

International Update 22nd Annual Electronic Document Management

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Overview

- Organizational Changes
- eCTD Activity
- eSubmission Progress & Validation
- HL 7 Regulated Product Submission Update
- Firebird Update
- Electronic Registration and Listing Update



CDER Organizational Changes

- Reorganization of the Division of Regulatory Review Support
- Implementation of separate teams supporting eSubmission and eReview
 - EDR support staff re-aligned with eSubmission support staff
- Additional personnel resources dedicated to each team
 - Enhancing support for Office of Generic Drugs and Office of Compliance
 Food and Drug Administration



eCTD Submissions

May 31, 2006

Application	No. of Applications	No. of Sequences
Master Files	14	17
IND	119	1,312
NDA	71	1,194
ANDA	72	236
BLA	18	599
Total	285	3,358



eCTD Submissions

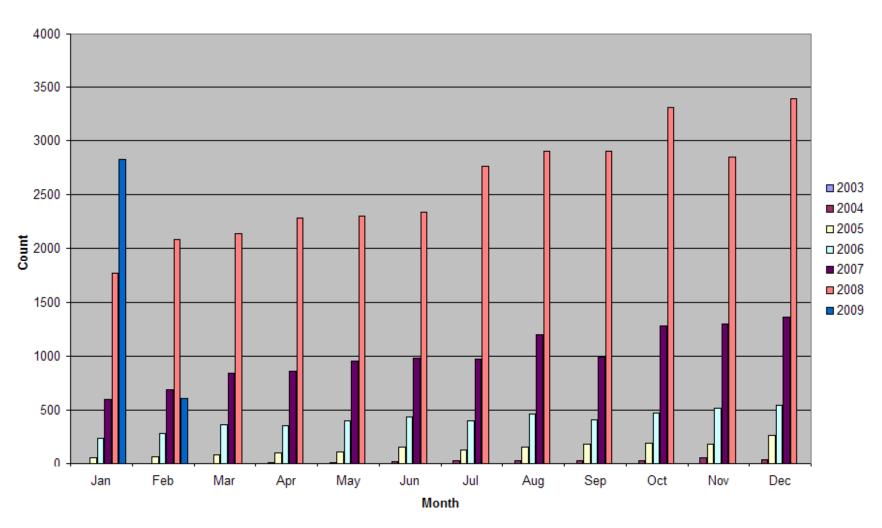
February 9, 2009

Application	No. of Applications	No. of Sequences		
IND	1,537	28,219		
NDA	1,255	14,076		
ANDA	1,550	6,234		
BLA	97	4,280		
MF	293	591		
OTHER	304	570		
Total	5,049	53,970		



eCTD Submissions

October 2003 - January 2009







eSubmissions – A Larger Perspective

- For 2007
 - Total Submissions 167,490
 - Paper 136,556 (81%)
 - Mixed Paper/Electronic14,025 (8%)
 - Electronic Only 16909 (11%)



Successes and OpportunitiesA Great Start

		Paper		Mixed		Electronic	
1	1.5	12 100/	70	5 <i>6 1</i> 50/	20	21 450/	
4	13	12.10%	70	50.45%	39	31.45%	
Q	17	10 69%	62	3 8 00%	80	50.31%	
	9	. 20					

Progress is Still Needed

Туре	Total	Paper		Mixed		Electronic	
IND Original	3241	3039	93.77%	82	2.53%	120	3.70%



eSubmission Validation





eSubmission Validation – What is it?

- ASR Validation
- eCTD Tool Validation
- Qualitative Validation



Automated Submission Receipt (ASR)

- ASR
 - Processes your submission
 - Performs Initial Validation
 - Activates eCTD Validation
 - Loads the submission into CDER's tracking system
 - Notifies the Regulatory Project Manager



The Top ASR Validation Issues

- No Electronically Fillable Form Found
- No 356h, 1571, or 2252 Form Found
- Unable to determine location of form
- Application number in us-regional.xml and form do not match
- Mismatch between application type and form
 - Example, an NDA with a 1571.PDF





eCTD Tool Validation

- Identifies and rates the severity of the errors encountered
- Validation specifications have been published

http://www.fda.gov/cder/regulatory/ersr/validation_specs.htm

Receipt Date Guidance

http://www.fda.gov/CDER/guidance/7627dft.htm



eCTD Validation Severity Levels

- High Errors: Submission cannot be accepted
- Medium Errors: Submission can be accepted but review issues may exist that result in submission not being accepted.
- Low Errors: Errors against specification; submission can be accepted



Division Quality Checks

- Hyperlinks/Bookmarks
- Datasets
- Table of Contents Issues



FDA RPS Update





Schedule - HL7 RPS Release 2

- Divided into Lifecycles and Iterations to facilitate requirements gathering and implementation strategy
 - Lifecycle One September 2008 through January 2010 Draft Standard for Trial Use (DSTU) – January 2010
 - Lifecycle Two (Release 2.x) January 2010 -
- Normative Standard TBD (minimum 6 months from DSTU and maximum 24 months)



FIREBIRD

Federal Investigator Registry of Biomedical Research Data





FIREBIRD - Background

- FIREBIRD is the first module realized from the vision of the Interagency Oncology Task Force, a partnership of the National Cancer Institute (NCI) and the FDA, to create an electronic platform (e-Platform) for the exchange of clinical research data, to include the submission of regulatory data, as described in the PDUFA IV IT Plan.
- FIREBIRD will be used by investigators to register online when participating in government, academic, or industry trials with the NCI, FDA and other sponsors.
- FIREBIRD stakeholders include: NCI, FDA, Clinical Research Industry, Contract Research Organizations, Institutional Review Boards



FIREBIRD – Features & Benefits

- Automation of investigator registrations in a central database using a secure web-based interface and digital signatures
 - FDA Form 1572
 - Financial Disclosure Form
 - Curriculum Vitae
- Eliminates inefficiencies of paper-based manual processes
- Provides a single Agency-wide solution for multiple Centers
- Permits association of INDs, IDEs, protocols, investigators, CROs, IRBs, etc.
- Facilitates the collection and storage of certain inspection data for CBER, CDER and CDRH regulated studies



Third Party Host

- Federal Government wishes to explore options for further development, operations, and maintenance via a third party non-profit organization
- Discussions with CRIX International has led to formation of a public-private-partnership to create FIREBIRD Next Generation
 - Runs on CRIX Int'l e-platform
 - Expands NCI FIREBIRD
 - Meets NCI, FDA, and industry requirements



FIREBIRD – Progress & Next Steps

- FIREBIRD implemented at NCI Sept. 2007
- Requirements & work flow for CBER, CDER, CDRH documented Nov. 2007
- Review by Pre-Market BRB Jan. 2008
- MOA with CRIX International to develop/host demonstration project drafted – Feb. 2008
- CRIX concept designs for FIREBIRD presented to FDA,
 NCI Feb. 2008
- MOA with CRIX and NCI signed. Aug. 2008
- CRIX/FDA/NCI Kick-off Meeting Sept. 2008
- Development/Testing Q4 2008 and beyond



Food and Drug Administration



Electronic Registration and Listing





Electronic Registration and Listing Update

- Voluntary pilot began July 10, 2008.
- FDA has received dozens of official electronic drug establishment registration and drug listing submissions.
- FDA has held several training sessions
- Quality of submissions range from good to excellent
- FDA intends to only accept electronic drug establishment registration and drug listing information beginning June 1, 2009

http://www.fda.gov/cder/guidance/OC2008145(2).pdf



International Standards





Bioinformatics Board and Data Standards Council

Bioinformatics Board

Identify data exchange or terminology standard need

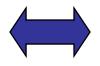


Data Standards Council

Coordinate adoption or development __



Working group of FDA experts





Standard Development Organization





Exchange Standards Organizations

- Development and adoption coordinated with other health-related organizations
 - Accredited, open consensus SDO
 - International Standards Organization (ISO)
 - American National Standards Institute (ANSI)
 - Health Level Seven (HL7)
 - National Council for Prescription Drug Programs (NCPDP)
 - US standards adoption initiatives
 - Consolidate Health Informatics (CHI)
 - Health Information Technology Standards Panel (HITSP)
 - Others
 - Clinical Data Interchange Standards Consortium (CDISC)
 - Global regulatory standards groups (ICH, VICH, GHTF)



HL7 Exchange Standards

- Submission Information
 - Regulated Product Submission Standard
- Product Labeling and Listing Information
 - Structured Product Labeling
- Manufacturing Information
 - Stability Data Standard
- Study Information
 - CDISC HL7 Standards
- Adverse Reaction Reports
 - Individual Case Safety Report Forms
- ECG Information
 - Annotated ECG Waveform Data standard



What Will Standards Mean to Industry?

- Improved harmony across Divisions and Centers
 - Focus is FDA-Wide
- Higher quality submission specifications
 - Formal standards development organizations (SDO), e.g., HL7, ANSI, CEN, have rigorous procedures to ensure the development of quality standards
- Increased ability to influence standards
 - SDOs employ an open process



Enhance FDA Operations

- Increase use of FDA Electronic Submission Gateway
- Leverage metadata accompanying eSubmissions
 - Automate receipt functions
 - Automate validation
 - Automate notification and routing



Enhance Review Capabilities

- Submission Content
 - Janus Study Data Warehouse
 - Integrated Electronic Document Room
- Review Tools
 - WebSDM
 - Patient Profile Viewer
 - iReview/jReview
 - ToxVision
 - GSReview





Enhance Review Capabilities

...Continued

- Improve Decision Support Tools
 - Data Mining
- Standardized Review Templates
 - SMART Template
- Supportive Documentation
 - Electronic Archive of FDA Documentation
 - Enhanced Search Tools
- Review Management Tools
 - Performance Tracking and Analysis
 - Reporting
 - Automated Workflow





Enhance Information Exchange

- Capture Investigator Information
 - Firebird
- Two-Way Communications
 - Use FDA ESG to provide two-way communication
 - SPL Collaboration Portal



Practical Implications

- Standards are specification driven
- Built to achieve interoperability
- Exchange of information requires validation
- Validation demands accuracy



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