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Technical Bid Document

--- IRIS iDEAL® (RBI CIMS Reporting Solution)

IRIS XBRL

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1. Background

The Reserve Bank of India (RBI) established the Database on the Indian Economy (DBIE) as an enterprise-wide Data Warehouse (DW). Its purpose is to maintain both current and historical operational data and to construct a state-of-the-art decision-making infrastructure with On-line Analytical Processing (OLAP) capabilities. In light of the evolving environment of the Bank and its regulated entities, the RBI initiated the Centralized Information Management System (CIMS) project to overhaul the Data Warehouse system.

Currently, for OSMOS, the Priority Sector set of OSS, and various other returns/forms, reporting is being conducted in the XBRL format. The RBI has developed a roadmap for the CIMS, which outlines the gradual migration of all bank reporting to the RBI through the CIMS platform. Within the CIMS project, it has been identified that more than 250 forms need to be reported in both XBRL and Non-XBRL formats. The taxonomy for many forms has already been released, and for the remaining forms, releases will be rolled out gradually. Additionally, there are plans to progressively shift another set of reports to the XBRL format. IRIS presents an integrated/standalone XBRL-based solution aimed at automating the reporting process to CIMS in accordance with RBI guidelines.

IRIS iDEAL® solution (RBI CIMS Compliant) efficiently manages comprehensive XBRL reporting to the RBI for banks. In this project, the **Small Industries Development Bank of India (SIDBI)** will identify and consolidate reportable data from its various data sources into a consolidated data repository (CDR). Alternatively, SIDBI will provide the data in predefined database table structures or predetermined Excel formats to the IRIS application. IRIS will furnish the CDR database table structure/Input Excel Templates to SIDBI for providing reportable data, which will subsequently undergo data validation and XBRL generation. The iDEAL® Solution will utilize the data in CDR/Input Excel to generate XBRL instance documents and submit them to the RBI Reporting platforms.

IRIS's technical proposal describes how the iDEAL® Solution serves as a bridge between SIDBI's Centralized data repository (CDR)/Input Excel Templates and RBI reporting requirements in XBRL formats (CIMS Reporting). This solution has the added advantage of significantly reducing the time and effort required by banks to automate and submit reportable data in the required format to the RBI.

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2. About IRIS

IRIS Business Services Limited (IRIS) is an established provider of XBRL based solutions and services, and a member of the XBRL India Jurisdiction, as well as a direct member of XBRL International. IRIS has around 20+ years of experience in the XBRL space and offers a complete range of services and solution across the XBRL information supply chain.

Our suite of proprietary XBRL applications facilitates the creation, validation, analysis, and dissemination of XBRL data. Our solutions include standalone XBRL applications, end to end XBRL filing platform, as well as solutions that allow data extraction and mapping from legacy systems to XBRL formats.

Using its in-house pool of XBRL analysts, IRIS has converted more than 20,000 financial reports into XBRL format for Indian, US and UK companies. IRIS has a multidisciplinary team of more than 400+ professionals in the XBRL domain viz., taxonomy creation experts, software solution engineers, technical engineers and business analysts who can apply IRIS solutions to various environments.

IRIS has been offering XBRL solutions and services across the globe, and is proud to be associated with all XBRL implementations in India till date. IRIS has implemented XBRL solutions for the RBI, SEBI, BSE and the NSE. IRIS has developed the Taxonomy for RBI (Banking and NBFC), SEBI (Mutual funds) and for India Jurisdiction (C&I) for ICAI, as well as MCA. The IRIS XBRL Suite of offerings has been leveraged by clients in Africa, Europe, Middle East, South East Asia and The United States.

2.1 IRIS's XBRL Practice

IRIS has been front runner in engaging with reporting entities to adopt XBRL. IRIS's reporting clients includes BFSI entities. Following are the list of few notable XBRL projects executed by IRIS across the globe

a. Taxonomy development for RBI, BOM (Mauritius), NRB (Nepal), SEBI, ACRA (Singapore), Tadawul Stock Exchange (Saudi), ESCA (UAE), QFCRA (Qatar), and CBJ (Jordan)

b. XBRL based e-Filing platform development, deployment and maintenance for regulators.

c. **IRIS's XBRL solution is implemented in 85+ banks in India across PSUs, Private Banks and Foreign Banks as part of ADF-XBRL project**

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d. IRIS's conversion wing supports clients for XBRL filing with MCA and also for global regulatory filing for SEC (US) and HMRC (UK)

e. Conducts regular training program at many institutes namely IDRBT, ICAI, Corporates and Education Institutes

f. IRIS is an active member in various XBRL global forums.

2.2 What sets IRIS apart?

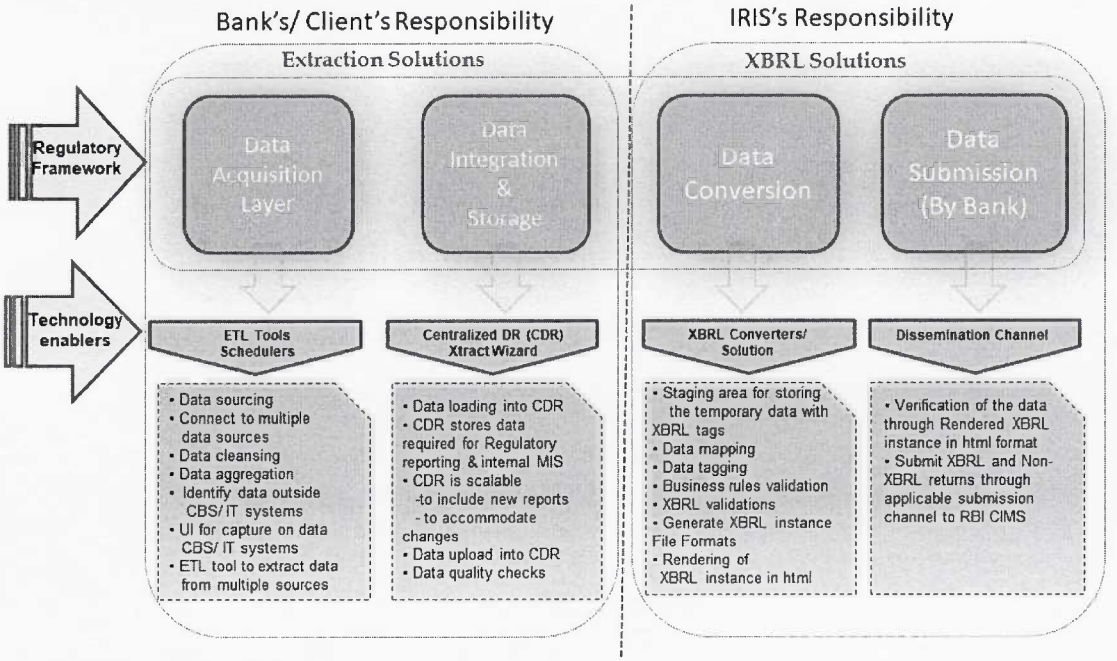
IRIS has repeatedly demonstrated significant flexibility in developing solutions that most effectively meet customer requirements. IRIS has developed complete workflow solutions with IRIS *iFile, IRIS Carbon®, IRIS iDEAL®* and IRIS Fin-X Proton and the components of the workflow are highly modular, which facilitates easy integration into the clients systems. The modular structure of our solution thus allows rapid customization according to the client requirements.

This, combined with the transparency and fairness that IRIS brings to any partnership including clients, ensures that we build long term strong relationships. The firm also believes in constantly looking at ways to improve its offerings to bring in higher levels of efficiency, flexibility, and automation. All of this reflects the fact has frequently won IRIS many repeat engagements from its customers. Many employees in the IRIS team participate in several of the XBRL International working groups, thus ensuring that XBRL is deployed according to the XBRL specification.

IRIS is also one of the few firms in the XBRL market space, which offer an entire range of services and solutions – from outsourced conversion service to electronic filing solutions, consulting services and other custom XBRL applications. IRIS' XBRL offerings therefore find application across domains and countries, not based only on a single opportunity.



3. IRIS iDEAL® Solution- Automating XBRL Reporting to RBI

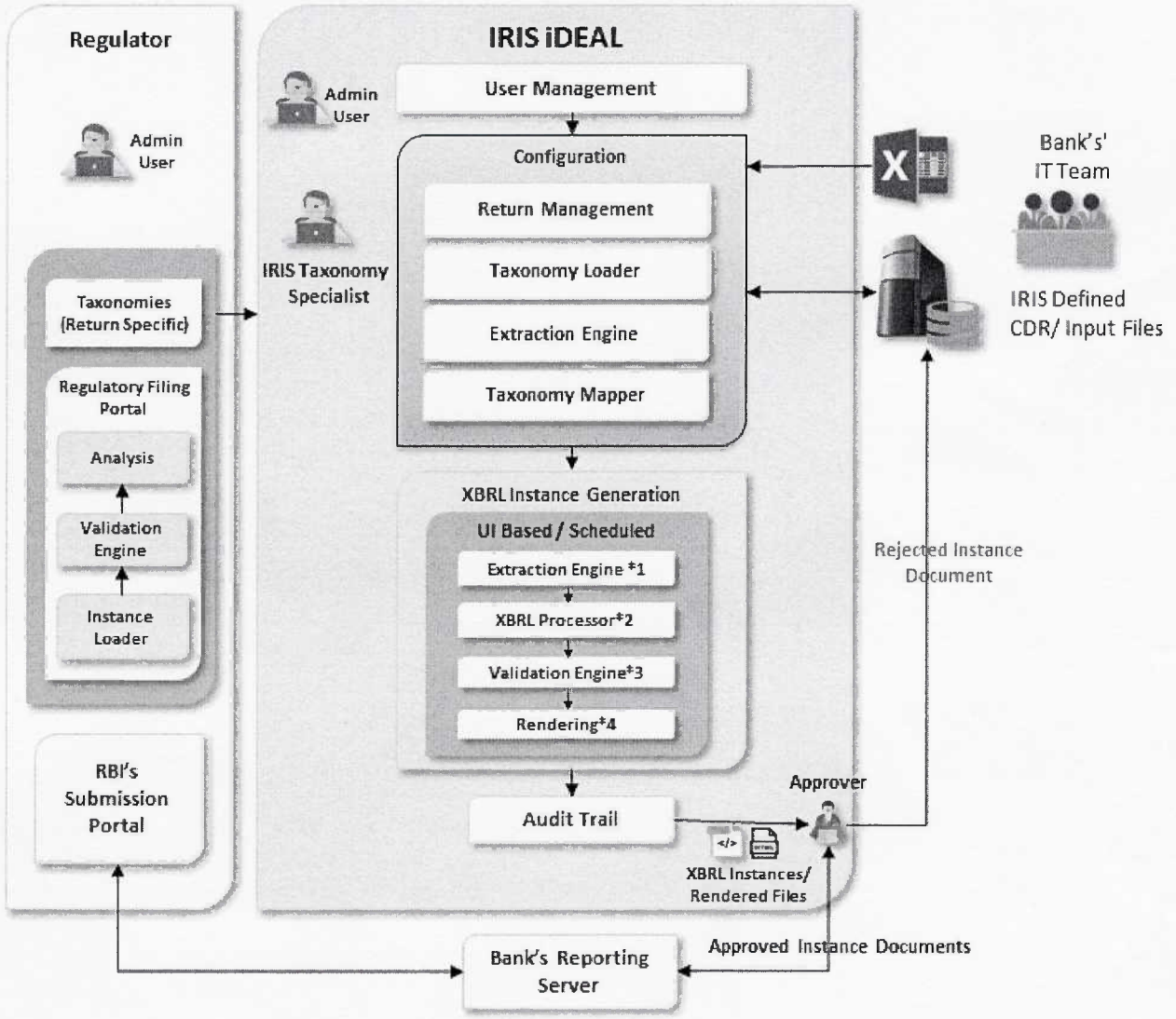


IRIS iDEAL® serves as a bridge between the bank's Centralized Data Repository (CDR)/ Excel Templates and the RBI's regulatory reporting, employing the XBRL format. Some of the key advantages of IRIS iDEAL® include:

- Direct Data Consumption: The software can directly extract data from predefined databases, Excel® files, and XML files.
- XBRL Instance Generation: It generates XBRL instances and rendering output seamlessly from the application.
- Automated XBRL Process: The tool automates the XBRL instance generation process from the Centralized Data Repository (CDR).
- Customization Concerns Resolved: It alleviates concerns related to customizing internal bank applications.
- Data Reliability and Accuracy: IRIS iDEAL® guarantees the utmost reliability and precision of data in XBRL format.
- Meeting RBI Deadlines: It aids banks in meeting stringent RBI deadlines for XBRL data submissions.
- Future-Ready Adaptability: The system can be easily enhanced to accommodate forthcoming changes in taxonomy, schema, and RBI regulations.

3.1 IRIS iDEAL® Components

IRIS iDEAL® Solution Architecture



The complete solution is packaged into following main components:

Taxonomy Mapper:

The application enables users to upload new taxonomies within the 'Regulatory Returns' module. This module empowers users to map source data elements (data sets extracted from input sources via the extraction module) with corresponding taxonomy elements.

iDEAL® Solution requires a one-time mapping to be defined as part of the application configuration. Subsequently, data can be directly extracted and generated using established mappings.

XBRL Processor:

The iDEAL® processor reads input data and converts it into XBRL format. The resulting XBRL instance adheres to the XBRL 2.1 specification and all RBI guidelines, encompassing presentation and validation aspects related to XBRL.

Scheduler:

The scheduler function enables users to schedule and automate the XBRL generation process based on reporting frequency. This mechanism operates via a control table, automating data flow from the Centralized Data Repository (CDR). Banks set flags in control tables after data populates from sources into CDR.

Certified Validator:

IRIS's certified Validator module validates XBRL instance documents generated by the processor. It ensures conformity with predefined XBRL 2.1 specifications and RBI-specific business rules.

Renderer:

The rendering feature converts generated XBRL instance documents into human-readable formats. Rendered output can be downloaded in HTML or Excel® formats. This empowers end users to review and verify data presented in XBRL format before actual submission on the RBI portal.

Audit Trail:

The application's audit trail enables users to track operations within the iDEAL® Solution across various functionalities. It records changes made in different application modules. Admin users can monitor user activities, and reports can be generated based on this data. Authorized users can verify data generated into XBRL format and provide approvals through this module.

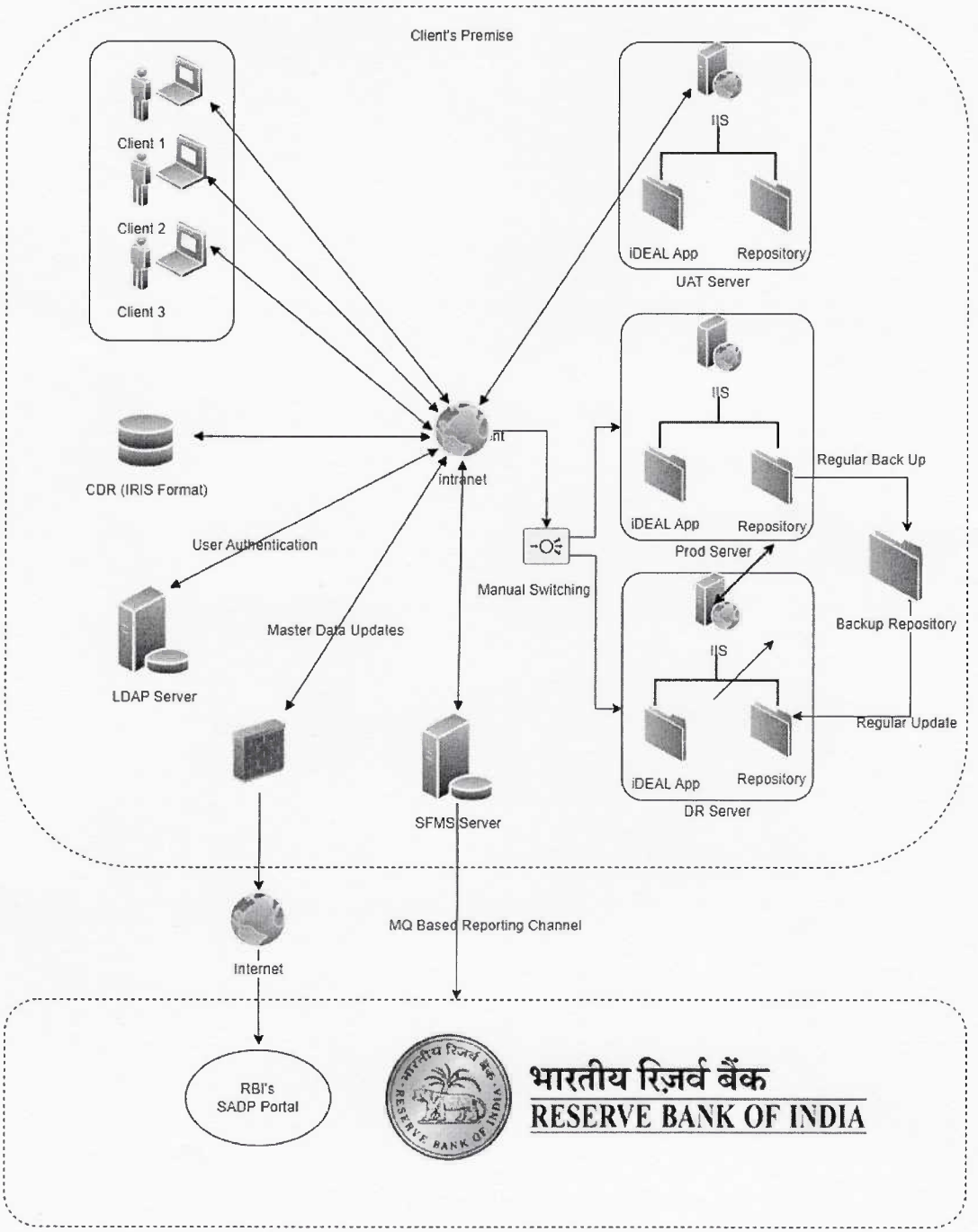
User Management:

The iDEAL® user management feature enables administrators to assign granular roles and permissions to users. This stringent control manages access to various application modules, including Log Viewer, Mapping, Taxonomy, and Returns.

Beyond ensuring data accuracy and timeliness, this Application also anticipates accommodating future RBI XBRL reporting needs. This eliminates the necessity for banks to delve into the intricacies of individual XBRL Returns.



3.2 IRIS iDEAL® Pre-Requisites:



IRIS iDEAL Network/ Deployment Diagram

The IRIS iDEAL® Solution is a web-based application that will be hosted on a server within the Bank's premises. This centralized application will be accessible through a URL on all LAN-connected systems, and only users defined within the application with authorized credentials will have access for XBRL generation, approvals and various modules of this solution.

IRIS iDEAL® Solution operates independently and will not be integrated with any application other than CDR/Excel Templates and Input data sources. The application employs a built-in user management module and can also be integrated with the Bank's LDAP/AD system. Users can be created within the application as a one-time activity during the implementation process.

Below is a list of hardware and software requirements for deploying the IRIS iDEAL® Application on Prod/DC/DR Servers:

Prod/DC/DR Servers:

Hardware:
RAM: 32 GB (Recommended)
Hard Disk: 500 GB (Dedicated Drive)
Processor: 8 Core processor

Software:
Server: Windows Server 2019 and Above (Virtual Environment is acceptable)
Internet Information Services (IIS) 10
Open Port: HTTPS 443
Supporting Frameworks: .NET Framework 4.8
Access Database Engine (Required on the hosting machine to update the latest RBI masters into the application)

Database Approach (If source data for report generation is via a Database and not Excel):

Database Server (Separate Schema for DC & DR): ORACLE 19C and above
Storage - 200 GB
Core: 4
OS: Linux/Windows

Client Side:
Internet Browsers: Web Browser (Edge, Chrome, or Mozilla Firefox with the latest versions)
Microsoft Excel® 2010 or above

UAT Requirements:

Hardware:
RAM: 16 GB (Recommended)
Hard Disk: 200 GB (Dedicated Drive)
Processor: 4 Core processor

Software:
Server: Windows Server 2019 and Above (Virtual Environment is acceptable)

Internet Information Services (IIS) 7 or above
Open Port: HTTPS 443
Supporting Frameworks: .NET Framework 4.8
Access Database Engine (Required on the hosting machine to update the latest RBI masters into the application)

Database Approach (If source data for report generation is via a Database and not Excel):

Database Server (Separate Schema for DC & DR): ORACLE 19C and Above
Storage: 50 GB
Core: 4
OS: Linux/Windows

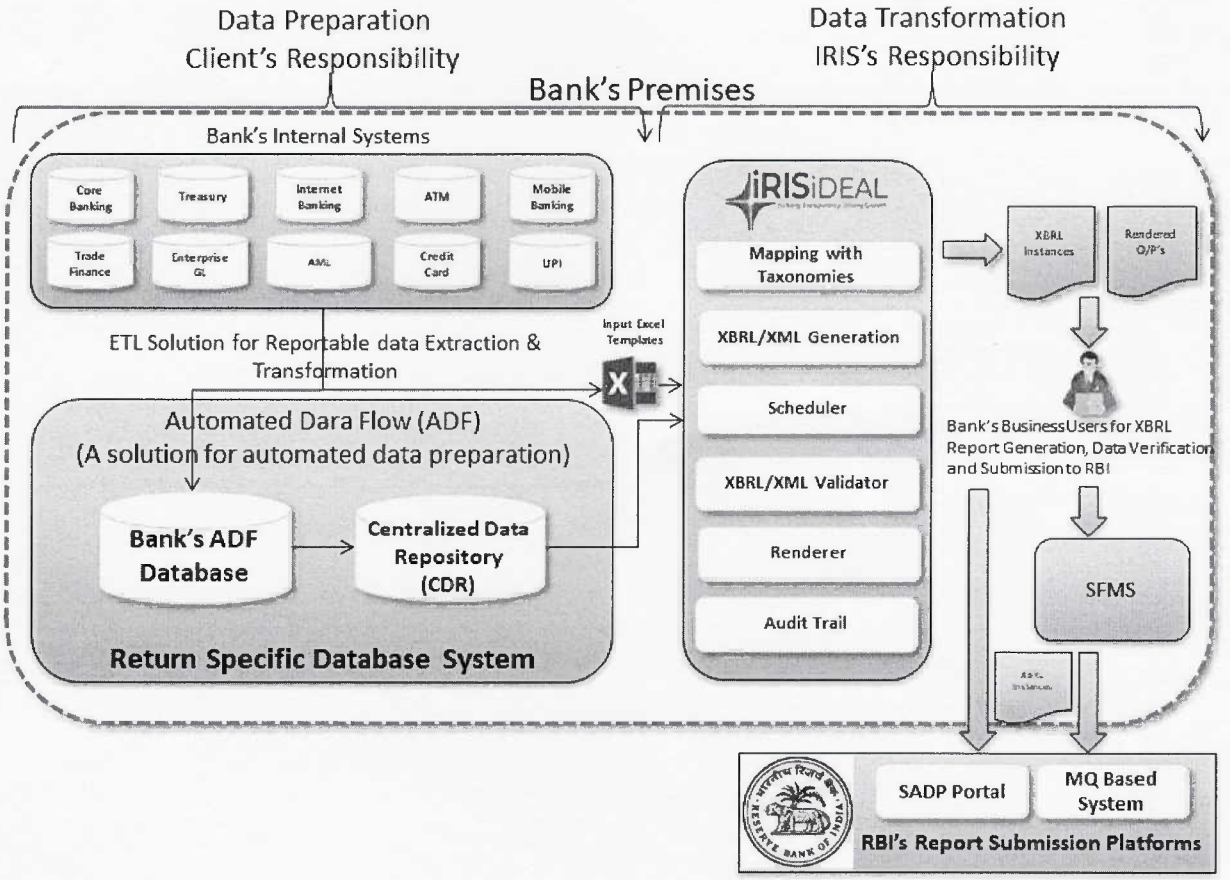
Client Side:

Internet Browsers: Web Browser (Edge, Chrome, or Mozilla Firefox with the latest versions)
Microsoft Excel® 2010 or above

These specifications are designed to ensure smooth functioning and optimal performance of the IRIS iDEAL® Solution within the Bank's infrastructure.



4. Scope of the Project (IRIS and SIDBI)



The scope of work for the IRIS iDEAL® Solution encompasses the following key aspects:

1. **XBRL Reporting to RBI CIMS:** IRIS iDEAL® Solution is designed to facilitate XBRL reporting to RBI's Centralized Information Management System (CIMS).
2. **Integration and Configuration:** Integrate and configure the iDEAL® solution seamlessly with the Centralized Data Repository (CDR) and Excel Templates for the returns applicable to the bank.
3. **Taxonomy Tagging:** Tag the data within CDR/Excel Templates against the CIMS Taxonomies as and when they are released by RBI.
4. **Data Validation and Compliance:** Validate the reportable data according to XBRL 2.1 specifications and any specific business rules defined by RBI.
5. **Compliance with CIMS Requirements:** The provided iDEAL solution by IRIS will fully comply with RBI's CIMS mandated requirements for XBRL filings.
6. **Maintenance and Updates:** IRIS will handle all errors and software updates as part of product maintenance, ensuring compatibility with changes in CIMS taxonomies released by RBI.

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7. **Database Structures and Templates:** In response to changes in taxonomies that affect mapping and return structure, IRIS will provide revised database table structures (CDR/Excel Templates).
8. **Data Security Compliance:** IRIS will adhere to all client-specific requirements regarding data security compliance, including SSL certification.
9. **Return Development:** This service includes the following activities for each new or updated report:
    a. Designing and developing the input data source (CDR table structure/Excel Templates).
    b. Adding new reports to the iDEAL Application.
    c. Uploading and creating taxonomies layouts for mapping in iDEAL.
    d. Mapping and testing Taxonomy elements with CDR data/Excel Templates elements.
    e. Setting up the rendering view (human-readable format) for the report.
    f. Managing changes in taxonomies for the report.

In summary, the IRIS iDEAL® Solution provides a comprehensive suite of services to streamline XBRL reporting to RBI CIMS. It ensures seamless integration, accurate data tagging, compliance with regulations, maintenance of software updates, and a dedicated approach to report development while upholding data security standards.

5. Assumptions:

Data Identification by SIDBI:

- SIDBI will identify the reportable data elements for all returns from the bank's internal systems (CBS, CDR, ADF, and other financial systems).
- SIDBI will provide this data in the form of Centralized Data Repository (CDR) or Excel Templates to the IRIS application.

CDR/Excel Templates Structure:

- IRIS's technical team will provide the structure of the CDR table/Excel Templates to SIDBI.

Data Format Requirement:

- IRIS iDEAL® Solution requires input data for all returns to be in a predefined format. This format should align with the CDR/Excel Templates defined by IRIS.

Automated System Data Requirement:

- For reports generated from automated systems, complete input data must be available in CDR/Excel Templates for all returns.

Data Verification:

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- IRIS assumes that the data provided in CDR/Excel Templates has been checked and verified by the Bank (SIDBI).

XBRL Reporting Scope:

- IRIS iDEAL® Solution caters exclusively to XBRL reporting for RBI and supports only the taxonomies released by RBI. It will not support other regulatory requirements/taxonomies/schemas.

Exclusion of Data Tasks:

- The IRIS Application does not include tasks related to data cleansing, data computation, and calculations.

Initial Delivery Review:

- Bank users are expected to review the initial delivery of all returns on the sample data/files provided by IRIS.
- Initial delivery signoff is expected from the Bank to the IRIS Team within 30 days from the date of delivery of all required returns.

UAT Confirmation and Issues:

- Bank users should check and release User Acceptance Testing (UAT) confirmation or any issues to IRIS within 60 days from the date of delivery.
- If no response is received within this timeframe, IRIS will consider it a successful delivery and proceed to raise the invoice.

These assumptions provide a foundational understanding of the roles and responsibilities for both SIDBI and IRIS in the implementation and utilization of the iDEAL® Solution for XBRL reporting.



6. Project Plan:

Action Plan for IRIS iDEAL CIMS Application deployment		
Sr No	**Action**	**Dates**
1	Bank to share list of reports Applicable	Already Shared by Bank
2	Kick-off Meet	21-08-2023
3	Deployment kit will be shared by IRIS (via SFTP link). Following items will be shared: 1. Application Deployment Kit 2. IRIS Excel Input Formats for the returns applicable to the Bank	23-08-2023
4	IRIS iDEAL Application Deployment on Banks server (UAT & Production, DR). Here, either IRIS Team will guide SIDBI Team installation steps over the online session or IRIS team will visit SIDBI Branch in Mumbai and by gaining access to the deployment servers complete the deployment activities.	24-08-2023
5	IRIS iDEAL Application Training & User Manual	28-08-2023
6	UAT Sign-off on reports	30-09-2023

Assumptions to fulfil action Plan:
1. All servers are ready in Bank premises as per the Server Prerequisites shared by IRIS.
2. All Application prerequisites are configured on the server and Application kits shared by IRIS are placed on server.
3. Full admin rights are present on deployment server.



7. IRIS Single Point of Contact:

SPOC from IRIS Side:
Name: Shashank Kadam
Email ID: shashank.kadam@irisbusiness.com
Phone: +91 9920358073

Service level Category	Response /Resolution Time	Escalation Thresholds		
		Escalation Level 1 (SPOC)	Escalation Level 2 (Product Manager)	Escalation Level 3 (Product Head)
Production Support	4 Hours	Name: Shashank Kadam shashank.kadam@irisbusiness.com +91 9920358073	Dnyaneshwar Daund Dnyaneshwar.daund@irisbusiness.com +91 8898870749	Hemant Karale hemant.karale@irisbusiness.com +91 9850904540
Service Desk Support	4 Hours	Name: Shashank Kadam shashank.kadam@irisbusiness.com +91 9920358073	Dnyaneshwar Daund Dnyaneshwar.daund@irisbusiness.com +91 8898870749	Hemant Karale hemant.karale@irisbusiness.com +91 9850904540



8. Signatory:

I/we confirm that the above proposal is to the best of my knowledge and understanding.

IRIS Business Services Ltd.

Name: **Balachandran Krishnan**

Designation: Whole Time Director

Date: 18-08-2023

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