Logilab SDMS

A mature & proven Scientific Data Management System.

Logilab
SDMS

INDUSTRIES

"Capture, Catalog, Retrieve, Archive & Integrate"
Integrated Scientific Data Management.

- Pharmaceutical
- Drug Discovery
- Clinical Research
- Food & Beverage
- Chemicals
- Metal & Mining
- Oil & Gas
- Environmental
- Contract Research Organizations (CRO)
- Forensics
- Agriculture
- Bio-Banking

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About Logilab SDMS

LogiLab SDMS is generic software designed to handle scientific instrument data from any analytical instrument and can facilitate data management with access control. System will perform scheduled data capture, cataloguing, archival and facilitate restoring data and has capabilities to extract data of interest from instrument output to be pushed to external systems like ELN, LIMS or ERP.

The data files captured are stored as flat files in a secure FTP file server as an encrypted file name. Data access and viewing is controlled through user rights providing data security. The meta-data like data source, date/time, file size, checksum and user entered tags along with parsed and extracted data is stored in the database.

Full text indexing allows strong search facility ensures availability of required data instantaneously.

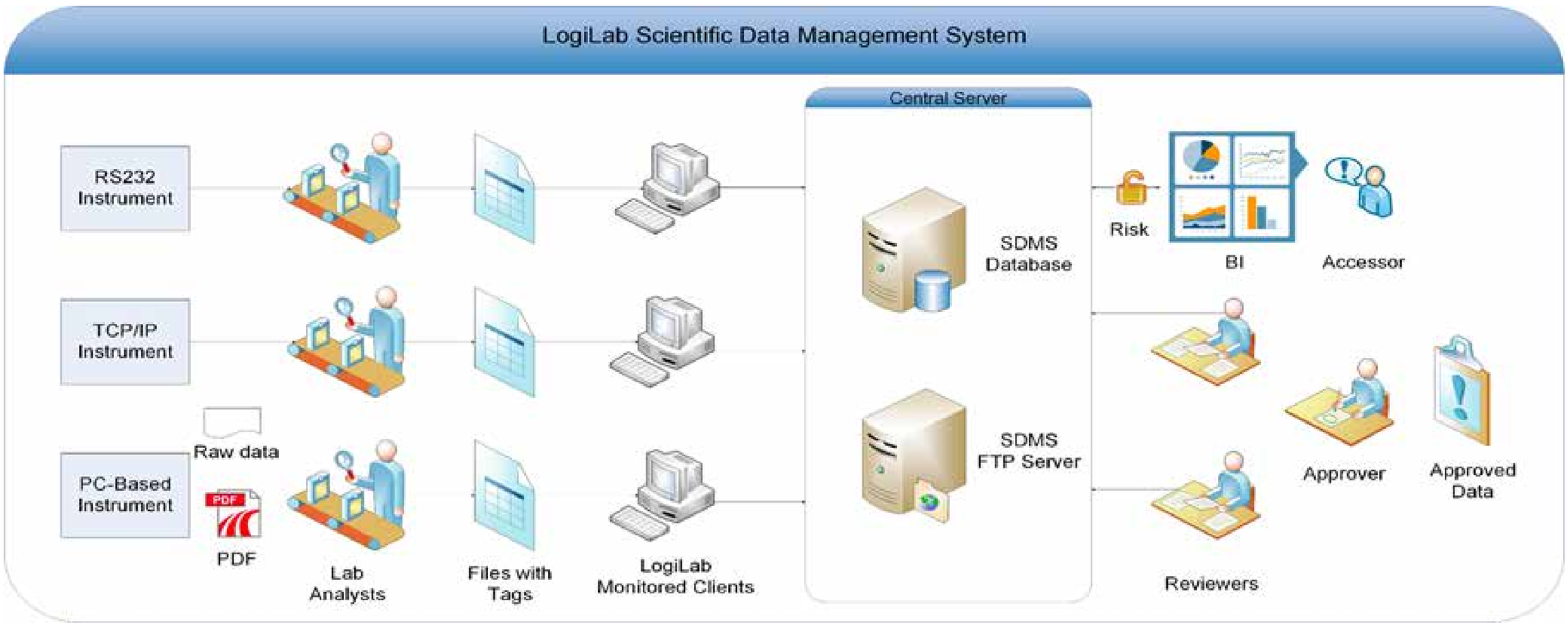
Built-in integration tools allow you to integrate external systems as well.

Logilab SDMS Features

Versatile Data Capture – Any instrument data of any format

Logilab SDMS has the capability to automatically capture data from wide-range of Intruments and Computer systems. It has the following functionalities related to data capture:

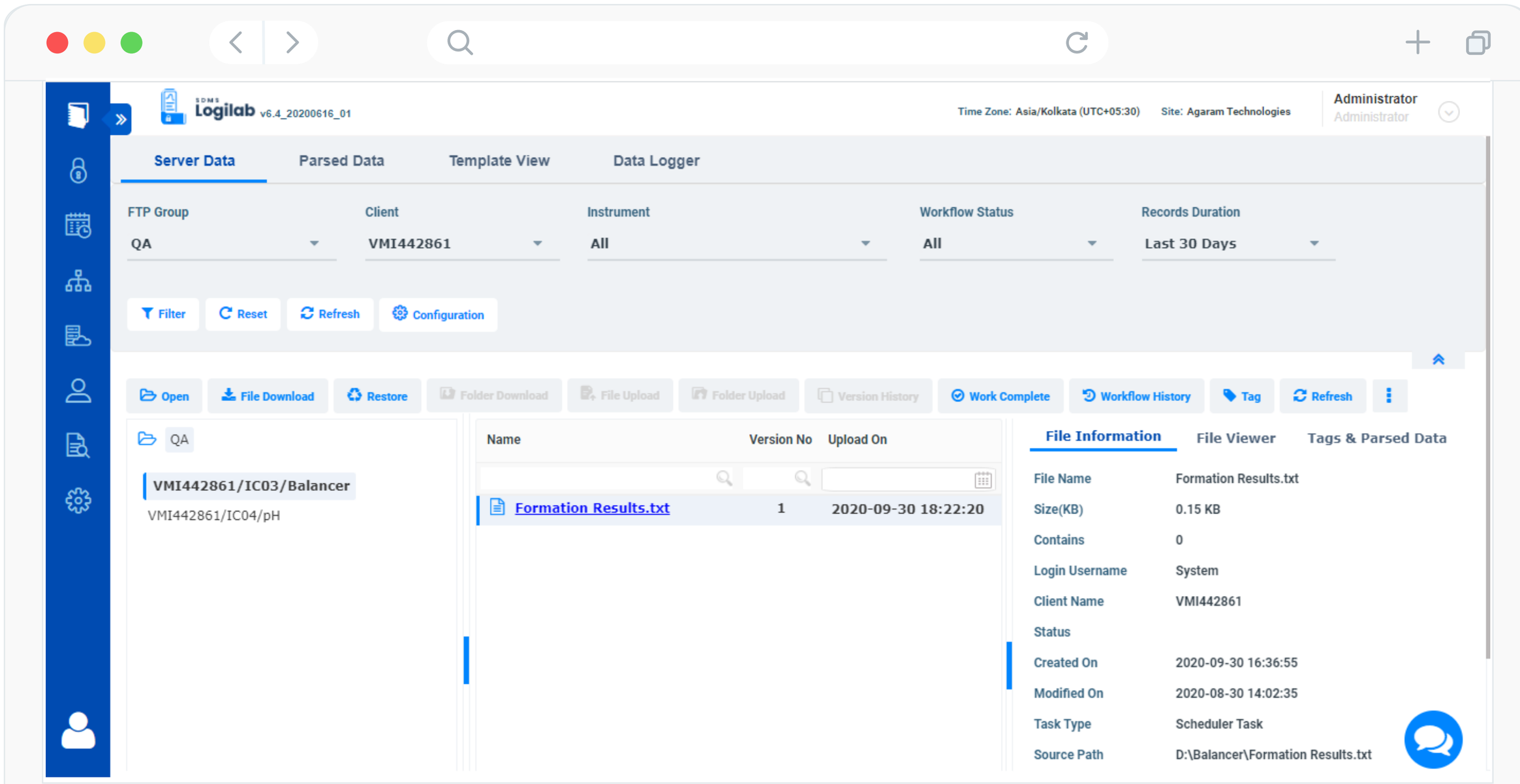
- Supports RS3232 & TCP/IP Protocols
- Supports any file formats
- Supports nonstandard/non-compliant devices using Pull Method
- Retains original file format
- API interface available for integration



Fully automated, secured, error-free file handling by SDMS Scheduler

Logilab SDMS has Data Scheduler as the core functionality which carries out the following:

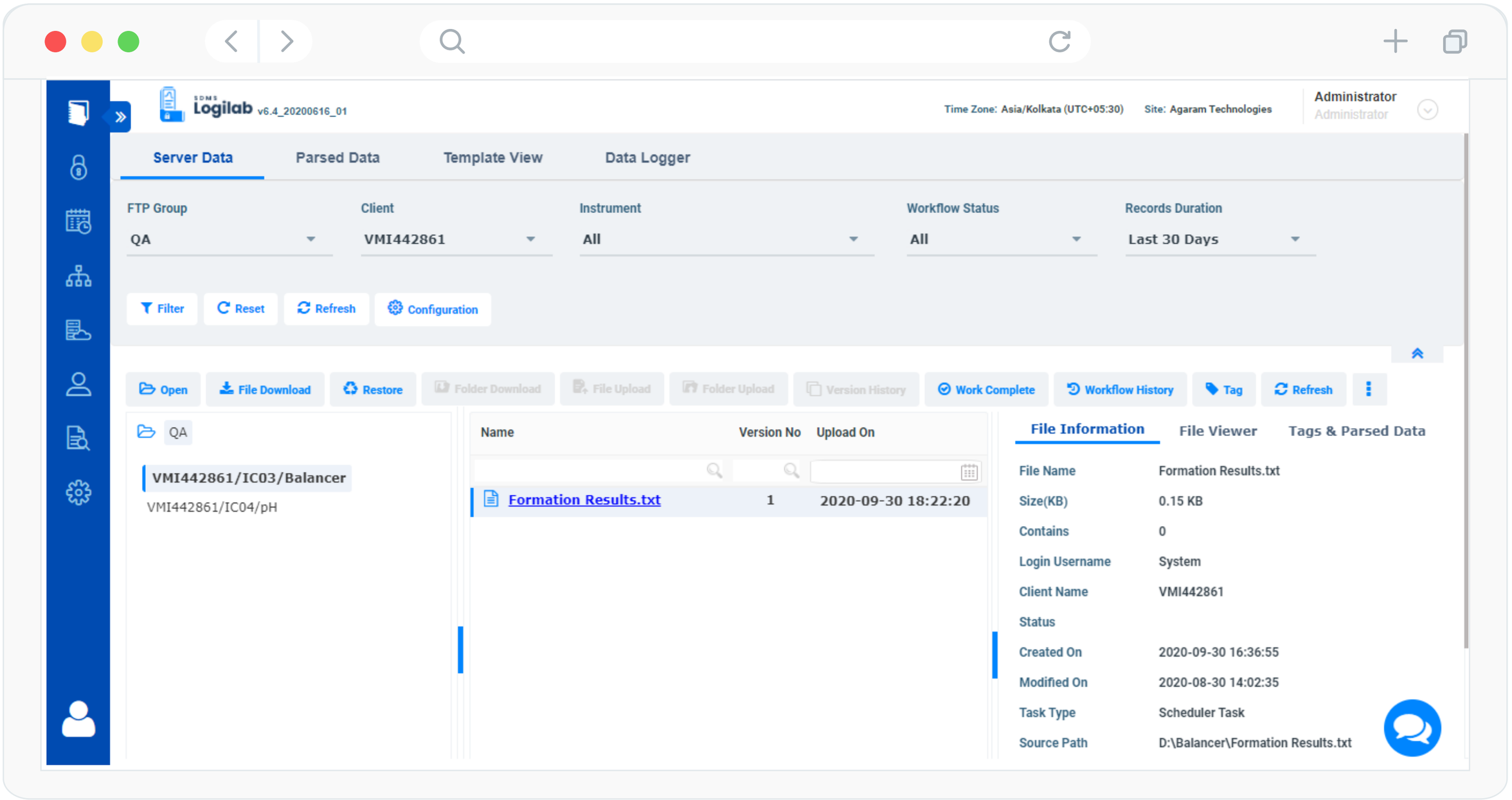
- Fully automated & error-free capture of data without human intervention
- Options of time-based scheduling and live-capture
- tores Instrument data in FTP file server in secured manner
- The original folder structure can be replicated in the file server (easy files organization)
- Option to setup Deletion of files in clients
- Version control of Files updated in the source
- File type watcher to look for specific file type to be stored (file filters)
- Server duplicate file delete policy



Easy Navigation, Secure, Faster & Wider search by Data Explorer

SDMS has data explorer page which facilitates the user to search the data easily and faster.
It has the following functionalities:

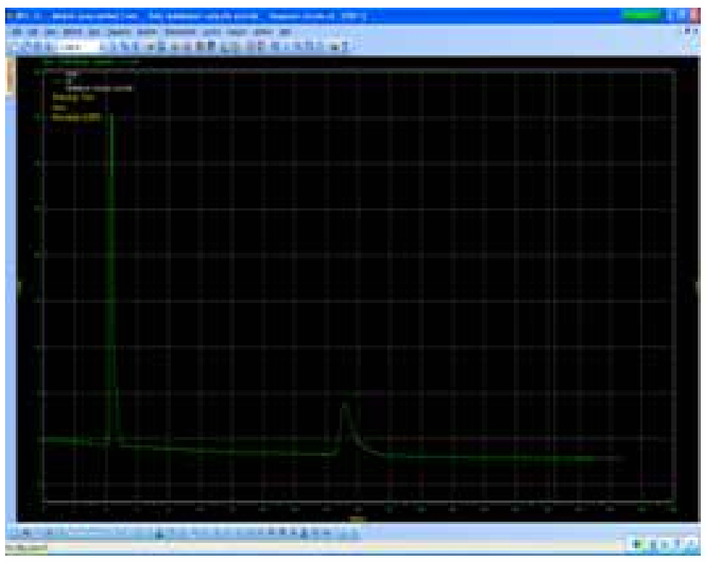
- Simple intuitive user interface
- Wide search criteria (filter based on multiple parameters) ensures faster data retrieval
- Ability to view all versions of file in the server
- File content preview
- User role-based search for secured data access
- Ability to restore, download and upload folders/files
- View and search files based on tags, parsed data & template
- Ability to use workflow to review and approve with electronic signature for better compliance

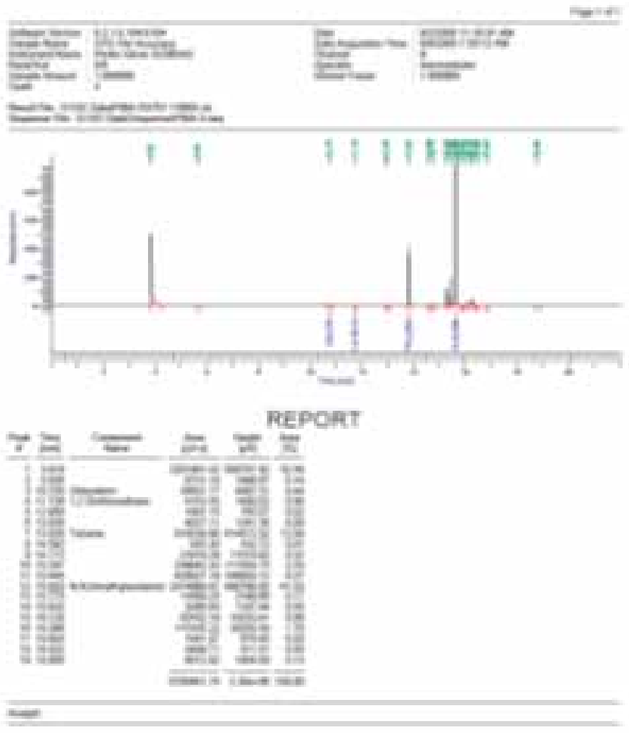


Human Readable Data for 21 CFR Part 11 compliance – PDF & Print Functionality

Human Readable data is a mandatory item to be captured as per 21 CFR Part 11 and SDMS fulfils this requirement by the following:

- Ability to store the pdf data or report files directly
- Built-in virtual PDF printer
- Generate PDF files from instrument data files and store it in the system
- Users can directly generate and print the PDF files

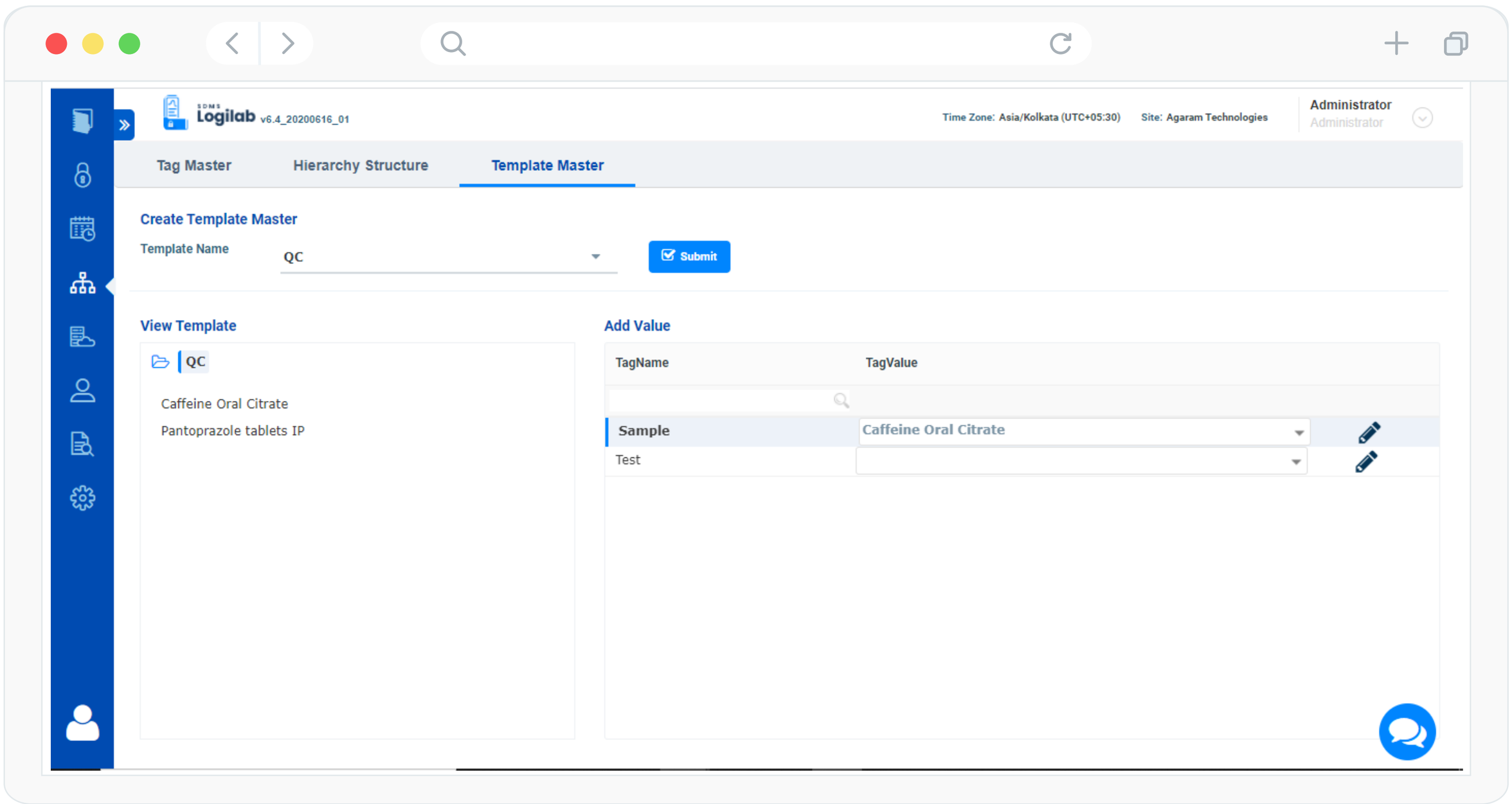




Comprehensive organization, categorization and standardization of data – Tagging

SDMS enables users to have a better organization, categorization, standardizing of data to improve the quality using 'Tagging' Functionality.

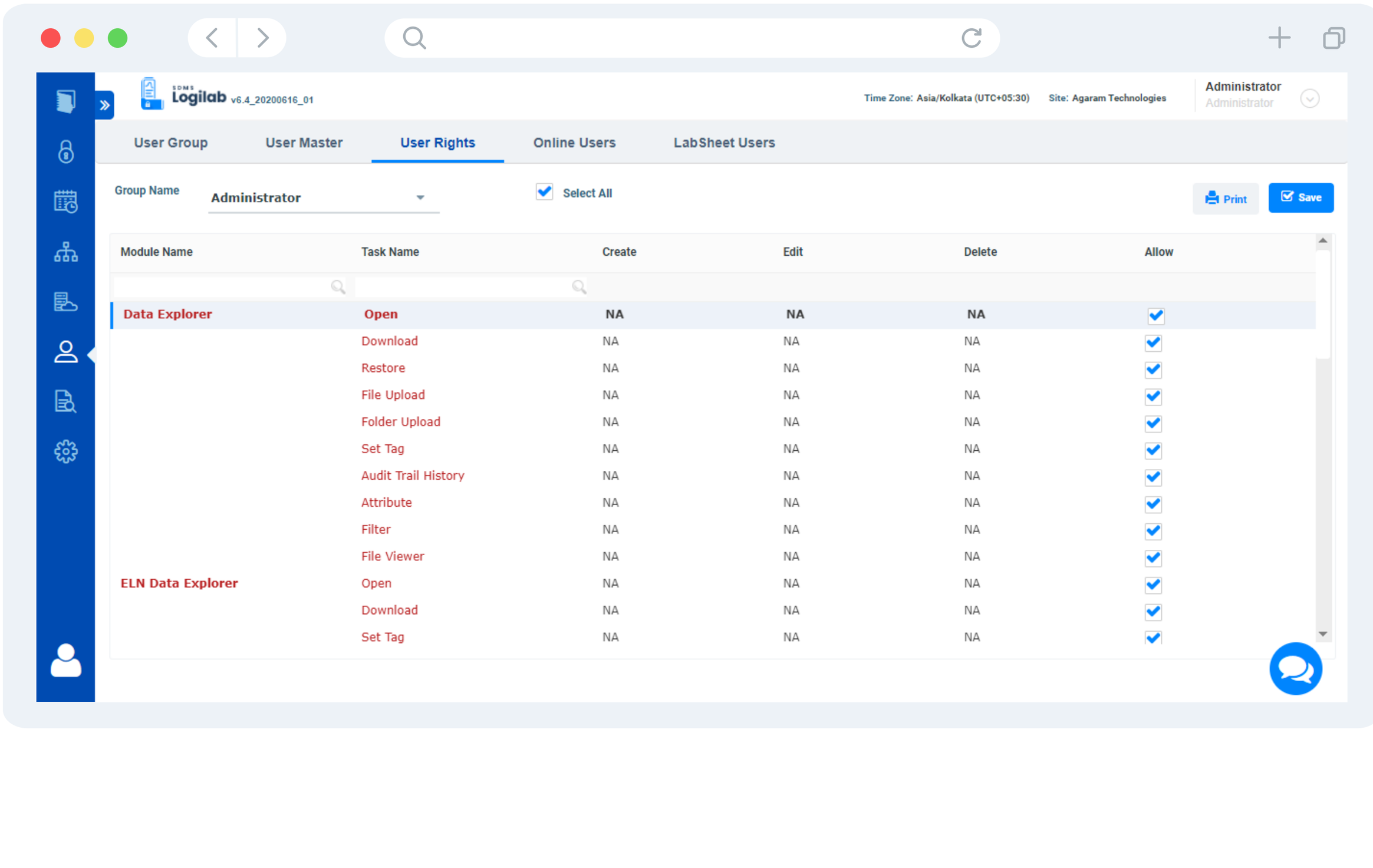
- Instrument data tagging by metadata namely Batch number, project, sample, etc. to logically segregate
- Pre and Post tagging facilities providing flexibility
- Easy and faster search the instrument data based on tags



Absolute security and control of operations – User & Password Management

Logilab SDMS has a full-fledged user access, roles and rights management system. It facilitates the following in terms of better security and control of operations:

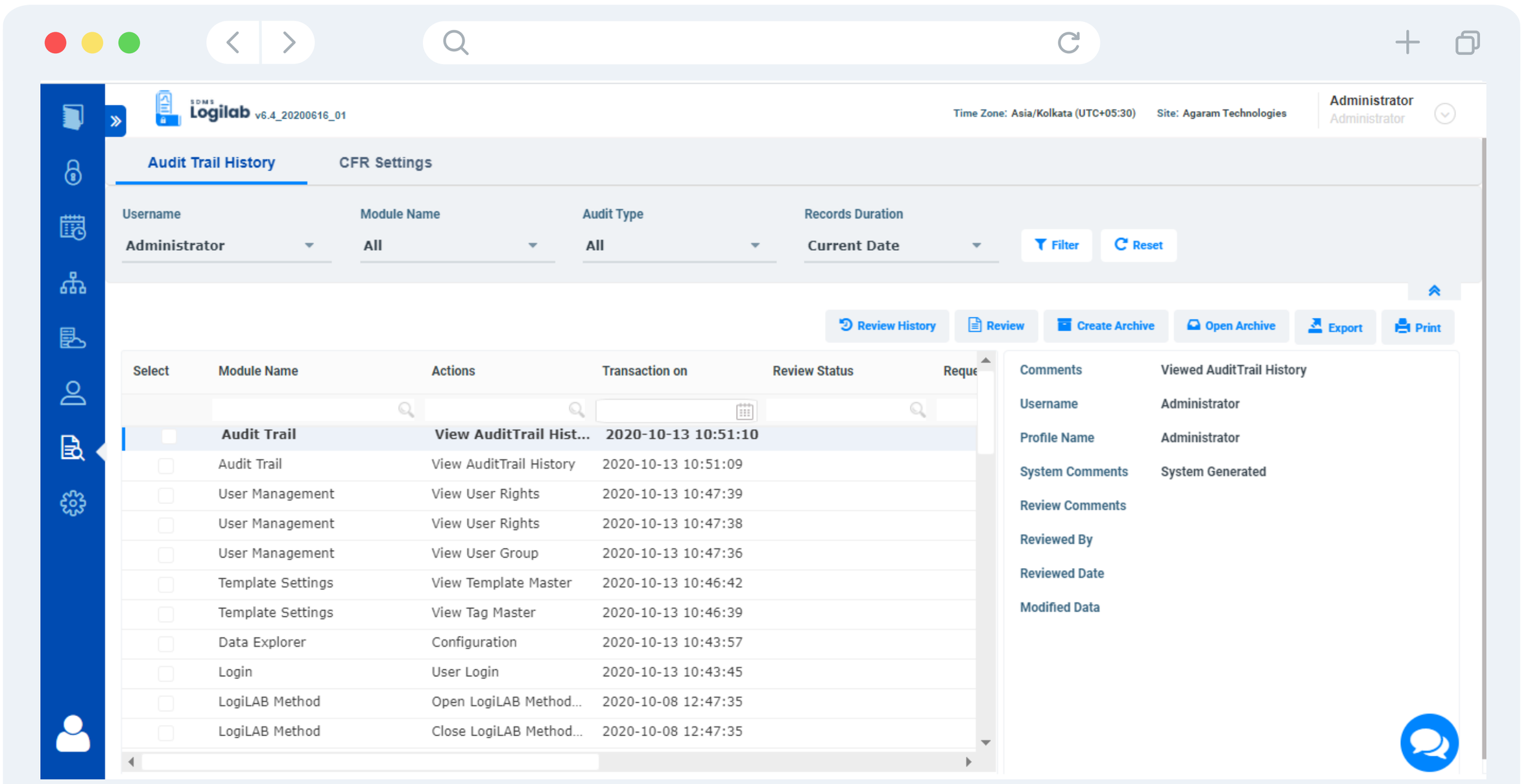
- ✔ User and User group creation by Admin user
- ✔ User authentication (create, edit, delete, view, etc.) setup by Admin user for various function pages of application
- ✔ Password policies setup by Admin user to comply 21 CFR Part 11 and Eudralex Annex 11



Encyclopedic Tracking, Easy Troubleshooting – By Audit Trail

SDMS has Audit trails module to ensure better tracking and easy troubleshooting by the way of following:

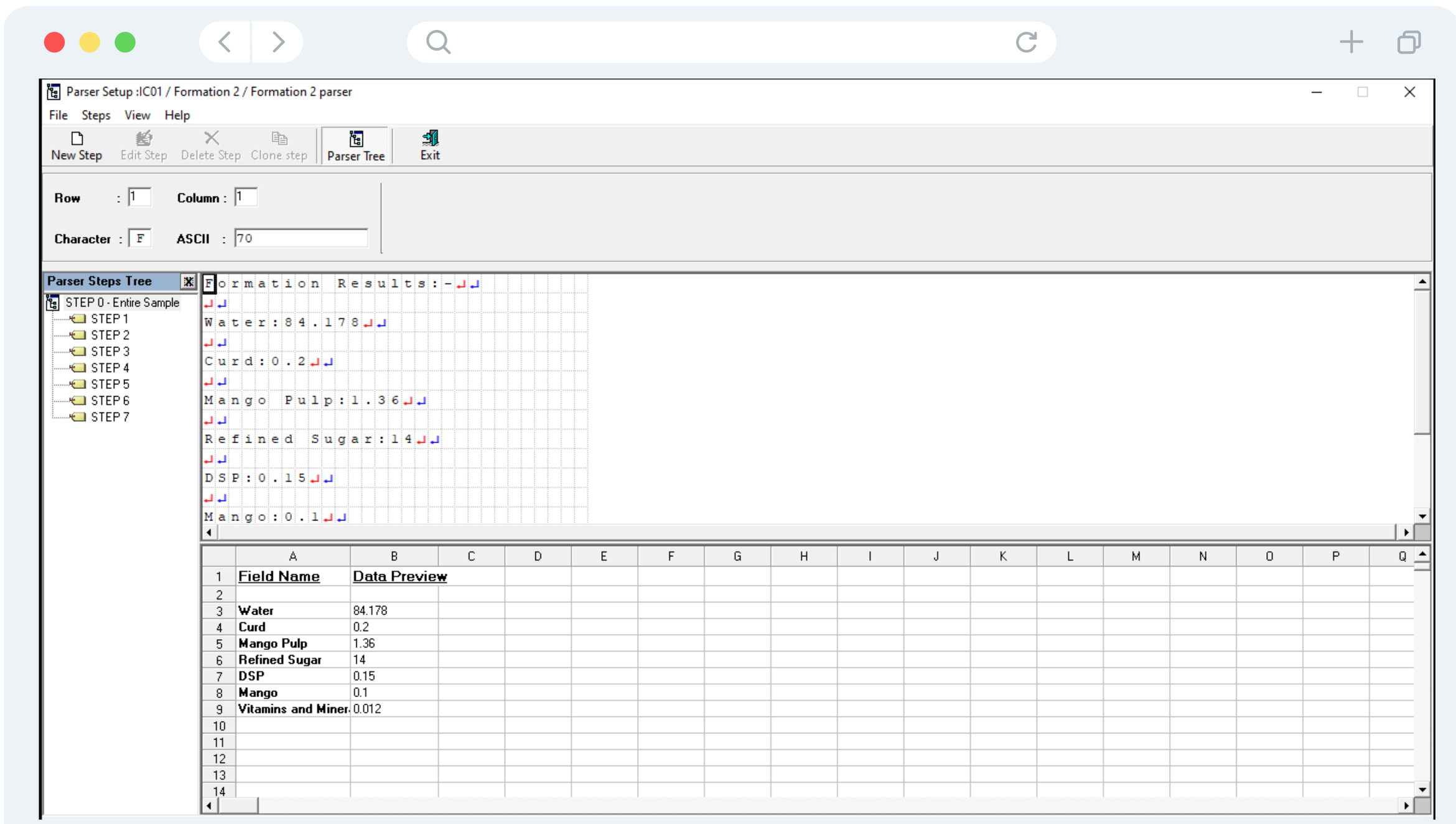
- Records all user & system action (uploads, downloads Logins, Logoffs, failed logins, password policy, etc.)
- View audit trail records by filtering based on user, module, time, type of audit trails, etc.
- Possible to review specific audit trails and record/mark them.
- Export audit records for reference.
- Data with Time stamp recording: who did what and when and why at any point in time.
- Record any communication failures of instrument to facilitate easy troubleshooting.
- View audit trail records by filtering based on user, module, time, type of audit trails, etc.
- Password policies setup by Admin user to comply 21 CFR Part 11 and Eudralex Annex 11



Easy extraction of data of interest – By Parsing Engine

SDMS has built-in parsing tools to setup how to extract specific pieces of data from the instrument output.

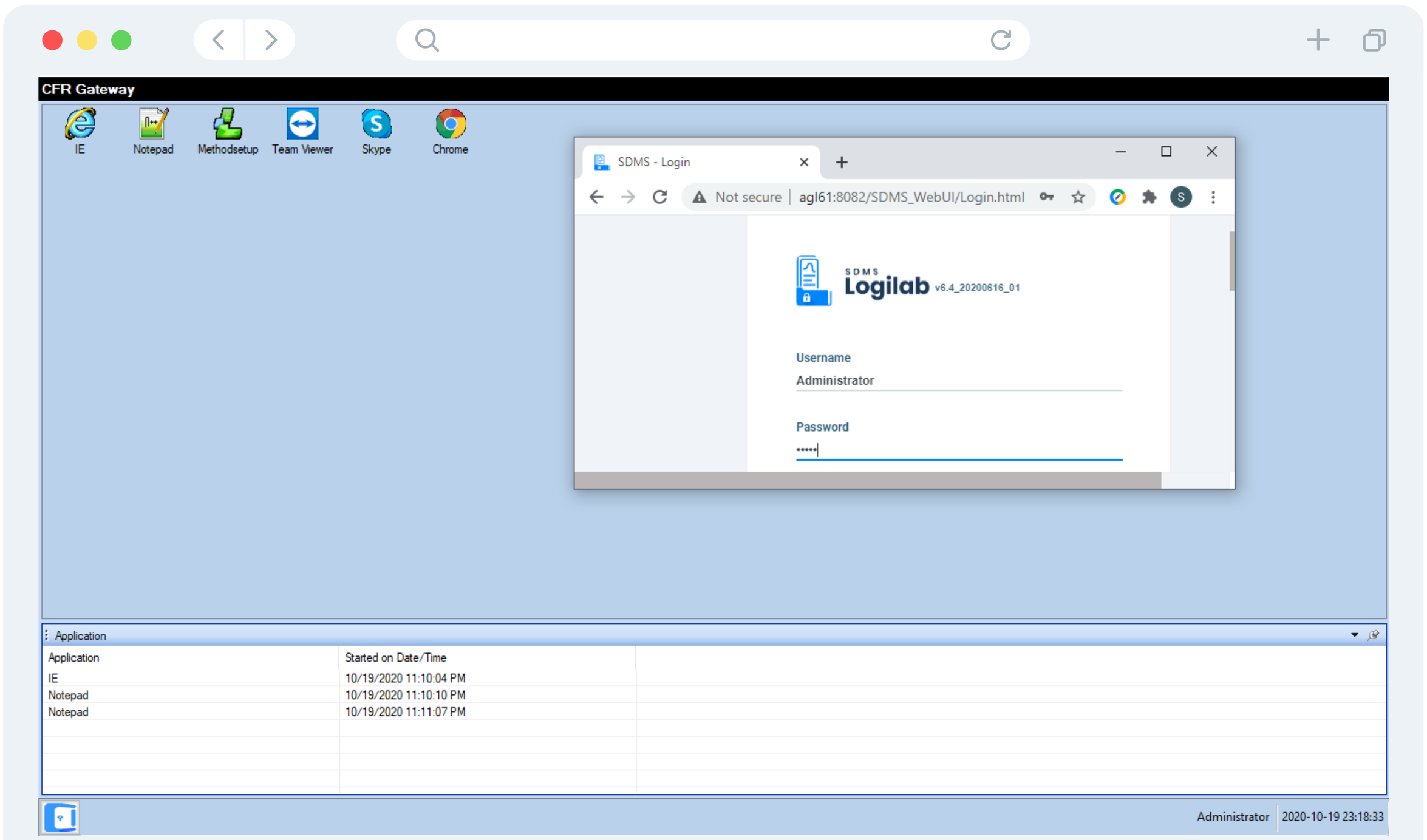
- There is no complex coding or scripting involved
- Users can use easy to use interface to create parsing logic
- The parsed data can be used for further integration of data from Logilab SDMS to external systems.
- Improved accuracy, automation in data processing and reduced errors due to reduced human tasks

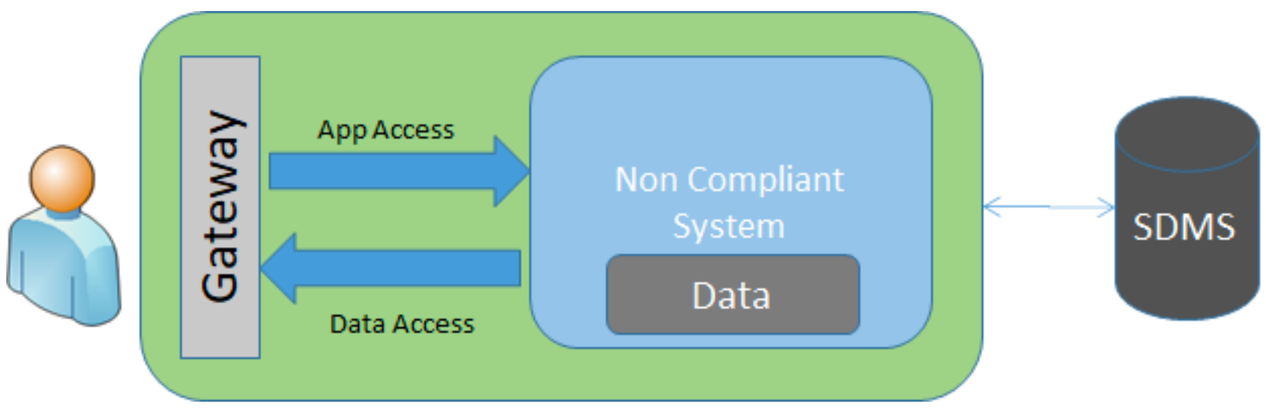


Complete Access Control of all applications including non-complaint ones – CFR Gateway

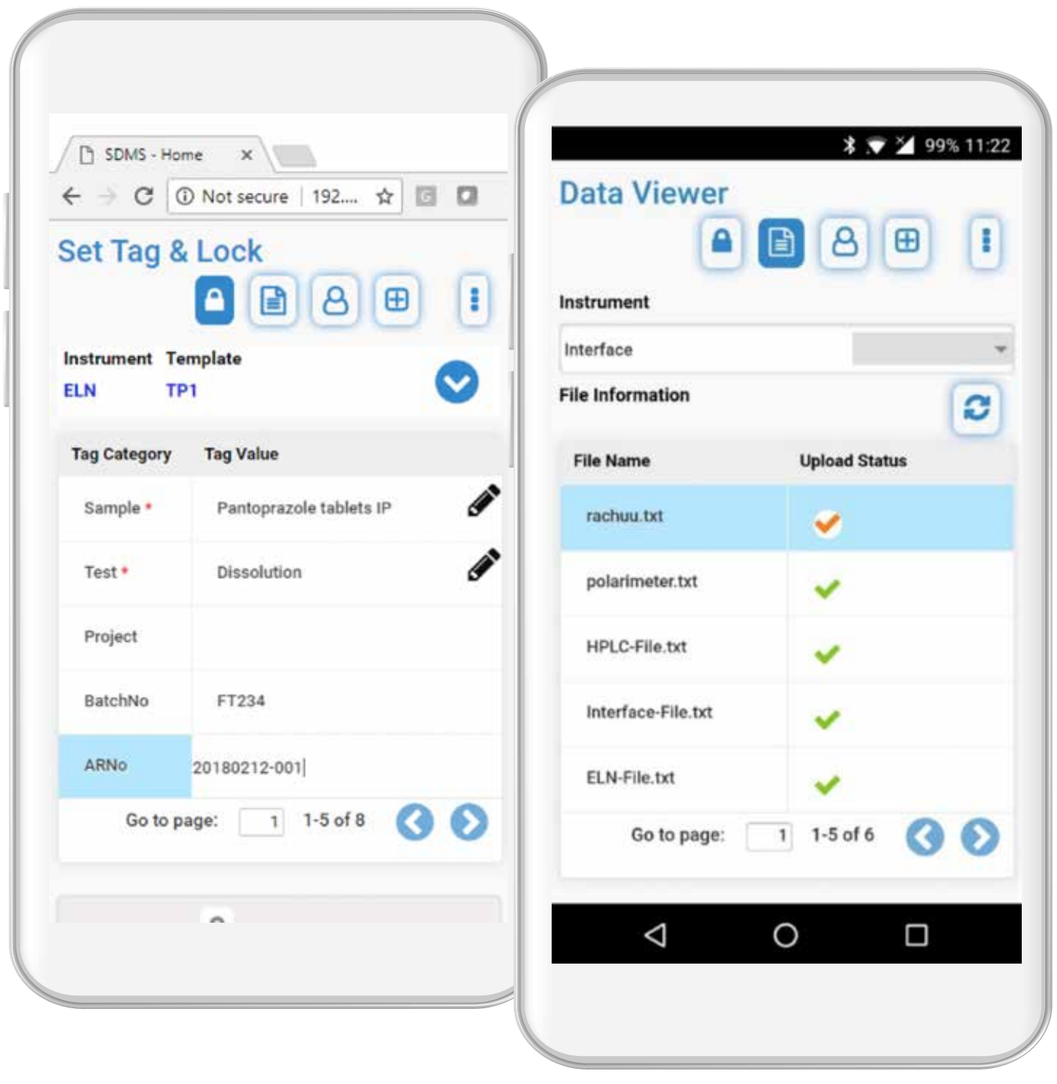
CFR Gateway is a unique solution, used to have user and data access controls for those instruments which do not have compliance-related features. This effectively provides controls by the way of following:

- ✔ It acts as a first application that will run immediately after booting
- ✔ Publish applications through a central Gateway
- ✔ User based rights for applications
- ✔ Audit Trial of all User events
- ✔ Automatic capture of Instrument files
- ✔ Controls desktop, folder & files including copy, paste, delete, rename, modify
- ✔ Comply with CFR part 11 and Data integrity guidelines





Mobile usability to contemporaneously record data – By SDMS Mobile application

SDMS mobile application can be used to lock the instrument and contemporaneously capture the metadata

- Any mobile devices like tablets, mobile phones, etc. can be used instead of manual entry on papers
- Highly flexible and easy for the users to reach and capture data even from the places where there are no PCs or Desktops
- Ability to view the instrument data (while using the mobile device) by the users
- Ability to record contemporaneously fulfils data integrity norms of US FDA, MHRA & ALCOA principles to be followed in laboratories.