





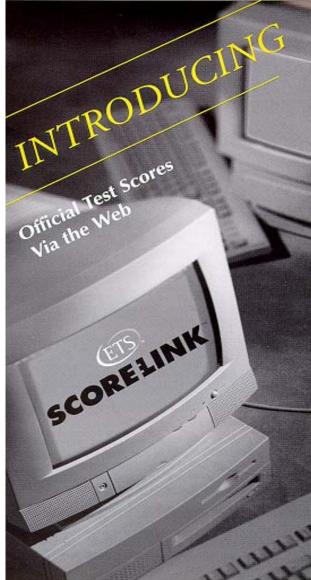
Electronic Test Score Reporting Breaking the Paper Barrier

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Electronic Score Reporting



ETS Corporate Priority

- To focus on developing a new generation of information services to meet the changing needs of our clients.
- To reduce costs associated with paper reporting for both ETS and our clients, but more importantly, improve customer satisfaction by decreasing turnaround time for delivering score data.







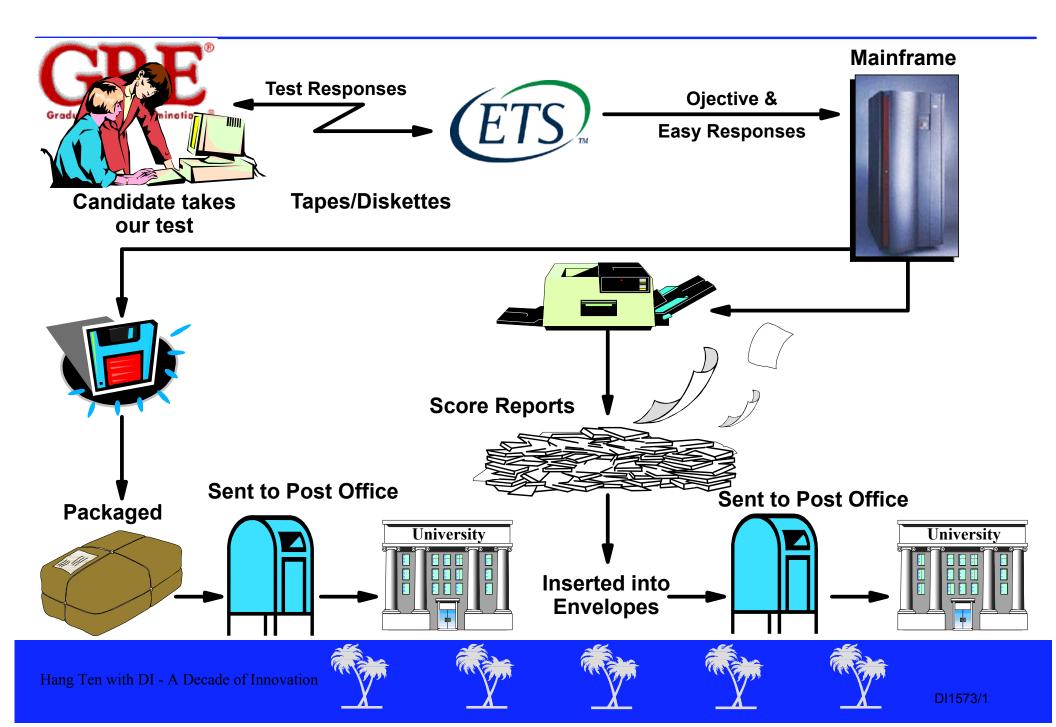


Project Description

- This project focuses on the events associated with electronically transmitting scores to designated institutions in both proprietary (the current layout now used for reporting test scores to institutions using tape or diskette) and EDI TS 138 formats
- We are using a push/pull method of transmission which involves ETS "pushing" the data to an anonymous server and each university "pulling" their own data from our server at the university's convenience







Breaking the Paper Barrier

How we do it today

- The current process takes 2-3 weeks in many cases
 - -Extract score data
 - Create tape, cartridge, diskette
 - →mail, Fed Ex
- Costs associated with paper score reports
 - →postage
 - -security-grade paper, envelopes
 - -costs associated with paper handling within ETS.





Breaking the Paper Barrier

How we do it today

Institutional costs

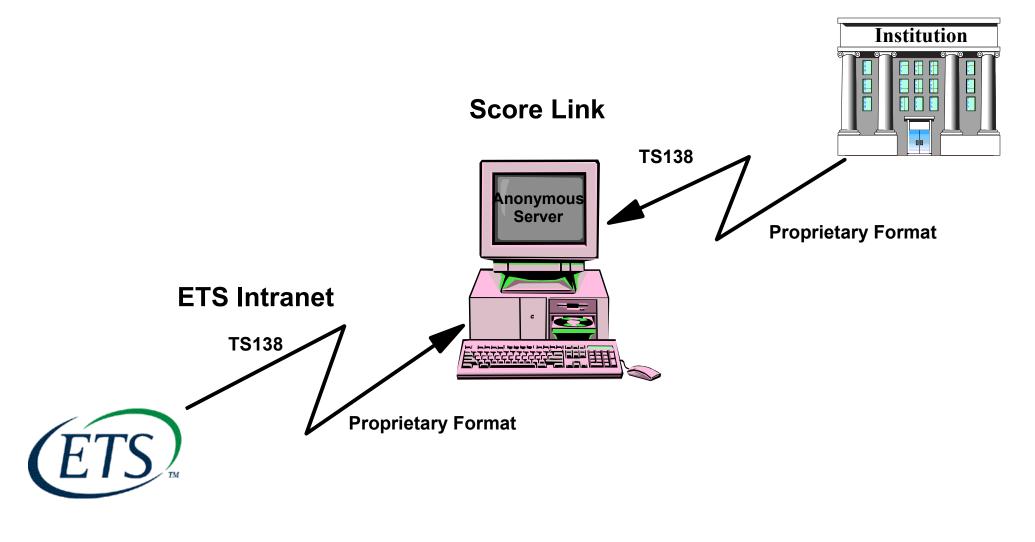
- Opening mail
- -Entering score data into the university's system
- Filing the paper report

Tape and Diskette Delivery

 These media will continue but....ETS handling and mailing along with university handling and mailing are still required



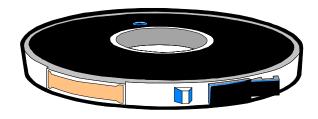
Our Latest Internet Project

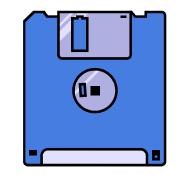




Proprietary Format

The current layout now used for reporting Test Scores to institutions using tape or diskette







or

EDI Format

EDI

- Electronic Data Interchange) is a nationally approved standard format for exchanging business data.
- TS 138 was developed as a joint effort between ETS, AACRAO, ANSI, ACT and NCS.
- www.standardscouncil.org





- Information available sooner to a university no waiting for the mail
- Can be an automated process
- Eliminates the time and cost involved with paper handling



Up and Running

GRE and SAT

- SAT began transmitting score data in September proprietary format only
- GRE began transmitting score data in October proprietary and EDI TS 138 formats



Next in Line

GMAT, TOEFL and Praxis

- GMAT and TOEFL will be offering proprietary format and EDI TS 138 format summer '99, Praxis will be implemented in the fall of 1999
- SAT will be offering EDI format in the fall of 2000



Sign-Up Schedule

- GMAT service sign up information will be available soon
- GRE you can sign up for the current service now at <u>www.gre.org/scrlink.html</u>

Next year's sign up information will be available in June

- Praxis service to be offered 09/99, sign up information will be available in May
- SAT can sign up for the current service now at <u>www.collegeboard.org</u>
- TOEFL service to be offered 07/99, sign up information available now









Security

Each format will be PGP encrypted for security

International PGP



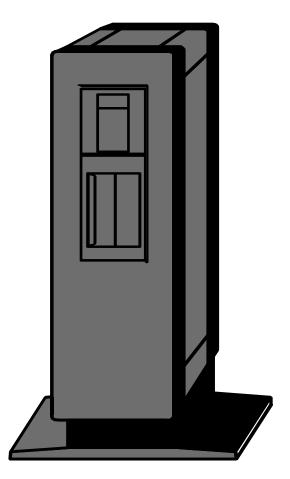








Automated FTP Process





Web Browser Access







E-mail from ETS

From: <cpquest@ets.org>, on 10/19/98 9:29 AM: To: SMTP@CIPS06@Servers[<rlambert@ets.org>], SMTP@CIPS06@Servers[<pmurphy@ets.org>], SMTP@CIPS06@Servers[<rfogel@ets.org>]

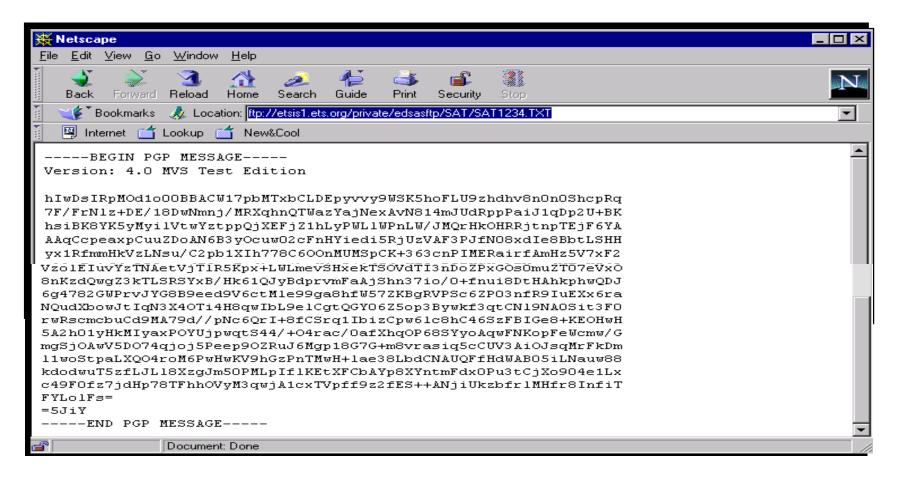
There is a file on the anonymous server in the SAT directory the ftp address is:

ftp://etsis1.ets.org/private/edsasftp/SAT/SAT1234.TXT



A demo.....

Encrypted File

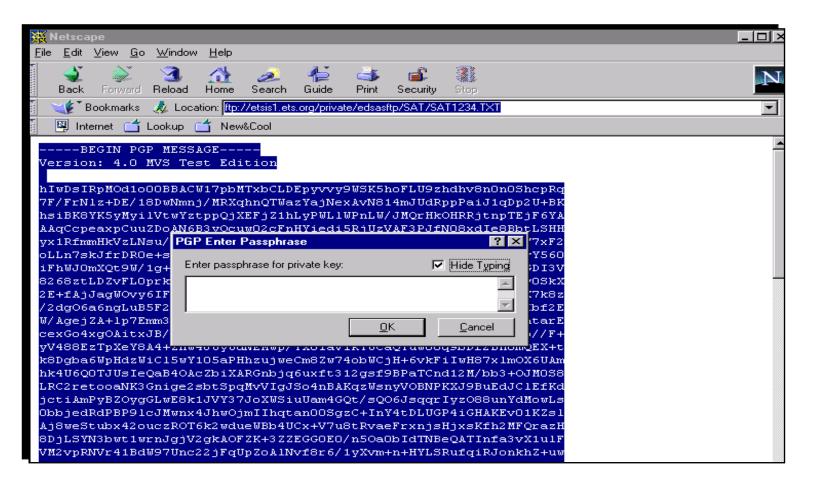








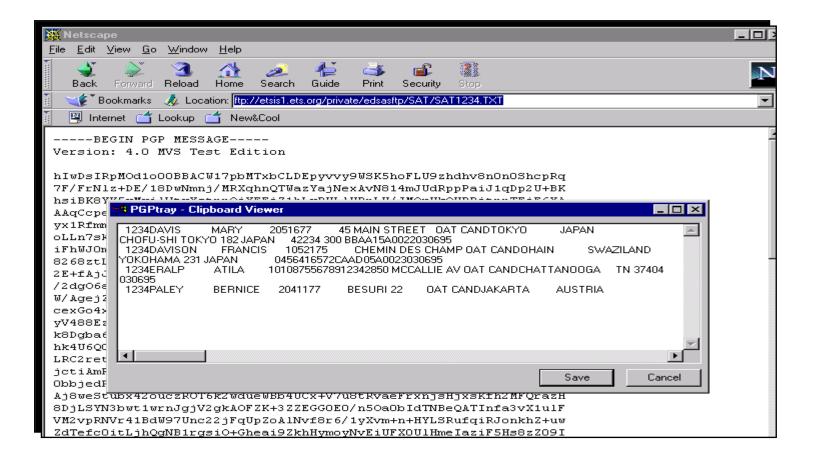
PGP Password





A demo.....

Decrypted - "Clear Text" File



Web Site - WWW.ETS.ORG/esr

