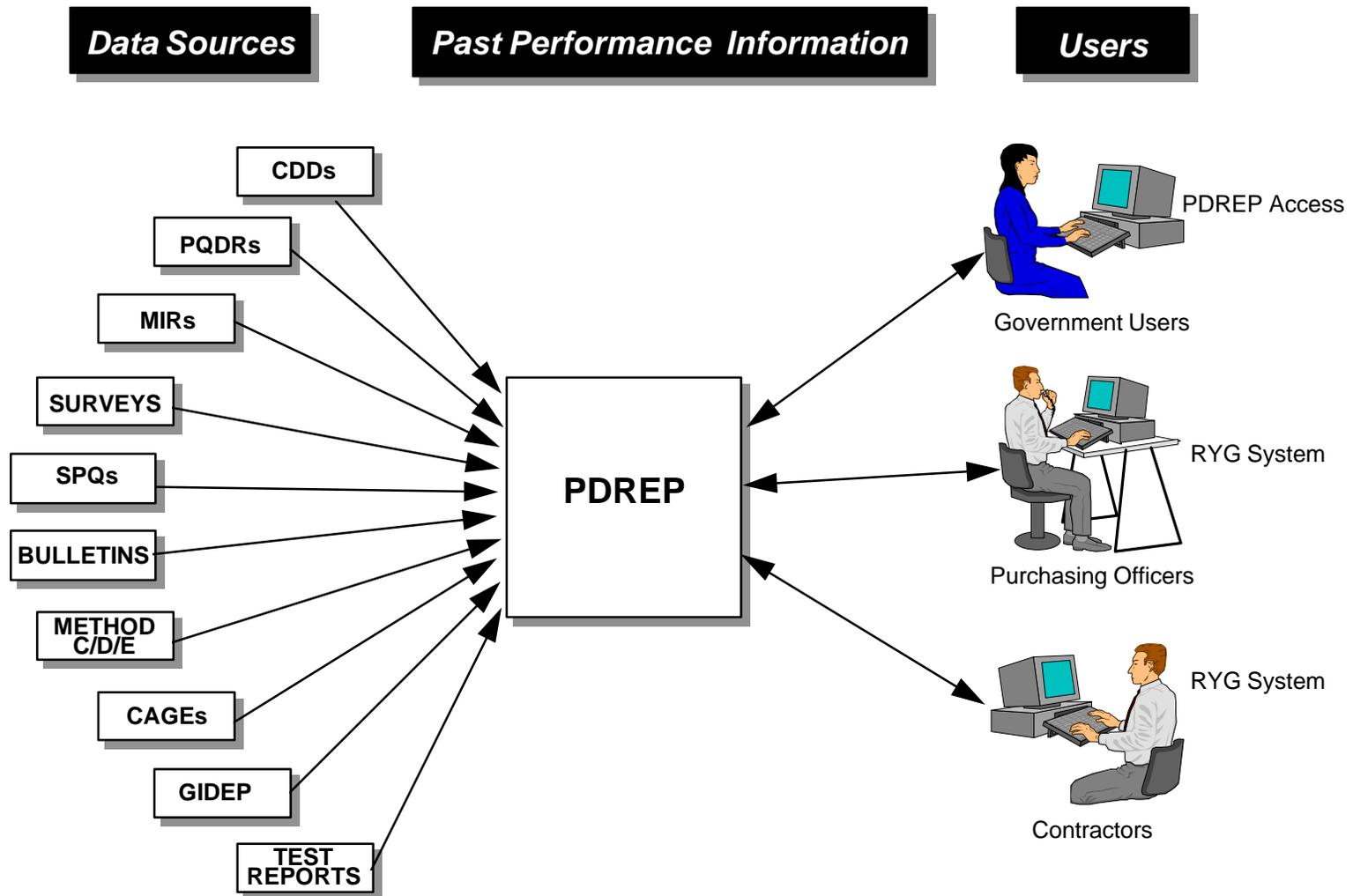


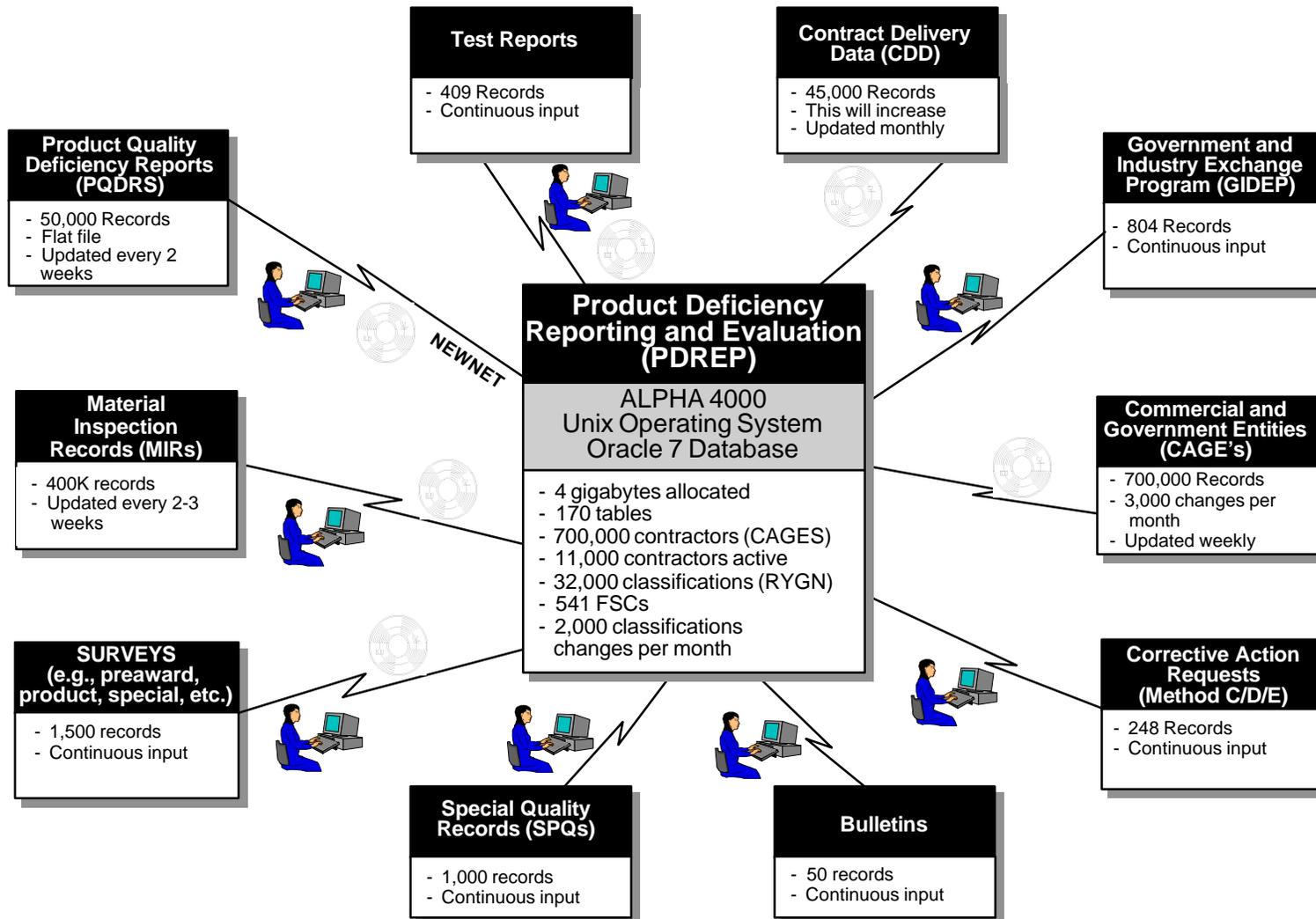
Red/Yellow/Green System Overview

PDREP is updated with past performance data from a variety of sources and accessed remotely by users via PCs.



Red/Yellow/Green System Past Performance Data Acquisition

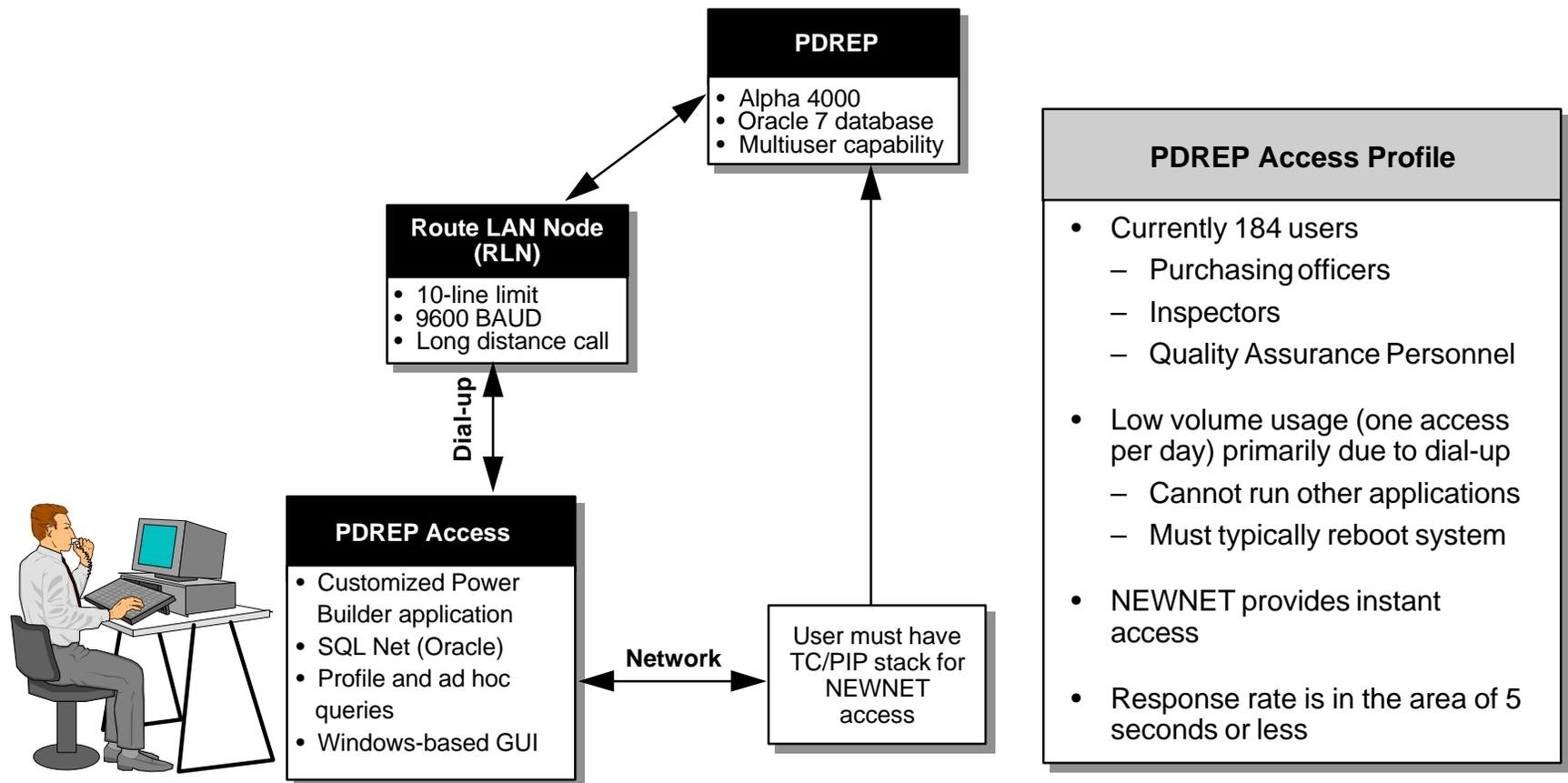
PDREP is the central repository for contractor past performance information.



Although some data are entered electronically, via NEWNET or magnetic tape, one full-time data entry analyst is required to support the database.

Red/Yellow/Green System PDREP Access

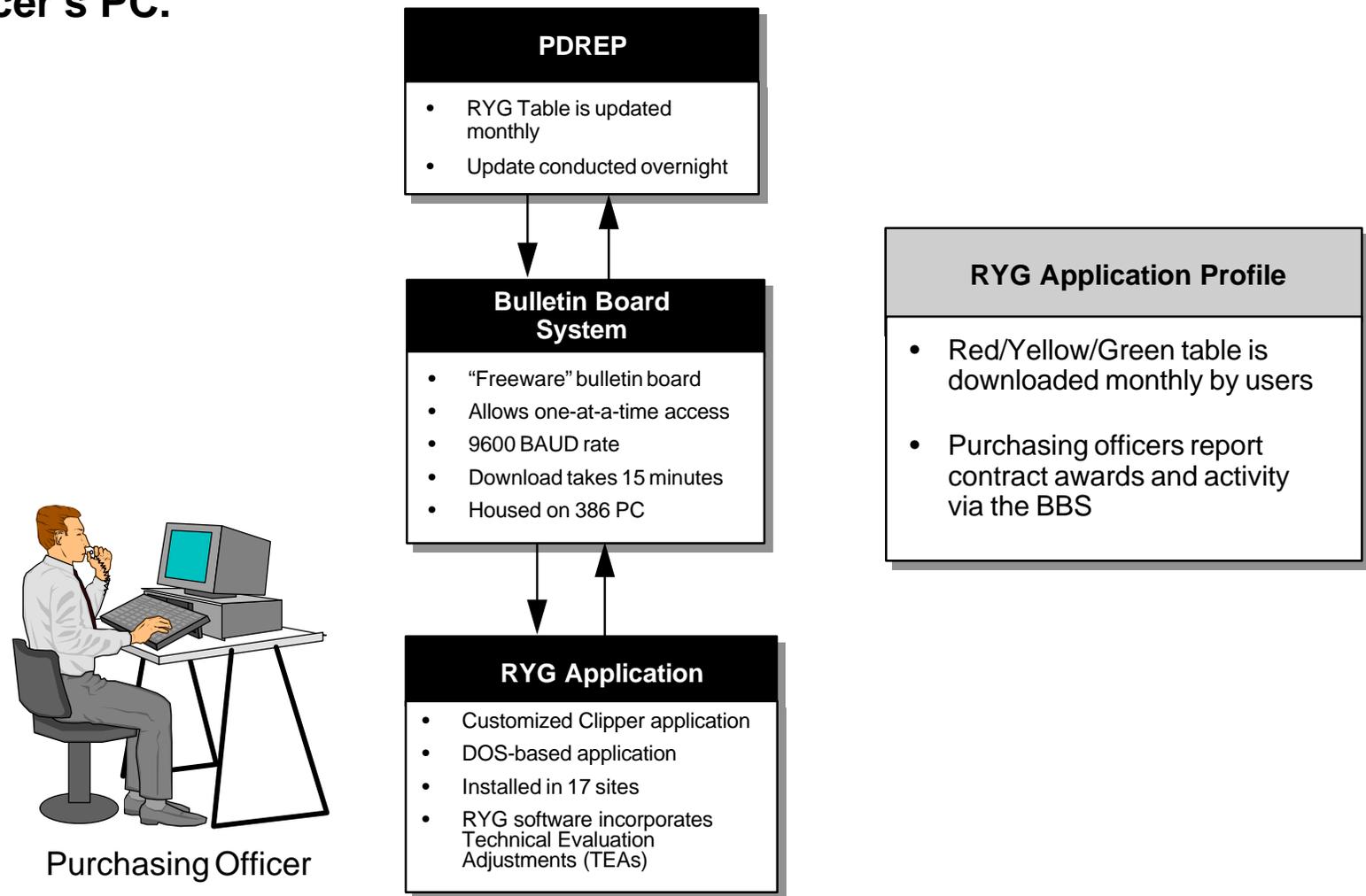
Government users can access the PDREP database directly through dial-up or network connection.



- Purchasing Officers
- Inspectors
- Quality Assurance Personnel

Red/Yellow/Green System RYG Application

The Red/Yellow/Green database and system reside on the Purchasing Officer's PC.



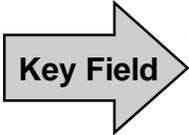
Users update the RYG database monthly via an electronic bulletin board.

Red/Yellow/Green System RYG Record Layout

The RYG evaluation table could be easily imported and appended to external past performance databases.

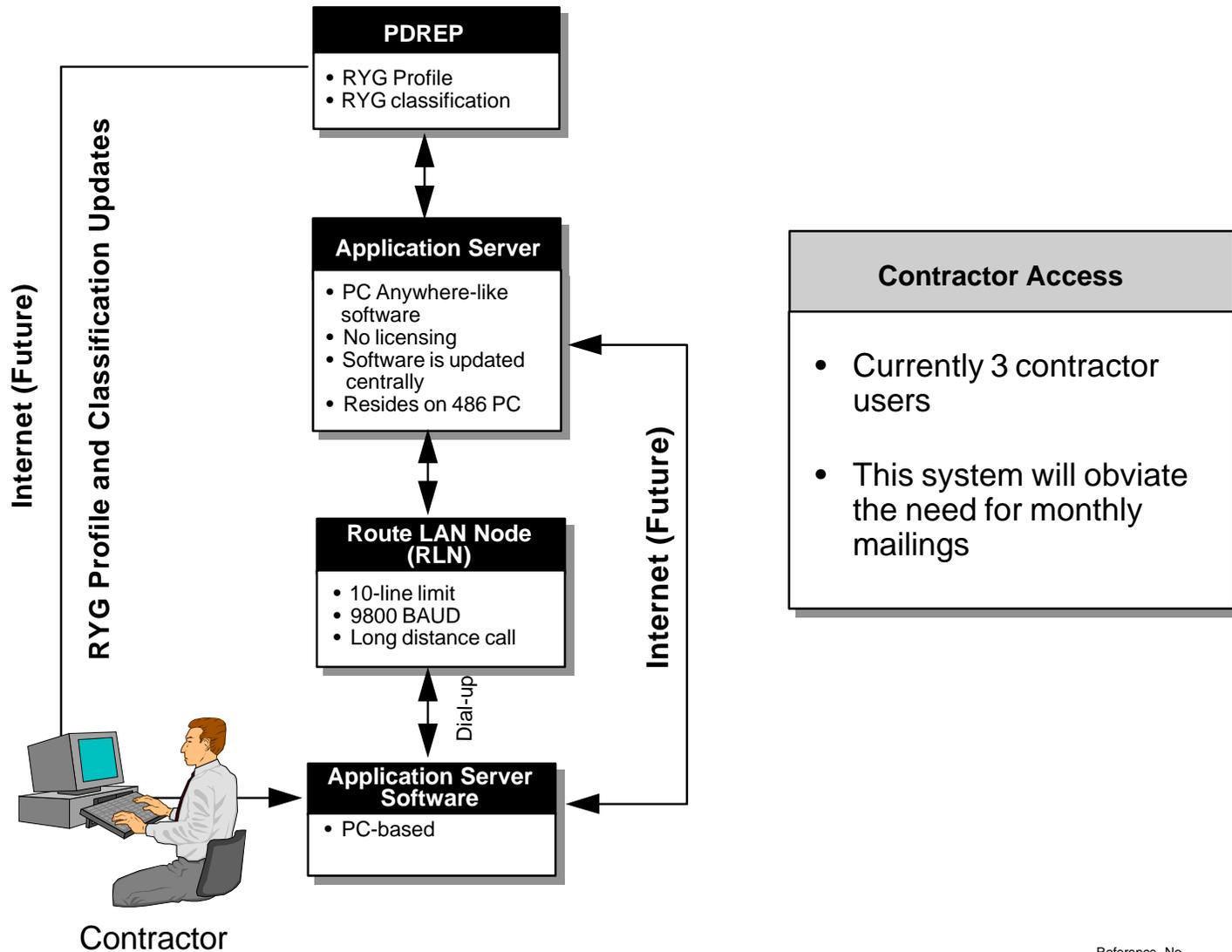
RYG Record Layout

<i>Data Element</i>	<i>Data Type</i>	<i>Record Length</i>
<i>CAGE Code</i>	<i>Character</i>	<i>5</i>
<i>Change Indication</i>	<i>Character</i>	<i>1</i>
<i>Classification Date</i>	<i>Timestamp</i>	
<i>Color Code</i>	<i>Character</i>	<i>1</i>
<i>Company Name</i>	<i>Character</i>	<i>36</i>
<i>Evaluation Indicator</i>	<i>Character</i>	<i>1</i>
<i>Evaluation Ending Date</i>	<i>Timestamp</i>	
<i>Federal Supply Class (FSC)</i>	<i>Character</i>	<i>4</i>
<i>FSC material Description</i>	<i>Character</i>	<i>25</i>
<i>Nuclear Material Indicator</i>	<i>Character</i>	<i>1</i>
<i>Reason Code</i>	<i>Character</i>	<i>1</i>



Red/Yellow/Green System Contractor Access

The PDREP system is being enhanced to provide contractors with “push” and “pull” access to their profiles and RYG classifications.



Significant expansion of the PYG past performance evaluation system would require more streamlined data acquisition, improved network access capabilities, and greater standardization in PC-based software

System Expansion Issues

- Retrieval of past performance information from multiple sources for storage in PDREP relies heavily on manual input.
- Dial-in access to PDREP and bulletin board access to FYG data inhibits ease of use.
- Multiple modes of data access and transfer (e.g., dial-up, manual input, tape, NEWNET) complicate management of the overall system.
- Multiple PC software packages (e.g., PDREP Access, [PowerBuilder], RYG [Clipper and BBS], contractor access [Application Server]) complicate management and maintenance of the overall system.

An extrapolation of the PDREP system from the current number of active contractors (11,000) to the potential number of contractors (700,000) yields the following:

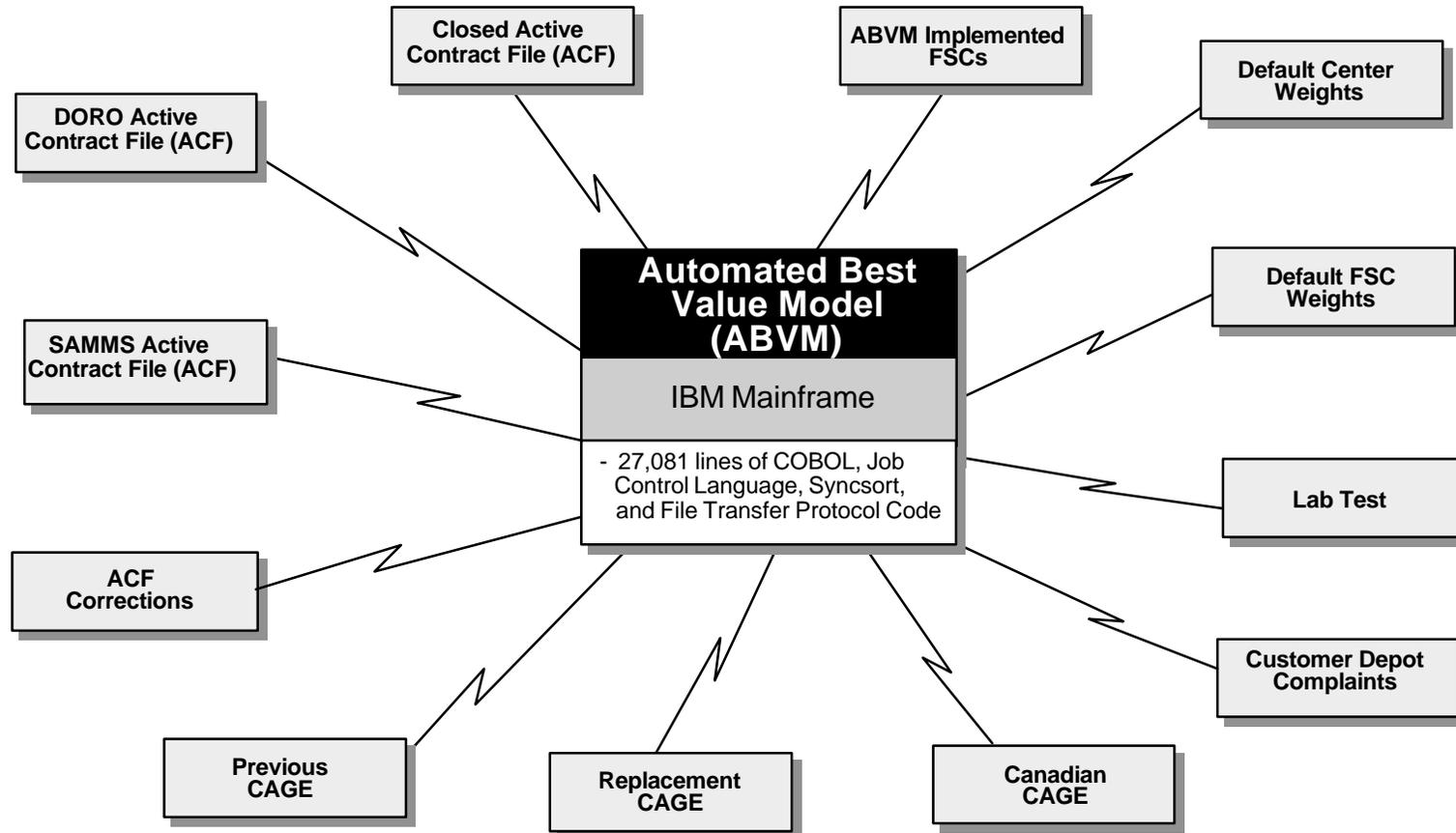
- 11,000 contractors to 700,000 contractors
- 32,000 RYG classifications to 2,036,300 RYG classifications
- 2000 RYG classification updates each month to 127,269 RYG classification updates
- PDREP data tables
 - From 50,000 to 3,181,500 Product Quality Deficiency Reports (PDQR's)
 - From 400 to 25,452 Material Inspection Records (MIR's)
 - From 1,500 to 95,455 Surveys (e.g., preaward, product, special, etc.)
 - From 1000 to 63,630 Special Quality Records (SPQ's)
 - From 50 to 3,182 Bulletins
 - From 248 to 15,782 Corrective Action Requests (Method C/D/E)
 - From 804 to 51,164 Government and Industry Exchange Program (GIDEP) records

An extrapolation of the PDREP system from the current number of active contractors (11,000) to the potential number of contractors (700,000) yields the following (continued):

- PDREP data tables
 - From 45,000 to 2,863,636 Contract Delivery Data (CDD) records
 - From 409 to 26,027 Test Reports

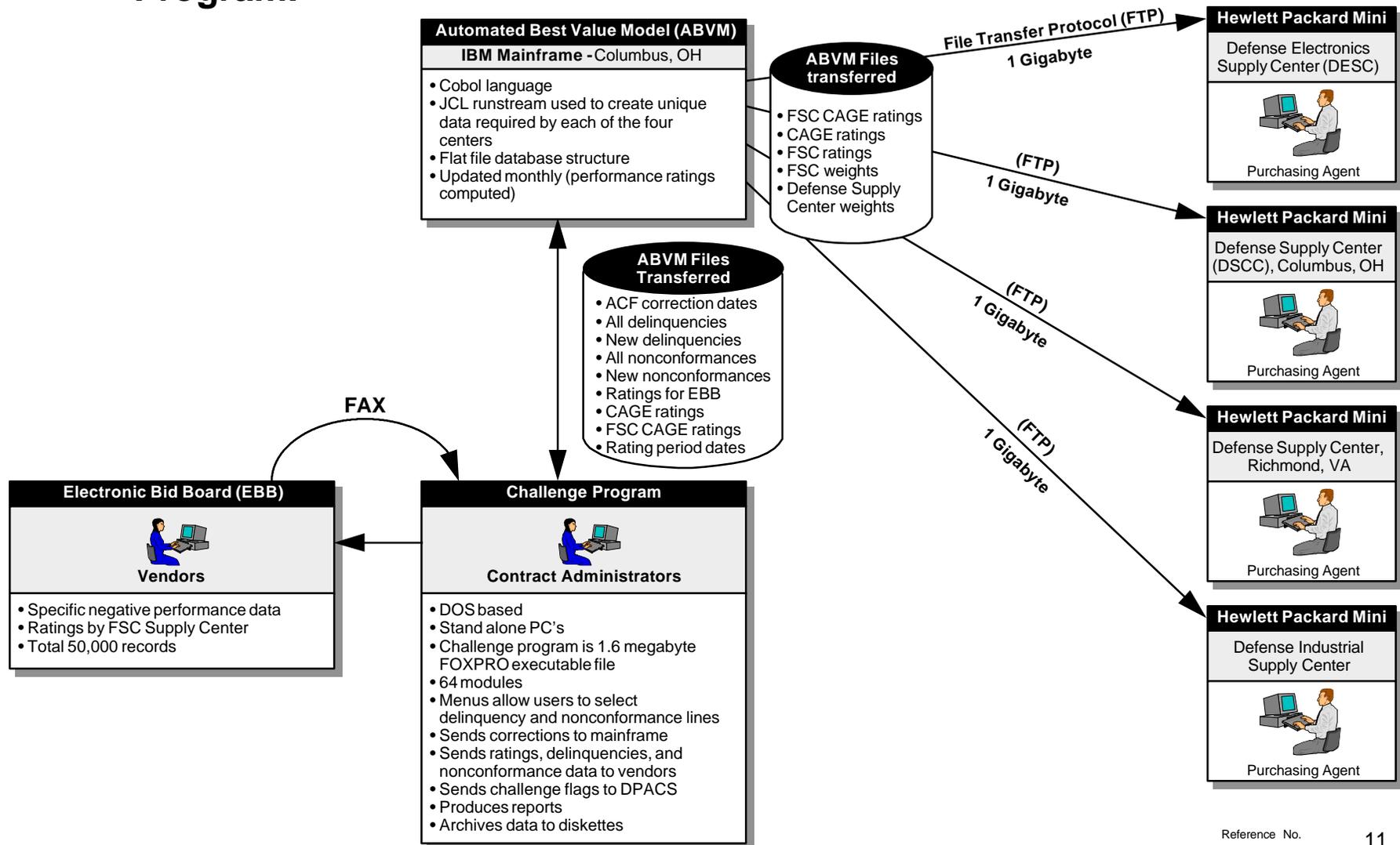
Automated Best Value Model (ABVM) System Past Performance Data Acquisition

Past performance data for ABVM is collected from a variety of sources.



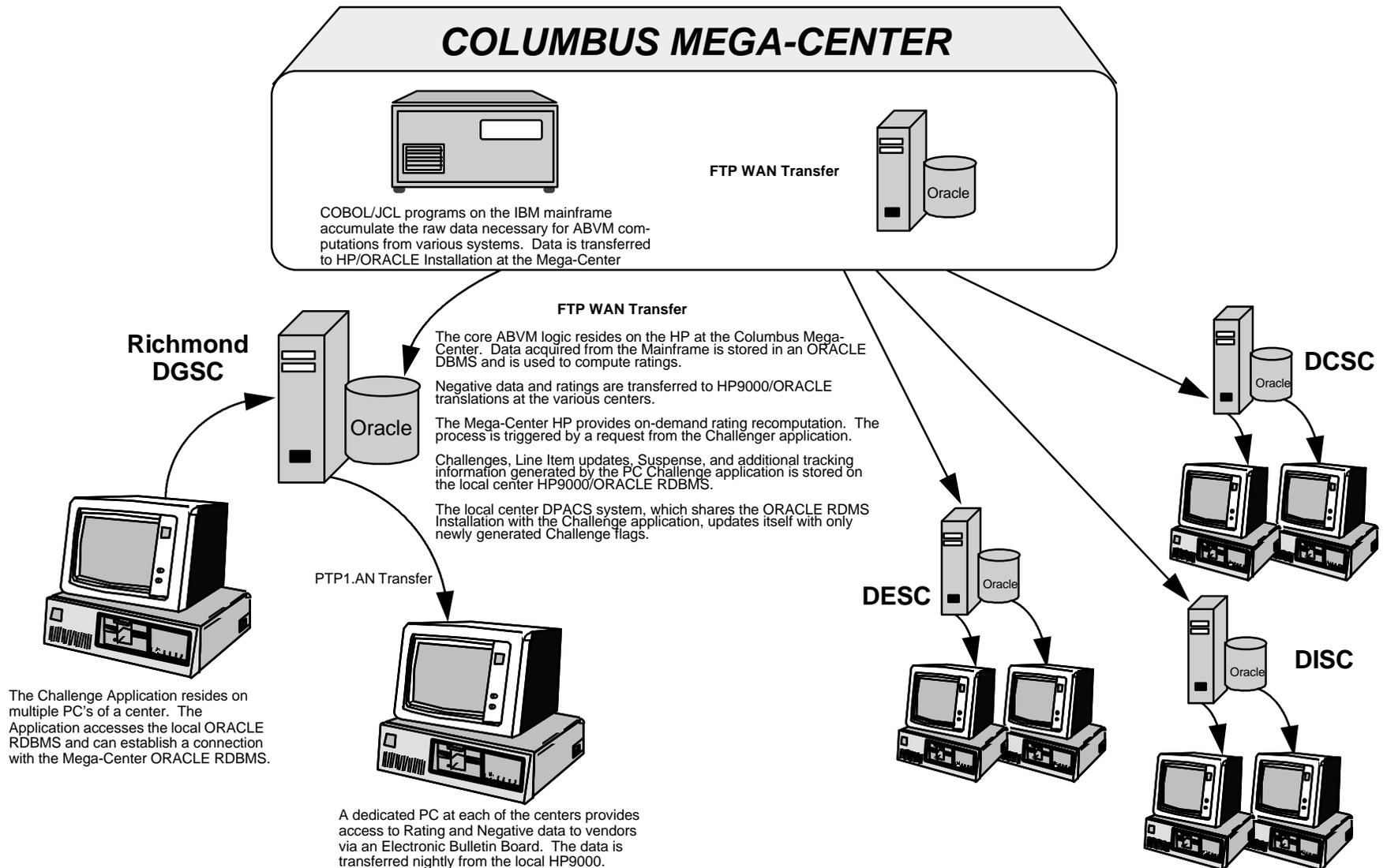
Automated Best Value Model (ABVM) System System Components

The ABVM system is composed of three interrelated components, the Automated Best Value Model, Electronic Bid Board, and Challenge Program.



Automated Best Value Model (ABVM) System Proposed System Upgrade

A new system architecture for ABVM is planned.



Automated Best Value Model (ABVM) System Upgrade Advantages

The proposed ABVM system upgrades will yield multiple benefits and advantages over the existing system configuration.

Update Area	Current	Proposed Upgrade	Advantages
ABVM Rating Computation Component	Mainframe - based flat file application. Data and ratings processed on mainframe and sent to each DSC via FTP. Ratings are completely rebuilt and calculated each month. Data is underutilized because of its flat file structure and lack of automated interfaces.	Computation component moved to a mid-tier HP 9000 minicomputer UNIX/Oracle environment.	<i>Improved data access. Out of cycle rating recomputations can be made as vendor data is changed by the Challenge process.</i>
ABVM Application Program	Four versions of the rating program are maintained, one for each Supply Center. Center unique rating parameters are hard coded in programs and can only be changed by programmer.	A single Oracle program is used to process ratings for all Supply Centers. Supply Center differences are accommodated through the use of parameter tables. Parameter tables can be changed by system administrator.	<i>Only one versus four programs to maintain. Rating parameters can be adjusted within policy limits by Center level system administrators.</i>
ABVM Program Operating System/Code	MVS/COBOL	UNIX/PL/SQL (4GL) and C Data Extraction in MVS/COBOL	<i>Less code - faster, easier to maintain and extend.</i>
Challenge Application Program	Single user PC application using local flat file structures.	Multi-user PC application using Oracle RDBMS residing on HP server.	<i>More than one Challenge Monitor can work in system at the same time. Simplified user interface reduces key strokes and provides improved visibility over process. Improved data access and challenge tracking. Daily updates of challenge data.</i>
Challenge Program Operating System/Code	DOS/FoxPro	Windows/Visual Basic	<i>Better looking and easier to use interface. Faster and easier to make changes and extend functionality of program.</i>
DPACS Challenge Flag Setting	Flag files produced by Challenge Program are sent to DSDC computer for consolidation and forwarded to DPACS twice daily.	Flag files produced by Challenge Program are sent directly to DPACS.	<i>Removes unnecessary processing leg. challenge flag updates can be processed faster. Sets the stage for more direct interface.</i>
EBB Program	PC Bulletin Boards - Two different systems in use.	Rating and deficient/delinquent line data can be updated daily.	<i>Rating and deficient/delinquent line updates more frequent.</i>

**RED/YELLOW/GREEN
AND ABVM SYSTEMS**

Presentation to

Date

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Reference