



**5.3 Current Environment Assessment: Application and Technology Infrastructure**  
**Assessed against SFA Modernization Technology Drivers**

<b>SFA Modernization Technology Drivers</b>	<b>Direct Loan</b>
Use of automated development & testing tools - CASE Tools - COTS products	No States that the imaging system is considered COTS
Application dev. based on consistent standards - CORBA, JAVA BEAN,EDI  - Data Dictionary/encyclopedia - DB Triggers/Stored Procedures (implement business rules) - Standard SQL	No - possibly CORBA in future releases Yes + Erwin flow diagrams Stored Procedures & Triggers Informix SQL (proprietary)
Web-enabled technologies - Web-enabled - Thin Clients	Yes No - PowerBuilder code embedded in client screens for business rules, real-time data processing & lookup
Network architecture provide standards-based means of linking systems - TCP/IP - ATM	Yes - IP No
Data storage - rapid access, update, and retrieval of data over period for which the data is stored	By using a field in the batch header LO automatically accesses a table for the appropriate years rules
Decision support tools - relational database tech. - data warehouse - ad-hoc query tools (against real-time data)	Yes - Informix No Yes - Key personnel position accepts request and performs queries
Modernized N-Tiered computer infrastructure	Yes - 2-Tier with fat clients
Use of lightweight directory access protocol (LDAP) - repository for distributed objects	No
COTS middleware products which tie the N-tiered architecture together - Tuxedo	No
Assurance of data privacy (via Web) - business channels have access to relevant public data as well as their own private data	Yes



## Common Origination and Disbursement Process Current Environment Assessment

### **Transaction Data**

To gain a understanding of the size and complexity of the current systems we solicited information from LO regarding transactional and sizing data. The Campus-Based Program was not deemed a transactional system and as such was not asked to supply information.

### **TRANSACTIONAL DATA**

#### **LO**

Annual average number of Loan Origination records:	2,900,000
Annual average number of PLUS applications:	237,000
Annual Acceptance letters, both PLUS and Student Loans:	170,000
Annual Denial letters, both PLUS and Student Loans:	57,000
Annual After PLUS loan denial, how many Unsubsidized Loans:	180,000
Annual average Promissory Notes to Standard Schools:	180,000
Annual number of Promissory Notes received from students:	3,000,000
Annual number of Promissory Note acknowledgements Sent to Schools:	2,900,000
Annual number of Disbursement Records from schools:	8,300,000
Annual number of reject 'XE Reports' from CDS:	180,000



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### APPLICATION DATA

	<b>LO</b>
Date Implemented:	March 1997
Date of last release:	February 2000
Number of Screens:	248
Number of reports:	71
Number of source Programs:	235 batch programs 7 IVR programs 202 copy member programs 50 edit and imaging scripts 39 database management scripts 465 online source modules
Average time to process incoming batch files:	less than 6 hours (off peak times) 9 hours during peak times
DoED system Interfaces:	TIVWAN, CDS, OLNACS GAPS, SAM, EDEExpress