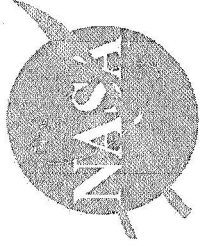


One NASA: Sharing Knowledge through an Agency-wide Process Asset Library (PAL)

This poster session will cover the key purpose and components behind implementing the NASA PAL website. This session will present the current results, describing the process used to create the website, the current usage measure, and will demonstrate how NASA is truly becoming ONE. The target audience for the poster session includes those currently implementing the CMMI model and looking for PAL adoption techniques.

To continue to be the leader in space, science and technology, NASA is using this agency-wide PAL to share knowledge, work products and lessons learned through this website. Many organizations have failed to recognize how the efforts of process improvement fit into overall organizational effort. However, NASA as an agency has adopted the benefits of process improvement by the creation of this website to foster communication between its ten centers. The poster session will cover the following topics outlined below:

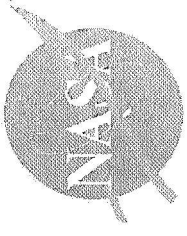
- Website purpose
- Characteristics of the website
- User accounts status
- Website content size
- Usage percentages



National Aeronautics and Space Administration (NASA)

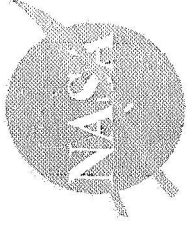
One NASA: Sharing Knowledge through
an Agency-wide Process Asset Library
(PAL)

Baraka J. Truss
NASA, Marshall Space Flight
Center
Flight Software Branch



Topics

- NASA PAL Background
- Website Purpose
- Characteristics of the Website
- Website Content Size
- Usage Percentages
- PAL Snapshots



NASA PAL Background

- The NASA PAL is a task of the Continuous Improvement subgroup of the NASA Software Working Group.
 - This subgroup is headed up by Jeff Phillips of Johnson Space Center.
 - Baraka J. Truss is a member of this subgroup.
 - This subgroup provided requirements for the NASA PAL.

- Marshall Space Flight Center (MSFC) developed, piloted, and administers the PAL website.



Website Purpose

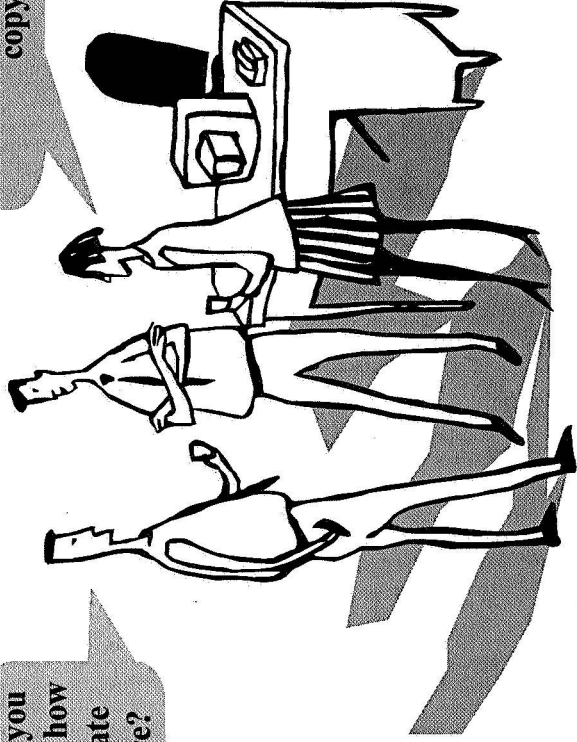
- The purpose of the NASA PAL website is to provide relevant software engineering information to the NASA software community.
- The NASA PAL has two goals:
 - Encourage sharing of software engineering assets within the agency.
 - Provide a repository of software engineering assets.

Work scenario Before the Process Asset Library (PAL)

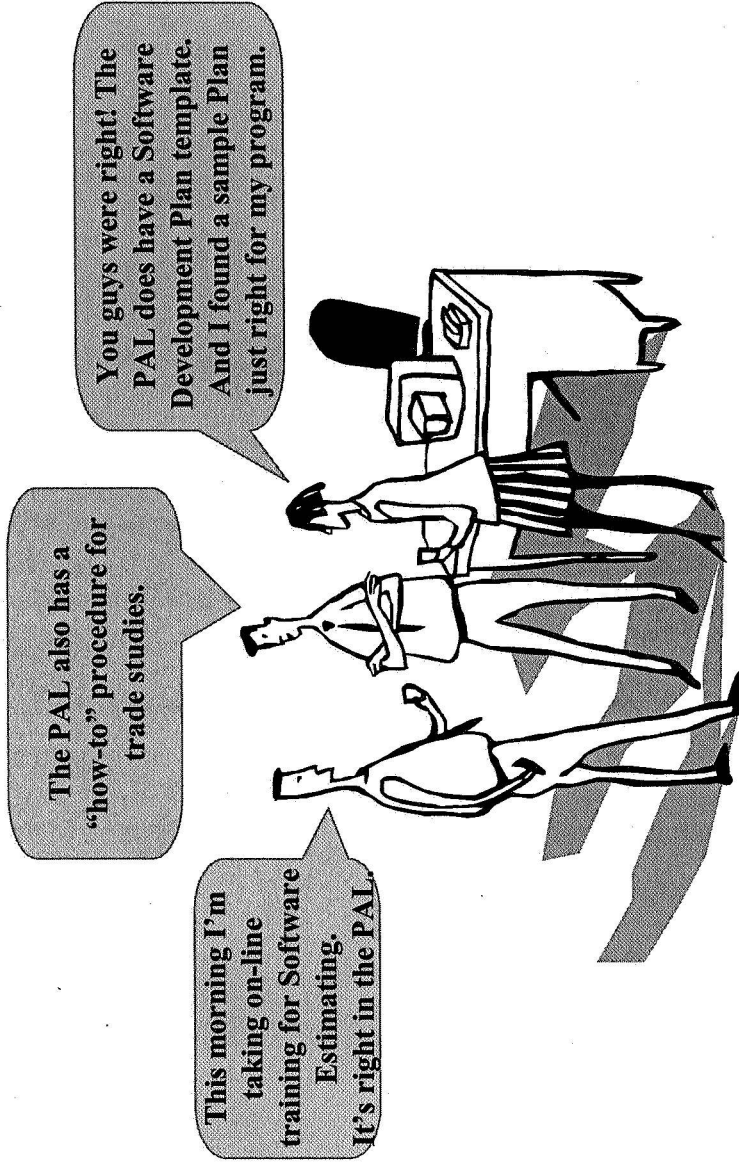
I have to do a trade study for these COTS tools, and I have no idea how to get started!

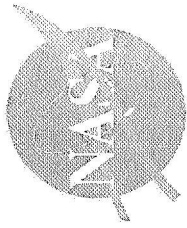
Either of you two know how to estimate software?

I've got to write a Software Development Plan. Anybody got one I can copy?



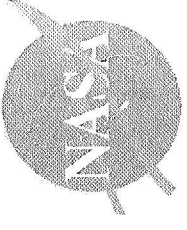
Work scenario After the development of the PAL





Characteristics of the Website

- o The PAL website is based on a free, open-source content management system.
- o The Uniform Resource Locator is <http://swpal.nasa.gov> and it is accessible only from within the 10 NASA centers.
 - Hosted on a MSFC server under approved Information Technology security plan.
- o Minimal customization of the "out-of-the-box" allows for easy development/maintenance.
- o Anonymous users of the site, i. e., *without login*, can browse, view, search, and download all published content.



Website Content Size

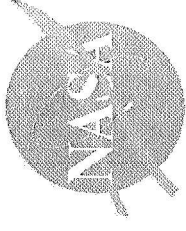
- There are approximately 250 files/documents loaded on the PAL. Additionally, there are many links to both internal and external sources.

- The PAL has multiple views including:
 - by software lifecycle phases
 - by software engineering/documentation categories
 - by agency-wide products/policies
 - by individual NASA center
 - by Capability Maturity Model Integration (CMMI) process areas



Content Categories

- **Life-Cycle**
 - contains sub-folders for content related to software lifecycle areas, as suggested by the NASA PAL Website Requirements
- **Category**
 - contains sub-folders for content related to types of software documentation
- **Agency**
 - contains sub-folders for content related to agency-level software standards, policy, requirements
- **Center**
 - contains sub-folders for content that are provided by each of the 10 NASA centers
- **CMMI**
 - contains sub-folders for documentation for implementation in the CMMI staged Level 2 and 3 Process Areas



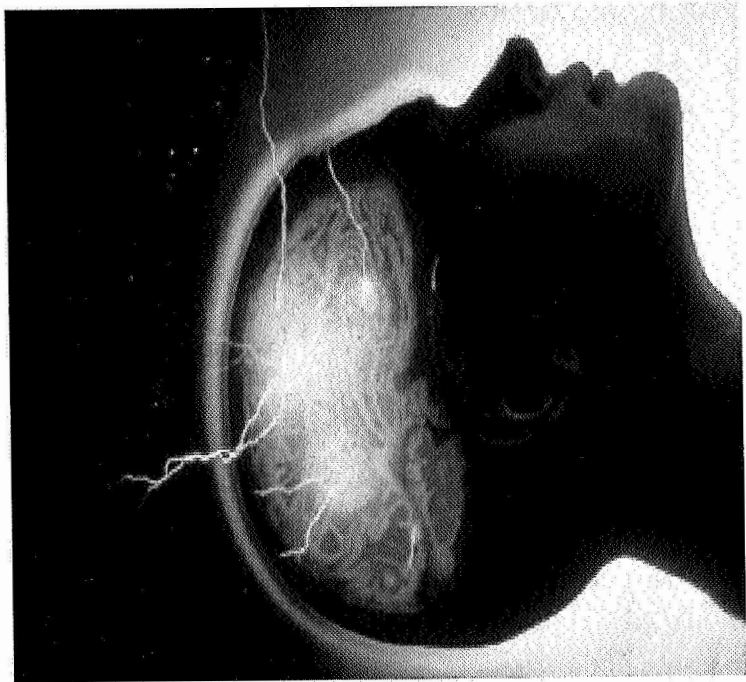
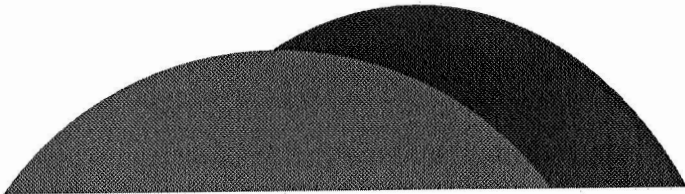
Usage Percentages

There have been over 6100 visits to the PAL website since the first part of February, 2005. Percentages of visits to the major tabs or folders are:

- Home only - 16%
 - Lifecycle - 14%
 - Category - 10%
 - Agency - 7%
 - Center - 39%
 - CMMI - 13%
 - Feedback - 1%
- These percentages are flawed, to some degree, in that the counters increment for all visits, e. g. the administrator. However, they give some indication of use.

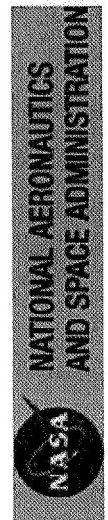
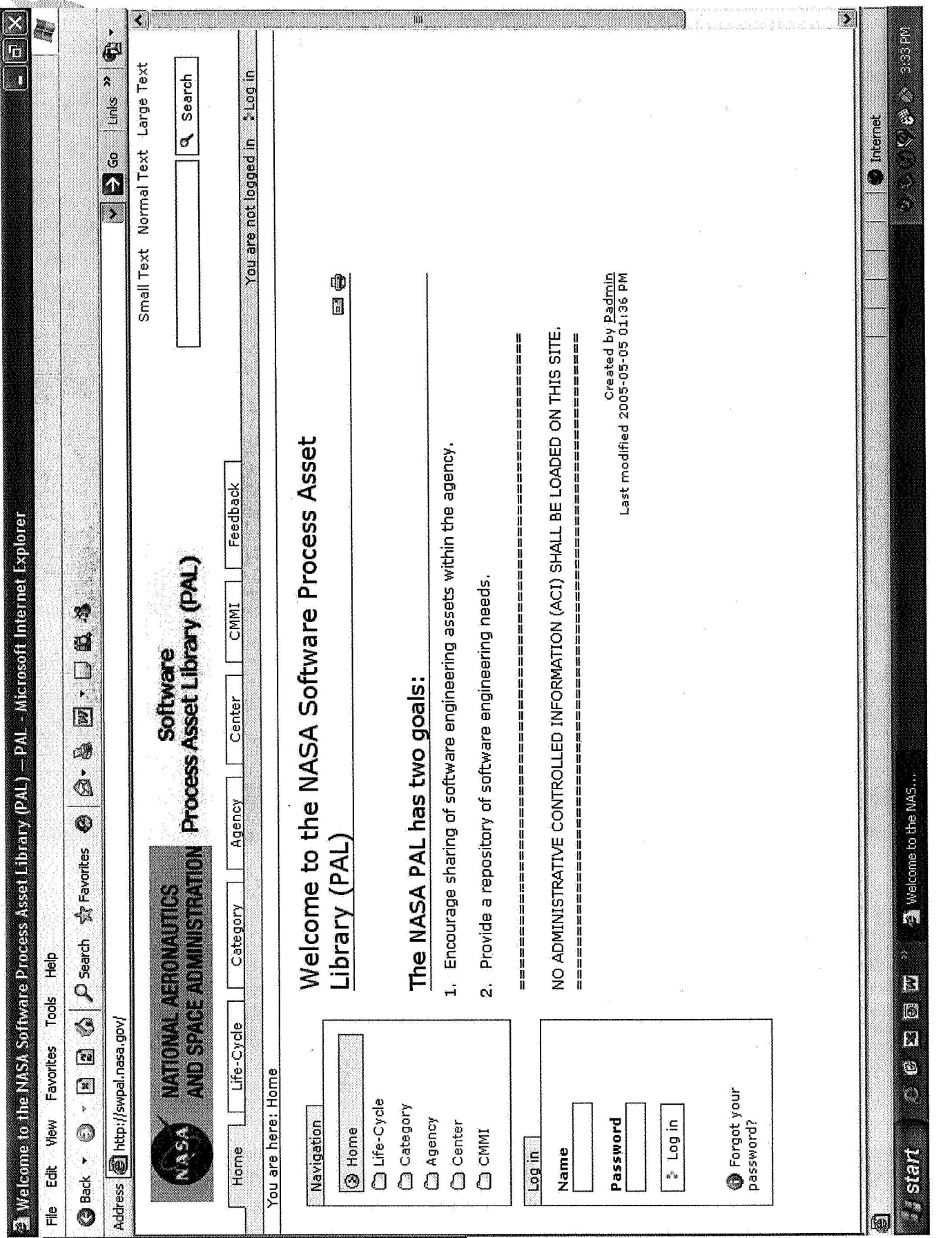


One NASA: Sharing Knowledge through an Agency-wide Process Asset Library (PAL)



Snapshots

Snapshots



Software Process Asset Library (PAL)

Small Text Normal Text Large Text Search

You are not logged in Log in

You are here: Home

Navigation

- [Home](#)
- [Life-Cycle](#)
- [Category](#)
- [Agency](#)
- [Center](#)
- [CMMI](#)

Log in

Name

Password

[Forgot your password?](#)

Welcome to the NASA Software Process Asset Library (PAL)

The NASA PAL has two goals:

1. Encourage sharing of software engineering assets within the agency.
2. Provide a repository of software engineering needs.

NO ADMINISTRATIVE CONTROLLED INFORMATION (ACI) SHALL BE LOADED ON THIS SITE.

Created by Padmain
Last modified 2005-05-05 01:36 PM

Life-Cycle

Up one level

- System/Subsystem Definition
- Software Management
- Software Acquisition
- Software Requirements
- Software Design
- Software Implementation/Coding
- Software Test
- Software Delivery
- Software Operations/Maintenance

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Software Process Asset Library (PAL)

Home Life-Cycle Category Agency Center CMMI Feedback

You are here: Home » Category

Navigation

- Home
- Life-Cycle
- Category**
- Requirements
- Checklists
- Compliance Matrices
- Software Surveys
- Handbooks and Guides
- Development and Coding Guidelines
- Studies and Reports
- Software Project Management
- Software Cost Estimation
- Project-Defined Processes
- NASA Center Specific

Category

▲ Up one level

- Requirements
- Checklists
- Compliance Matrices
- Software Surveys
- Handbooks and Guides
- Development and Coding Guidelines
- Studies and Reports
- Software Project Management
- Software Cost Estimation

Agency
▲ Up one level

- Navigation
 - Home
 - Life-Cycle
 - Category
 - Agency**
 - Standards
 - Policies
 - Tools
 - Guidebooks
 - Center
 - CMMI
- Standards
The Standards folder contains agency-level software standards.
- Policies
- Tools
- Guidebooks

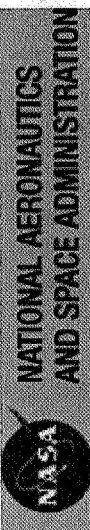
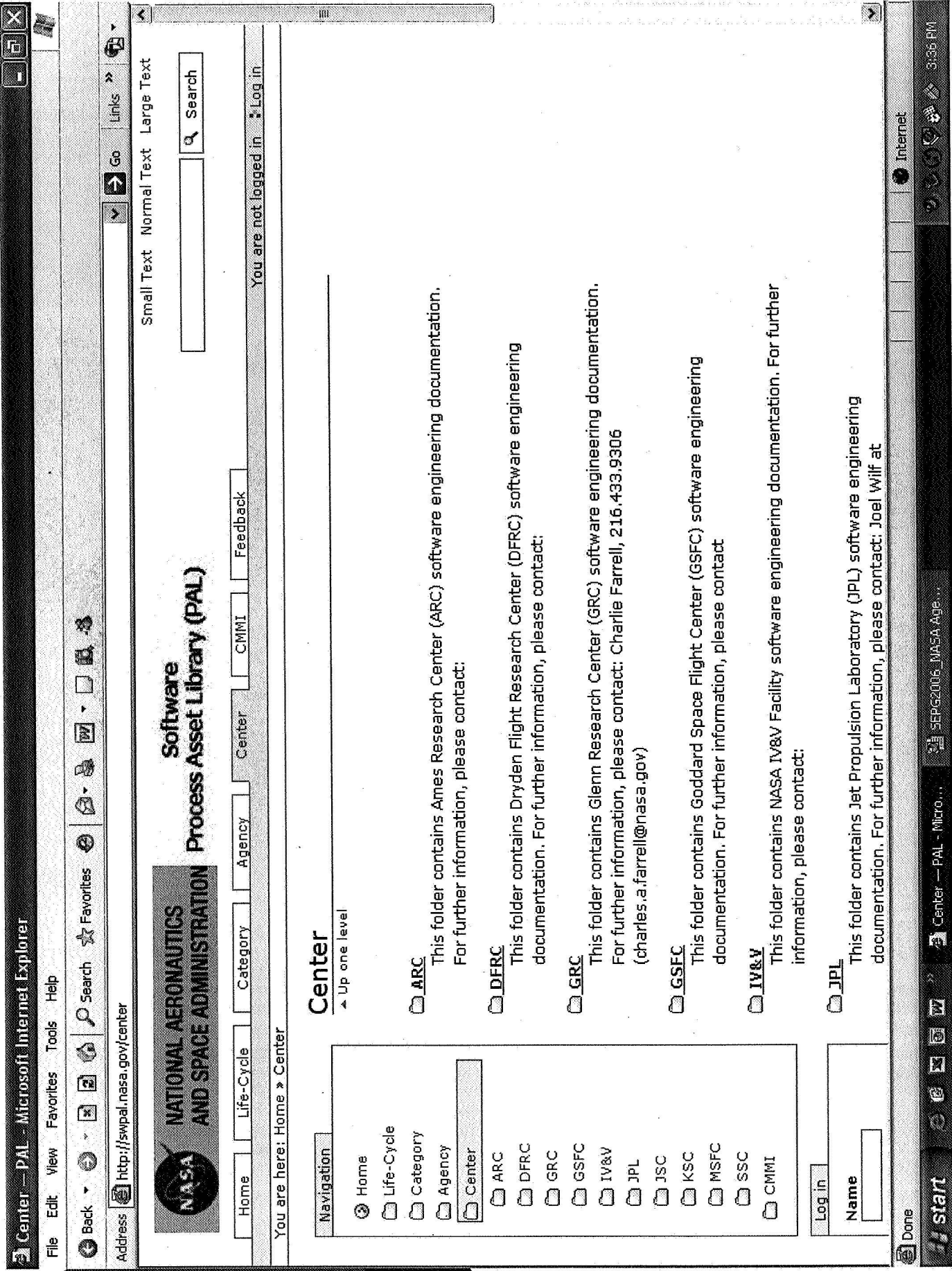
Log in

Name

Password

Log in

Forgot your password?



Software Process Asset Library (PAL)

Home Life-Cycle Category Agency Center CMMI Feedback

Small Text Normal Text Large Text

Search

You are not logged in Log in

You are here: Home » Center

Center

Up one level

- Home
- Life-Cycle
- Category
- Agency
- Center
- ARC
- DFRC
- GRC
- GSFC
- IV&V
- JPL
- JSC
- KSC
- MSFC
- SSC
- CMMI

- ARC** This folder contains Ames Research Center (ARC) software engineering documentation. For further information, please contact:
- DFRC** This folder contains Dryden Flight Research Center (DFRC) software engineering documentation. For further information, please contact:
- GRC** This folder contains Glenn Research Center (GRC) software engineering documentation. For further information, please contact: Charlie Farrell, 216.433.9306 (charles.a.farrell@nasa.gov)
- GSFC** This folder contains Goddard Space Flight Center (GSFC) software engineering documentation. For further information, please contact:
- IV&V** This folder contains NASA IV&V Facility software engineering documentation. For further information, please contact:
- JPL** This folder contains Jet Propulsion Laboratory (JPL) software engineering documentation. For further information, please contact: Joel Wilf at

Log in Name



You are here: Home > CMMI

CMMI

▲ Up one level

Navigation

- Home
- Life-Cycle
- Category
- Agency
- Center
- CMMI**
- Maturity Level 2 Process Areas
- Maturity Level 3 Process Areas

Maturity Level 2 Process Areas

Maturity Level 3 Process Areas

Log in

Name

Password



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Software Process Asset Library (PAL)

- Navigation
- Home
 - Life-Cycle
 - Category
 - Agency
 - Center
 - CMMI
 - Feedback

Home Life-Cycle Category Agency Center CMMI Feedback

You are here: Home » Feedback

Feedback

Please provide comments on the PAL. Just click the "Add Comment" button to start a new discussion (thread) or click the "Reply to this" button to add a comment in an ongoing thread. The Administrator of the website will periodically remove old and inactive threads.

You must have an account/password and be logged in to provide comments.

[Log in to add comments](#)

Log in

Name

Password

[Forgot your password?](#)

Feedback

This method of providing feedback on this PAL website requires login. Is this too restrictive? Currently, only those users designated for loading content have (or will have) accounts. All others, on-site at the NASA centers, may view content.

Replies to this comment

- [Restrictive comments](#) (Posted by whitech at 2005-04-13 09:16 AM)
- [Problem](#) (Posted by gsettle at 2005-04-13 09:26 AM)

Cost Estimator

I downloaded the cost estimator and the application seems to work great!! Bob Stevens

Posted by gsettle at 2005-04-13 09:08 AM

Posted by stevenl at 2005-04-26 01:22 PM

Small Text Normal Text Large Text

You are not logged in [Log in](#)



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