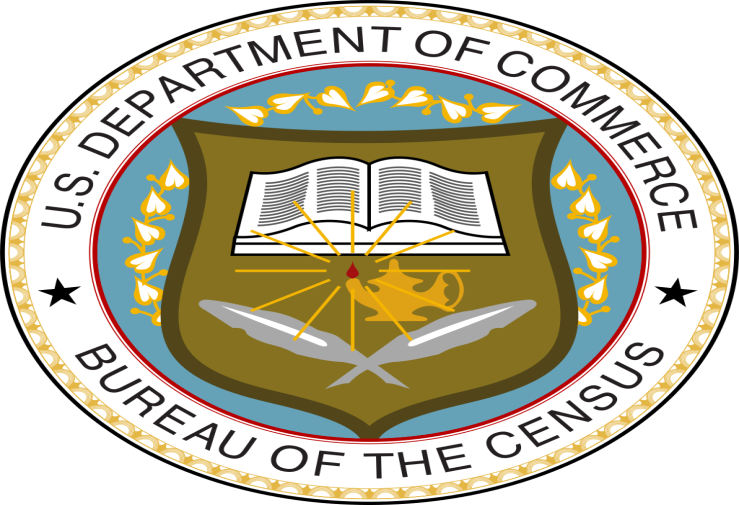
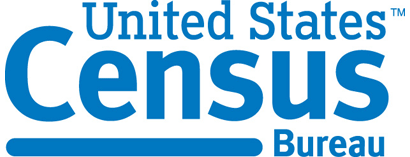


2020 Census enterprise architecutre and infrastructure transition plan

Count everyone once in the right place



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# Census Bureau Mission

The Census Bureau's mission is to serve as the leading source of quality data about the nation's people and economy. We honor privacy, protect confidentiality, share our expertise globally, and conduct our work openly.

We are guided on this mission by scientific objectivity, our strong and capable workforce, our devotion to research-based innovation, and our abiding commitment to our customers.

**Our Authority**

The Census Bureau operates under Title 13 and Title 26 of the U.S. Code.

**Our Goal**

Our goalis to provide the best mix of timeliness, relevancy, quality and cost for the data we collect and services we provide.

**What Data We Collect & When**

**Decennial Census of Population and Housing**

The U.S. census counts every resident in the United States. It is mandated by Article I, Section 2 of the Constitution and takes place every 10 years.

**Economic Census**

The Economic Census is the U.S. government's official five-year measure of American business and the economy.

**Census of Governments**

Identifies the scope and nature of the nation's state and local government sector including public finance and public employment and classifications.

**American Community Survey (ACS)**

The American Community Survey is the premier source for information about America's changing population, housing and workforce.

**Our Surveys & Programs**

Our surveys provide periodic and comprehensive statistics about the nation. This data is critical for government programs, policies, and decision-making.

**Economic Indicators**

The Census Bureau releases fourteen different reports on key economic indicators.

**How Our Data Are Used**

**To determine the distribution of Congressional seats to states.**

* Mandated by the U.S. Constitution
* Used to apportion seats in the U.S. House of Representatives
* Used to define legislature districts, school district assignment areas and other important functional areas

Find out about the 2020 Census Redistricting Data Program

**To make planning decisions about community services, such as where to:**

* Provide services for the elderly
* Build new roads and schools
* Locate job training centers

**To distribute more than $400 billion in federal funds to local, state and tribal governments each year.**

Census data informs how states and communities allocate funding for:

* Neighborhood improvements
* Public health
* Education
* Transportation
* Much more

**To provide Age Search information for:**

* Qualifying for Social Security and other retirement benefits
* Passport applications
* Proving relationship in settling estates
* Researching family history or a historical topic

# The Summary of 2020 Census Enterprise Architecture and Infrastructure Transition Plan(CEAITP)

**Business goals**

The (CEAITP) focuses on multi-year transition from 2015 solution architecture to the 2020 target architecture . The business goals of (CEAITP) are:

* Reengineering Address Canvassing;
* Optimizing Self-Response;
* Utilizing Administrative Records and Third-Party Data; and
* Reengineering Field Operations.

**Purposes and strategy**

The purpose of the 2020 CEAITP is to communicate and inform the transition phases to the stakeholders, to support the 2020 Operational Plan, to guarantee the safety of 2020 Census Program and to meet system requirement for scalability, reliability, and availability.

The 2020 CEAITP is incremental by nature, has detailed timelines for various architecture domains from current architecture to the target architecture and aims to maximize the utility of Enterprise standards, pattern and Programs.

# The technical view

**Scalability**

**Availability**

**Reliability**

**Resilience**

**Security**

# **Summary of the system view from the 2015 NCT to the 2020 Census.**

The current state (2015 NCT) is a series of tests ranging from small to medium to determine operational readiness of systems. The 2015 NCT is considered the baseline. The main focus of the 2015 NCT was to test out multiple content forms with multiple mails out strategies.

The current state application architecture is a highly complex integration of existing and new solutions having different platforms, hardware and software, multiple data sources with some manual, and little automated process. It provides a context for system development or enhancement. Applications areas within systems represent a useful subdivision of activities, services, and data that can be linked to other objects in the architecture. They are a group of activities and entity types with strong interdependencies such that a single application or more than one application can support the area. In the past applications communicated often via manual processes to manager large transfer of data. Files were transferred manually using ad-hoc transfer solutions, such as FTP.

The Target state (2020 Census)is based on a SOA paradigm where each application will provide services to the overall solution. In providing these services, these applications, can dictate development of technical enhancements and defining design patterns, APIs, Web Services, use of ESB, mobile, and cloud technologies. The ability to allow applications to use integrates enterprise data models to communicate with other systems and share data.

This modernization will consider the interoperability and interfacing elements such as data format, type, size, frequency, and performance elements such as throughput, response time, and quality of service. Future state will utilize Enterprise Integration Patterns based on API, ESB, and Managed File Transfer (MT) software to securely and efficiently share data across systems.

The target state application architecture will be a set of application areas identified to support the 2020 census. It provides a context for system development or enhancement. Application areas represent a useful subdivision of activities, services, and data that can be linked to other objects in the architecture. There will be a group of activities and entity types with strong interdependencies such that a single application or more than one application can support the area.

Target state will consist of both legacy application enhancements and new application development efforts. Projects such as CEDCap will replace multiple legacy systems used during the 2010 Census, while other legacy applications such as CIRA will remain to support the 2020 Census.

# Team member responsibilities

|  |  |
| --- | --- |
| Team Member | Assignment(s) |
| Linus Freeman | EA Framework Selection and Customization  Enterprise Architecture Business View |
| Nicholas Vilailack | Enterprise Architecture System View Project Report Overview |
| Junxiang Wang | Enterprise Architecture Technical View  EA Framework Overview |

Appendices

Bureau, US Census. "What We Do." What We Do. N.p., 30 Jan. 2017. Web. 06 Apr. 2017.