

ARCHER DATA CLOUD

Data is a key element of investment management, and having the right data at your fingertips can help you identify trends, make decisions, and measure success.

For asset managers who are working with a variety of data providers for sending and receiving substantial amounts of information, Archer Data Cloud hosted through Snowflake® provides direct integration with a data marketplace so asset management teams can query their Archer datasets alongside proprietary and third-party data. Managers can schedule queries to suit their needs and use available apps to quickly view data subsets and data visualizations. This approach is best for managers who wish to directly query a database for the greatest amount of flexibility in the combination of what and how information can be obtained.

BENEFITS OF A DATA CLOUD SOLUTION

We are pleased to provide our clients deeper data functionality and flexibility in the types, amounts and arrangement of data through the Snowflake data cloud.

- **DATA TRANSFER EFFICIENCIES.** The data cloud eliminates the need for an FTP site, which means that instead of waiting for file transfers, our clients can access these huge data set within seconds. There is no need for asset management teams to write a program to watch for the file, get the file, and load; once Archer populates our local copy, it is available right away.
- **FULL ACCESS TO COMPLETE DATA SETS.** This solution makes all data available, so rather than having to communicate which data sets are needed, the user can pick and choose what they need at that time. Doing so eliminates the need for permissioning and access, which have to be constantly updated on both sides of an FTP transfer. Once the update is complete, the asset manager's third-party tool reads it immediately.
- **DATA SETS ARE DYNAMIC.** With the Data Cloud, because all available fields are included, querying on any data field is possible. All updates are automatically passed to all data sets and can be accessed through third party tools and investment management teams are able to efficiently query across data sets to quickly get the information they need with no programming requirements or wait time. In addition, because all of the records are linked, all changes are reflected right away. when the user wants to subtotal, or filter on any of the fields. This dynamic updating also allows for better integration with third party tools which can be used for analysis and for running consolidated reporting.

The **Data Cloud** is a great choice for asset management teams with a data warehouse that are seeking connectivity with client portals, CRM, and business intelligence tools.

DATA CLOUD: AVAILABLE FIELDS WITHIN EACH DATA SET

The following fields are available through the Data Cloud, the option by which asset manager teams can access data through Snowflake and can integrate it with other data to populate such things as client portals, CRM, and business intelligence tools.

TABLE	DATA DESCRIPTION	AVAILABLE FIELDS
ACCOUNTS		
ACCOUNT PROFILE DATA	All accounts' profile data, including terminated accounts with termination date and termination value.	Firm ID; Custodian Name; Custodian Account Number; Archer Account ID; Entity Name; Entity Long Name; Entity Status Description; Portfolio Model Name; Buy List Name; Account Objective Name; Investment Style Name; Portfolio Manager Name; Proxy Voting Description; Inception Date; Discretion; Sponsor Name; Sponsor Program Name; Salesperson Name; Client Type; Reconciled as of Date; Order Round Direction; Posting Method; Concentrated Portfolio; Cash % Min; Cash % Max; Equity % Min; Equity % Max; Fixed % Min; Fixed % Max; User Defined 1; User Defined 2; User Defined 4; User Defined 5; User Defined 6; Tax Status; State Code; ERISA Indicator; Birthday; Index 1; Index 1 Inception MTD Return; Index 2; Index 2 Inception MTD Return; FC Name; FC Code; Original Account Number; Value at Inception; Termination Date; FC ID; Value at Termination; First Name; Middle Name; Last Name; Address; Address Line1; Address Line2; Address Line3; Address Line4; City; State; Mail Code; Entity Sub Type; Marketing Group; Customer Type; Run Date
ACTIVE ACCOUNTS' AUM AND FLOWS	Currently active accounts with latest or PME AUM and flows through MTD or as of PME.	Firm ID; Archer Account ID; Begin Date; End Date; Beginning Market Value; New Client Flow; Existing Client Flow; Ending Market Value; Terminated Account Cash Flow; Run Date
BILLING PROFILE	Billing detail by account including breakpoints and calculation settings.	Annual rate; Billing Method; Billing On; Billing Profile ID; Billing Type; Days in Year; Debit Account; Entity ID; Firm ID; Frequency Per Year; Household Incl Flag; Level Description; Market Value Basis; Market Value Source; Maximum Market Value; Minimum Market Value; Payment Type; Period Calculation Method; Run Date; Start Month
CLIENT CONTACTS	Client contacts associated with Archer accounts; may be used for reporting and invoices.	Firm ID; Archer Account ID; Contact Name; Company Name; Address Type; Address Line1; Address Line2; Address Line3; Address Line4; City; State; Mail Code; Country; Primary Address Flag; Email; Home Phone; Cell Phone; Business Phone; Run Date
FINANCIAL CONSULTANT	Lists financial consultant information stored in Archer.	Firm ID; Sponsor ID; Sponsor Name; FC ID; FC Code; First Name; Last Name; FC Name; FC Addr1; FC Addr2; FC Addr3; FC Assistant Email; FC Assistant Name; FC Assistant phone; FC Branch; FC City; FC Email; FC Fax; FC Phone; FC Region; FC State; FC Zip; Run Date
PAPERWORK	List of paperwork items and workflow status.	Firm ID; Archer Account ID; Received Date; Close Date; Last Update Time; Paperwork Type; Paperwork Status; Kind; Transaction Amount; Filename; Notes; Run Date
RESTRICTIONS	Listing of restrictions assigned at the account level; includes a current violation indicator. Excludes restrictions that are automatically assigned based in Account Group membership.	Restriction Name; Symbol; Cusip Sedol; Creation Time; In Violation; Archer Account ID; Firm ID; Custody Bank Acct Num; Entity Name; Portfolio Model Name; Account Objective; Investment Style; Manager; Proxy Voting Description; Description; Sponsor; Sponsor Program; Sales Person; FC Name; User Defined1; User Defined2; User Defined4; User Defined5; User Defined6; Run Date

DATA CLOUD: AVAILABLE FIELDS WITHIN EACH DATA SET

TABLE	DATA DESCRIPTION	AVAILABLE FIELDS
ACCOUNTS		
ACCOUNT HOUSEHOLDS	Identifies all accounts in a Household for performance, management reporting, or other purposes.	Firm ID; Household Account ID; Archer Account ID; Active Status; Inception Date; Termination Date; Custodian Name; Custody Bank Acct Num; Head of Household; Run Date
HOLDINGS		
HOLDINGS BY ACCOUNT, CURRENT AND PME	Holdings for all active accounts, current and as of PME.	Account Objective; Accrued Income Base; Accrued Income Local; Active Status; Annual Dividend; Asset Class Code; Available Calls; Base Currency; Book Value Base; Book Value Local; Client ID; Client Instance; Convertible Flag; Country Code; Coupon; Coupon Frequency; Covered Percent; Custody Bank Account Number; Custody Bank Code; Dated Date; Discretionary Code; DTC Eligible Flag; Effective Date; Entity ID; Entity Name; Entity Type; EPS; Exchange Code; Exchange Rate; Factor; FC ID; Firm Accrued Income; Firm Book Value; Firm Currency; Firm Exchange Rate; Firm ID; Firm Market Value; Firm Unit Cost; Household ID; Household Name; Inactive Flag; Inception Date; Income Currency; Interest Method Code; Issue Date; Issue Description; Last Loss Date; Local Currency; Long Short Indicator; Manager ID; Market Price; Market Value Base; Market Value Local; Maturity Date; Original Face; Percent Portfolio Market Value; Pool Number; Price Date; Price Multiplier; Primary Asset ID; Process Security Type; Program; Proxy Flag; Put Call Flag; Run Date; Sales Person ID; Security Alias; Security Type; Settlement Currency; Shares Outstanding; SIC Code; Sponsor; State Code; Strike Price; Style; Tax ID Number; Tax Status; Termination Date; Ticker; Trading Unit; Underlying Alias; Underlying Current Price; Underlying Primary Asset ID; Underlying Quantity; Underlying Security; Underlying Ticker; Units; Unit Cost; Unit Cost Base; Unit Cost Local; Unrealized Gain/Loss Base; Unrealized Gain/Loss Local; Written Calls; Yield
SECURITY MASTER	List of securities we have for your firm, with security identifiers and name.	Firm ID; Security Alias; Primary Asset ID; Primary Asset ID Type; Ticker; Issue; Security Type, CUSIP, Sedol, Alt Asset ID, Alt Asset ID Type; Run Date
MODEL PORTFOLIOS	Model position detail including allocation targets.	Allocation; Archer Account ID; Close Price; Currency, Firm ID, Investment Type; ISIN; Last Price Date; Model Description; Portfolio Model Name; Portfolio Model Type; Pricing Unit; Primary Asset ID; Security Name; SEDOL; Shares; Ticker; Run Date
MODEL CHANGES	Contains changes made prior day via Model Workstation.	Firm ID; Portfolio Model ID; Action; Ticker; Model Weight Old; Model Weight New; Creation Time; Creation User ID; Last Update Time; Portfolio Model Name; Model Description; Instructions; Run Date
SECTOR ASSIGNMENTS	List of securities and their sector assignments; used in client reporting.	Firm ID; Security Alias; Sector Name; Run Date
INDUSTRY ASSIGNMENT	Lists industries by SIC code for reporting.	Firm ID; SIC Code; Industry Group Name; Run Date

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TABLE	DATA DESCRIPTION	AVAILABLE FIELDS
PERFORMANCE		
ACCOUNT PERFORMANCE SUMMARY	Multi-period, gross and net performance for all active accounts -- current MTD, as of prior business day or PME.	Firm ID; Archer Account ID; Household Account ID; Base Currency; Return Type; Effective Date; Inception Date; Inception Beginning Value; Inception Ending Value; Inception Return; Inception Net Flow; Inception Appreciation; Inception Return; Inception Principal Return; Inception Income Return; Inception Currency Return; [The following are available for periods 10 year; 5 year; 3 year; 1 year; Year to Date; 9 month; 6 month; 3 month; 1 month] Beginning Date; Beginning Value; Ending Value; Return; Net Flow Amount; Appreciation Amount; Principal Return; Income Return; Currency Return; Lookup Key; Benchmark ID; Run Date
DAILY PERFORMANCE	Daily returns for authorized accounts, starting from the first day of the prior month through current MTD.	Firm ID; Archer Account ID; Start Date; Beginning Value; Ending Value; Return Base; Return Local; Total Flow; Run Date
INDEX PERFORMANCE SUMMARY, CURRENT AND PME	Summary performance data for all benchmarks for current MTD and prior MTD. May be mapped with account data.	Effective Date, Firm ID, Index ID; [The following are for YTD, Months 1, 3, 6, 9 and Year 1, 3, 5, 10: Base Return, Begin Date]; Return Type
INDEX SINCE INCEPTION PERFORMANCE RECORDS BY ACCOUNT, CURRENT AND PME	Since inception benchmark performance by account, effective through current MTD or PME. Require sources for daily MTD benchmark returns.	Annual Return; Cumulative Return; Effective Date; Archer ID; Firm ID; Inception Date; Index ID; Index Long Name; Index Name; Run Date; Annual Return; Cumulative Return; Effective Date;
COMPOSITES		
COMPOSITE REPORTING	Composite summary information for latest period, including return, standard deviation, high/low/average return, number of accounts and total value.	Firm ID; Composite Name; Composite Code; Description; Index Name; Composite Inception Date; End Date; Beginning Value; Ending Value; Return Base; Index Return; Number of Accounts; Mean Return; Median Value; Average Value; Low Return; High Return; Standard Deviation; Data Source; Run Date
COMPOSITE PERFORMANCE	Composite multi-period returns including asset-weighted equal weighted net and gross; periods over 1 year are annualized.	Composite ID; Composite Name; Date; Firm ID; Composite Inception Date; Return for Months 1, 2, 3, 6 and 9; Return for Years 1, 2, 3, 5, 7, 10; YTD Return; Since Inception Return; Performance Basis; Return Type; Run Date; Weight
COMPOSITE MEMBERS	Current composite membership.	Firm ID, Composite Name; Composite Code; Archer Account ID; Entity Name; Run Date
HISTORICAL COMPOSITE MEMBERSHIP CHANGES	All historical composite member history by composite, including dates for account inclusion/exclusions.	Firm ID; Composite Name; Composite Code; Archer Account ID; Entity Name; Action Taken; Change Date; Run Date

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TABLE	DATA DESCRIPTION	AVAILABLE FIELDS
TRANSACTIONS		
CONTRIBUTIONS AND WITHDRAWALS BY ACCOUNT	Flow transaction details by account, including contributions, withdrawals, securities flows, and cash expenses such as management fee transactions.	Account System Transaction ID; Asset Class Code; Asset ID Type; Comments; Coupon; Coupon Frequency Code; Entity ID; Exchange; Firm ID; FX Rate; Inactive Flag; Income Currency; Maturity Date; Message Subtype; Net Cash Amount Long; Net Cash Amount Base; Original Face Value; Flow Amount; Flow Amount Base; Price; Performance Transaction; Primary Asset ID; Quantity; Run Date; Security Alias; Security Type; Settlement Currency; Settlement Date; Symbol; Trade Date
INCOME AND EXPENSES	Income and expense transaction details by account.	Firm ID; Archer Account ID; Security Alias; Income Amount Local; Income Amount Base; Accrued Interest Purchase; Accrued Interest Sold; Local Currency; FX Rate; Trade Notes; Message Type; Message Subtype; Settle Date; Primary Asset ID; Primary Asset ID Type; Symbol; Issue Description; Transaction ID; Asset Class Name; Industry Group Name; Security Type; Sector Name; Performance Reason; Status; Trade date; Run Date
TRADE ACTIVITY BY ACCOUNT	Current accounts' trade activity starting from the first day of the prior month, through current MTD. Information is net of trade corrections and cancels.	Firm ID; Archer Account ID; Symbol; Primary Asset ID; Asset ID Type; Trade Date; Settlement Date; Message Subtype; Broker Description; Quantity; Original Face; Trade Price; Principal Amount Local; Commission Amount Local; SEC Fee Local; Int Trade Local; Other Amount Local; Trade Amount Local; Net Cash Amount Local; Local Currency; FX Rate; Trade Amount Base; Net Cash Amount Base; Principal Amount Base; Commission Amount Base; Interest Amount Base; SEC Fee Base; Other Fee Base; Issue Description; Security Type; Asset Class Code; Coupon; Maturity Date; Exchange; Income Currency; Settlement Currency; Coupon Frequency Code; Inactive Flag; Security Alias; Accounting System Transaction ID; Run Date