



# Data and Content Management Services

From  
Metalogic Systems





- Incorporated in 1997
- Development centers at Kolkata and Bangalore
- Exposure in executing 100 + projects globally.
- Strong internal processes certified under ISO 9001:2000
- Information and data security at development centers certified under ISO 27001
- Microsoft Partner for Dynamics.
- Oracle partner for EBS.

## Service Offerings

**Typesetting & Composition Services**

**Legacy Application Modernization**

**Data Migration**

**Legacy Maintenance Workbench**

**Portal Development & EDMS**

**Insurance Management Solution**

**ERP Implementation Service**

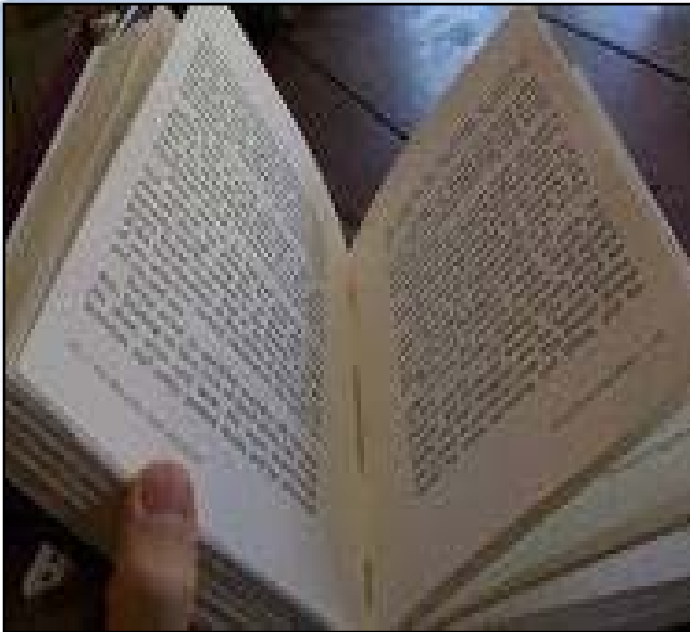


**Technology Focus in “automation and productivity enhancement”**

[www.metalogicssystem.com](http://www.metalogicssystem.com)



## Typesetting Services



**Editorial Activities**

**Typesetting & Composition Services**

**Design & Illustration**

**ePUB Conversion**

**XML / SGML / HTML Conversion**





## Editorial Services



A team of experienced content writers and editors in our fold cater to the whole publishing segment, viz., School Education, Children's Books, Higher Education, Fiction, Professional, Technological, SSTM, etc. We have a team of editors adept at handling different types of books and articles for various magazines. We are capable of assisting with copy edit of books and journals of any complexity in different domains, including STM and HSS segments. Our copy editors follow the popular style guides such as Chicago Manual of Style, MHRA, MLA, etc.



## Typesetting



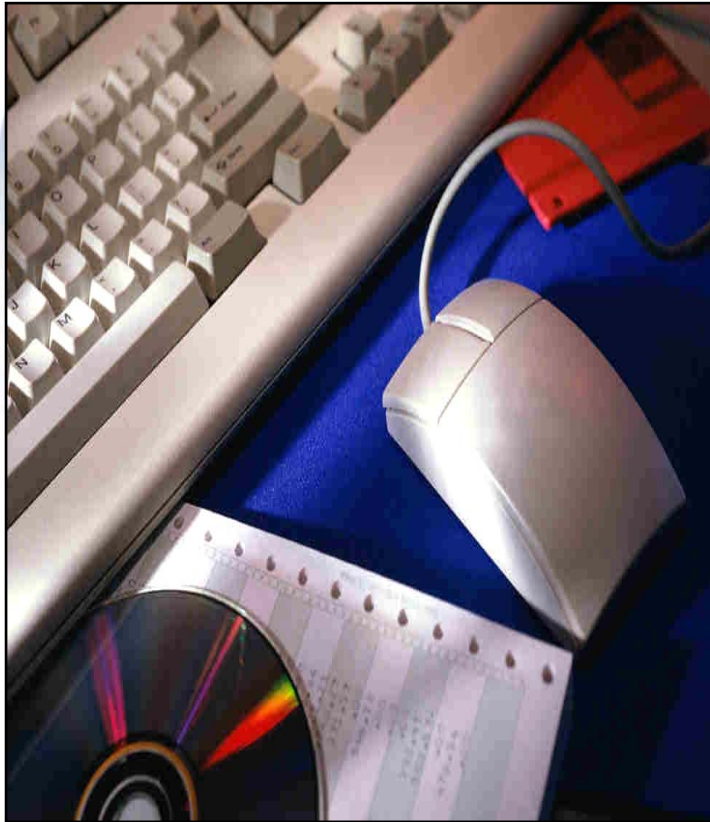
Our typesetting team is technologically equipped, observant, precise, prompt and close to being perfect. We provide a wide range of typesetting services, which include template creation and composition services for book and journal publishers, typesetting services for catalogue publishers, XML typesetting services and automated typesetting services for directory and database publishing in a number of different platforms such as **InDesign**, **QuarkXpress** and **MS Word**.







## Typesetting



Our range of activities include :

- **Sampling**
- **Composition** – includes XML-driven workflow & automated page production process in InDesign (XID) and QuarkXpress (etmv2).
- **Electronic Quality Checking (EQC)**
- **Proofreading**
- **Quality Checking**





## Design & Illustration



Our designers are not only creative, they are updated with the needs of the market too. We are trendy and innovative at the same time. We are engaged in the following activities.

**Draw, Redraw, Scan, Conversion, Re-label, Mathematical Graph, Chemical Structure even in Illustrator, Graphic Illustrations, Super Imposing, Graphic Reproduction, etc.**

Apart from the digital illustrations we do every day, we also have a team of illustrators who regularly produce experimental work.





## eBook Conversion



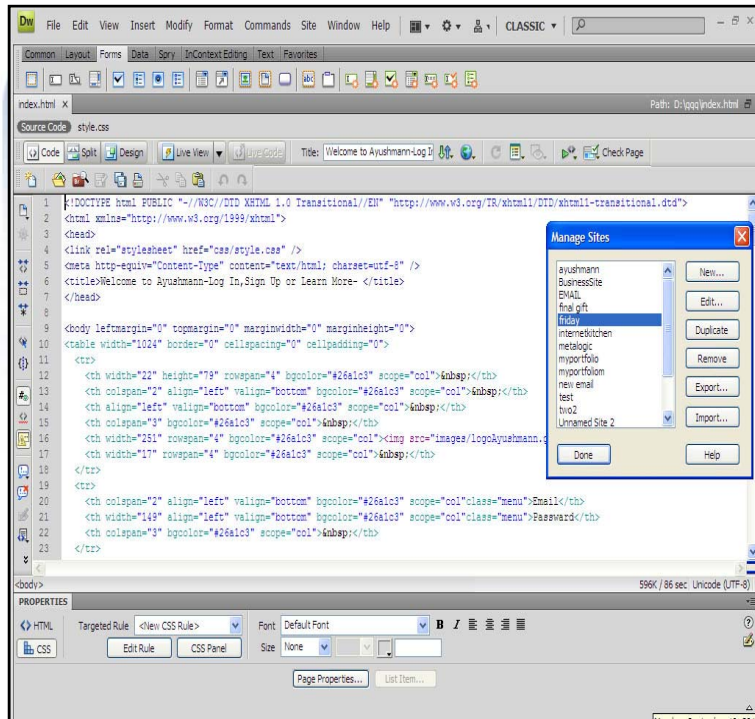
We convert any kind of content from any format to any other format. This may include PDF, XML, SGML, HTML and all the popular e-Book formats such as those compatible with Amazon Kindle, Sony Reader, Adobe Digital Editions, MobiPocket, etc.







## XML / SGML / HTML Conversion



We can convert textual content into XML / SGML / HTML as per clients' DTD along with analysis of textual contents, incorporate XML / SGML / HTML tags, parser validation tagged data with custom built application software.

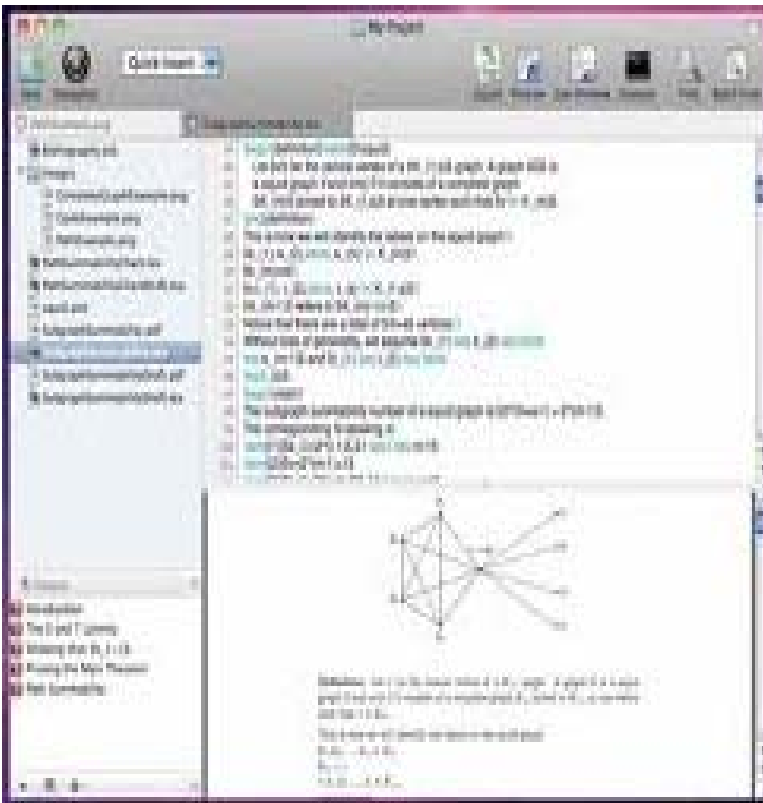




## XML / SGML / HTML Conversion

### We do the following :

- ✓ Conversion of textual content into XML/SGML as per client's DTD (Document Type Definition).
- ✓ Analysis of Text Contents.
- ✓ Incorporation of XML / HTML / SGML tags.
- ✓ Parser validation of tagged data with custom built application software.
- ✓ Word/PDF / Text to XML/SGML
- ✓ Indesign / Quark to XML/SGML





# Data Migration

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## Between Digital Data Stores



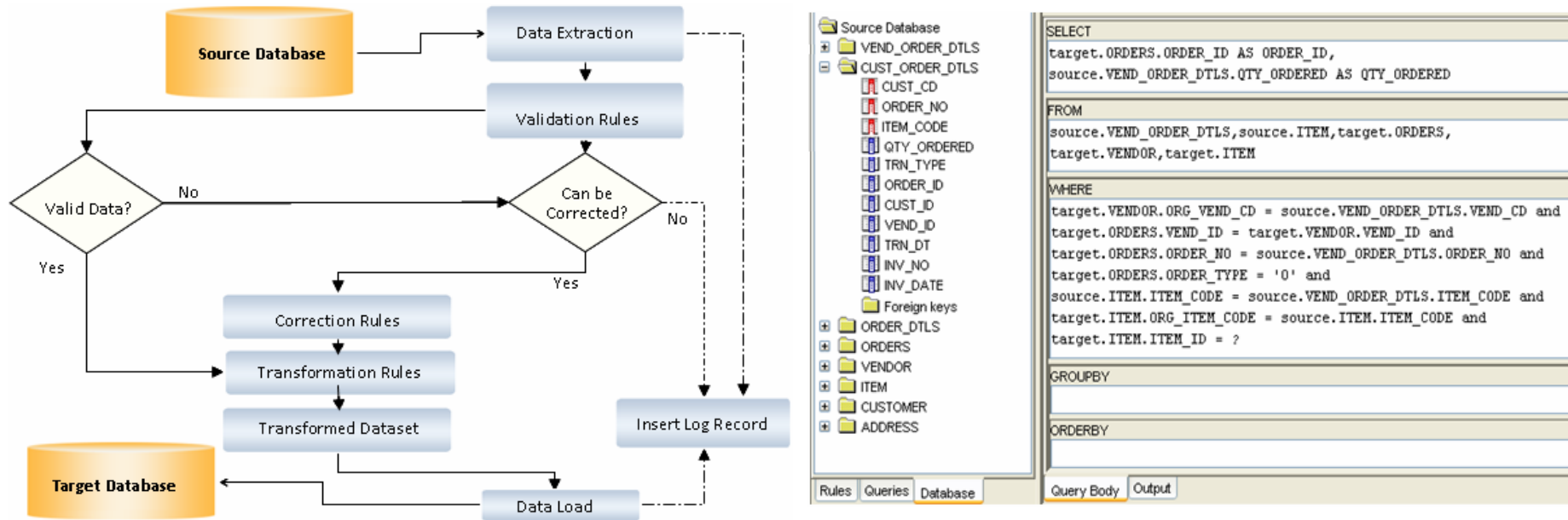


- **Solution for diverse platforms**
  - Legacy data stores like Flat Files, IDS-II, IMS, ADABAS to any RDBMS (DB2, Oracle...)
  - Any existing RDBMS to another (DB2 to Oracle, Oracle to MS SQL Server...)
  - DM due to applications implementation or replacement (like ERP, Banking etc.)
- **Lower project risk**
  - High automation - minimal manual intervention
  - Consistent quality - high accuracy
- **Faster delivery, Lower cost**
  - 30 – 40% reduction in time and effort

# Solution Advantages

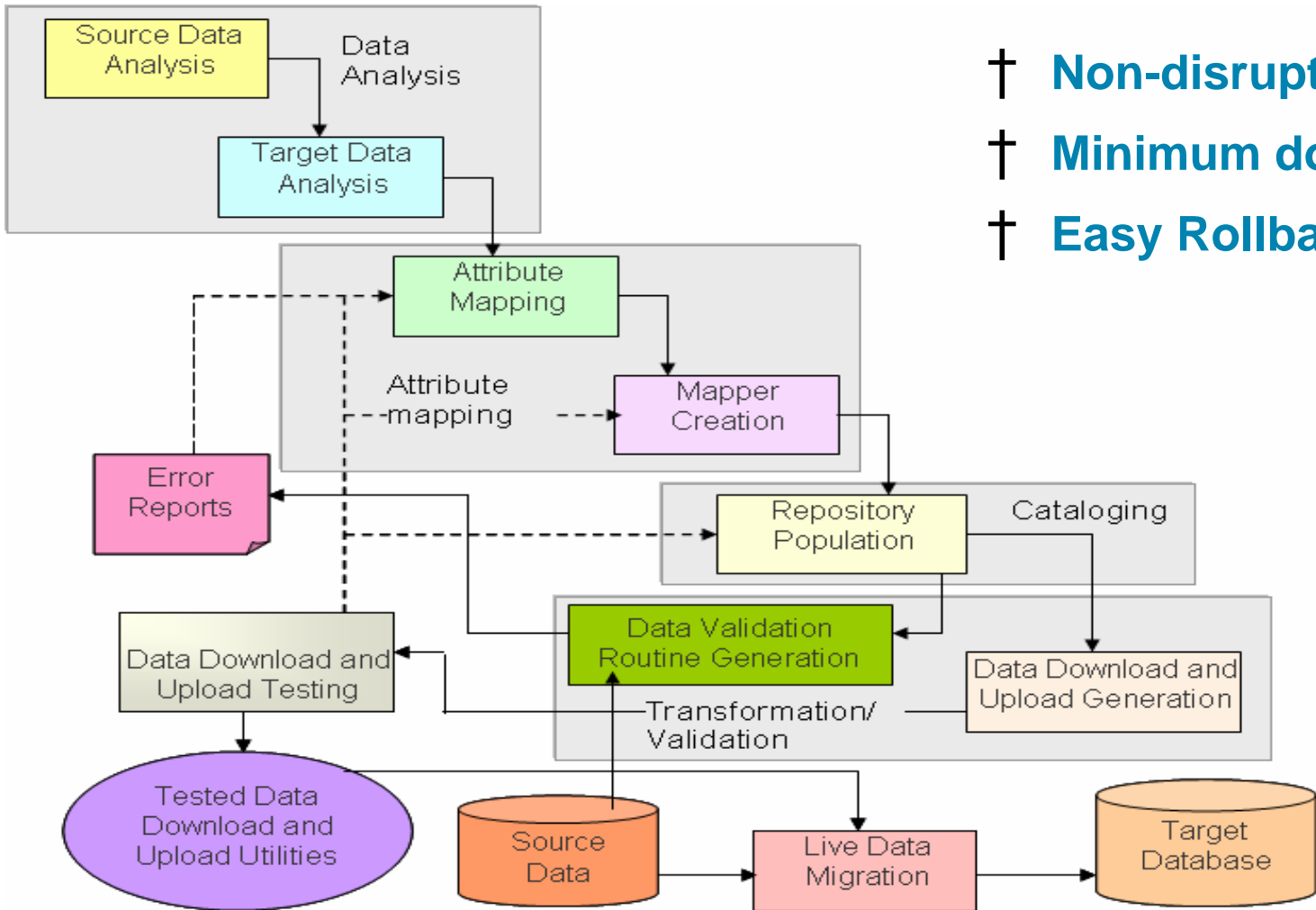


- Tool based data analysis, mapping and transformation
- Automated data validation
- Incremental implementation in the target environment
- Seamless process to support the tool based migration





# Process Description



- † Non-disruptive
- † Minimum down time
- † Easy Rollback



## Customer Profile

**An automobile manufacturer in Japan.**

Data migration from heterogeneous legacy data sources to RDBMS.

Data Volume - Appx 10 GB

## Source and Target Platforms

### Source

HITACHI mainframe  
OS: VOS3  
Data: Flat Files and  
ADABAS

### Target

IBM AIX/  
ORACLE 9i.

## Challenges

- Re-modeling the ADABAS data model to fit Oracle 9i database and meet the same performance level of the existing system.
- Migration of ADABAS to ORACLE 9i
- Bit data handling.
- Handling of Japanese characters
- Conversion of EBCDIC data to ASCII

## Solution Approach

Automated tool assisted in migration of:

- Remodeling ADABAS data model to Oracle 9i.
- Flat files from mainframe to AIX environment.
- Tool generated data migration / validation utilities used.
- Live data migration



## Customer Profile

### Department in the Government of South Africa

Client had an ICL Trimetra LY mainframe for running their mission critical Claims & Benefits applications at Compensation Commission (CC) based on COBOL using Flat files .

Data Volume – Appx 16 GB

## Challenges

- The application had very little documentation and low technical inputs from the end users.
- The deployment platform of the migrated application.

## Source and Target Platforms

### Source

ICL Trimetra / VME /  
Flat Files

### Target

SUN / Solaris  
ORACLE 9i /  
Oracle Pro\*COBOL

## Solution Approach

- A very high degree of automation was adopted to :
- The COBOL based flat file data model was transformed to Oracle 9i.
  - Oracle table wise automated Oracle database access utilities in Pro\* COBOL were generated
  - The data got transformed from flat files to Oracle 9i.
  - A major portion of the work was executed offshore at Kolkata resulting in further Savings.



3. Transformed application database in VAX/RDB to a freshly developed VB application with Oracle as back-end for a client in the Netherlands. The entities & relations in source & target applications were completely different.
4. Data migration from heterogeneous sources like COBOL files, Dbase, Excel etc. to Oracle 9i for a power utility in India. The major challenge was to map and transform data from heterogeneous model to a single unified schema.
5. Application and data migration for Water Billing System for a city office in USA. IDSII database was migrated to Oracle 8 employing Metalogic toolset, which included following activities:
  - Data migration utilities were generated through the tool for downloading data and uploading to Oracle Database
  - During download and upload Y2K compliance was implemented.
  - Automated data validation



# Data Migration

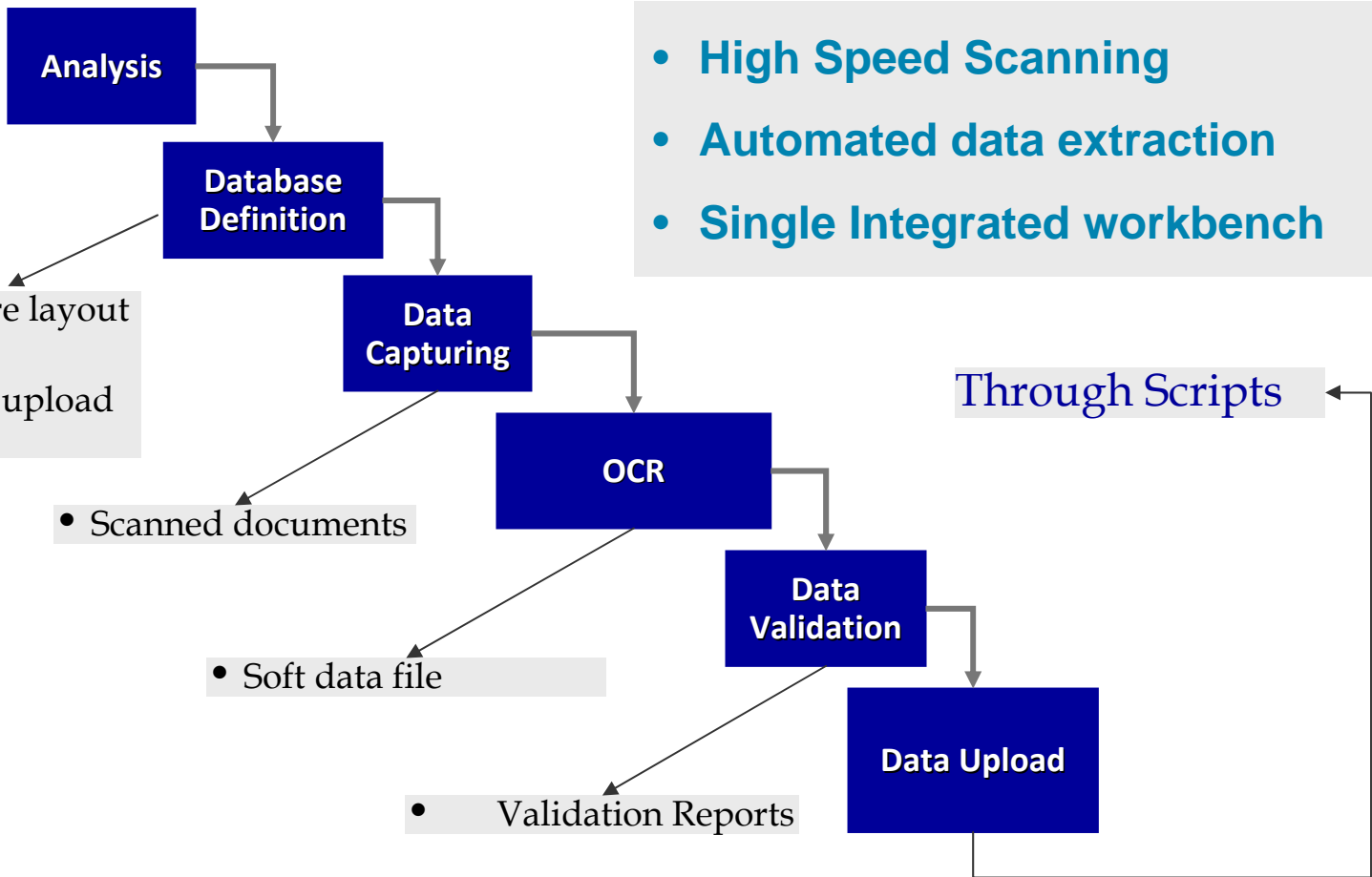
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## From Manual to Digital Data Store



[www.metalogic systems.com](http://www.metalogic systems.com)







## Metalogic offers ongoing data migration and reporting solution to a major SI vendor for an insurance customer :

- Scanning the following documents:
  - Invoice
  - Printout of detail Excel sheet
  - Acceptance certificates
- Extraction of information from the scanned documents through OCR technology into soft data files in predefined formats
- Quality assurance of the captured data
  - Using QA scripts
  - Manual check
- Uploading the captured data to My SQL DB using upload scripts.
- Generation of messages / alerts / reports against duplicate invoicing
- Providing various kinds of reports on completed / uncompleted batches
- Secured web-based interface to track workflow as well as easy access of documents / reports



# EDMS

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## Metalogic Solution on Open Source

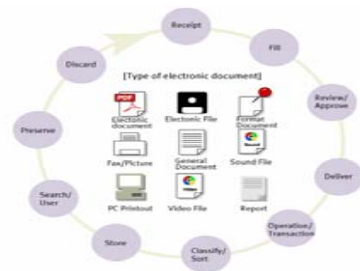
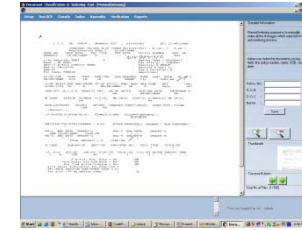


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# Metalogic EDMS Solution



- Document Scanning and QC
- Auto-indexing through OCR / ICR
- Implementation and Integration of EDMS system (based on open source Alfresco)
- Support and Maintenance of EDMS system





- **FIND:** Find documents and files in seconds rather than hours.
- **SHARE:** Allow more than one worker access to the same document at the same time.
- **VERSION CONTROL:** Version control gives you the ability to manage document changes and revisions--including going back to a previous version of a document.
- **CENTRALIZATION:** Store department or workgroup documents in a central storage area.
- **SECURITY:** Set document security for who can view and update files.
- **AUDIT:** Verify who viewed and made updates to documents.
- **ARCHIVING:** Set ***retention*** periods for documents, and schedule archival or removal processes.





- **Web Content Management in Commercial portal for Indian Utility:**
  - Metalogic migrated 32 websites of an Indian Utility from heterogeneous platforms to a open source stack (JSP-JBOSS-MySQL on Linux)
  - As part of this migration Metalogic implemented a comprehensive web content management system to maintain and manage the information from all the websites.
  - Metalogic's WCM solution was based on Alfresco WCM community edition.
- **Document Indexing and upload for Insurance EDMS:**
  - Metalogic developed a tool to bring in automation in the document indexing process of the largest Insurance company in India (through a SI partner).
  - Metalogic is providing the scanned policy document upload service on a continuous basis from 2048 branch offices and 105 Division offices, servicing on an average 35 million policy documents per year.



# Portal and Open Source Technologies

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## Metalogic Capabilities





## Services

- Portal conceptualization (intranet & internet)
- Framework evaluation
- Architecture of Usability & Information
- Portal Implementation
- Database Optimization
- Portal re-engineering, platform upgrade and migration
- Third party web services integration
- Portal hosting, support, upgrade and enhancements

## Experiences

- B2B and B2C e-commerce portals
- Corporate Intranet and Internet
- Web Service integration portals
- e-Governance portals
- Digital Content Distribution portals
- Online Store
- User and Content Management portals

## Enterprise Application Development

**Application Servers:** WebSphere, WebLogic, JBoss  
**Rich UI:** AJAX frameworks, Flex  
**Web Frameworks:** Struts, Spring MVC  
**IoC Containers:** Spring  
**ORM using Hibernate**  
**Databases:** MySQL, Oracle, DB2 UDB, SQL Server

## Open Source

Eclipse  
JBoss  
Metadot  
LAMP  
Jasper  
Pentaho  
Subversion  
AgroUML  
Alfresco WCM/DCM

## Tools / Technologies

Eclipse  
UML  
OCL  
Design Patterns  
Web Services  
Portals & Portlets  
Workflow Systems  
Web 2.0 best practices  
.NET framework

## Microsoft & Others

.Net Framework  
IIS, ASP.Net, C#, VB.Net  
CLR Profiler  
PHP  
Perl  
Ant  
Parsers / ANTLR / JavaCC

## Java EE Stack

Core Java, Servlets  
Java Server Faces  
JMS  
JPA & EJB  
Connectors, JTA, JAF  
Java EE Management & Security



- **E-Governance Portal**

- Metalogic Systems successfully implemented e-Procurement portal for one of the major State Government in India. The scope of the project is to implement a single, unitary, end-to-end e-Procurement solution in the state. The modules include e-Tendering, e-Auctions, Indent Management, Contract Management, Catalogue Management, e-Payments and MIS. The solution was developed using various open source technologies.

- **Web Portal for a Kitchen Appliances Company**

- Metalogic Systems has developed a Web Portal for a Canadian kitchen appliances manufacturer. The scope of the project included end to end development of a B2C portal with payment gateway facility. The portal application was developed on MS.Net platform. Metalogic was assigned the work of maintaining the portal after deployment



# Thank You...



[www.metalogicssystems.com](http://www.metalogicssystems.com)