Enterprise Dynamic Access Control (EDAC)

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**Title**: Enterprise Dynamic Access Control (EDAC) (Briefing Charts)

**Performing Organization**: Space and Naval Warfare Systems Center San Diego, Code 20012, San Diego, CA, 92152

**Abstract**: The original document contains color images.
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Outline

Access control background
  Access control lists
  Groups
  NIST RBAC standard

SEAC RBAC
  Customer furnished and maintained assets
  How it works
  Product overview
  Interoperability

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Access Control Lists (ACL)

User name or unique identifier associates access to resources

Project Tracker ACL

- Peter Smith
- Ed Jones
- Steve Hall
- John Doe

Project Tracker (resource)

Peter Smith

Project Tracker ACL

- Peter Smith
- Ed Jones
- Steve Hall
- John Doe

Project Tracker (resource)

Tim Watts

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Groups

User associated to a group and group associated to resources

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Essentials for resource access

Necessary requirement to access resources:

• Not a user name
• Not a unique identifier
• Not a group association

• List of user characteristics

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What are user characteristics

User characteristics (user profile)

• Where client works: organization
• What security credentials: clearance
• What pay category: pay grade
• What branch: service
• What vocation: job function
• etc
Examples of User Profiles

• User profile is a unique list of user characteristics.
• A client may have more than one user profile.
• User attributes should be compiled from an authoritative data source(s) on a real-time basis.

<table>
<thead>
<tr>
<th>Categories</th>
<th>COMPACFLT</th>
<th>USNR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organization:</td>
<td>CPF N65</td>
<td>Naval Intel</td>
</tr>
<tr>
<td>Clearance:</td>
<td>Secret</td>
<td>Top Secret</td>
</tr>
<tr>
<td>Paygrade:</td>
<td>DP3</td>
<td>02</td>
</tr>
<tr>
<td>Service:</td>
<td>DoD</td>
<td>DoNR</td>
</tr>
<tr>
<td>Function:</td>
<td>Program Manager</td>
<td>Intelligence</td>
</tr>
</tbody>
</table>

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Impact on resource access

The following can affect resource access:

• Transfer to another organization
• Loss of security clearance
• Change in job title
• Job promotion

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Problems with ACLs and Groups

Maintaining an updated ACL or group is time consuming.

Situation worsens when:

• Number of users increase
• Number of resources increase

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NIST RBAC compliance

Because of ACL and group limitations:

The National Institute of Standards and Technology (NIST) RBAC is an American National Standard - ANSI INCITS 359-2004 (approved 19 Feb 04)
Definitions:

**Users and Roles:** “…access decisions are based on the roles that individual users have as part of an organization.
"Access rights are grouped by role name…

**Role hierarchies:** "Under RBAC, roles can have overlapping responsibilities and privileges;

**Roles and Operations:** "Organizations can establish the rules for the association of operations with roles.

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## Access control comparison

How access control solutions can simultaneously evaluate user characteristics.

<table>
<thead>
<tr>
<th></th>
<th>Simultaneous evaluation of multiple object characteristics &amp; environmental hierarchies</th>
<th>Simultaneous evaluation of multiple object characteristic &amp; environmental hierarchies</th>
<th>Real-time detection of object characteristic changes, thus affecting resource access</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACLs</td>
<td>0</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Groups</td>
<td>1</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>EDAC</td>
<td>Unlimited</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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Relational database data duplicated on a directory service.

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Customer meta-database specifications

- Customer meta-database
- LDAP v3/DSML directory
- X500 class objects
  - organization
  - organizationalUnit
- Scalable
  - unlimited entries
  - modifications allowed
- Structure designation
  - domain
  - reference category
  - values
- Structure
  - flat
  - hierarchal
- Maintained
  - local commands
  - regional commands

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Customer meta-database domain

Domain consists of global and regional directories.

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User Profile Manager

User selects a profile to determine resource access. Mgmt constraints on user profile selections

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How the EDAC works

Step 1:
Resource manager establishes a set of conditions to access a resource.

These set of conditions represent a resource profile.

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How the EDAC works

Customer Meta-Database

Customer User Profile Manager Interface

Structure Format Service

Customer Personnel Database

Reference Categories: assignedCommand, N65, clearance, Secret, paygrade, GS3

User Profile:
ou=N65, ou=N6, ou=CPF, ou=assignedCommand, o=CPF
ou=secret, ou=confidential, ou=fouo, ou=clearance, o=Enterprise
ou=GS3, ou=GS2, ou=GS1, ou=Paygrade, o=Enterprise

Step 2: An effective RBAC requires real-time creation of user profile(s) from authoritative data source(s).

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How the EDAC works

Step 3:
The RBAC Rules Engine compares User and Resource Profiles to determine resource access.

User Profile
ou=N65, ou=N6, ou=CPF, ou=assignedCommand, o=CPF
ou=secret, ou=confidential, ou=fouo, ou=clearance, o=Enterprise
ou=GS3, ou=GS2, ou=GS1, ou=Paygrade, o=Enterprise

Repository Service

Project Tracker Resource Profile
ou=N65, ou=N6, ou=CPF, ou=assignedCommand, o=CPF
ou=secret, ou=confidential, ou=fouo, ou=clearance, o=Enterprise

Access token for Project Tracker

Customer Resource Database
- Project Tracker (resource)
- HR Service (resource)
- Payroll Application (resource)

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# EDAC – Resource profiles

<table>
<thead>
<tr>
<th>Resource Roles for Project Tracker</th>
<th>Resource Profiles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guest</td>
<td>CPF Guest</td>
</tr>
<tr>
<td></td>
<td>COMPACFLT</td>
</tr>
<tr>
<td></td>
<td>CSP Guest</td>
</tr>
<tr>
<td></td>
<td>COMSUBPAC</td>
</tr>
<tr>
<td></td>
<td>CNR Guests</td>
</tr>
<tr>
<td></td>
<td>COMAVNREG</td>
</tr>
<tr>
<td></td>
<td>DoD</td>
</tr>
<tr>
<td></td>
<td>Tuesdays 1700-2300</td>
</tr>
<tr>
<td>User</td>
<td>CPF N6 Users</td>
</tr>
<tr>
<td></td>
<td>CPF N6</td>
</tr>
<tr>
<td></td>
<td>Secret</td>
</tr>
<tr>
<td></td>
<td>CONTR</td>
</tr>
<tr>
<td></td>
<td>Mon &amp; Thurs 0800-1300</td>
</tr>
<tr>
<td>Administrator</td>
<td>CPF Admin</td>
</tr>
<tr>
<td></td>
<td>CPF N65</td>
</tr>
<tr>
<td></td>
<td>TS</td>
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<td>CONTR</td>
</tr>
<tr>
<td></td>
<td>Mon &amp; Thurs 0800-1300</td>
</tr>
</tbody>
</table>

- Resource roles
- Allow & Deny profiles
- Exact and subtree conditions
- Time constraints

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EDAC – Security levels

During INFOCON B

During INFOCON C

• Pre-configure conditions under each security level.
• RBAC Rules Engine evaluates only conditions for prevailing security level.

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EDAC – Model

EDAC standard initiative:

• Interchangeable modular access control components
• Minimum salient features
• Protocol between components
• Standard tie-ins between customer assets and access control system
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EDAC - Model

Customer furnished and maintained assets

Enterprise Dynamic Access Control (EDAC)

Condition Manager Service

Repository Service

Administrative Service

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EDAC - Model

Customer furnished and maintained assets

Enterprise Dynamic Access Control (EDAC)

Condition Deprecator Service

Condition Manager Service

Repository Service

Administrative Service

EDAC Process
(C) Condition deprecator Service - listens for CMD content changes and flags unmatched or unreachable conditions.

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EDAC Process
(D) Customer Environmental Interface - furnishes environmental updates.
EDAC - Model

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EDAC Process
(E) Customer Object profile manager Service - object characteristic compilation, selection and formatting.

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EDAC - Model

Enterprise Dynamic Access Control (EDAC)

Customer furnished and maintained assets
- Customer Personnel Database
- Object Profile Manager Service
- Customer Meta-Databse (CMD)
- Customer Portal
- Customer Resources (Applications)
- Environmental Interface(s)

EDAC Process
(F) Rules Engine Service - evaluates object and conditions to determine object resource access.

Structure Format Service
Condition Manager Service
Repository Service
Condition Deprecator Service
Administrative Service

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EDAC – Interoperability

EDAC interoperable among regions:

• Set conditional access for remote users
• Domain customer meta-databases
Pearl Harbor: resource profile created for local resource access.

Resource Profile CPF
CPF N651
Top Secret
GS12

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Pearl Harbor: local user profile is generated to access a local resource.

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Pearl Harbor: user and resource profiles are evaluated by rules engine to determine local resource access.

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Pearl Harbor: A resource profile to allow remote users access to local resources.

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EDAC - Interoperability

San Diego: user profile generated.

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EDAC - Interoperability

Pearl Harbor: San Diego user evaluated for Pearl Harbor resource access.

Resource Profile SD
- SD N651
- Top Secret
- GS12
- Developer

Condition Manager Interface

Enterprise customer meta-database

San Diego customer meta-database

SD User Profile
- SD N651
- Top Secret
- GS12
- Developer


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San Diego: same user evaluated for San Diego resource access.

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