 1 points 5+ to 6years = 2 points 6+ to 7 years = 3 points 7+ to 7 years = 4 points 8+ years = 5 points Up to a max of 60 points		
R4	<p>The Contractor should demonstrate that the proposed resource has experience, within the last ten (10) years prior to the Draft TA issuance date, in the development of designs</p>	5	1+ to 2 years = 1 point 2+ to 3 years = 2 points 3+ to 4 years = 3 points 4+ to 5 years = 4 points 5+ years = 5 points		

	and specifications for data access systems developed for DB2. The Contractor must include: <ul style="list-style-type: none"> • Name of project(s) and description • Provide a brief description of how the tool / technology was used in the selected project 		Up to a max of 5 points		
R5	The Contractor should demonstrate that the proposed resource has experience, within the last ten (10) years prior to the Draft TA issuance date, working as a Technology/Software Architect under Software Development Life Cycle (SDLC) system integration principles on systems of a legislative nature or of a National Security connotation.	10	1+ to 3 years = 2 point 3+ to 5 years = 4 points 5+ to 7 years = 6 points 7+ to 8 years = 8 points 8 + years = 10 points Up to a max of 10 points		
R6	The Contractor should demonstrate that the proposed resource has experience, within the last ten (10) years prior to the Draft TA issuance date, in making application and software architecture change recommendations on IT re-engineering projects that were accepted and implemented at a government agency or department.	10	1+ to 2 years = 1 point 2+ to 3 years = 2 points 3+ to 4 years = 5 points 4+ to 5 years = 7 points 5+ to 6 years = 9 points 6+ years = 10 points Up to a max of 10 points		
Total		190			
Minimum Threshold (70%)		133			

2.6 Project Managers, Level 3

Name of proposed Resource: _____						
#	Point Rated Criteria	MAX	Point Grid	Contractor self-score	Contractor Response (Demonstrated Experience and Cross Reference to resume Page Number)	
R1	The Contractor should demonstrate that the proposed resource has a valid Project Management Professional (PMP) certification from the Project Management Institute (PMI). To demonstrate, the Contractor should include a copy of the certification.	5	No valid designation = 0 points Valid Project Manager Professional Designation = 5 points.			
R2	The Contractor should demonstrate that the proposed resource has experience developing project plans, including the definition of the project scope, budget and schedule.	10	Less than 5 years = 0 points 5+ to 7 years = 2 points 7+ to 10 years = 5 points 10+ years = 10 points			
R3	The Contractor should demonstrate that the proposed resource has experience, over and above the minimum requirement in M.2, working with Microsoft Project for the purpose of reporting against project milestones.	10	5+ to 7 years = 2 points 7+ to 10 years = 5 points 10+ years = 10 points			
R4	The Contractor should demonstrate that the proposed resource has experience managing project risk, issues and changes.	10	Less than 5 years = 0 points 5+ to 7 years = 2 points 7+ to 10 years = 5 points 10+ years = 10 points			

#	Point Rated Criteria	MAX	Point Grid	Contractor self-score	Contractor Response (Demonstrated Experience and Cross Reference to resume Page Number)
R5	The Contractor should demonstrate that the proposed resource has experience interacting and communicating project status, risks and issues to senior management.	10	Less than 5 years = 0 points 5+ to 7 years = 2 points 7+ to 10 years = 5 points 10+ years = 10 points		
	Total # of points	45			
	Pass mark = 70% or # points	31.5			