

DDI/ITE/TSO



IC Commercial Cloud Enterprise (C2E) Industry Day

March 22, 2019

Administrative Items

- Questions
 - Index cards are stationed in the alcove area outside the auditorium and to the right of the podium inside the auditorium.
 - Q&A session will be held at the conclusion of the event.
- Scheduled Breaks
 - Two 25-minute breaks.
 - Please remain inside the auditorium or within the alcove area.
- Discussions
 - Conduct all discussions at the Unclassified level only.
- Logistics
 - Restrooms are located in the alcove area just outside the auditorium.
 - In the case of an emergency, proceed to one of the three exits located inside the auditorium and exit through MITRE 4 front lobby.

Agenda

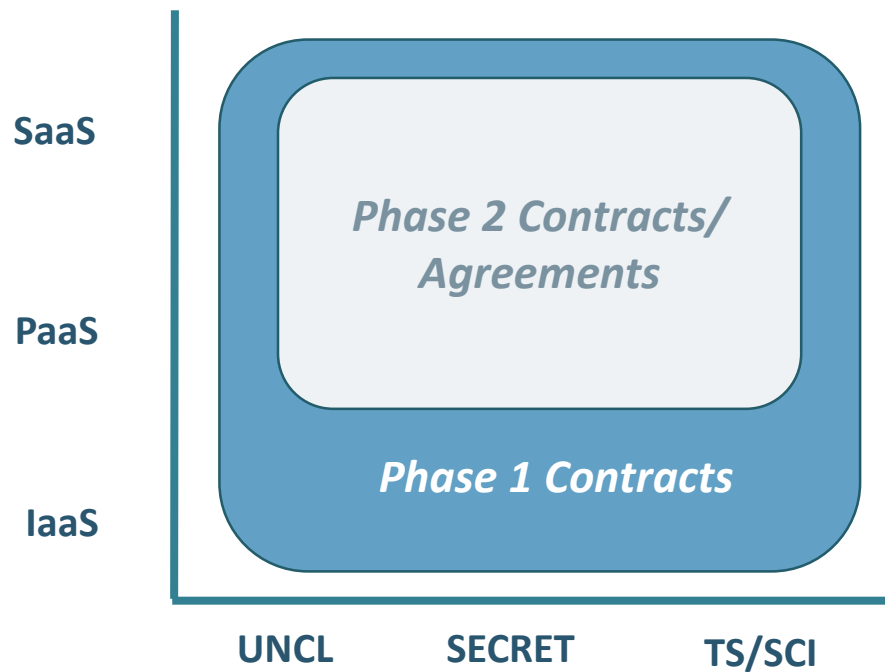
- Welcome
- Draft Scope
- Anticipated Acquisition Approach
- Draft Program Objectives
- Phase 1 Draft Contract(s) Objectives
- Break
- Draft High Level Requirements
- Anticipated Acquisition Schedule
- Market Survey
- C2E POCs
- Break
- Q & A

Welcome!

Draft Scope

- **Service types:** All types of cloud services (including Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS), and associated professional support services.
- **Security levels:** All security levels including UNCLASSIFIED, SECRET, and TS/SCI with intelligence overlays.
- **Locations:** Worldwide – both terrestrial and satellite/space – with both on- and off-government premises options.
- **Users:** Supporting all components of the IC and other partners that the IC components sponsor for use.
- **Estimated Value:** Tens of billions.

Anticipated Acquisition Approach



Phase 1 will acquire multiple commercial cloud vendors that can provide foundational cloud services, including IaaS, PaaS, and SaaS.

Phase 2 will acquire through multiple vehicles, specialized Platform-as-a-Service (PaaS), Software-as-a-Service (SaaS), and multiple cloud management capabilities to augment those acquired in Phase 1.

Draft Program Objectives

- The principal C2E Program objective is to acquire cloud computing services directly from commercial cloud service providers with established records for innovation and operational excellence in cloud service delivery for a large customer base.

Phase 1 Draft Contract(s) Objectives

- **Cloud Service Innovation.** The Provider has documented past performance of implementing new cloud services in its commercial offering that will permit significant advances in support of the intelligence mission when implemented in C2E.
- **Technical Parity.** When new cloud services are introduced in the Provider's commercial environment, the same services become rapidly available in the C2E environment at all security levels as prioritized by the Government.
- **Interoperability / Portability.** The Provider has the technical capabilities and management processes to effectively and efficiently facilitate application and data interoperability and portability, as prioritized, between IC cloud environments, including between cloud offerings from different providers.
- **Operational Excellence.** The Provider will deliver operational excellence in cloud computing by such elements as scaling quickly to satisfy user computing demands, proactively exceeding IC security requirements, assuring high system availability and data reliability, and providing best-in-class user support.
- **Service Pricing Parity.** The Provider will provide a range of service pricing structures to cost-effectively support different use cases and revises C2E pricing regularly to maintain parity with the Provider's commercial environment pricing.
- **Superior Contract Management.** The Provider demonstrates the expertise and commitment required to manage a complex effort at the speed of mission which is critically important to the IC and national security.

BREAK

Draft High Level Requirements

1. Be a commercial cloud service provider with an established record for innovation and operational excellence in cloud service delivery for a large customer base by industry standards.
2. Have the capability to provide commercial cloud service offerings (IaaS, PaaS, SaaS, etc.) from worldwide locations with off- and on-government premises service delivery options.
3. Provide an extension of enterprise cloud services at tactical edge locations that offers a comprehensive range of services that minimize the loss of cloud capability support for tactical edge missions if network communications are lost. Tactical capabilities shall enable to the maximum extent possible the broad range of cloud services that include IaaS, PaaS, and support edge artificial intelligence/machine learning use cases.
4. Provide cloud service offerings that can be configured to process data at all security levels including UNCLASSIFIED, SECRET, and TS/SCI with intelligence overlays.

Draft High Level Requirements, Con't.

5. Deliver initial operating capability (IOC) cloud service offerings that meet security requirements in all C2E security fabrics within the following timeframes upon conclusion of the contract initiation review:
 - UNCLASSIFIED fabric: 30 days
 - SECRET fabric: 180 days
 - TS/SCI with overlays fabric: 270 days
6. Provide continuous cloud service innovation with a wide variety of offerings in advanced cloud technologies including, but not limited to, artificial intelligence, machine learning, distributed computing (edge, fog, mist), mobile device platform support, high-performance compute, and cloud service automation.
7. Maintain technical parity by instantiating new services – identified as having IC mission priority -- across all C2E security fabrics (or providing complete security documentation for the new service to the government) within 3 months of the service being offered in the provider's commercial environment.
8. Provide architectural options to ensure continuity of operations across all security fabrics in the event of a disaster disabling a portion of the infrastructure.

Draft High Level Requirements, Con't.

9. Deliver cloud service capabilities that effectively and efficiently provide application and data interoperability between IC cloud environments.
10. Provide a marketplace capability to facilitate the use and billing of Bring-Your-Own-License (BYOL) PaaS and SaaS offerings, including those that may be acquired in Phase 2 of C2E.
11. Provide cloud security offerings that proactively ensure protection of the physical infrastructure and information security, and limit and/or mitigate against threats, internally, and externally to the C2E environment.
12. Provide industry-leading Service Level Agreements (SLAs) for cloud service availability, scalability, and data reliability that includes significant penalties for failure to meet the established thresholds.
13. Provide C2E service pricing options comparable to the provider's commercial offering and adjust C2E prices accordingly within one month of changes in the prices of commercial offerings.

Draft High Level Requirements, Con't.

14. Provide industry-leading user/management support, including features such as robust documentation, multimode training, cost management tools, flexible/timely utilization/cost reporting, and help desk assistance.
15. Provide professional services to support the use of C2E including, but not limited to, cloud migration projects and expert consulting on cloud architecture, infrastructure, development, integration, and security topics.
16. Provide skilled and experienced personnel with the ability to obtain clearances appropriate for the security fabric being supported as directed by the government.
17. Provide the capability to transition off of the Provider's cloud infrastructure as required by mission needs and when the contract expires.

C2E Anticipated Acquisition Schedule

Date	Acquisition Milestone
October 2018	Government announces follow-on competition at ITE Industry
November 2018 – March 2019	Government drafts high-level requirements and conducts initial C2E Industry Day
April 2019 – May 2019	Government releases Request for Information, reviews responses
June 2019	Government conducts pre-solicitation discussions with industry
July 2019 – November 2019	Government prepares draft Statement of Objectives (SOO) and requirements documents
January 2020	Government releases Draft Request for Proposal (RFP)
February 2020	Government conducts final Industry Day and one-on-one meetings
March 2020	Government reviews and responds to questions on DRFP
May 2020	Government releases Final RFP
No Later than July 2021	Government awards one or more contracts

Completed Activity

In Progress

Market Survey

- Market Survey will be posted in the ARC – 25 Mar 19.
- Vendors reply to Market Survey via the ARC – 8 Apr 19.
 - In addition to replies, white papers will be accepted.
- The Government will review all responses and may invite vendors back to a one-on-one Exchange Meeting.

C2E POCs



Team Member	Role	Contact Information
Kathleen H	C2E PM	
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BREAK

Q & A

Thank You!