

# Executive Order 13636: Improving Critical Infrastructure Cybersecurity

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## EO 13636 Overview





#### Executive Order 13636

- Improving Critical Infrastructure Cybersecurity
- Issued February 2013
- What is Critical Infrastructure?

"...assets, whether physical or virtual, so vital to the United States that the incapacity or destruction of such systems and assets would have a debilitating impact on security, national economic security, national public health or safety, or any combination..."

- Chemical Sector
- Commercial Facilities Sector











- Communications Sector
- Critical Manufacturing Sector











- Dams Sector
- Defense Industrial

Base Sector







- Emergency Services
- Energy Sector











- Financial Services Sector
- Food and Agriculture Sector









- Government Facilities Sector
- Healthcare and Public Health Sector







- Information Technology Sector
- Nuclear Reactors, Materials, and Waste Sector









- Transportation Systems Sector
- Water and Wastewater Systems Sector









# What Does It Say? What Does

It Do?

#### Carrot & Stick

Legal liability?

Civic pride?

Patriotism?

Self interest?



#### Carrot & Stick

EO directs the Executive Branch to:

"...promote and incentivize the adoption of Cybersecurity practices..."



#### The Carrots

- EO directs the Executive Branch to:
  - Increase the volume, timeliness and quality of cyber threat information sharing
  - Develop a technology-neutral voluntary Cybersecurity
     framework



## Sharing Cyber Threat Information

"...Within 120 days,

- the Attorney General (DOJ),
- the Secretary of DHS, and
- the Director of National Intelligence

shall each issue instructions to ensure the timely production of unclassified reports of cyber threats to the U.S. homeland that identify a specific targeted entity..."

## Develop a Cybersecurity Framework

- The Secretary of Commerce shall direct the Director of NIST to lead the development of a framework
- shall include a set of standards, methodologies, procedures, and processes that align policy, business, and technological approaches to address cyber risks.

## Develop a Cybersecurity Framework

- Within 240 days of the date of this order publish a preliminary version of the Cybersecurity Framework
- Within 1 year of the date of this order publish a final version of the Cybersecurity Framework

#### The Stick?

#### Promote & Incentivize

- establish a voluntary program to support the adoption of the Cybersecurity Framework by owners and operators of critical infrastructure
- coordinate establishment of a set of incentives designed to promote participation in the Program.

#### The Stick?

#### Promote & Incentivize

- include analysis of the benefits and relative effectiveness of such incentives, and whether the incentives would require legislation or can be provided under existing law and authorities to participants in the Program.
- feasibility, security benefits, and relative merits of incorporating security standards into acquisition planning and contract administration

NIST Cybersecurity Framework (CSF)

#### Goals of the Framework

The CSF should enable an organization to:

- describe their current Cybersecurity posture
- describe their target state for Cybersecurity
- identify and prioritize opportunities for improvement within the context of risk management
- assess progress toward the target state
- foster communications among internal and external stakeholders

#### Framework Core

- compilation of Cybersecurity
   activities and references that are
   common across critical infrastructure
   sectors.
- consists of five Functions: Identify,
   Protect, Detect, Respond, Recover

Framework Core					
Functions	Categories	Subcategories	Informative References		
IDENTIFY					
PROTECT					
DETECT					
RESPOND					
RECOVER					

#### Framework Core

• identifies underlying key Categories and Subcategories for each of these Functions, and matches them with Informative References such as existing standards, guidelines, and practices for each Subcategory

Framework Core					
Functions	Categories	Subcategories	Informative References		
IDENTIFY					
PROTECT					
DETECT					
RESPOND					
RECOVER					

## Framework Core

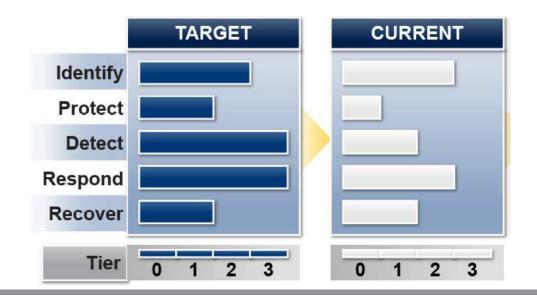
Function	Category	Subcategory	Informative References
		ID.RA-3: Threats to organizational assets are identified and documented	<ul> <li>ISA 99.02.01 4.2.3, 4.2.3.9, 4.2.3.12</li> <li>COBIT APO12.01, APO12.02, APO12.03, APO12.04</li> <li>NIST SP 800-53 Rev. 4 RA-3, SI-5, PM-16</li> </ul>
		ID.RA-4: Potential impacts are analyzed	• ISA 99.02.01 4.2.3, 4.2.3.9, 4.2.3.12 • NIST SP 800-53 Rev. 4 RA-3
		ID.RA-5: Risk responses are identified.	• NIST SP 800-53 Rev. 4 PM-9
	Risk Management Strategy (RM): The organization's priorities, constraints, risk tolerances, and assumptions are established and used to support operational risk decisions.	ID.RM-1: Risk management processes are managed and agreed to	<ul> <li>ISA 99.02.01 4.3.4.2</li> <li>COBIT APO12.04, APO12.05, APO13.02, BAI02.03, BAI04.02</li> <li>NIST SP 800-53 Rev. 4 PM-9</li> <li>NIST SP 800-39</li> </ul>
		ID.RM-2: Organizational risk tolerance is determined and clearly expressed	<ul> <li>ISA 99.02.01 4.3.2.6.5</li> <li>COBIT APO10.04, APO10.05, APO12.06</li> <li>NIST SP 800-53 Rev. 4 PM-9</li> <li>NIST SP 800-39</li> </ul>
		ID.RM-3: The organization's determination of risk tolerance is informed by their role in critical infrastructure and sector specific risk analysis	NIST SP 800-53 Rev. 4 PM-8, PM-9, PM-11
PROTECT (PR)	Access Control (AC): Access to information resources and associated facilities are limited to authorized users, processes or devices (including other information systems), and to authorized activities and transactions.	PR.AC-1: Identities and credentials are managed for authorized devices and users	<ul> <li>ISA 99.02.01 4.3.3.5.1</li> <li>COBIT DSS05.04, DSS06.03</li> <li>ISO/IEC 27001 A.11</li> <li>NIST SP 800-53 Rev. 4 AC-2, AC-5, AC-6, IA Family</li> <li>CCS CSC 16</li> </ul>

## Framework Implementation Tiers ("Tiers")

- describe how an organization manages its Cybersecurity risk
- range from Partial (Tier 1) to Adaptive (Tier 4) and describe an increasing degree of rigor and sophistication in risk management practices and the extent to which risk management is integrated into an organization's overall practices.
  - Tier 1: Partial
  - Tier 2: Risk-Informed
  - Tier 3: Risk-Informed and Repeatable
  - Tier 4: Adaptive

#### Framework Profile ("Profile")

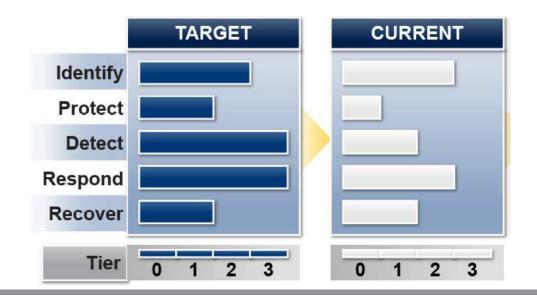
• conveys how an organization manages Cybersecurity risk in each of the Framework Core Functions and Categories by identifying the Subcategories that are implemented or planned for implementation





## Framework Profile ("Profile")

 also used to identify the appropriate goals for an organization or for a critical infrastructure sector and to assess progress against meeting those goals



## Preliminary CSF Workflow

412-413 Identify. The organization identifies its mission objectives, related systems and assets, regulatory requirements and overall risk approach

414-416 Create a Current Profile. Beginning with the Categories specified in the Framework Core, the organization develops a Current Profile that reflects its understanding of its current cybersecurity outcomes based on its implementation of the Identify Function.

417-421 Conduct a Risk Assessment. The organization analyzes the operational environment in order to discern the likelihood of a cybersecurity event and the impact that the event could have on the organization. It is important that critical infrastructure organizations seek to incorporate emergent risks and outside threat data to facilitate a robust understanding of the likelihood and impact of cybersecurity events.

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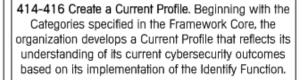
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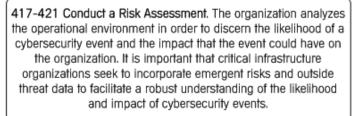
435-436 Privacy Methodology 432-434 Implement Action Plan. The organization implements the steps defined in the action plan and monitors its current cybersecurity practices against the Target Profile.

# How RSA Archer Can Help

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## "Identify" Step = RSA Archer Enterprise Mgmt.





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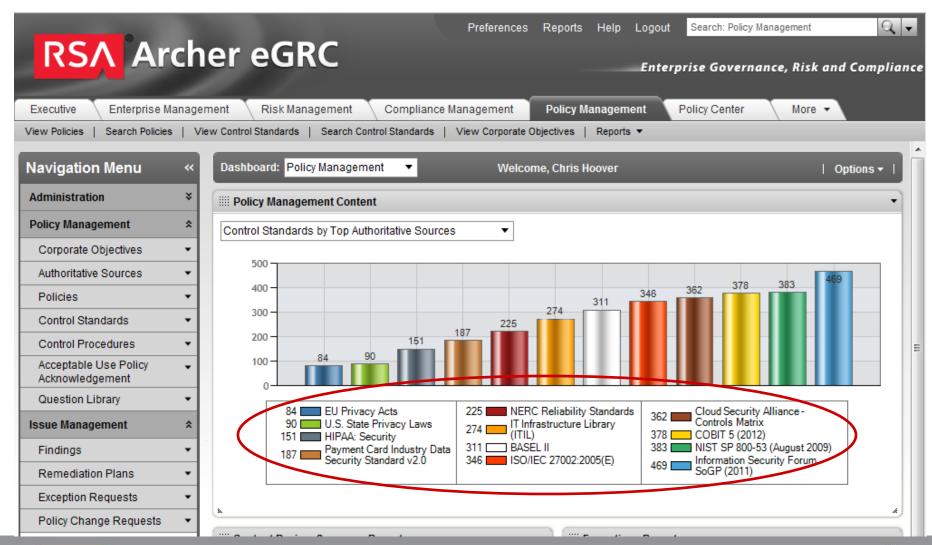
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## Profile Mapping = RSA Archer Policy Mgmt.





EMC<sup>2</sup>

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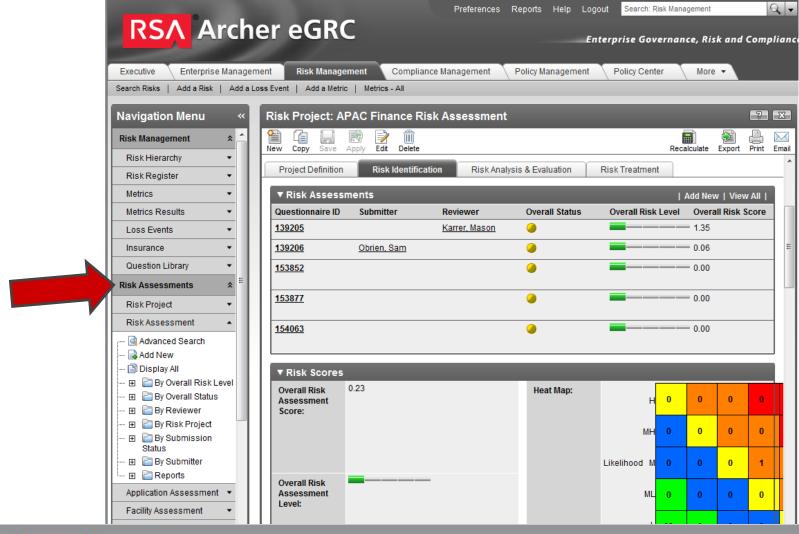
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## Risk Assessment = RSA Archer Risk Mgmt.







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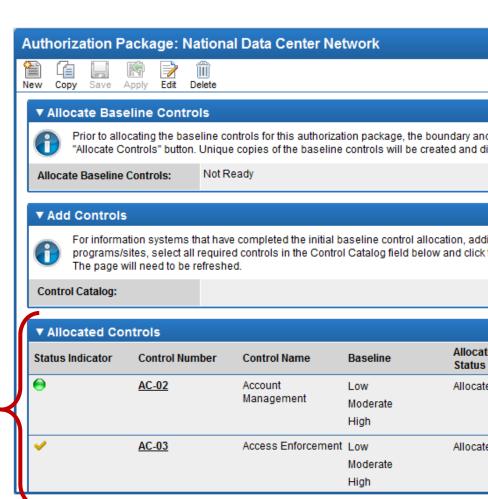
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#### Allocated Controls

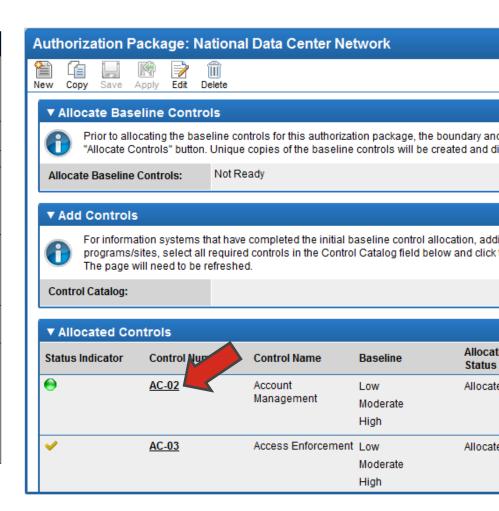
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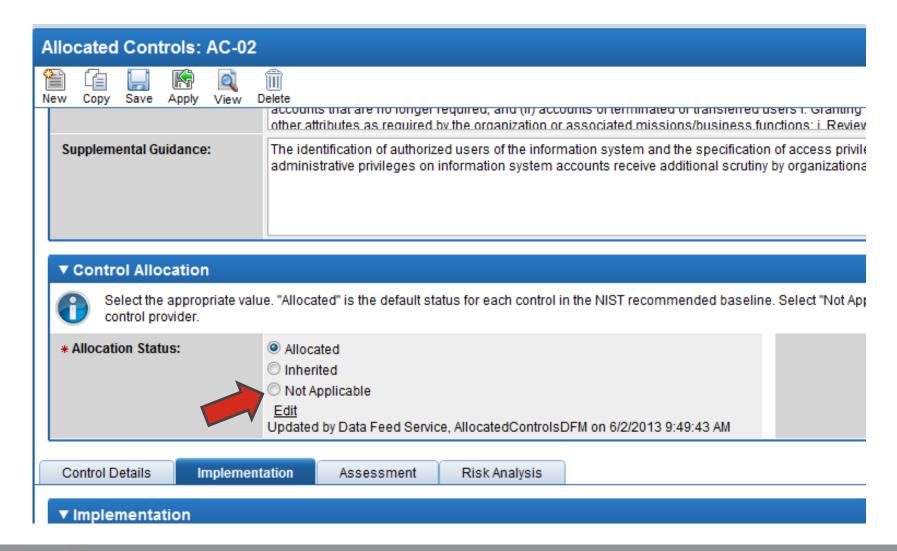
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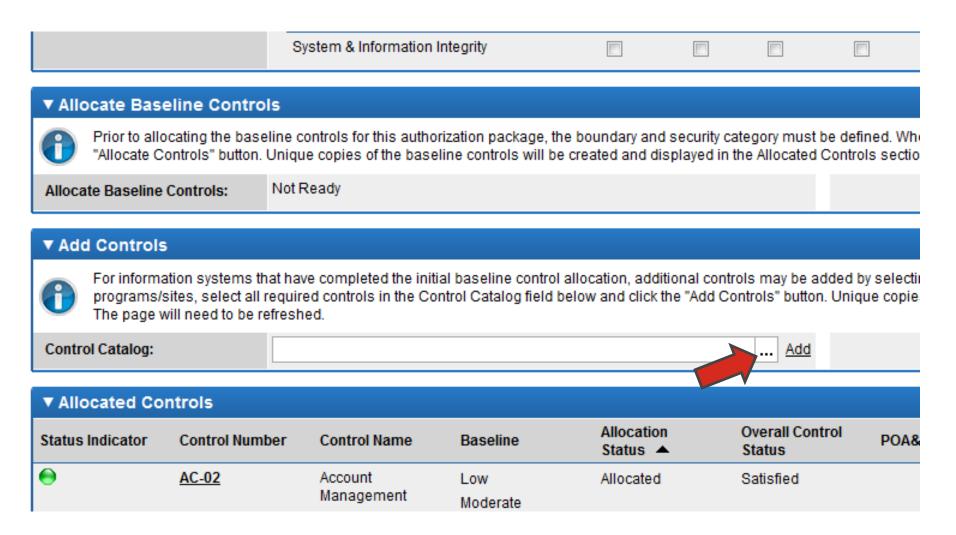




#### Tailoring the Control Set - Remove



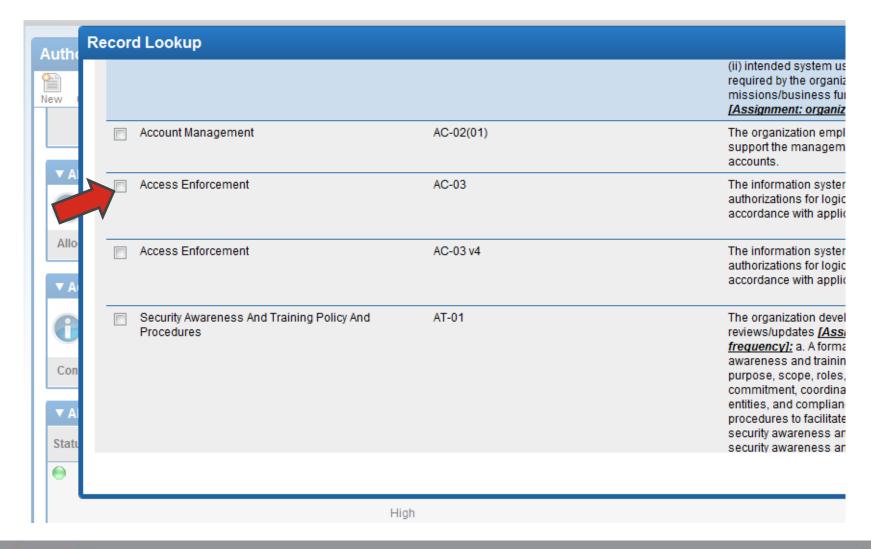
#### Tailoring the Control Set - Add





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### Tailoring the Control Set - Add







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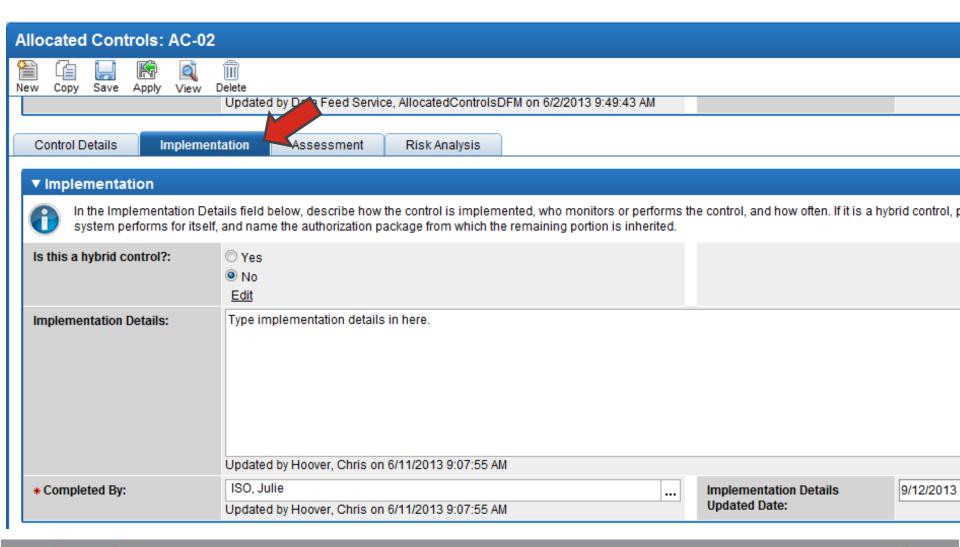
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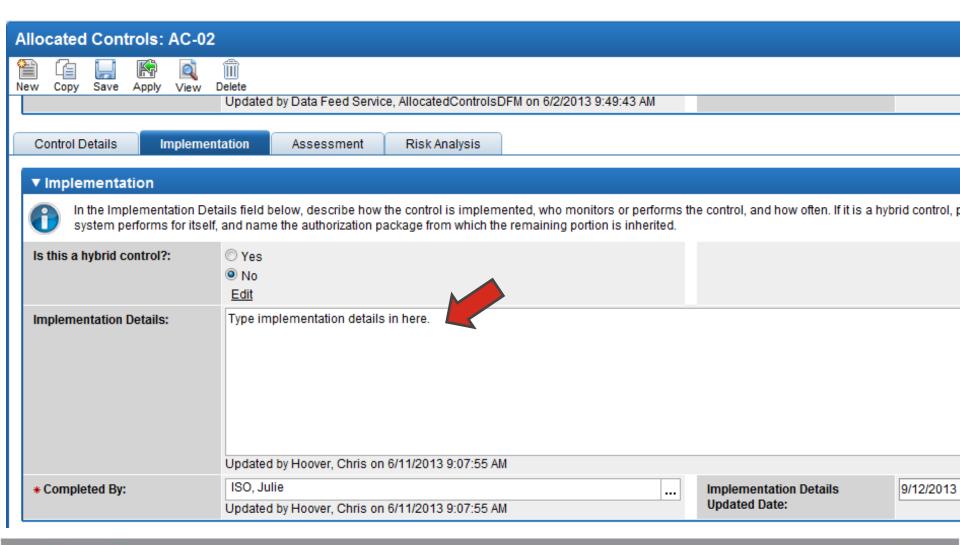
## Implementing / Documenting Controls







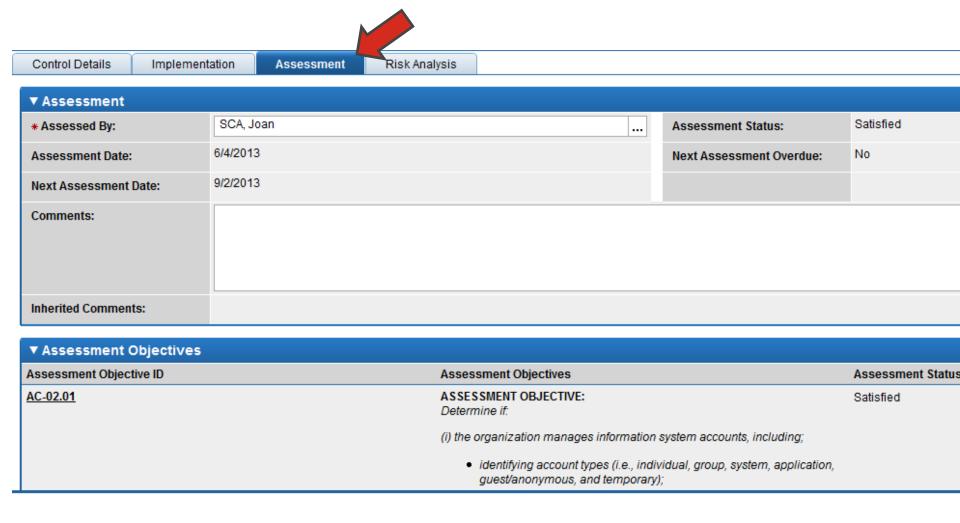
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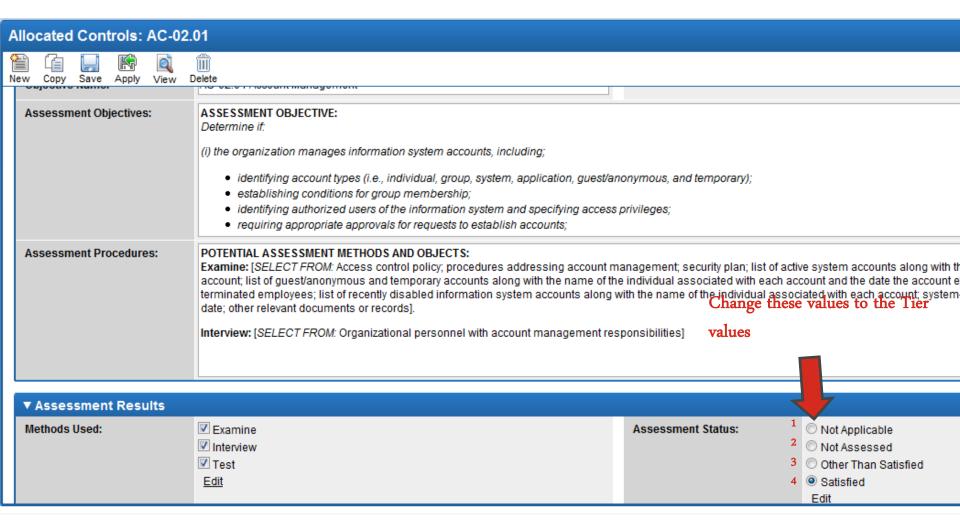
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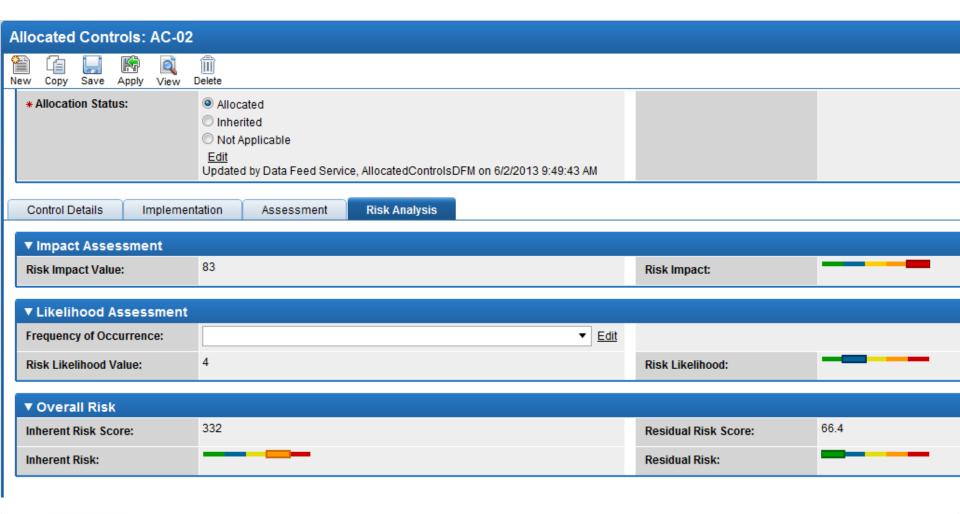
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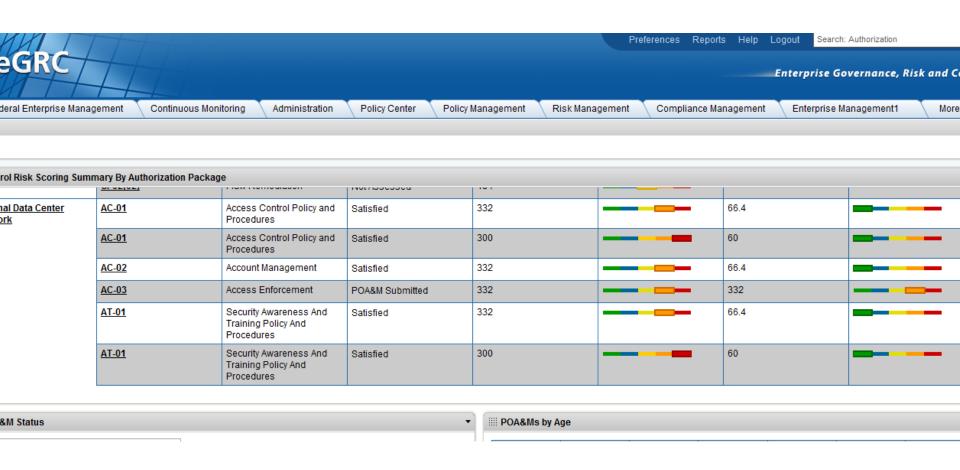


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#### Measuring/Scoring Gaps



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EMC<sup>2</sup>

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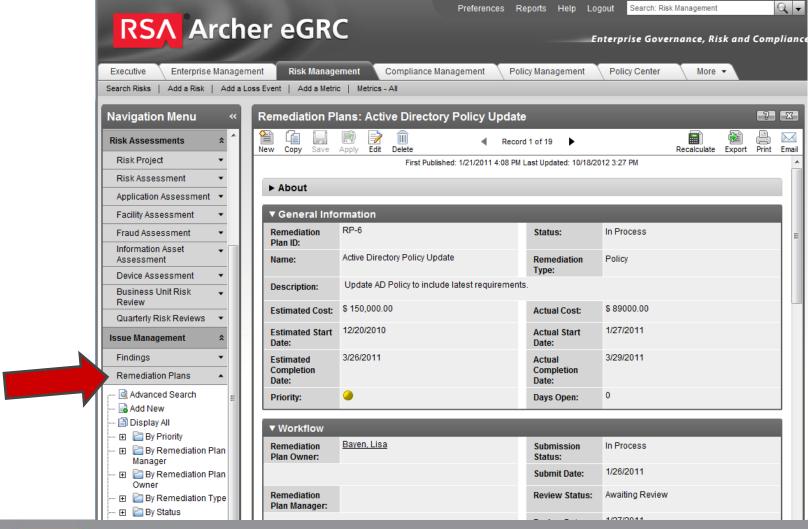
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#### Action Plan = RSA Archer Remediation Plan







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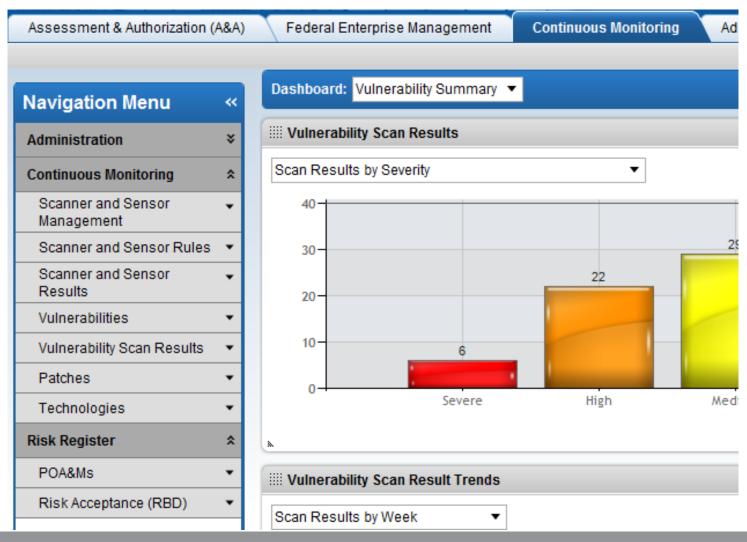
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### Continuous Monitoring - Automated





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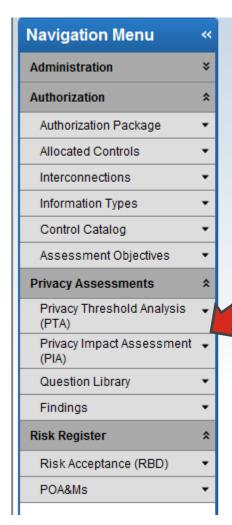
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### Augmenting Privacy Controls

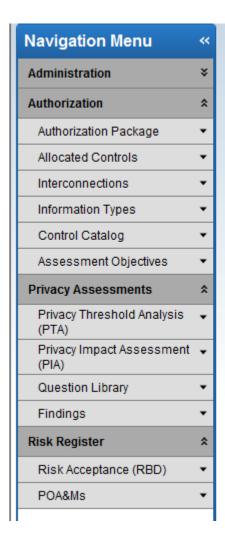


Privacy Impact Assessment (PIA): 208296				
21 of 21 Completed				
▼ Authorities and Other Requirements				
PIA-01:	List all legal authorities and/or agreements that permit the collection of info authorities permit the project and the collection of privacy information. If the identify the specific statutory authority allowing it.			
PIA-02:	What Privacy Act System of Records Notice(s) (SORN(s)) apply to the information			
PIA-03:	Has a System Security Plan (SSP) been completed for the Information System			
PIA-03a:	Enter the actual or expected ATO date from the associated authorization pa			
PIA-04:	Does a records retention schedule approved by the National Archives and			
PIA-05:	Is the information covered by the Paperwork Reduction Act (PRA)?			
▼ Characterization of the Information				
PIA-10:	What are the sources of the information and how is the information collected			
PIA-10b:	List the source(s) and explain why information from sources other than the			
PIA-11:	Does the project/system use information from commercial or public source			
PIA-11a:	Explain why and how the information is used.			





#### Augmenting Privacy Controls



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PIA-02:	What Privacy Act System of Records Notice(s) (SORN(s)) apply to the information			
PIA-03:	Has a System Security Plan (SSP) been completed for the Information System			
PIA-03a:	Enter the actual or expected ATO date from the associated authorization pa			
PIA-04:	Does a records retention schedule approved by the National Archives and			
PIA-05:	Is the information covered by the Paperwork Reduction Act (PRA)?			
▼ Characterization of the Information				
PIA-10:	What are the sources of the information and how is the information collected			
PIA-10b:	List the source(s) and explain why information from sources other than the			
PIA-11:	Does the project/system use information from commercial or public source			
PIA-11a:	Explain why and how the information is used.			

## Questions?

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# **THANK YOU**



