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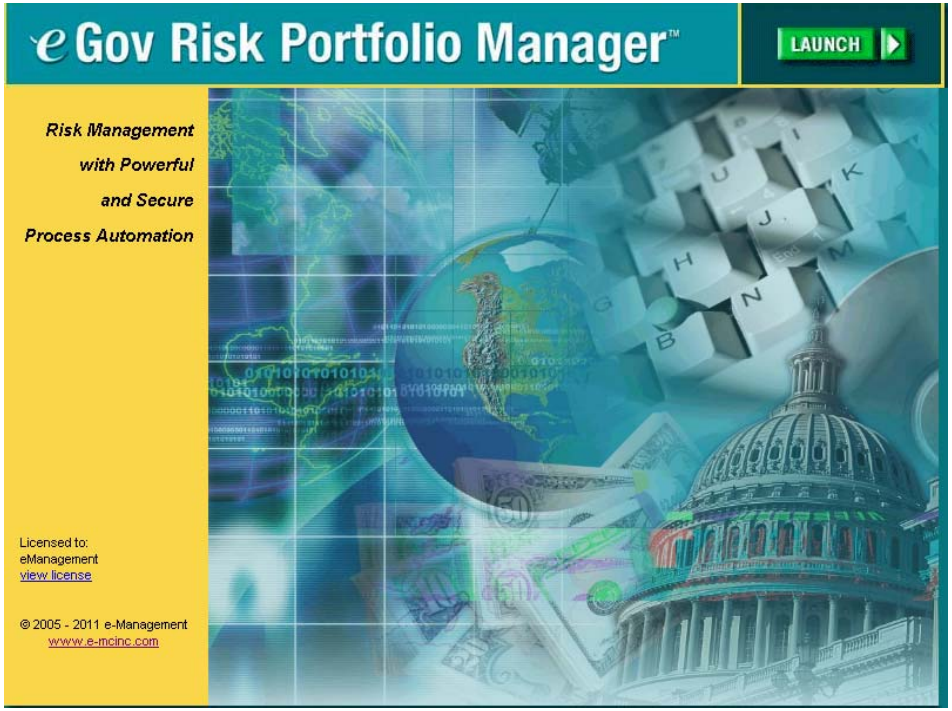
Risk Management:

Overview of e-Gov Risk Portfolio Manager™ (e-Gov RPM™) V4 for Under Secretary of Energy

March 2011

Today's Agenda

1) **eGov RPM and use at DOE EM**
2) **Overview of the capabilities of eGov RPM™**
3) **eGov RPM supports the Under Secretary of Energy's Program Cyber Security Plan (PCSP)**



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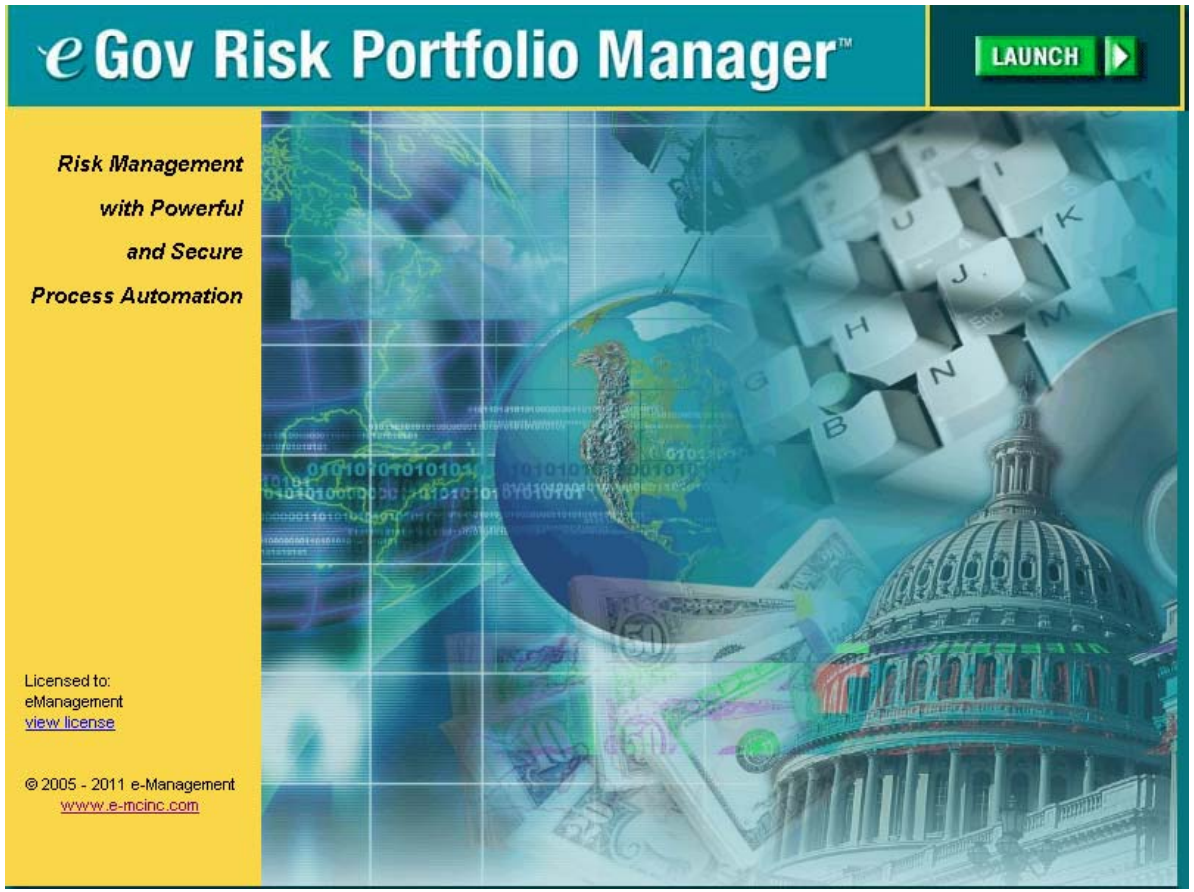
e-Gov Risk Portfolio Manager is a multi-user, web based tool used for continuous monitoring

Why use an automated tool for continuous monitoring?

- Consistent data capture
- Central repository to store data and information accessible via the Web
- Ease of reporting for management and auditors
- Automated control inheritance and control tailoring
- Makes the process easier



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r4

DOE EM and the Office of the Under Secretary of Energy Working Together

- Through collaboration, DOE EM and the Under Secretary of Energy have worked together to assess the Office of the Under Secretary of Energy's Continuous Monitoring requirements against eGov RPM capabilities

- EM has shared their implementation experiences, their resources, their lessons learned and their instance of eGov RPM with the Office of the Under Secretary team helping to maximize DOE's technology investments

Slide 4

r4 insert DOE logo on the headerline
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eGov RPM use at DOE EM

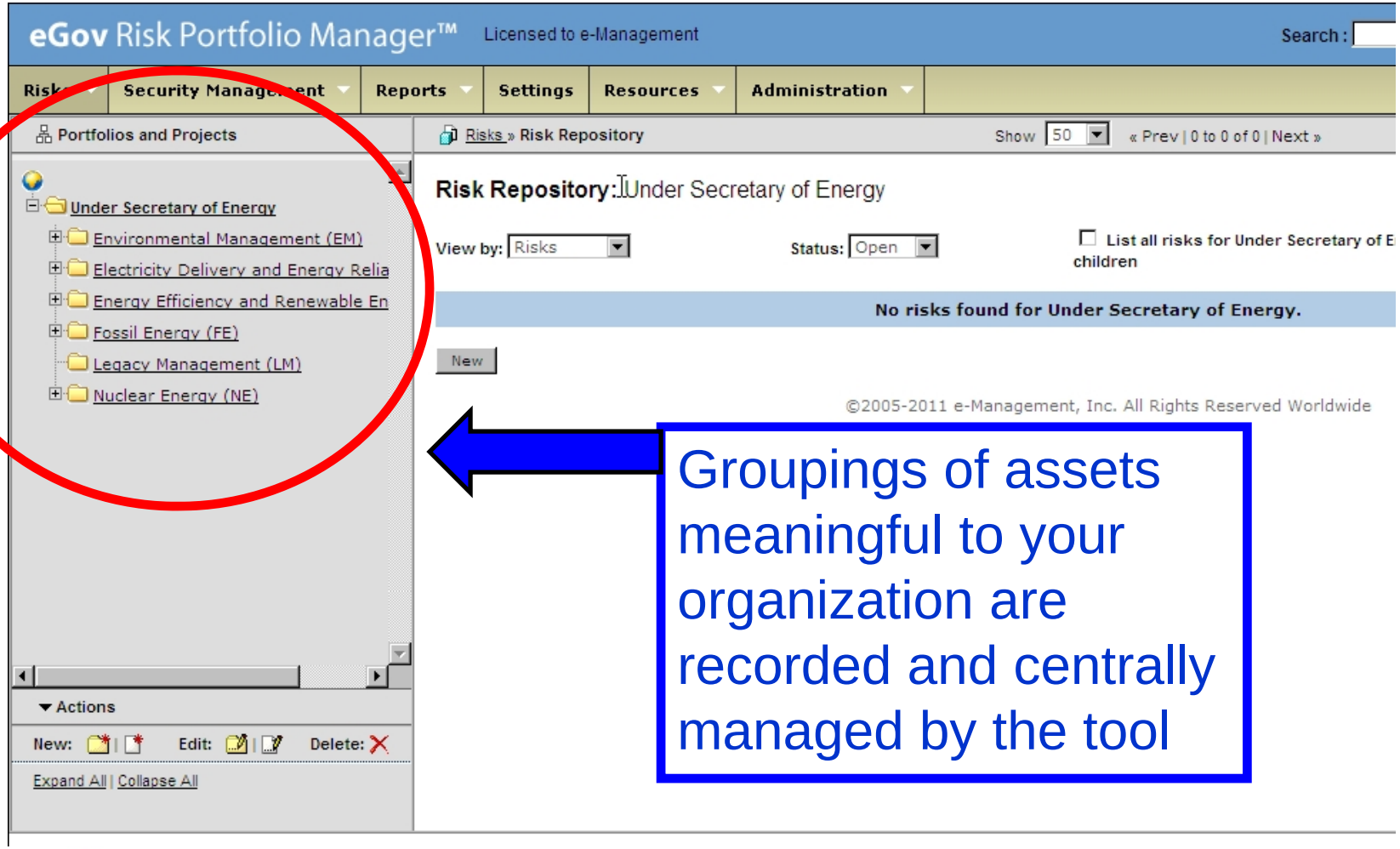
- DOE EM has been using eGov RPM to support cyber security and risk management

- At EM eGov RPM
  - Supports and makes the continuous monitoring effort easier and more efficient
  - Is the Central repository for data and artifacts
  - Reduces expenses during audits by providing auditors read only access to authorized portfolios
  - Enables an enterprise view of risks to allow management to focus on critical risks for better use of resources and funding

Key Features of eGov RPM

- Continuous Monitoring and tracking
  - System Security Plan
  - Risk Management
  - POA&M Management
  - Secure partitioned data views
  - CyberScope compatible exports
  - Multi-level control baseline inheritance and control tailoring
  - Tool pre-populated with NIST controls
- eGov RPM has been aligned with the Under Secretary of Energy's PCSP
- Customized reports that facilitate and support continuous monitoring Strategies

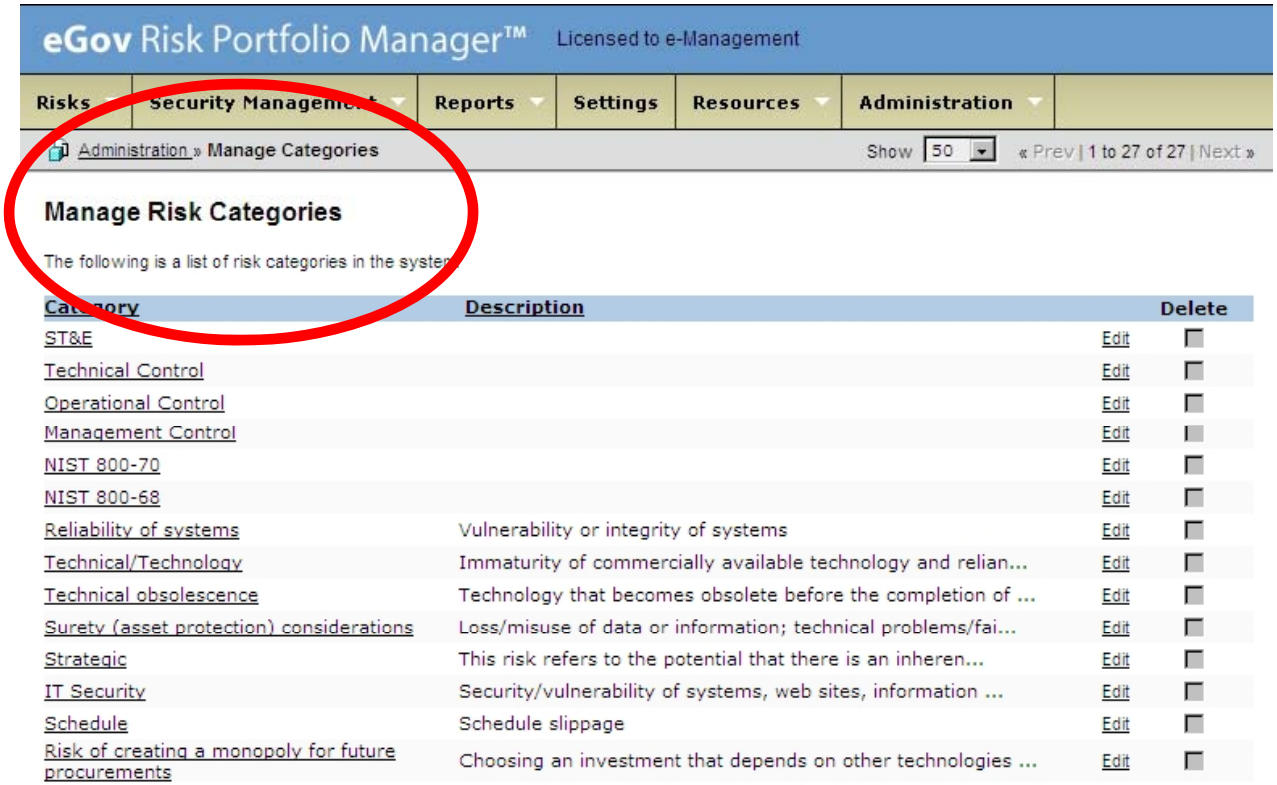
e-Gov RPM™ groups assets into ***portfolios*** which can represent accreditation boundaries, organizations, programs, or projects



Groupings of assets meaningful to your organization are recorded and centrally managed by the tool

Grouping risks by risk category

e-Gov RPM comes out of the box with a standard set of risk categories and also allow the organizations to add their own custom categories for tracking risks



eGov RPM Key Risk Features

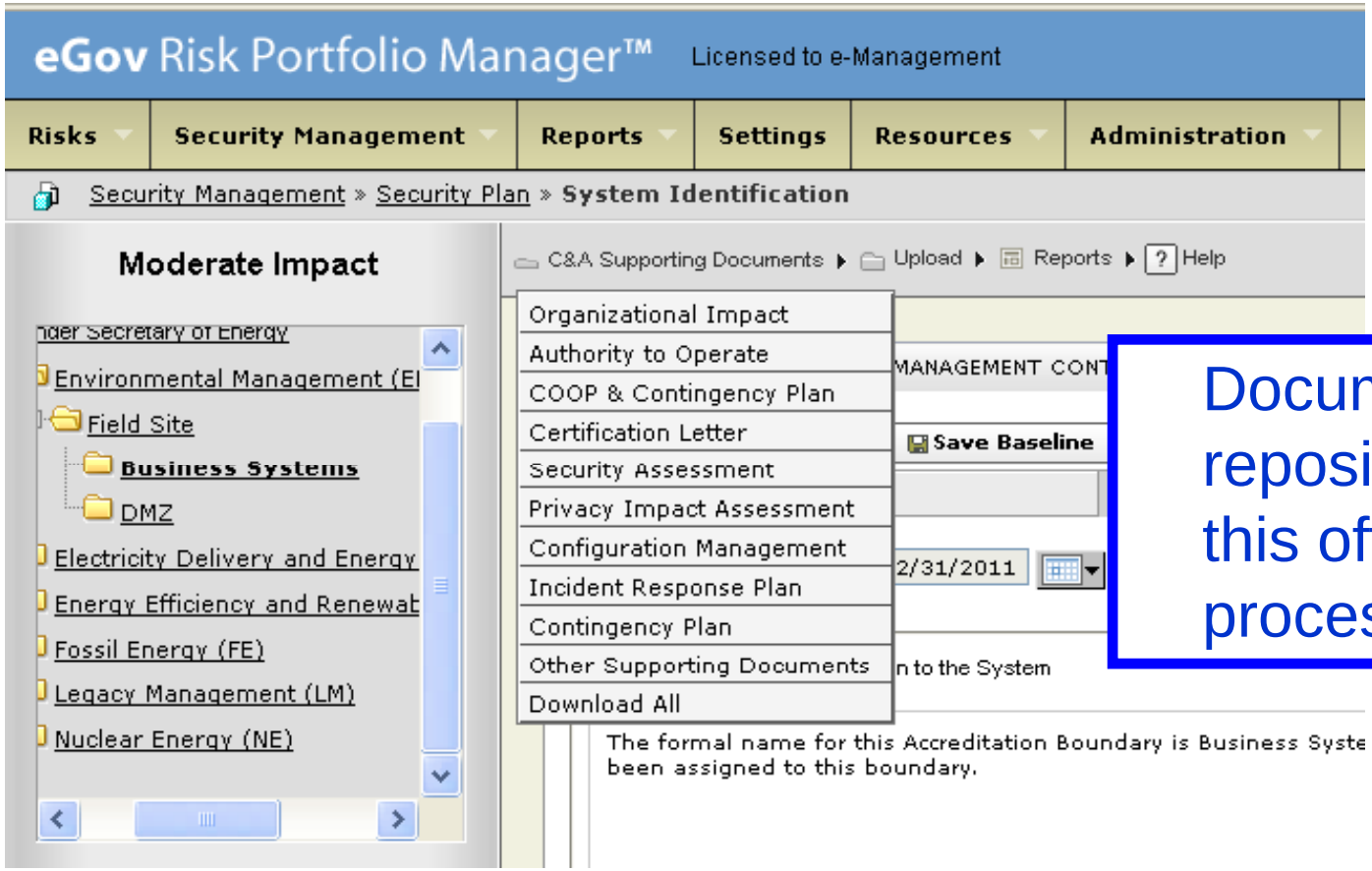
- Risks can be associated with NIST controls or defined **custom controls**
- Users can track and report on **residual risks**
- An **executive dashboard** of the organization's overall risk posture is available
- A **Derivative Classifier Review** function is available for reviewing aggregated data that together represent potentially sensitive information (Mosaic Effect)

- **Sources**, such as OMB Memoranda, DOE directives, GAO reports, or Audit reports can be used to identify risk details
- **Source ID numbers**, such as section numbers from standards or policies, can be associated with each risk
- **Assessor** roles can be customized
- **URLs** to other web sites containing additional risk information can be associated to each risk

eGov RPM supports the Under Secretary of Energy's PCSP

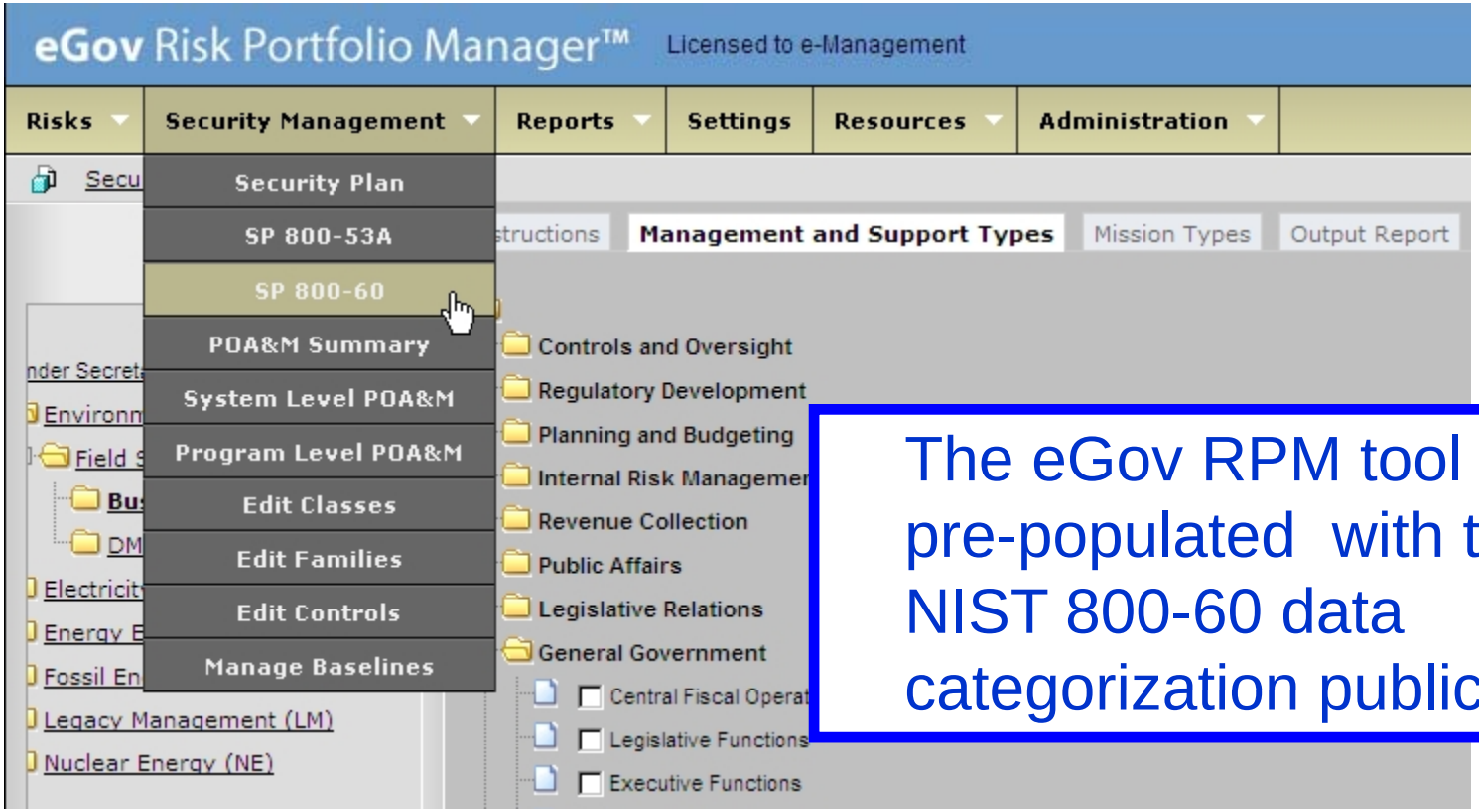
- Records the organizational impact level
- Categorizes the information system
- Enables a user with the proper permissions to select/tailor the baseline of security controls to include the CAG
- Helps the user implement the security controls
- Assesses security controls
- Authorizes the information system
- Monitors security controls
- Continuously monitor risks

Records the organizational impact level



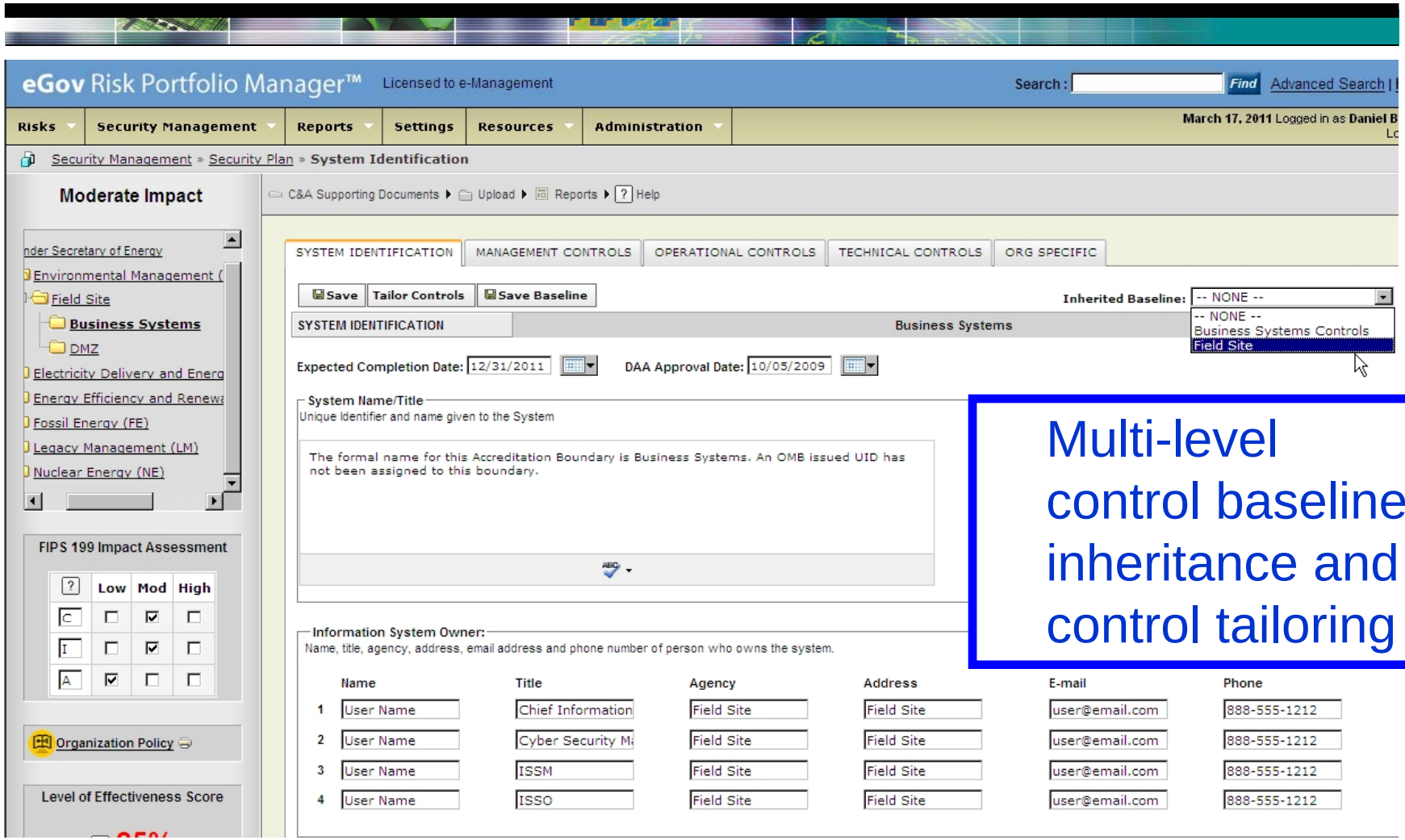
Document repository for this off-line process

Categorizes Information System

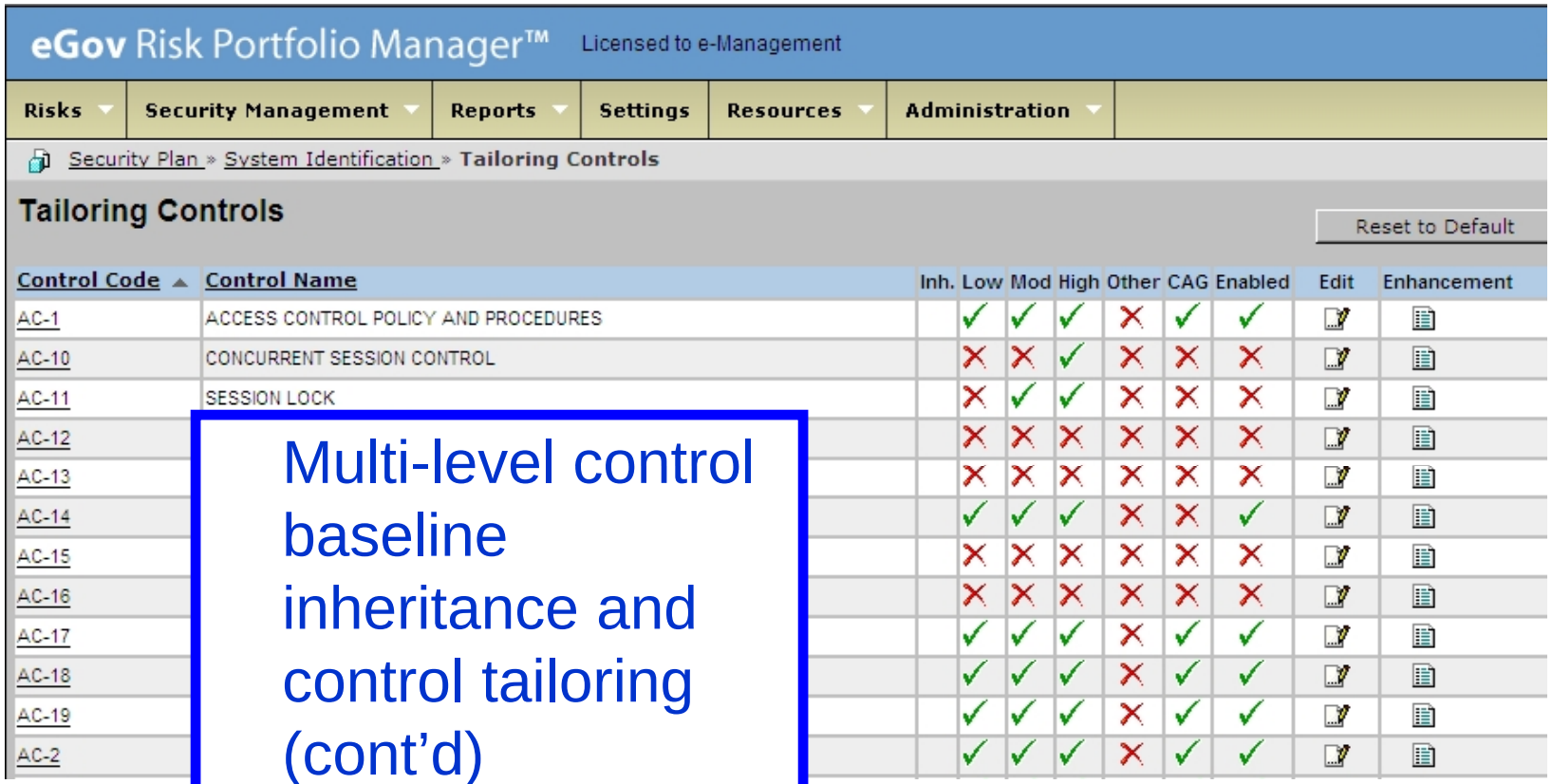


The eGov RPM tool comes pre-populated with the NIST 800-60 data categorization publication

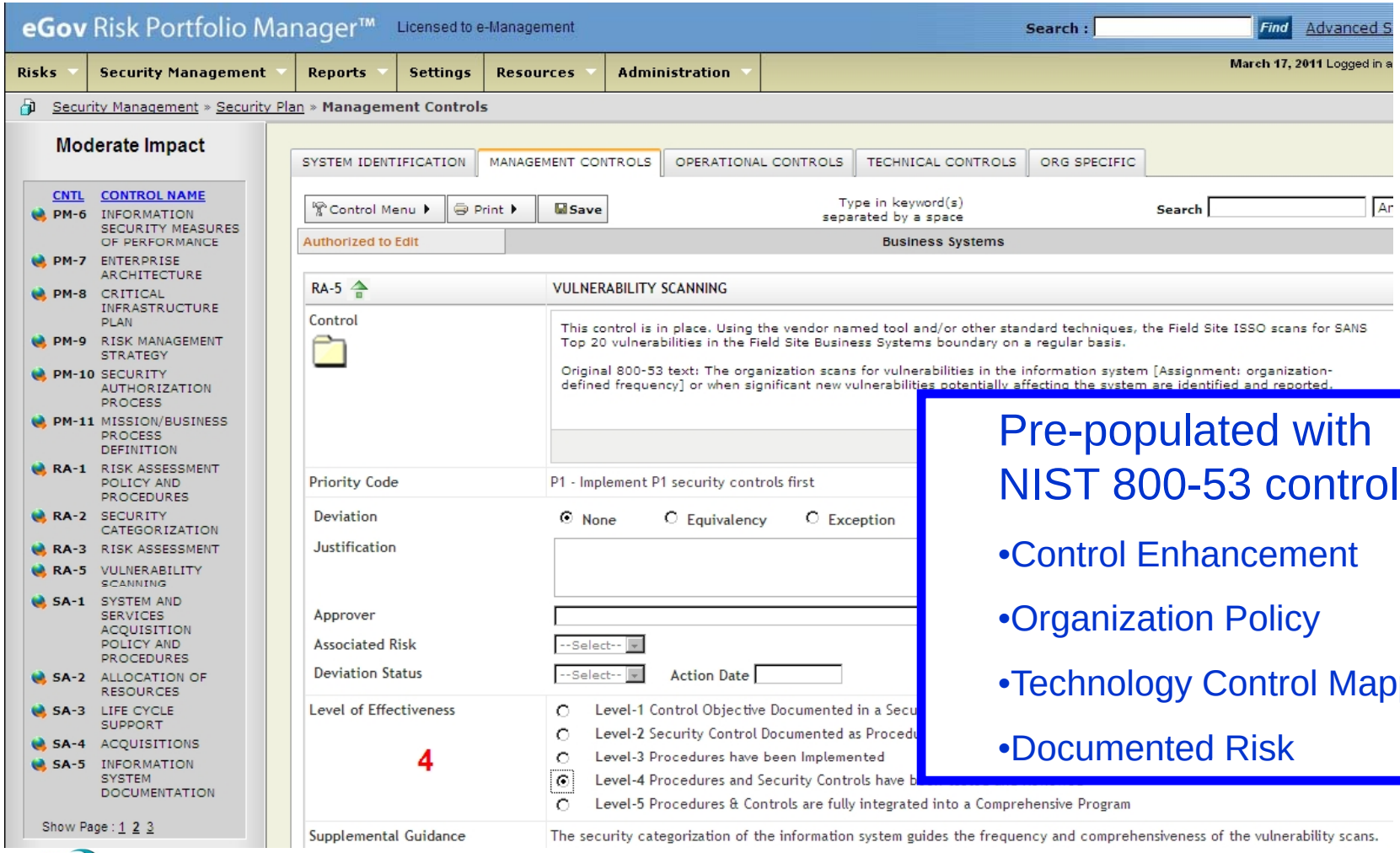
Enables a user with the proper permissions to select the applicable security controls



Enables a user with the proper permissions to select/tailor the baseline of security controls to include the CAG



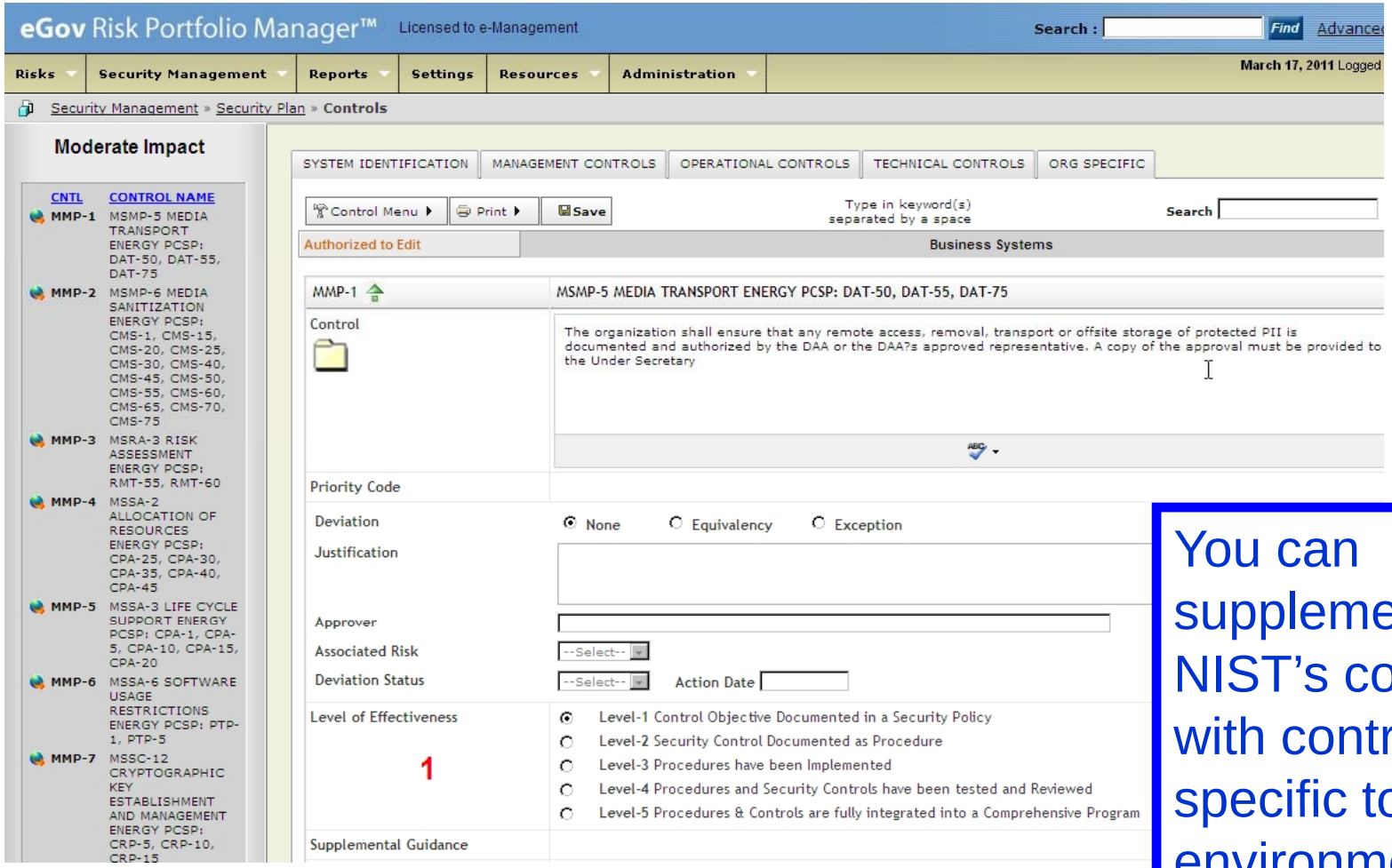
Helps the user implement the security controls



Pre-populated with NIST 800-53 controls

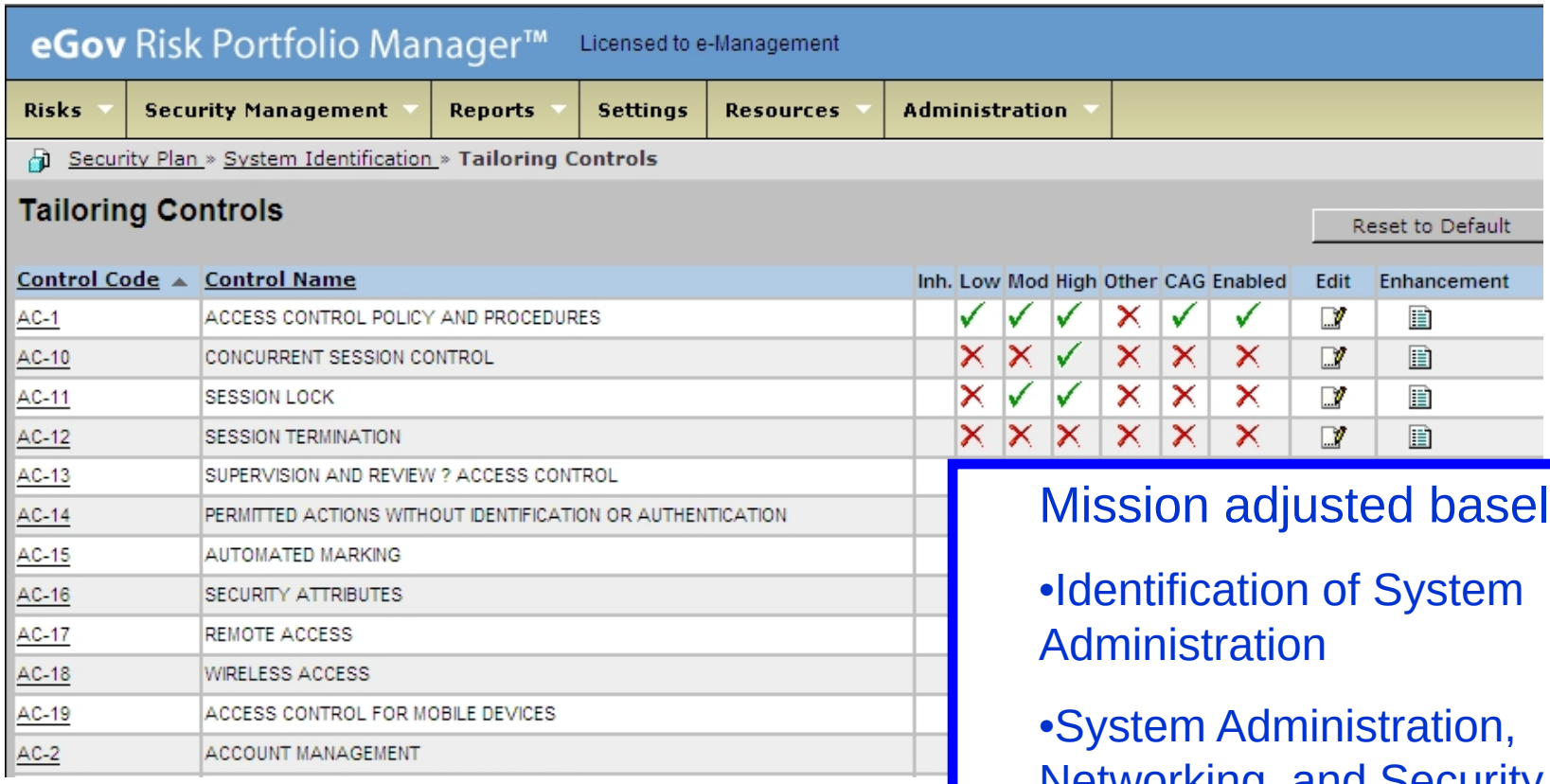
- Control Enhancement
- Organization Policy
- Technology Control Mapping
- Documented Risk

Helps the user implement the security controls (cont'd)



You can supplement NIST's controls with controls specific to your environment

Assesses security controls



Mission adjusted baseline

- Identification of System Administration
- System Administration, Networking, and Security Institute (SANS) Consensus Audit Guidelines (CAG)

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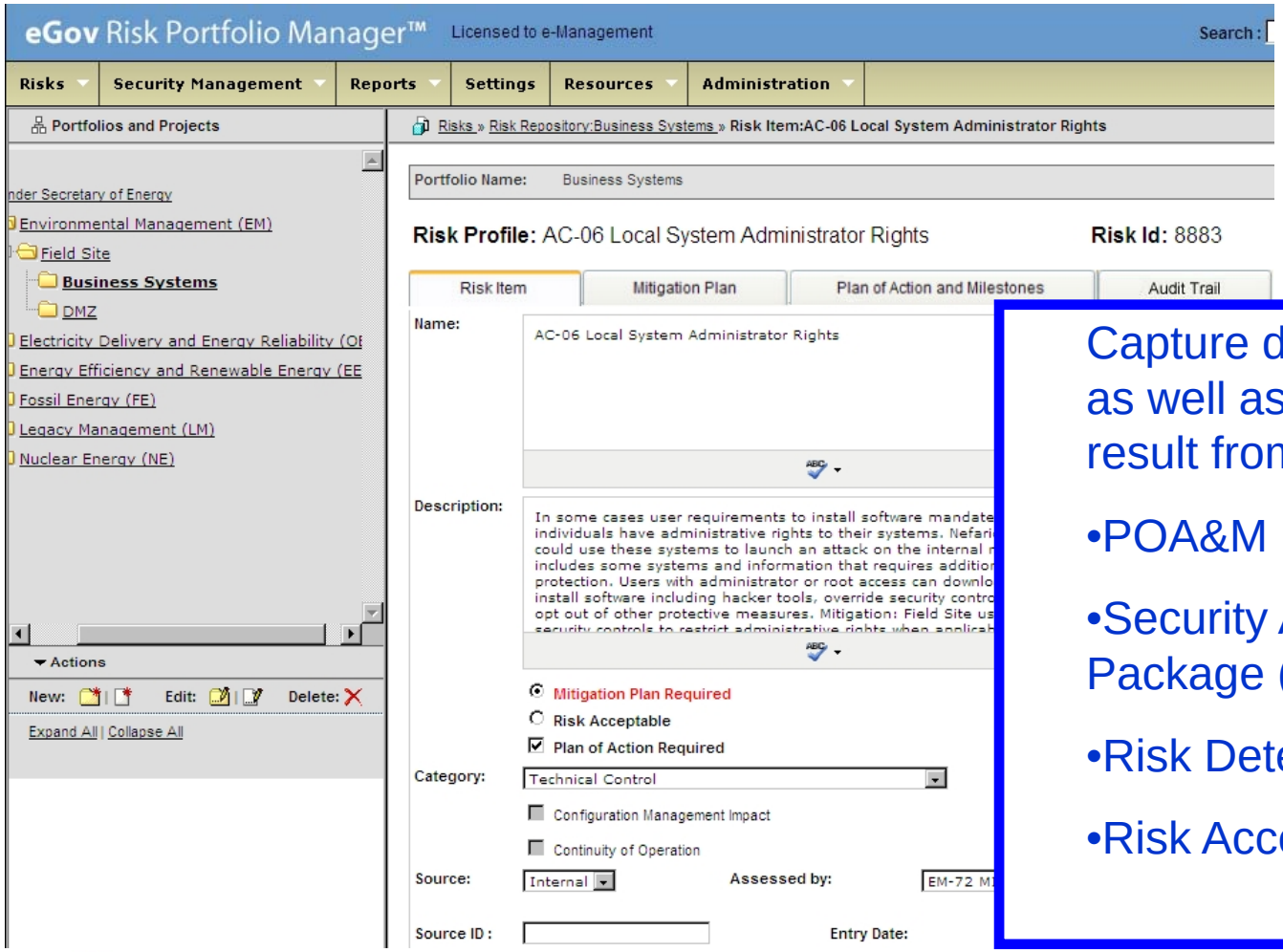
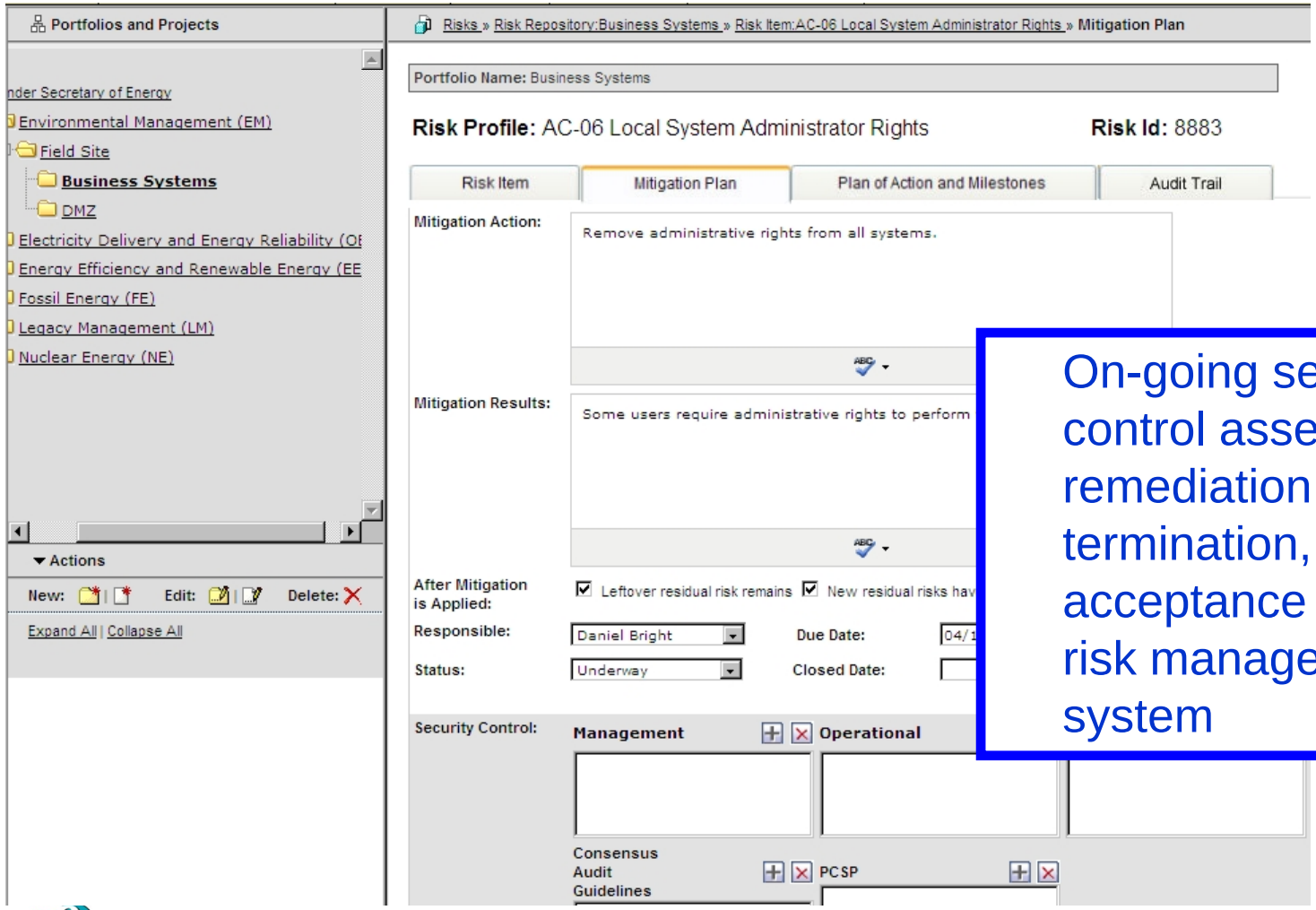
Authorizes the Information System



Capture data for reporting as well as artifacts that result from offline processes

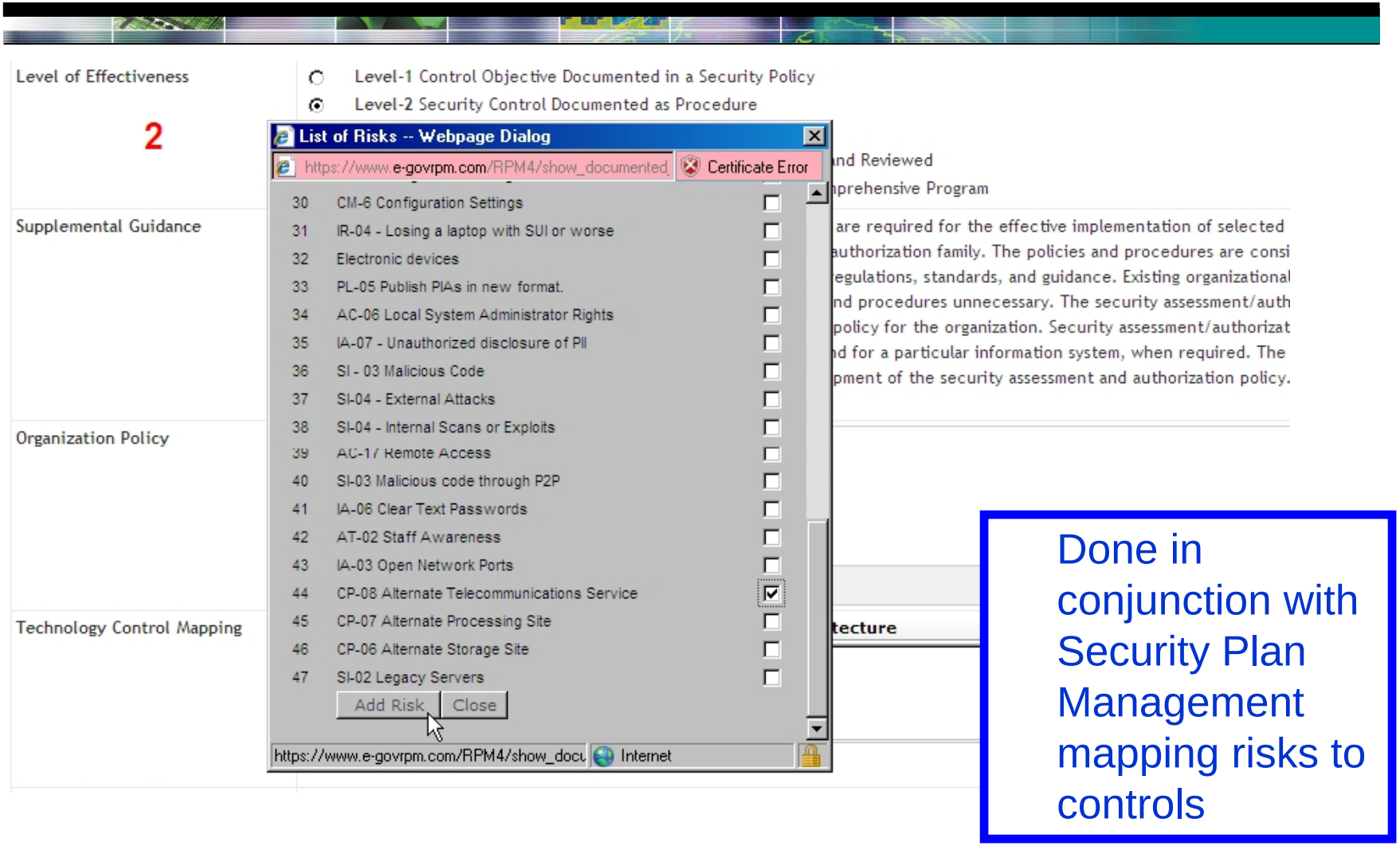
- POA&M
- Security Authorization Package (off-line)
- Risk Determination
- Risk Acceptance

Monitors Security Controls



On-going security control assessment, remediation, termination, and acceptance using the risk management system

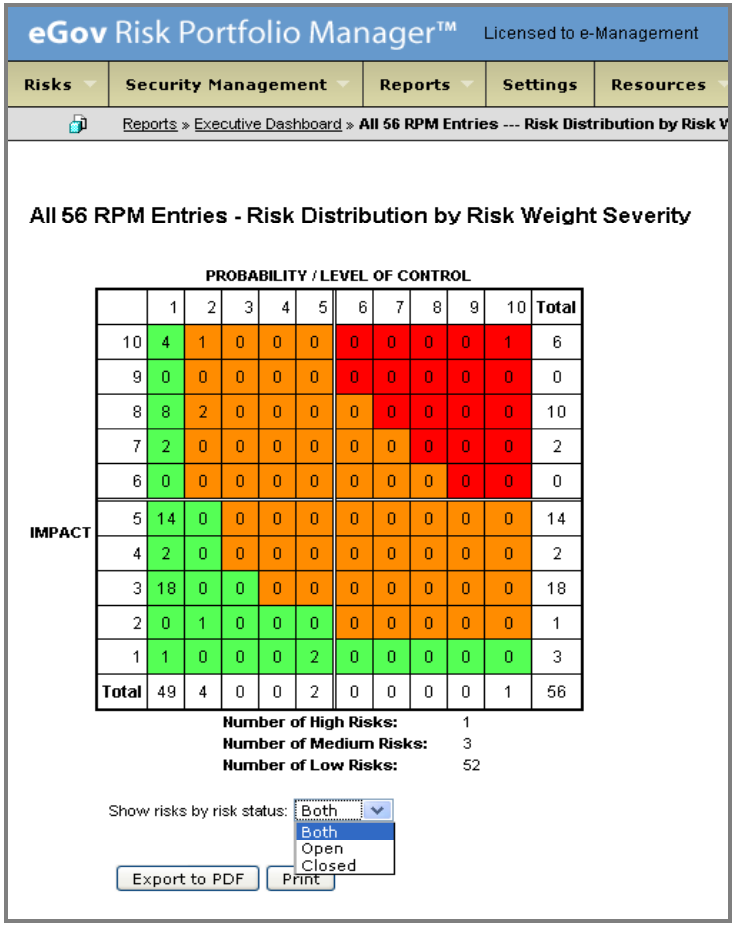
Monitors Security Controls (cont'd)



Done in conjunction with Security Plan Management mapping risks to controls

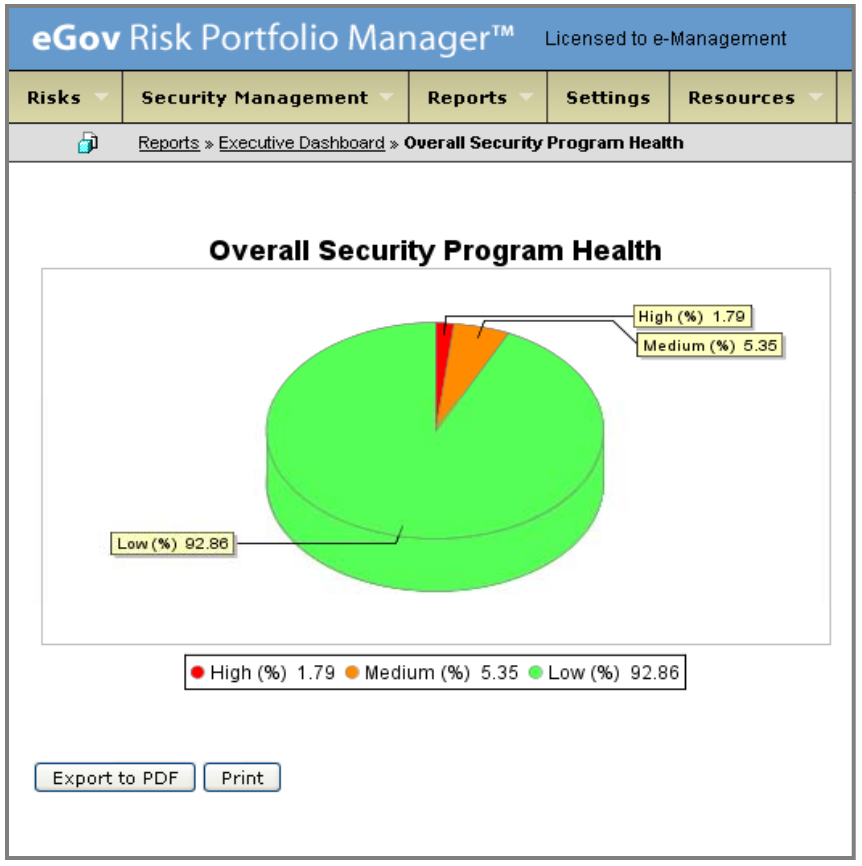
Reports in e-Gov RPM can be displayed in a variety of layouts or presentations

Risk Probability Matrix:

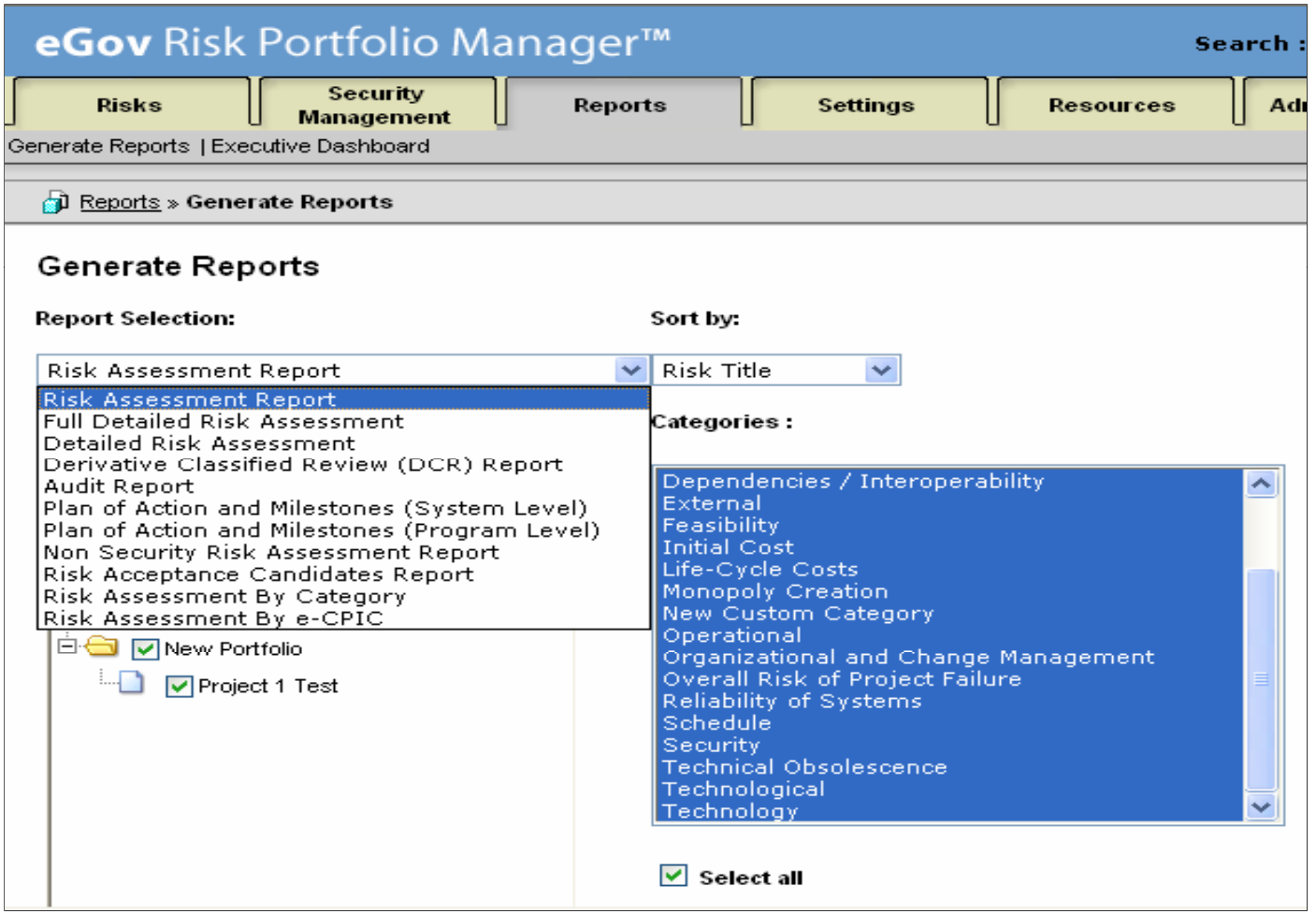


	1	2	3	4	5	6	7	8	9	10	Total
10	4	1	0	0	0	0	0	0	0	1	6
9	0	0	0	0	0	0	0	0	0	0	0
8	8	2	0	0	0	0	0	0	0	0	10
7	2	0	0	0	0	0	0	0	0	0	2
6	0	0	0	0	0	0	0	0	0	0	0
5	14	0	0	0	0	0	0	0	0	0	14
4	2	0	0	0	0	0	0	0	0	0	2
3	18	0	0	0	0	0	0	0	0	0	18
2	0	1	0	0	0	0	0	0	0	0	1
1	1	0	0	0	2	0	0	0	0	0	3
Total	49	4	0	0	2	0	0	0	0	1	56

Pie Chart Distribution:



e-Gov RPM™ provides multiple types of reports, at varying degrees of technical detail, to accommodate multiple audiences



Conclusions – **Why e-Gov RPM**?

- **Flexible tool to organize and manage Risks**: e-Gov RPM provides a powerful tool to organize and manage risks in many ways for accreditation boundaries, organizations, programs, projects or software applications

- **Drive compliance and eliminate redundancy:** e-Gov RPM's pre-populated NIST guidance provides an on screen reference to relevant information and the central repository of risk and security information provides uses access without duplication (e.g. risk management control inheritance)

- **Save many HOURS in document preparation time**: e-Gov RPM automates the generation of many time consuming data call and report preparation tasks, increasing accuracy and efficiency in reporting

- **Mature**: e-Gov RPM has been marketed as a product for more than 7 years, has gone through 3 major version upgrades and is used in several different risk management environments

- **Customized Report**: eGov RPM V4.0 leverages Crystal Reports to provide flexible reports that meet the customer's needs

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