

Compliance Automation

Multichannel Video Streaming & Satellite Service Provider

Created an automation tool to certify & revoke user accesses across financial systems and applications

Compliance Automation

Automation of User Access Certification Process for **Audit and Compliance**

Situation

- Client has 20+ applications that have financial reporting implications. However, they did not have any existing process in place to certify and revoke user access across these applications, which is a critical requirement for annual SOX audits.
- Merilytics partnered with the client to develop an end-to-end automated process to extract user accesses from all applications, certify them from respective supervisors, and revoke inappropriate accesses wherever applicable

Accordion Value Add

- Deployed a Python & UiPath based data extraction process to download user access list from Oracle RDS, dashboards' reports, emails, and SFTP server
- Automated the aggregation and rationalization of roles and access levels for 5,000+ users across 20 financial applications
- Enabled emailed-based trigger using Power Automate for timely follow-ups with non-compliant supervisors and administrators
- Generated division-level compliance summary automatically using MS Graph API for the audit team to escalate non-compliance events in a timely manner
- Streamlined and standardized user access certification and revocation process across 20 financial applications

Impact

- Saved ~20 FTE days worth of manual effort (90% reduction) on quarterly basis to certify 5,000+ user accesses across 20 applications from 400+ supervisors
- · Improved supervisor's response rate by streamlining and integrating response-easing automation over output emails
- Streamlined the process and reduced manual efforts quarterly required to log information as evidence for annual SOX audits

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Methodology / Approach

- 1 User Access Data Extraction
- Automatic process to extract user access roles and user details from various source application
- · Aggregation & rationalization of user access roles for certification



User Access Certification

- Automated emails to supervisors with list of user access for certifications
- Extraction process to download & aggregate supervisor responses from email
- Identification of in-appropriate user accesses across all applications based on certification response
- Identification of pending user access certifications

MS Graph API and Python

Graph API

User Access Revocation & Tracking

- Automated emails to application administrators with inappropriate user access list for revocation
- Revocation Tracking process
- Identification of pending revocations and requesting administrators to take necessary actions
- RPA tools (Power Automate & UI Path), MS Graph API and Python UI Path Power Automate Graph API

4 Process Summarization

- Identification of pending user access revocations
- Summarization of the process in excel for audit team with pending/completed certifications and revocations

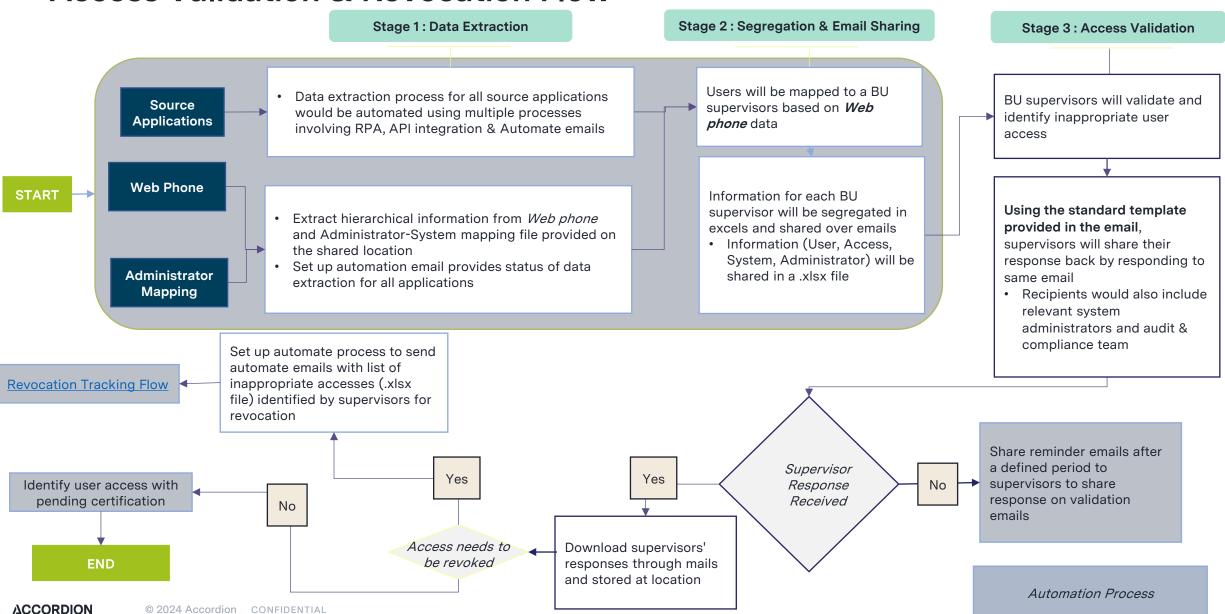
MS Graph API and Python



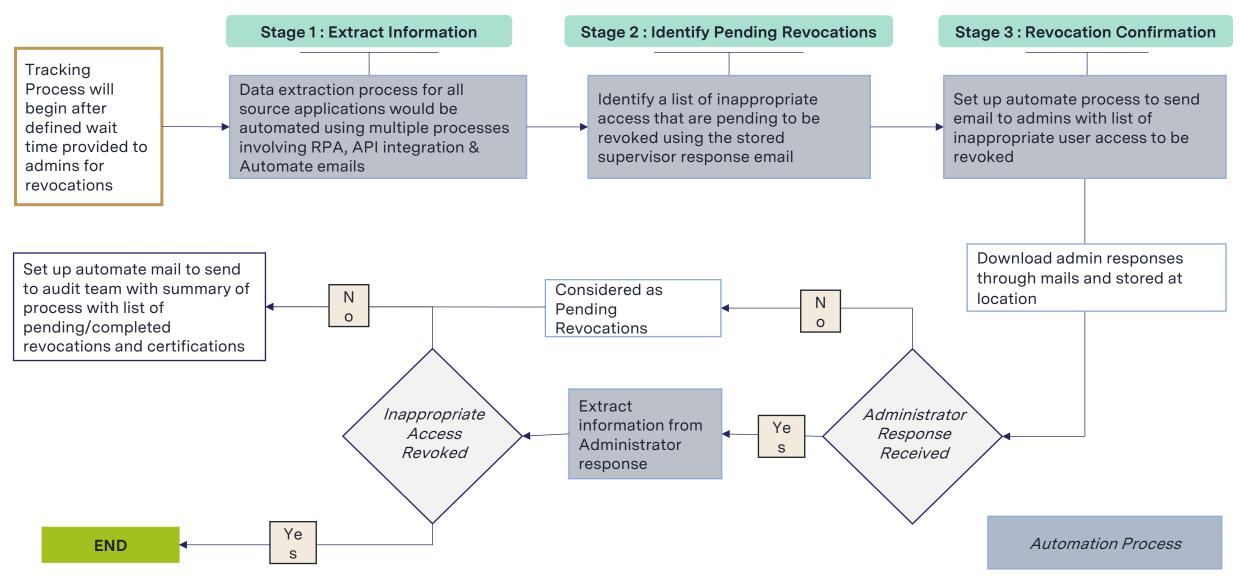




Access Validation & Revocation Flow



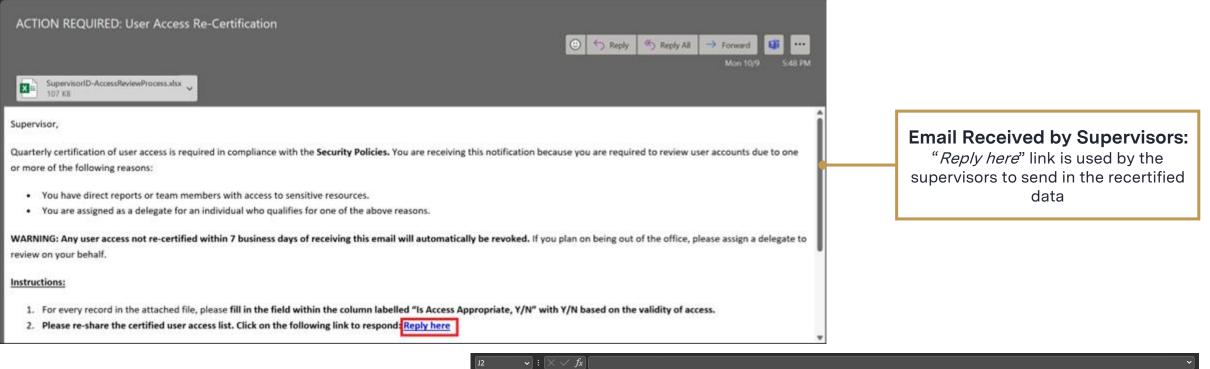
Revocation Tracking Process



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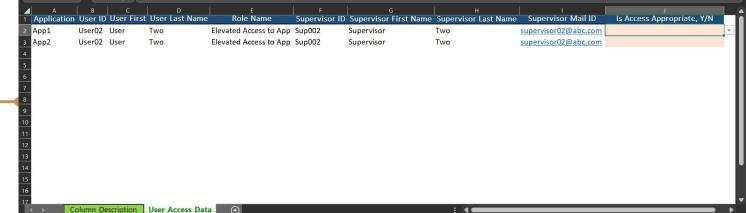
Recertification Email and Report

ILLUSTRATIVE



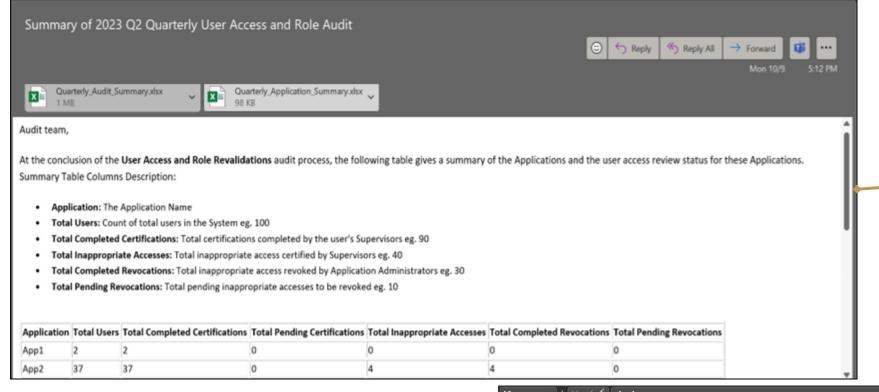
Recertification File:

Supervisors need to select "Y or N" from the dropdown present in "Is Access Appropriate, Y/N"



Summary Email and Report



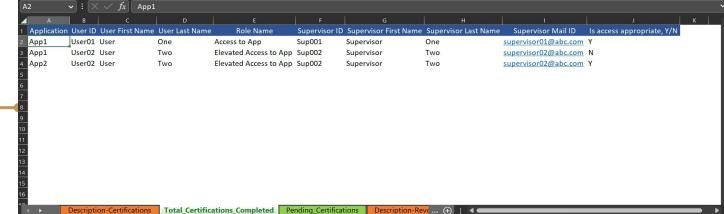


Email Received by Audit Team:

The email contains the user access count for all applications and the summary report file sent at the end of the automation process.

Summary Report:

The Excel file contains the consolidated list of the certifications and revocations processed during the quarterly audit process.



Learnings

- Extraction and Transformation of data from Oracle RDS, SFTP Servers and UI of Applications
- Leverage of MS Graph API to access Microsoft services i.e., MS Outlook without access to Microsoft account
- Unattended process execution with AWS VM
- Event based trigger of UiPath process using automated email through Power Automate

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