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# CAL-VIS ACCOMPLISHMENTS AND FORECAST



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BAR ENGINEERING AND RESEARCH BRANCH  
BAR ADVISORY GROUP MEETING  
JANUARY 27, 2022

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# ACCOMPLISHMENTS

- Maintained 100% availability of Cal-VIS services during the reporting period (July - December 2021)
- Completed two quarterly Cal-VIS enhancement and defect releases, including 39 features/enhancements and 43 defect fixes
- Completed an inspection fee invoice redesign resulting in improved readability for payment
- Automated the monthly ledger file as input to the monthly reconciliation process
- Completed the Service Year 2 Annual Customer Satisfaction Assessment Survey and Report to feed into continuous improvement planning and execution

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# ACCOMPLISHMENTS - CONTINUED

- Supported Third-Party Security Assessment of the Cal-VIS system and processes
- Incorporated new tooling into the Cal-VIS monitoring suite to support application performance monitoring, log aggregation, enhancing the Maintenance and Operations team visibility of system health, while making troubleshooting activities easier and more efficient
- Completed upgrades and validation for prototype and non-production database upgrades and began updates for production Cal-VIS databases to Oracle 19c
- Completed DAD 2.0 technical documentation, including external DAD vendor review/feedback

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# UPCOMING GOALS

- Complete two additional quarterly Cal-VIS enhancement and defect releases for Q1 and Q2 of 2022
- Complete the production upgrade of the Oracle database management system to the latest supported version

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# BAR-OIS CHANGES

- Modified Software Check - July 19, 2021
  - Fails vehicles with aftermarket software that is not CARB Executive Order approved
- Release 21.2 - August 2, 2021
  - Added secondary authentication at the conclusion of the inspection
  - Allows newer technology Internet Protocol version 6 (IPv6) gateway addresses since the shorter IPv4 address length will run out of capacity in the future
    - IP address is used to address devices so they can communicate across the internet (e.g., computer to router)
  - Updated screen message instructing users to contact their BAR Field Office instead of the BAR Industry Help Desk when an inspector is restricted from performing inspections

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# BAR-OIS CHANGES - CONTINUED

- Release 21.2 (continued) - August 2, 2021
  - Blocks certificate purchase orders if the station license is cancelled, expired, suspended, revoked; or if the station is locked out for not paying for certificates or communication fees
- Release 21.3 - October 25, 2021
  - Updated online help to show dynamic data collection portion of the OBD test
  - Updated CARB's address printed on the Notice of Noncompliance to their new Riverside location

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# UPCOMING BAR-OIS CHANGES

- Release 21.4 - February 27, 2022
  - Major maintenance effort to ensure supported software and systems including Oracle 19c database upgrade
- Release 22.1 - March 28, 2022
  - Hybrid Client infrastructure change (refactor to use .NET6, latest software development platform); requires updated files from all DAD Vendors
  - Notification of Smog Check certificate reordering for BAR-OIS user with Station Owner / Station Manager role

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# UPCOMING BAR-OIS CHANGES - CONTINUED

- Release 22.2 - June 20, 2022
  - Windows 11 compatibility
  - Online help updated to match screen message: “Please contact your local BAR field office for assistance.”
  - message appears when the station is prohibited from self-service functions
  - Manage staff menu updated to allow viewing of more than 10 inspectors assigned to a station
    - Allows Referee station owner to see all Referee inspectors and change their BAR-OIS access role when necessary



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# BIOMETRIC AND REMOTE ACCESS UPDATE

- Proposed Smog Check Equipment and Security regulation status
  - Public hearing held November 21, 2021
  - Final Statement of Reasons prepared with responses to public comments
  - Submitted to Business, Consumer Services and Housing Agency on December 29, 2021
- Implementation
  - BAR planning to start inspector enrollment, device purchase, and BAR-OIS update allowing biometric use on regulation effective date (tentative date of October 2022 subject to change based on regulation adoption schedule)
  - Remote Access implementation date unknown; still in design phase

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# DAD 2.0 UPDATE

- Data Acquisition Device (DAD 2.0) features:
  - Collects Unified Diagnostic Services (UDS) type of On-board Diagnostic (OBD) data from 2023 and newer model year vehicles
  - Enhanced data collection for improved fraud detection
  - Identifies DAD location (GPS)
- Vendor Integration Test environment to support DAD integration with the BAR-OIS software and BAR certification testing
- Proposed regulations are undergoing informal review
- Will replace current DAD model upon regulation adoption, as early as 2023 (date subject to change based on regulation adoption schedule)

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# BAR-97 CHANGES

- Removed ability to disable the Low-Pressure Fuel Evaporative Test
- Changed CARB's address on the Notification of Noncompliance
- Updated vehicle look up tables (VLT) to include vehicle model years through 2050

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# UPCOMING BAR-97 CHANGES

- Enhanced fraud detection capability
- Testing software to operate on next generation computers
- Eliminate the need for exterior disk drives
- Testing new printer drivers
- VLT installation in all analyzers

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# QUESTIONS AND COMMENTS

Submit questions and/or comments to:

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