OPERATING AND ENHANCING THE CALIFORNIA VEHICLE INSPECTION SYSTEM

CLAY LEEK
EXECUTIVE OFFICE
BAR ADVISORY GROUP MEETING
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CAL-VIS OVERVIEW

- California Vehicle Inspection System (Cal-VIS)
  - Complex 3 tier architecture (100s of virtual machines)
    - Web / Application / Database (DB)
  - Network Connectivity
  - Internal BAR Applications
  - Interfaces with multiple business partners
CAL-VIS OVERVIEW (CONTINUED)

• Primary and secondary sites
  • Real time data replication and Extract, Transform, Load (ETL) Processes
  • Archive / Backup
• BAR-OIS and BAR-97 inspection equipment
• Oracle Exadata
• Multiple environments
  • Development, Integration, System Test, User Acceptance Test, 3 Sandboxes, Production
• Interfaces
  • SGS, OnCore, Parsons, DAD vendors, schools, stations, BAR, DCA licensing, DMV, State Bank, Referee, ARB
ENHANCEMENTS VS OPERATIONS

Wants Change.

WANT BOTH!!

Wants Stability.

DEVELOPMENT

BUSINESS

OPERATIONS
CAL-VIS OPERATIONS

• Ensuring stability and availability requires significant resources
  • Incident / Problem / Capacity / Continuity / Availability
  • Patching / Security
  • Hardware and software refresh
  • 24/7 Monitoring, process alerts
  • Defect correction, verification
  • User Acceptance Testing (UAT)
  • Procedures, technical documentation, training

• Incident Management
  • 81 open incidents
CAL-VIS CHANGE MANAGEMENT

• Change Management Request (CMR) is needed to implement new business requirements

• Change Lifecycle
  • Request, analysis, design, development, testing, implementation, acceptance and documentation

• Change Impact
  • Requirements, design specification, code development, integration test, user test, training, help desk, billing, BAR applications, connectivity partners, maintenance operations, BAR-OIS, BAR-97, database, network, etc.

• 162 open changes
IS THE JUICE WORTH THE SQUEEZE

• California law / regulation requirements
• BAR’s mission and vision
• Consumer protection / Air quality
• Station / Inspector / Technician impacts
• Resource availability and expertise
• Contract alignment
• Opportunity Cost
  • BAR-OIS implementation
  • Cal-VISTA project
  • Transition from SGS Testcom to OnCore Consulting
• Quantitative vs qualitative value
RECENTLY COMPLETED CHANGES

• Certificate blocking and Referee direction
• Automated equipment data anomaly lockouts
• Self service limitations
• Clean gassing vehicle direction
• DAD driver update
• BAR-97 Wrong Platform Prompt
• Transition related changes
FUTURE CHANGES

• Integration of updated DAD
• Enhanced DAD security, improvements and bug fixes
• Add Safety Recall Data to VIR (BAR-OIS only)
• Display inspection information messages
  • “Advise owner to reflash ECM per TSB 1234 prior to inspection.”
• Display vehicle specific emissions warranty messages using “Test Group” entry from VECI label (BAR-OIS only)
  • “This vehicle has a PZEV emissions warranty for 15 years / 150,000 miles.”
FUTURE CHANGES (CONTINUED)

• Biometric scan in lieu of BAR-OIS password
• Update BAR-OIS supporting New Data Acquisition Device (DAD)
  • Expanded data collection, future vehicle connectivity
  • GPS location
  • Data encryption
• Brake and Lamp Inspection Software
• Smog Check Test Fee pre-purchase
• Transition from “On premise” to Cloud hosting
• BAR-97 Certificate Blocking
SUMMARY

• The Cal-VIS is large and complex
• Several large projects have reduced the velocity of change
  • BAR OBD Inspection System (BAR-OIS)
  • California Vehicle Inspection System Transition (Cal-VISTA)
• Balancing change velocity and system stability is the goal
• Stakeholder input is critical
QUESTIONS AND COMMENTS

Submit questions and/or comments to:

Clay Leek
Bureau of Automotive Repair
10949 N. Mather Boulevard
Rancho Cordova, CA 95670
Phone: 916-403-8600
Email: clayton.leek@dca.ca.gov