

# Lockheed Martin Space Systems Company FLEXnet Manager Installation

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# Before Upgrade

- Used SamReport for Years
- Why Change?
- Needed to Read Log Files from New Vendor Daemons
  - Researched Other Vendors
  - No One Could Read Usage Logs



# SamReport to FLEXnet Manager

- Recommend Expert Assistance
  - Use Project Management Methodology to Keep Project On Track
    - Start Each Day With A Plan
    - End Each Day With Status And Plan For The Next Day
  - Know Who To Call If More Help is Needed
  - Be Flexible in the Face of Unexpected Surprises



# Upgrade Process

- Installed FNM In August 2007
  - Took About An Hour
    - Dashboard
    - Report Database
  - Spent The Rest Of The Week
    - Installing Agents On 20+ License Servers Across The US
    - Defining Processes
    - Access Decisions
  - Chose To Wait For Memphis Release To Configure Reports



# Alerts

- Dashboard Gives Near Instant Alert When Daemon Or Agent Is Down
  - Contact Server Admin To Restore Service



# Our Responsibilities

- Centralized Engineering Tools Sustainment Organization Provides
  - Applications
  - License Management
  - User Support
  - Procurement
- For
  - Major Sites in Denver and California
  - Smaller Sites Across US



# FNM Installations

- Central License Servers
- Other License Servers/Networks That Meet Criteria
  - Local License Servers
  - Local Networks



# Who Uses Data

- License Managers
  - Managing Needs Across Networks
  - Renewals
  - Solving Access Problems
- Upper Management
  - Big Picture
  - Major Purchase Approvals
  - Major Project Approvals





# Hardware Environment

- Dashboard
  - Windows Server
  - Managed by Server Farm
- Log File Database
  - Windows
  - Local Server
- Report Database
  - Windows
  - Local Server



# Log Files: Diamonds in the Rough

- Collected From Each Server Monthly
  - Automation Preferred
  - Some Require Manual Transfer
- Retain 3 Years Historical Data



# Use Log File Data

- Create Reports
  - Static
  - Live Data
  - One Time



# Applications Used to Generate Charts

- SamReport
- Excel
- FLEXnet Manager



## Usage Info...

- Basis for Static Charts for Management Reporting
- Daily Operation Visibility

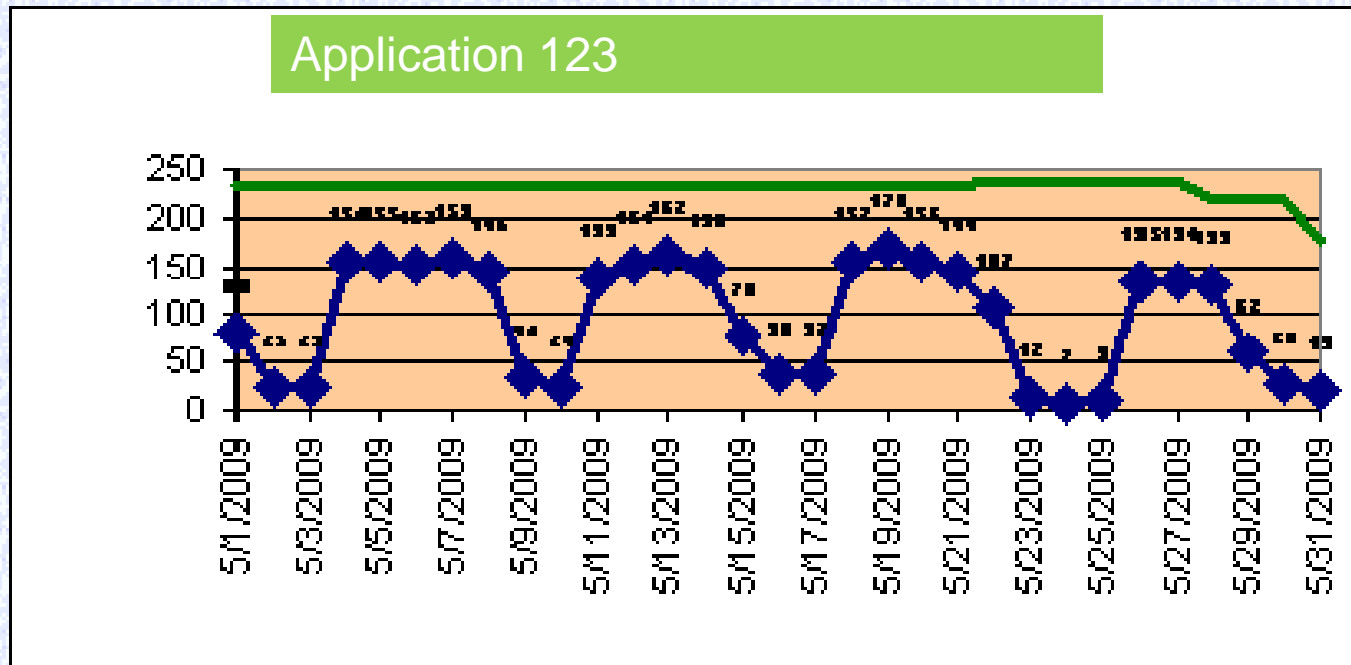


# Static Charts

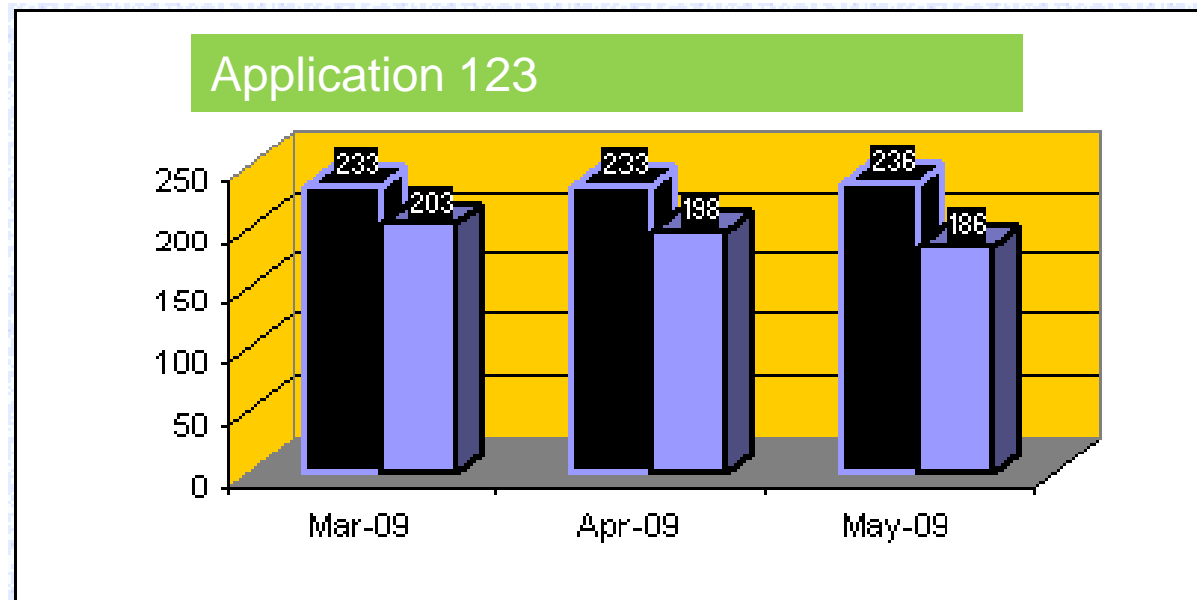
- Usage Data Charted for Management Reporting
  - MTD, Rolling Quarter, Rolling Year
  - Documents Significant Cost Savings Each Year
  - Provides Hard data to support
    - Current Budget
    - Audits
    - Requests for Increased Budget



# Current Month Example

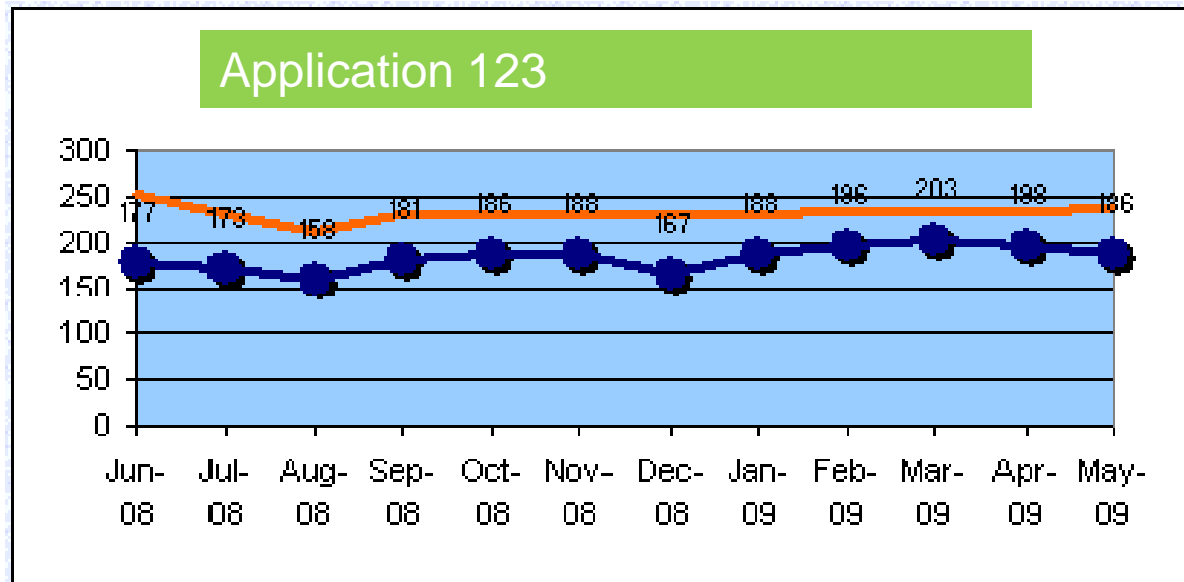


# Rolling Quarter Example





# Rolling Year Example



# Summary Chart Example

May-09	Max Used	Max Avail	Max Usage
A001 Core Master Modeler	186	236	78.81%
A002 Master Drafting	218	264	82.58%
A003 Surfacing Set	11	21	52.38%
A004 Assembly Set	134	170	78.82%

This report shows historical use by feature



# Interactive Reports

- Organic Growth
- Started With Individual Information Requests
- Added Static Charts on Website
- Standardized One Time Reports
  - Aggregated Requests
  - Created Standard Reports



# Sample Report

	Full Name	Feature	User Name	Total Hours of Usage	Total # of Checkouts	Max Concurrent In Use	Server
1	<a href="#">Martin, James P</a>	A026G_features_modeling	jmartin	730.734	21	1	csa1401
2	<a href="#">XXXXXXXXXX</a>	A026G_features_modeling	XXXXXXXX	646.679	170	1	cui5site
3	<a href="#">WU, Catherine</a>	A026G_features_modeling	wuc	626.099	39	1	cui5site
4	<a href="#">XXXXXXXXXX</a>	solid_modeling	XXXXXXXX	580.254	565	1	cui5site
5	<a href="#">Charapacna, Petros</a>	features_modeling	pchampag	580.213	565	1	cui5site
6	<a href="#">UNKNOWN</a>	solid_modeling	SYSTEM	579.62	158	1	cui5site
7	<a href="#">UNKNOWN</a>	features_modeling	SYSTEM	579.6	158	1	cui5site

This report shows historical use by person



## Information for License Managers

- Allows Management of Licenses to Support Changing Business Needs
- Purchase/Renewal Decisions Based On Actual Usage



# Summary

- Recommend Expert Assistance
- FLEXnet Manager Dashboard Useful
- Reporting Tools
  - SamReport
  - FLEXnet Manager
  - Excel



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