


Informatica Job Migration Assessment



This application provides analysis and insights for Capital Group's Informatica job migration to cloud modernization. The analysis helps decide between using the Dat custom framework.

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 autosys_job_manual_anaylsis Commen... 0.7KB 

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 autosys_job_manual_anaylsis_v2.csv 219.6KB 

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 autosys_job_prod.t

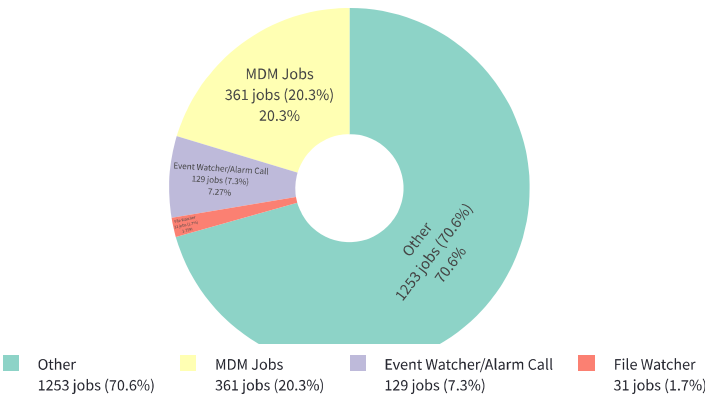
Autosys Prod file loaded suc

Executive Summary

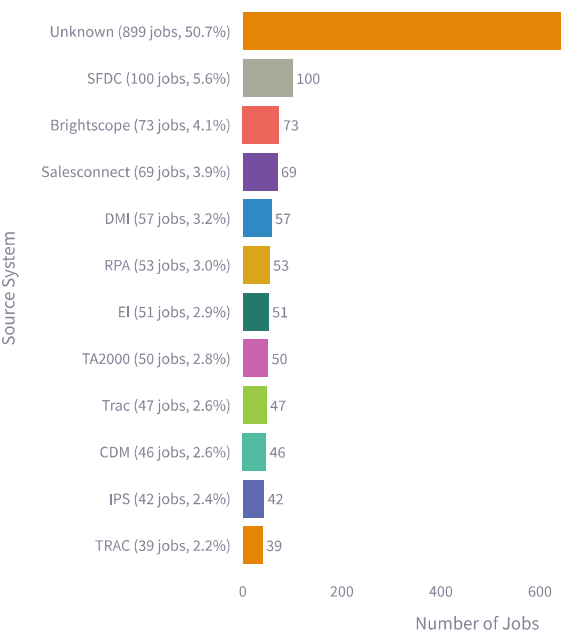
Total Jobs Analyzed	MDM Jobs	Event Watcher/Alarm Jobs	Migration Cand
1774	361	129	758

Job Categories Breakdown

Job Distribution by Category



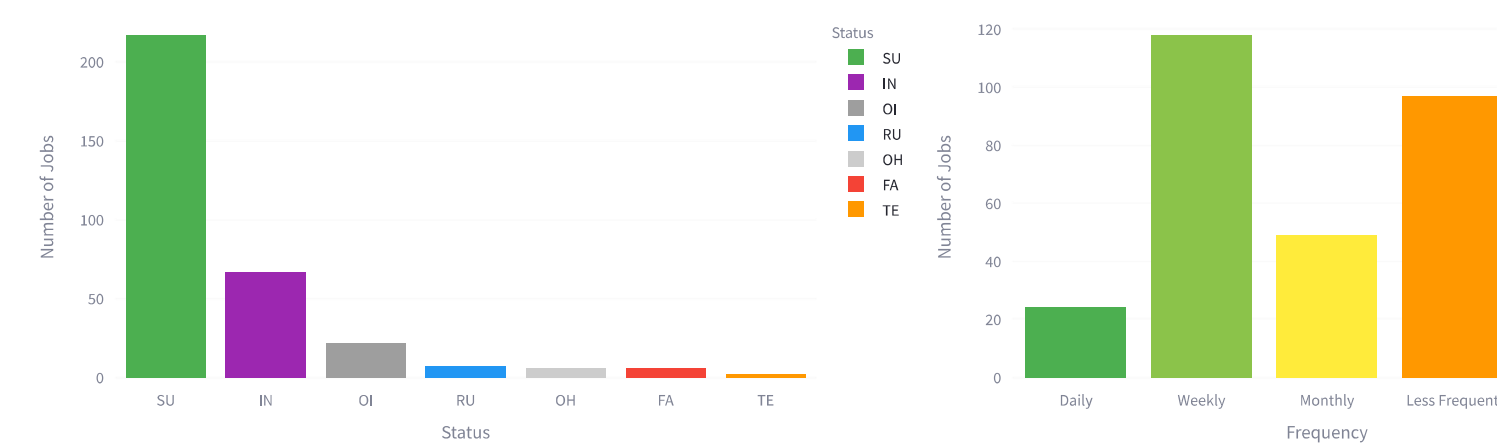
Top Source Systems with Job Counts and Percentages



Job Status and Execution Pattern

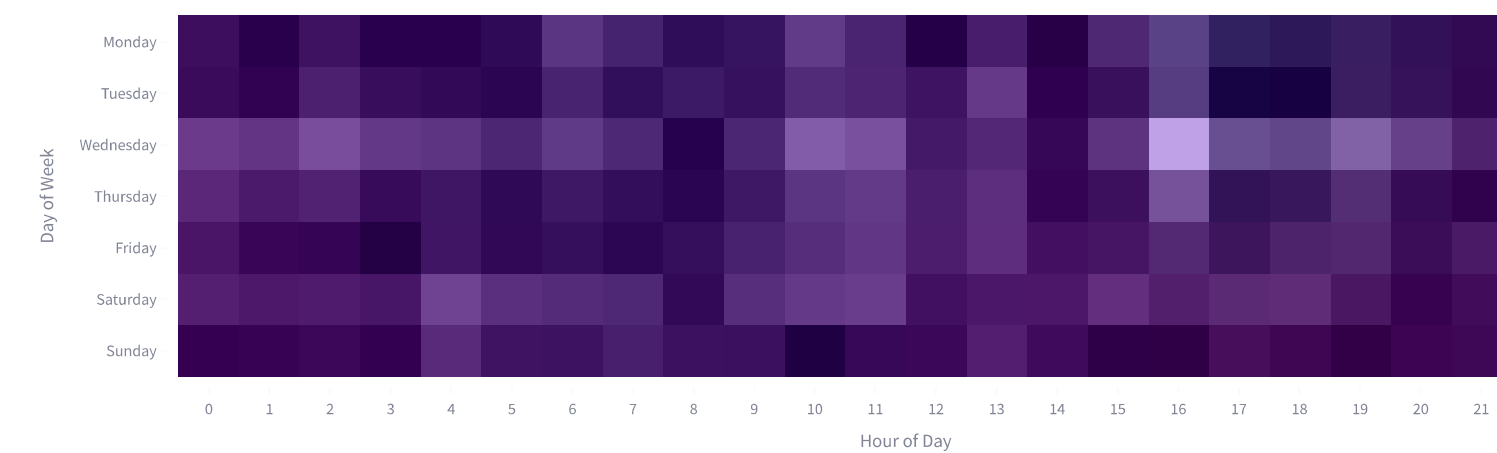
Job Status Distribution

Job Execution Frequency



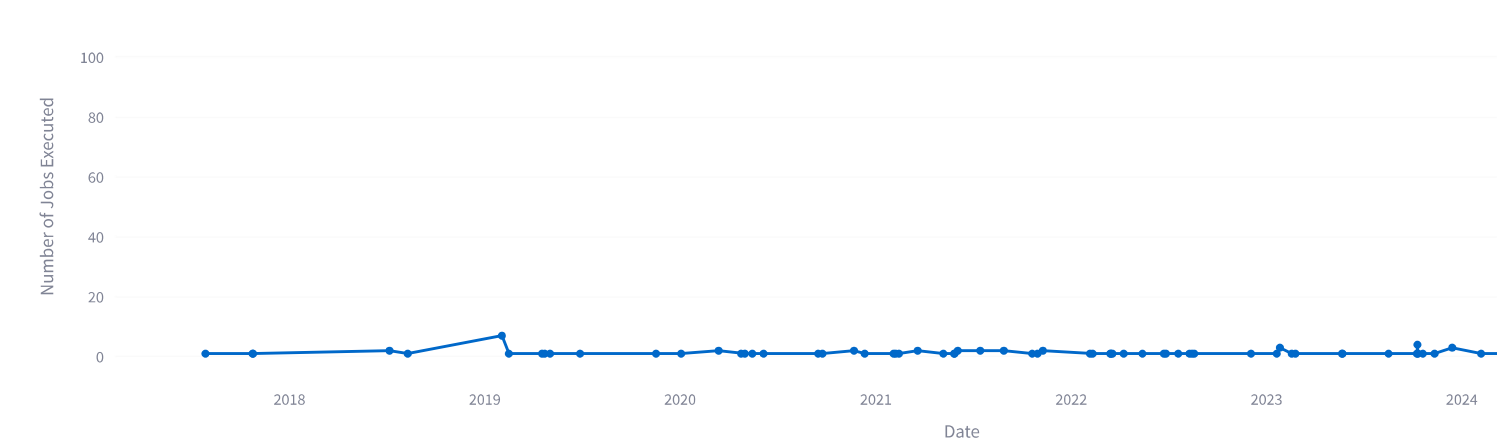
Execution Time Analysis

Job Execution Heatmap by Hour and Day



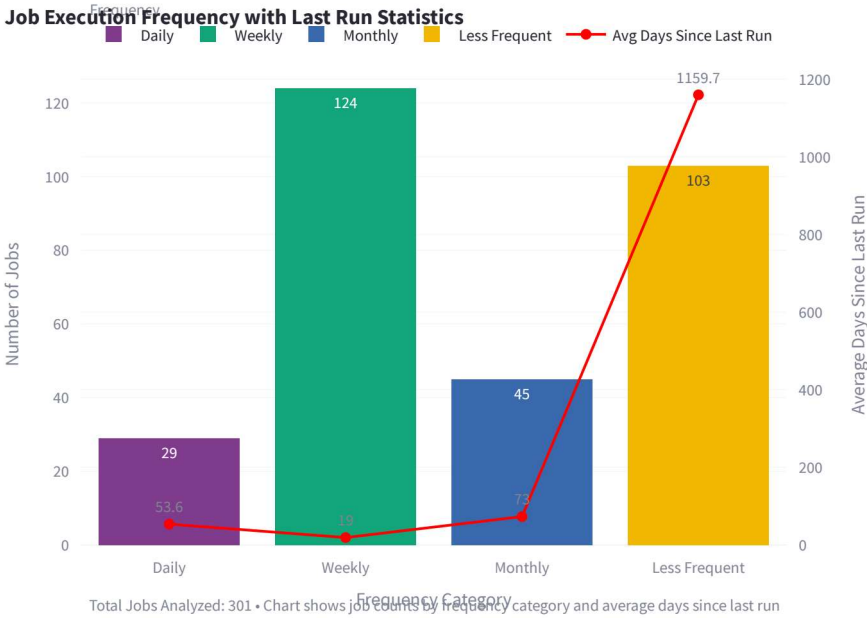
Timeline of Last Job Executions

Job Execution Timeline

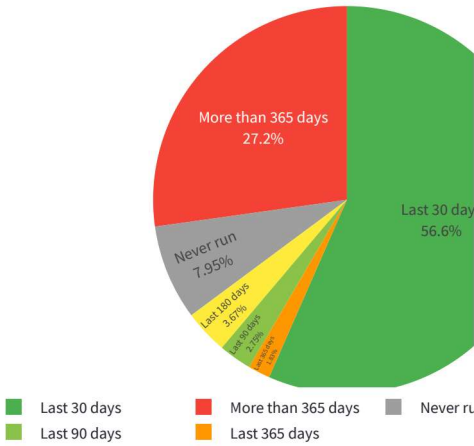


Job Last Run with Different Frequencies

Job Execution Frequency with Last Run Statistics



Job Execution Recency Distribution



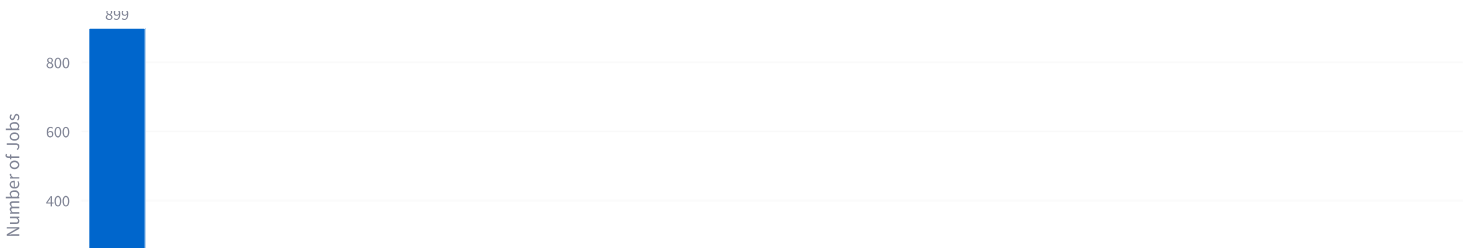
Inbound/Outbound Job Analysis

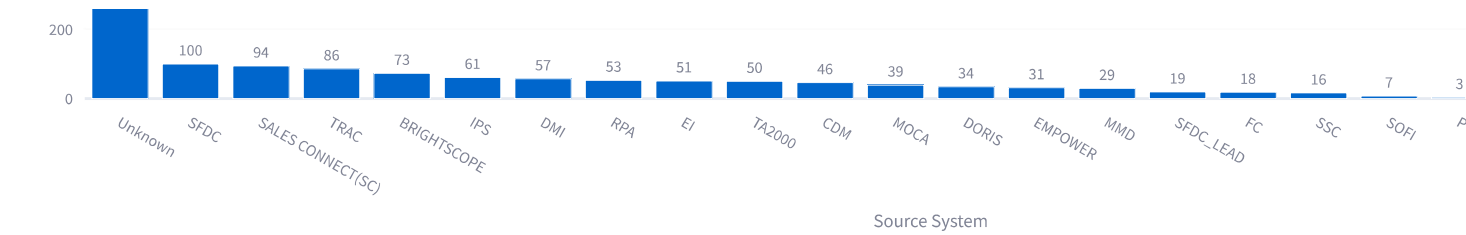
Source System Scope Analysis

This section provides a detailed breakdown of job counts by source system and migration scope recommendation.

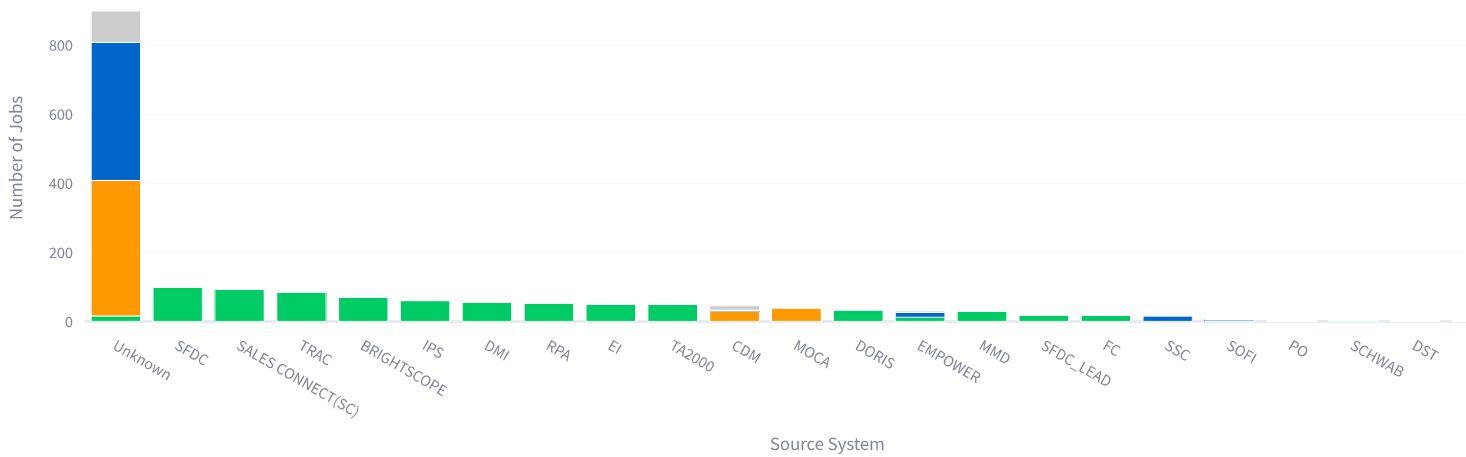
	Source System	No of Jobs	In Scope	Not in Scope	Needs Discussion
0	Unknown	899	16	392	400
4	SFDC	100	99	0	1
13	SALES CONNECT(SC)	94	94	0	0
12	TRAC	86	86	0	0
8	BRIGHTSCOPE	73	71	0	0
19	IPS	61	61	0	0
16	DMI	57	56	0	1
20	RPA	53	53	0	0
2	EI	51	50	0	0
9	TA2000	50	50	0	0

Job Count by Source System





Migration Scope by Source System



[Download Source System Analysis CSV](#)

Autosys to Informatica Mapping Analysis

Total Autosys Jobs
1774

Jobs Mapped to Informatica
0

Unmapped Jobs
0
↑ 0.00%

Mapping Status Analysis

Out of the total 1774 Autosys jobs analyzed:

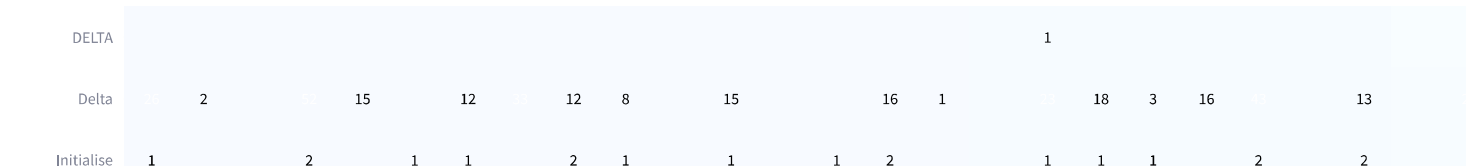
- 0 jobs (100.00%) are mapped to Informatica workflows
- 0 jobs (0.00%) have no mapping to Informatica workflows

This indicates that a significant portion of the jobs are not currently implemented as Informatica workflows. These unmapped jobs can't be automatically converted u different migration approach.

Layer and Source System Analysis

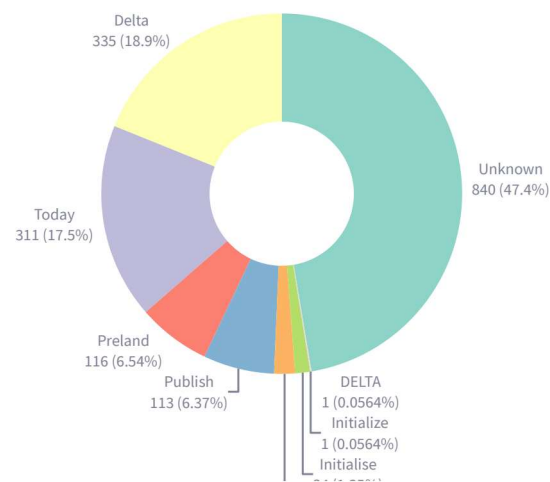
This section analyzes the distribution of jobs across different layers and source systems, providing insights into the architectural organization of the workflow ecosyst

Job Distribution by Layer and Source System

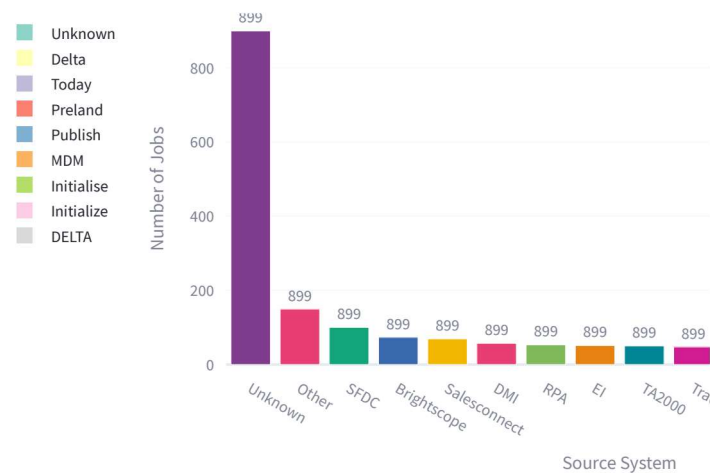




Job Distribution by Layer



Job Distribution by Top 15 Source Systems



Detailed Layer-Source System Distribution

Layer	Brightscope	Broadridge	CDM	DMI	DORIS	DST	Doris	EI	Empower	FC	IPS	MMD	Moca	PO	RPA	RPH	SC	SFDC	SFI
DELTA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Delta	26	2	0	52	15	0	12	33	12	8	0	15	0	0	16	1	0	23	
Initialise	1	0	0	2	0	1	1	0	2	1	0	1	0	1	2	0	0	1	
Initialize	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MDM	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Preland	27	0	0	2	6	1	0	0	0	2	0	3	0	0	7	0	0	14	
Publish	2	0	13	0	0	0	0	1	5	0	0	0	0	1	0	0	0	0	
Today	16	0	1	0	0	0	0	17	10	7	42	10	0	1	28	0	25	59	
Unknown	1	0	2	1	0	0	0	0	2	0	0	0	39	0	0	0	0	2	
Total	73	2	46	57	21	2	13	51	31	18	42	29	39	3	53	1	25	100	

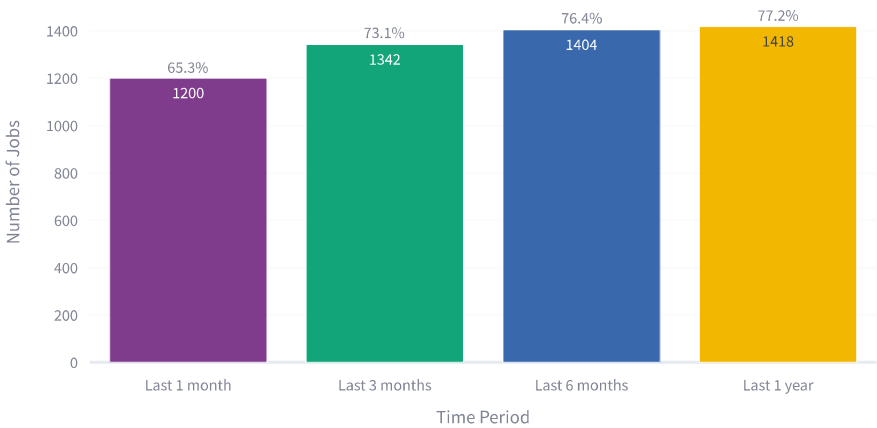
Download Layer-Source Analysis CSV

Additional Statistics Analysis

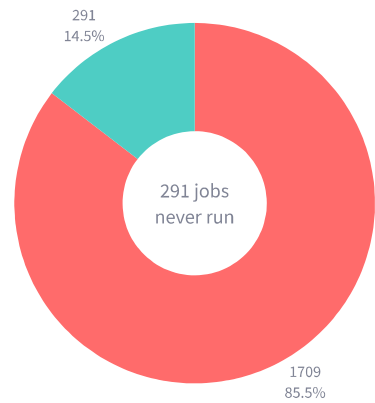
This section presents visual analysis of the additional statistics provided for the Informatica job migration project.

Jobs Execution Over Time Analysis

Jobs Execution Over Time



Jobs That Have Never Run

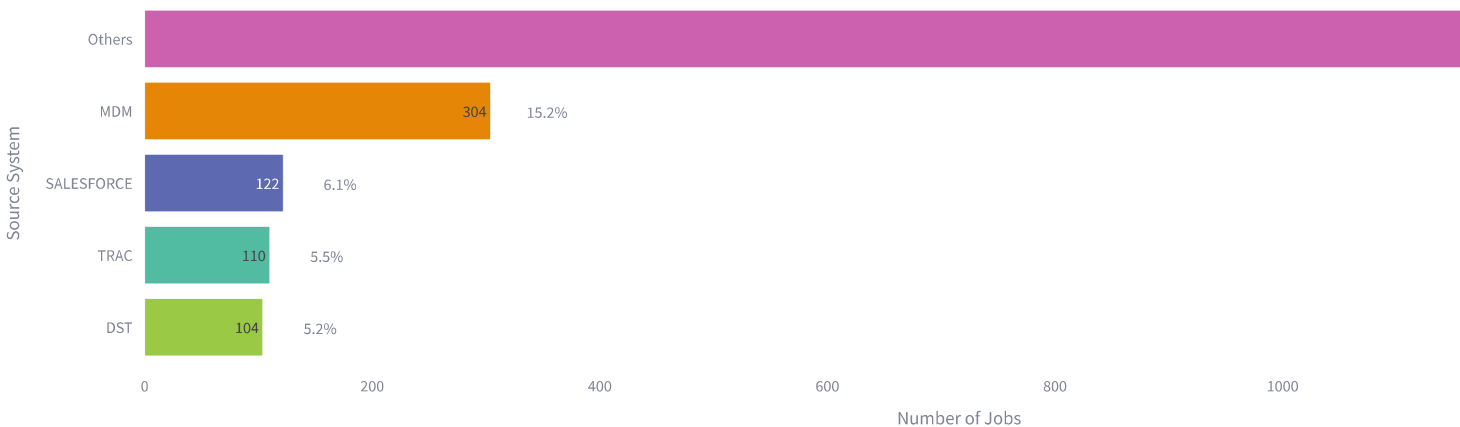


Key Insights:

- A large portion of jobs (approximately 65.3%) have been executed in the last month
- There's a dropoff between monthly and quarterly execution, suggesting many batch processes run quarterly
- 291 jobs (12.7%) have never been executed, indicating potential candidates for retirement before migration

Source System Analysis

Job Distribution by Source System

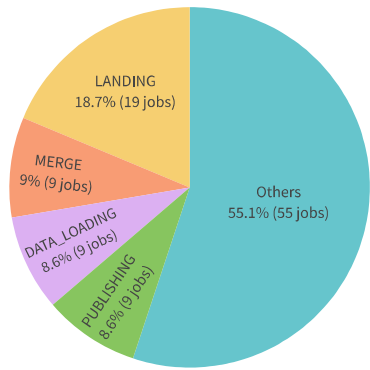


Key Insights:

- 21 unique source systems were identified in the analysis
- MDM is the largest source system at 15.2% of all jobs
- The top 4 source systems account for approximately 32% of all jobs

Job Categories Analysis

Job Categories by Operation Type



- Others
- LANDING
- MERGE
- DATA_LOADING
- PUBLISHING

Job Categories by Business Domain

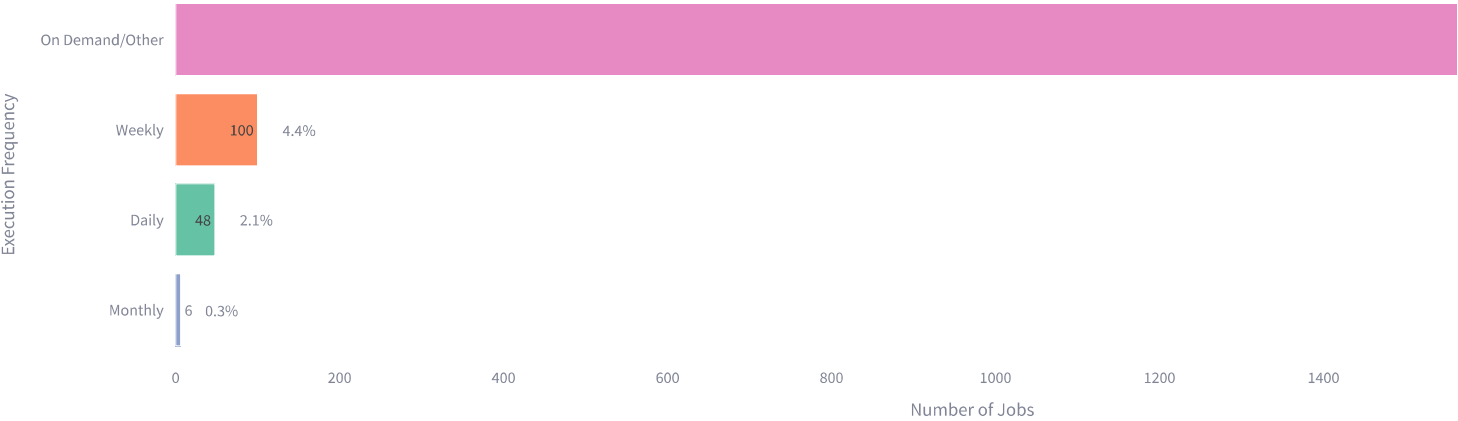


Key Insights:

- LANDING operations represent the largest category (18.7%)
- PARTY_MANAGEMENT is the dominant business domain (31.2%)
- MASTER_DATA_MANAGEMENT accounts for 20.1% of all jobs
- These patterns suggest complex data integration scenarios requiring careful migration

Execution Frequency Analysis

Job Execution Frequency



Key Insights:

- Only a small portion of jobs run on fixed schedules (2.1% daily, 4.4% weekly, 0.3% monthly)
- Most jobs appear to be triggered by events or run on demand
- This pattern suggests a need for robust event-based triggering in the migrated environment

Migration Strategy Implications

Based on this additional analysis, the migration strategy should consider:

1. **Prioritization by Business Domain:** Focus first on PARTY_MANAGEMENT and MASTER_DATA_MANAGEMENT domains
2. **Technical Debt Reduction:** Evaluate the 291 never-run jobs for potential retirement before migration
3. **Execution Pattern Preservation:** Ensure the migrated solution maintains the current execution patterns, particularly for event-triggered jobs

4. **Source System Integration:** Design the migration approach to handle the diverse source systems, with special attention to the high-volume MDM and SALESFORC
5. **Operation Type Strategies:** Develop specialized patterns for each operation type, particularly for LANDING and MERGE operations which have complex data hand

Detailed Areas of Assessment

This section provides detailed analysis of key assessment areas including repository assets, job recency, workflow complexity, and DataSwitch conversion efficiency.

1. Informatica Repository Assets

Analysis focused on key repository assets from CDM and SFDC source systems, which represent critical data flows in the Capital Group environment.

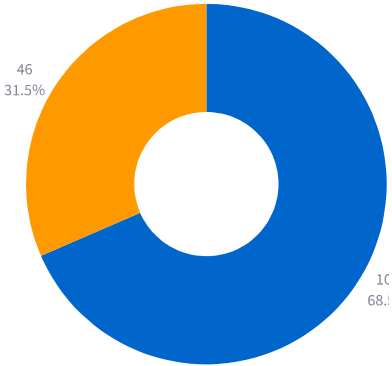
CDM Jobs

46

SFDC Jobs

100

Focus Source Systems (CDM & SFDC)



2. Workflow Complexity and Business Area Coverage

The analysis covers workflows across multiple business areas:

- **Advisor:** Customer-facing advisory workflows
- **Investors:** Investor data management workflows
- **Plan:** Financial planning related processes
- **Trade:** Trade execution and management workflows

Jobs are classified by complexity level (Low, Medium, High) based on their functionality, dependencies, and business logic requirements.

3. Metadata-based Integration Analysis

Analysis of metadata patterns for extensibility and scalability across source systems:

Unique Source Systems

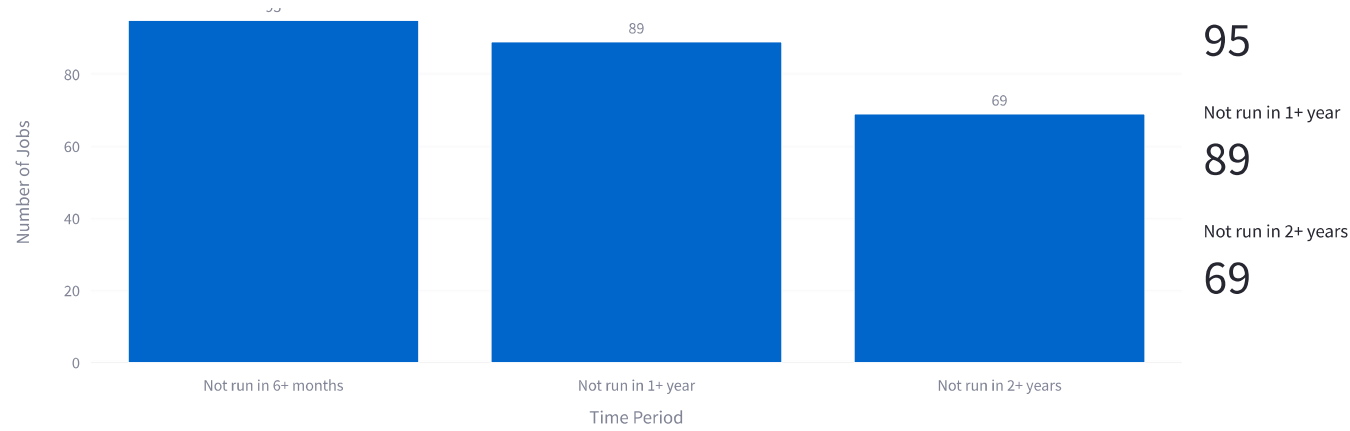
27

Top Source Systems: SFDC (100), Brightscope (73), Salesconnect (69), DMI (57), RPA (53)

Meta-data based integration opportunities were identified across these systems, focusing on common patterns in job naming, data flows, and transformation logic th framework.

4. Autosys Jobs Recency Analysis

	Assessment of jobs not recentl
Jobs Not Recently Executed	Not run in 6+ months



Jobs not executed recently represent potential candidates for decommissioning or consolidation during the migration process. Further analysis with business stakeholders which jobs are still needed.

5. API Integration Opportunities

Address Standardization:

Analysis identified opportunities for modernizing address standardization processes using REST API calls from Python, replacing current batch-oriented processes which includes:

- Replacing batch address validation processes with real-time API calls
- Implementing Python-based validation logic in AWS Lambda functions
- Establishing retry mechanisms and fallback options for API failures
- Monitoring API performance and cost metrics

6. DataSwitch Conversion Efficiency

The analysis evaluated DataSwitch's capability to effectively convert Informatica XML workflows to PySpark code. Assessment factors included:

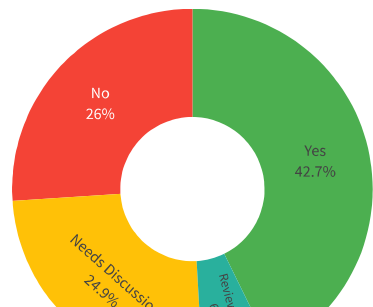
- Workflow complexity and customization level
- Presence of custom transformations and business logic
- Dependency on proprietary functions not supported by DataSwitch
- Integration points with external systems

DataSwitch efficiency varies by job type, with simple ETL workflows being excellent candidates, while highly customized MDM jobs may require additional development.

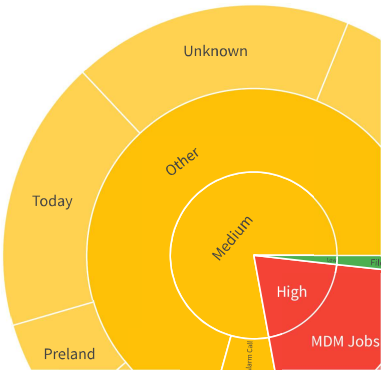
Advanced Analysis

[Job Complexity & Scope](#) [Job Dependencies](#)

Jobs by Migration Recommendation



Job Complexity Analysis



Detailed Job Analysis

[Migration Candidates](#) [MDM Jobs](#) [Event Watcher Jobs](#) [All Jobs](#)

	Job_Name	Workflow_Name	Job_Type	Command_Type	Source_System	Layer	Internal Review
683	cdm_landing_ei_plan_contact_delta_address	wf_landing_address_delta	CMD	ctl	EI	Delta	Yes
684	cdm_landing_ei_plan_contact_delta_address	wf_landing_address_delta	CMD	ctl	EI	Delta	Yes
687	cdm_landing_doris_delta_address	wf_landing_address_delta	CMD	ctl	DORIS	Delta	Yes
688	cdm_landing_doris_delta_address	wf_landing_address_delta	CMD	ctl	DORIS	Delta	Yes
689	cdm_landing_dmi_address_delta_od	wf_landing_address_delta	CMD	ctl	DMI	Delta	Yes
690	cdm_landing_mmd_delta_address	wf_landing_address_delta	CMD	ctl	MMD	Delta	Yes
691	cdm_landing_mmd_delta_address	wf_landing_address_delta	CMD	ctl	MMD	Delta	Yes
692	cdm_landing_dmi_address_delta	wf_landing_address_delta	CMD	ctl	DMI	Delta	Yes
693	cdm_landing_salesconnect_delta_address	wf_landing_address_delta	CMD	ctl	Salesconnect	Delta	Yes
694	cdm_landing_salesconnect_delta_address	wf_landing_address_delta	CMD	ctl	Salesconnect	Delta	Yes

Migration Recommendations

Dataswitch Approach

Pros:

- Pre-built tool for converting Informatica XML to PySpark
- Faster initial migration
- Less development effort
- Standardized conversion process

Cons:

- Less flexibility for customization
- Potential limitations in handling complex transformations
- Vendor lock-in
- May require additional post-migration adjustments

Custom Framework Approach

Pros:

- Tailored solution specific to Capital Group's needs
- Full control over the migration process
- Better optimization opportunities
- No vendor dependencies

Cons:

- Longer development time
- Requires specialized AWS and PySpark expertise
- Higher initial development cost
- May require more extensive testing

Recommended Migration Strategy

Based on the mixed job types present, a **hybrid approach** is recommended:

1. Use Dataswitch for simpler, standard jobs (especially file watchers and notifications)
2. Develop custom frameworks for complex MDM jobs with critical business logic
3. Consider container-based solutions for jobs with external dependencies

Export Results

[Download Data Files](#) Executive Summary

Download Job Categories CSV

Download Migration Recommendations

Download Execution Trends