

Zero Base Review (ZBR) *IT Security Assets*

Process & Methodology Review

NASA Advisory Council Institutional Committee Update

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Background

- May 2015 - Based on the findings of the Business Services Assessment Deep Dive on Agency IT Services, Mission Support Council made the decision to have an independently led zero-base review (ZBR) of IT Security spending and alignment to the IT Security Strategy be conducted.
- July 2015 - OCIO requested OCFO to lead the review
- August 2015 - A data call to the CIO & CFO communities at each Center was issued, requesting a breakdown of IT Security assets and services being procured at their Center.

Background (cont.)

- September 2015- Center submissions received and consolidated with Agency OCIO IT Security spending.
- October 2015 - Assessment was initiated with the following two goals in mind:
 - (1) Determine where spending is and is not in alignment to the IT Security Strategy.
 - (2) Determine opportunities for potential reductions in IT Security spending throughout the Agency by highlighting duplicative spending and recommending strategic sourcing where applicable.
- November 2015 - Finalize draft assessment, receive stakeholder input, and finalize report and recommendations to OCIO.

ZBR Team

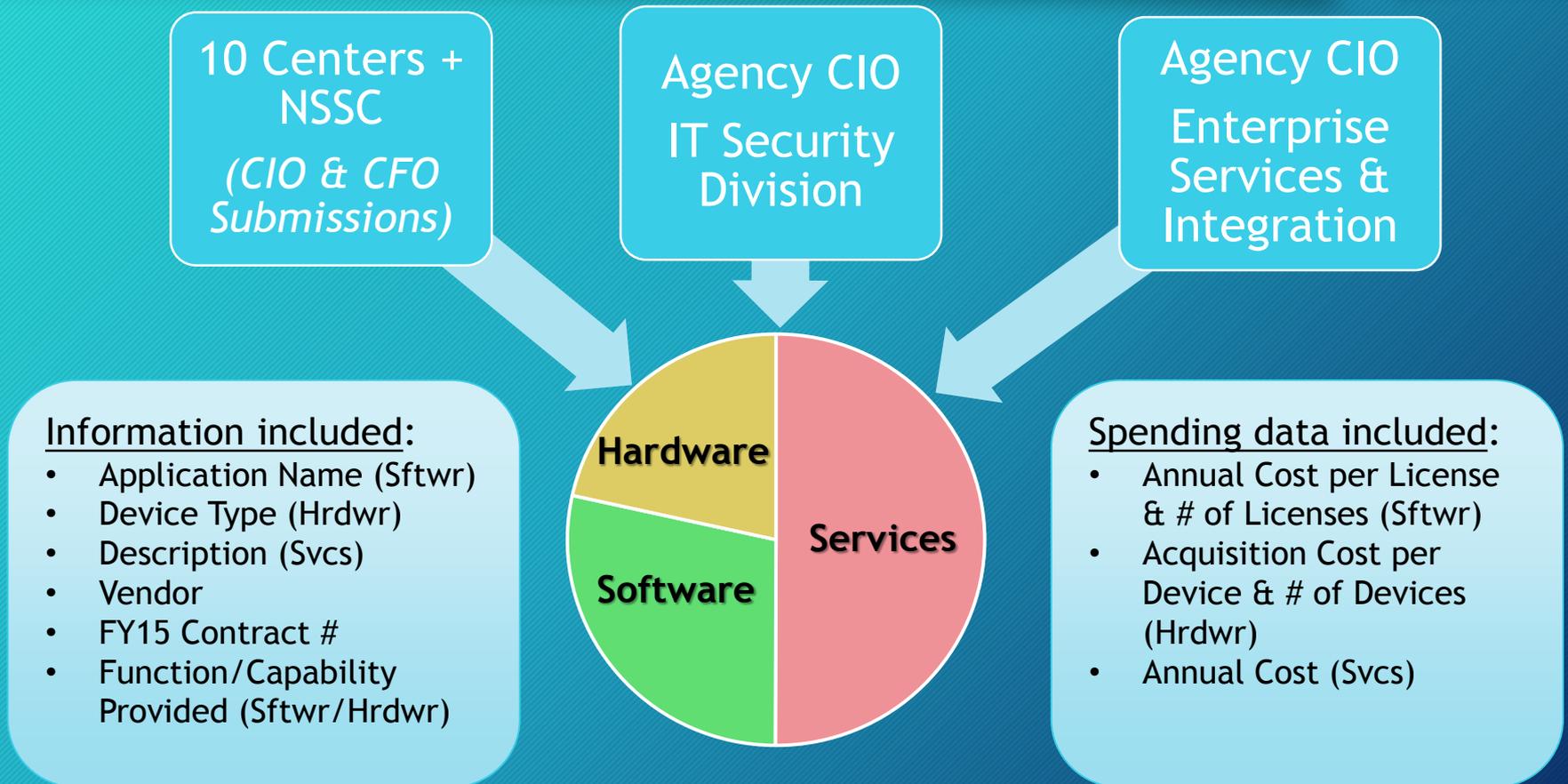
- Adam Bethon, NASA OCFO - ZBR Team Lead
- John Pescatore, SANS Institute - External Technical Advisor
- Martin Leghart, Booz Allen Hamilton - Cyber Security Analyst
- Ramzi Shuhaibar, Booz Allen Hamilton - Financial Analyst

ZBR Process

- Data Collection
- Data Categorization
- High Level Analysis to determine areas of duplicative spending
- Clarification with Centers on spending
- Development of recommendations for OCIO to work with particular Centers on specific products and/or types of cybersecurity spending

Note: No decisions are being made directly by the ZBR team, but rather highlights are being provided to OCIO for areas of potential savings through strategic resourcing or gaps in alignment to Federal IT Security standards.

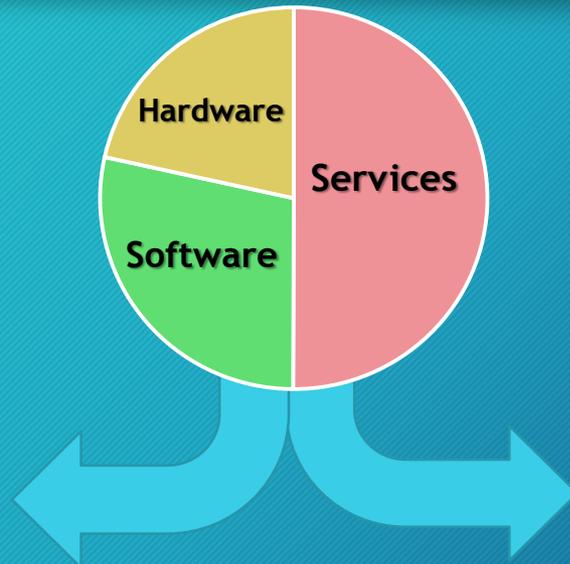
Data Collection Process



Data Analysis Process

Internal Team Assessment:

- Areas for potential strategic sourcing including collapsing spending into existing enterprise contracts
- Areas for potential standardization
- Areas where further investigation should be focused to determine whether enterprise contracts are providing NASA with the highest cost benefit.



External Advisor Assessment:

- Review of data as compared to DHS' CDM Phase 1
- CDM procurement vehicles opportunities.
- Improved cybersecurity by a different or more integrated mix of product choices.
- Gaps where critical security controls under CDM Phase 1 appear to be missing or deficient.

Recommendations Logic

- Benchmarks being utilized in the analysis are twofold:
 - Financial: Comparison of Center level procurements vs. Agency Enterprise procurement vehicles
 - Technical: Comparison of IT Security assets and services NASA is rendering vs. Continuous Diagnostics & Mitigation (CDM) Phase 1 elements (Establishment of Baseline)
- Prioritization on the recommendations were based on:
 - Level of funding and potential savings (a secondary list of informational items coming out of the analysis will also be provided but are secondary due to potential savings being lower)
 - Impact of standardization (# of tools supporting similar functions corresponding to receiving standardized data on the same subject)

Next Steps...

- The ZBR team is in the final stages of providing the Pre-stakeholder review of the draft *Report of Findings and Recommendations of the FY15 IT Security Zero Base Review* to OCIO.
- The ZBR team will work with OCIO to issue the draft for stakeholder feedback to ensure no major gaps were missed with the team's analysis & assessment.
- Based on stakeholder feedback, the *Report of Findings and Recommendations of the FY15 IT Security Zero Base Review* will be finalized and formally issued to OCIO.