MORNINGSTAR Wealth

DataConnect V4

Cumulative Release Notes

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RELEASE NOTES

This document describes the changes made in DataConnect version 4 after it was released.

Release Notes for April 24, 2025

This change affects DataConnect V4 Ultra and DataConnect V4 Lite guides.

- Two optional Account fields have been added:

Field	Required	Data Type	Description
MARGIN_TRADING_APPROVED		**BOOLEAN**	Value of 0 (false) or 1 (true). Indicates whether margin trading is approved for the account.
ACCOUNTING_METHOD		**CHAR20**	Method of accounting. One of: ▪ FIFO - First In, First Out ▪ INFI - Intraday First in First out ▪ LIFO - Last In, First Out ▪ LOFO - Lowest Cost First Out ▪ LCST - Lowest Cost Short Term ▪ LCLT - Lowest Cost Long Term ▪ HIFO - Highest Cost First Out ▪ HCST - Highest Cost Short Term ▪ HCLT - Highest Cost Long Term ▪ AVG - Average price method ▪ TXSN - Tax Sensitive ▪ STXSN - Short-Term Tax Sensitive ▪ MGML - Minimize gains and maximize losses ▪ MLMG - Minimize losses and maximize gains ▪ OTHER - The value supplied by the financial institution cannot be mapped

Release Notes for April 10, 2025

This change affects DataConnect V4 Ultra and DataConnect V4 Lite guides.

- To return response documents and error documents in non-compressed format, `compressResponse=false` can be added to the DataConnect URL.
  Note that `compressResponse=false` can be used for all DataConnect operations except FILECLAIMRQ, which will always have ZIP compression.
  For an example of the URL see Appendix A in *DataConnect V4 Ultra User Guide* *or* *DataConnect V4 Lite User Guide*

Release Notes for April 3, 2025

These changes affect DataConnect V4 Ultra. These changes are all reflected in *DataConnect V4 Ultra User Guide* Appendix F, which describes the Tax Lot Files.

- The date format has changed slightly and is described in the guide.
- Some fields are no longer required.
    - Open Lots Tax File:
        - COST_BASIS, ORIGINAL_COST_BASIS, and PURCHASE_DATE
    - Closed Lot Tax File:
        - PURCHASE_DATE and LOT_HOLDING_PERIOD
- The descriptions of several fields have changed:
    - Open Lots Tax File:
        - COST_BASIS, ORIGINAL_COST_BASIS, COST_PER_SHARE, and PURCHASE_DATE
    - Closed Lot Tax File:
        - COST_BASIS, ORIGINAL_COST_BASIS, COST_PER_SHARE, and PURCHASE_DATE, and LOT_HOLDING_PERIOD
- Several fields have been added to the end of the tax lots files:
    - Open Lot Tax File - seven new fields
    - Closed Lot Tax File - six new fields

Release Notes for March 13, 2025

These changes affect DataConnect V4 Ultra.

- Decimal places are being enforced for several fields in the BAAOPENLOTS and BAACLOSEDLOTS files. The changes are reflected in the *DataConnect V4 Ultra User Guide,* Appendix F: Tax Lot Files.

Release Notes for February 20, 2025

These changes affect DataConnect V4 Ultra.

- Changes were made for the BAAOPENLOTS and BAACLOSEDLOTS files. The changes are reflected in the *DataConnect V4 Ultra User Guide,* Appendix F: Tax Lot Files.
    - The LOT_ID field now has the length of 60 characters.
    - The file naming convention for the files has changed so that the date in the file name is now the as-of date of the contained data instead of the date when the file was posted.
    - The files now include this field at the end of the file:

ORIGINAL_FACE		NUMBER	The original face or par value for a security that amortizes or accretes (e.g., a mortgage). For such securities, the “current face” is available in the UNITS field.

Release Notes for December 16, 2024

This change affects DataConnect V4 Ultra.

- A <DELET_ACCOUNTS> option has been added to the Delete Account Credential request <ACCTCREDDELRQ>. When this tag is included, all accounts associated with the credential are deleted. When it is omitted, the reference is removed and the accounts are left without credentials.

Request: <ACCTCREDDELRQ>

The **<ACCTCREDDELRQ>** can contain the following:

Tag	Required	Field	Description
<PROFILE_ID> or <USER_IDENT>	√	**FinancialProfile.ID**	Internal ID for the Financial Profile that contains the Account Credential.
<ID>	√	**ID**	ID of the Account Credential to be deleted.
<DELETE_ACCOUNTS>			When this tag is included, all accounts associated with the credential are deleted. When it is omitted, the reference is removed and the accounts are left without credentials.

Release Notes for December 12, 2024

This change affects DataConnect V4 Ultra.

- The documentation for the <TAXLOTFILELISTRQ> operation introduced in the previous release has been refined, and descriptions of the open lots and closed lots files were added in an appendix.

Release Notes for November 21, 2024

These changes affect DataConnect V4 Ultra only unless otherwise specified.

- A new <TAXLOTFILELISTRQ> operation has been added to request a list of available open and closed tax lot files in a user's scope. Also, corresponding functionality has been added to the <FILECLAIMRQ> operation to claim the file(s).

- One of the restrictions for the SAMLAUTHRQ operation has been refined.
  - LOGINRQ for this request can only specify the login of a DataConnect Ultra Administrator user. Typically, this DataConnect Ultra Administrator user will be associated to the investor's firm, however, the operation also supports use of a DataConnect Ultra Administrator that is associated with a Firm that is an ancestor of the investor's firm. If the Administrator is in an ancestor firm then the SAML IdP configured for the Administrator's firm must match that of the Investor's firm, otherwise the error "Incorrect SAML identity provider" (67099) will occur.

- In DataConnect V4 Ultra and Lite, the message for error code 65779 has been changed. It is now:

Error Code	Severity	Error Message
65779	Error	The <field name> is outside the valid range valid range of 0 to 999999999999999999

Release Notes for September 26, 2024

This change affects DataConnect V4 Ultra.

The SAMLAUTHRQ operation has been added for authenticating Investor users via SAML Single Sign on (SSO).

Release Notes for May 23, 2024

This change affects DataConnect V4 Ultra and DataConnect V4 Lite guides.

The description for COST_BASIS in the Holding object has been updated to standardize it.

Holding

Fields	Required	Data Type	Description
COST_BASIS		**NUMBER**	Financial Service-supplied cost basis for the Holding. If the cost basis is not available, this field may be populated with a calculated value, derived by multiplying the average Financial Service-supplied per-share cost by the total units of the Holding.

Release Notes for September 28, 2023

This change affects DataConnect V4 Ultra.

- In select cases, access to individual financial institutions may now be restricted so that only firms that are licensed to use them can do so. When any the following requests involves a restricted financial institution not licensed for the firm, the response will be an error message.
    - ACCTADDRQ
    - ACCTCREDADDRQ
    - ACCTMODRQ
    - ACCTCREDMODRQ

Error Code	Severity	Error Message
67163	Error	Not licensed to perform operation at restricted financial institution

Release Notes for August 17, 2023

This change affects DataConnect V4 Ultra.

- <SESSIONAUTHRQ> now has an optional <READ_ONLY> tag for investor users. When present, the generated session is read-only and data cannot be modified even if the target investor has write permissions.

Release Notes for April 21, 2023

This change affects DataConnect V4 Ultra and Lite.

- Throughout our products, CUSIP data now only is present if the firm is licensed for CUSIP data and CUSIP delivery is enabled for the firm. Additionally, because ISIN fields can potentially contain CUSIP values, the data for them is only included if CUSIP delivery is enabled for the firm.

Release Notes for March 2, 2023

These changes affect DataConnect V4 Ultra.

- If the firm is licensed for extra Morningstar security data and the new subordinate INCEXTRASECINFO tag is set in the <INCSECURITY> aggregate, the Security object will include additional Morningstar security fields as applicable.

Release Notes for February 9, 2023

This change corrects a documentation error.

Corrections were made in the *AccountView and DataConnect Export* guide at http://www.byallaccounts.net/Manuals/AccountView/BAA_Export.PDF regarding the signs for Flow Amount and Flow Units Fields in the transaction file. For Direct debit they are both negative, and for Direct deposit they are both positive.

Release Notes for January 26, 2023

These changes affect DataConnect V4 Ultra.

- An issue that could cause sold-off securities to be included when not requested, creating “Invalid Security reference” errors, has been fixed. [BAPP-6668]
- An issue that could create a double database connection for User Add, Modify, and Unsubscribe has been fixed. [BAPP-6463]

Release Notes for August 25, 2022

These changes affect DataConnect V4 Ultra. The following fields were added to the FI (Financial Institution or Financial Service) object.

Fields	Required	Data Type	Description
KNOWN_ISSUE_LONGTERM		**CHAR500**	This field provides information about known long-term issues, if any, associated with the FI.
HEALTH_STATUS		**CHAR20**	This field indicates the health status of the FI. If this field is not included, the health status for this financial institution is not calculated yet. **INSUFFICIENTUSAGE** – there has not been enough usage to confidently determine a likely aggregation outcome. **GREEN** – users should be able to successfully link their account(s). **YELLOW** – there is a connectivity issue that may impact users' ability to successfully link their account(s). **RED** – unable to connect to this FI.

Release Notes for June 30, 2022

This change affects DataConnect V4 for PortfolioCenter.

- An issue with handling commas and double quotes was fixed for the securitytranslations.csv produced using the CONFIGURE EXPORT operation which is exclusively used for PortfolioCenter.

Release Notes for June 2, 2022

This change affects DataConnect V4 Ultra.

- The following warning messages have been removed.

68906	Warning	The user was successfully created but there was a problem managing the user's SAML SSO status.
68914	Warning	The user was successfully modified but there was a problem managing the user's SAML SSO status
68922	Warning	The user was successfully deleted but there was a problem managing the user's SAML SSO status

This change affects DataConnect V4 for PortfolioCenter.

- The DataConnect V4 PortfolioCenter Export Guide has been updated to include the CONFIGURE EXPORT operation <EXPORTCONFIGGETRQ_A> and <EXPORTCONFIGGETRS_A> which is exclusively used for PortfolioCenter.

Release Notes for May 12, 2022

This change affects DataConnect V4 Ultra.

- The documentation has been updated to clarify that when using an async operation that returns a file that you must use DATACLAIM before calling FILECLAIM. The operations where this detail has been added are: Export Data (Asynchronous) operation and Import Data (Asynchronous).

Release Notes for February 10, 2022

These changes affect DataConnect V4 Ultra.

- The documentation has been updated so the Single Sign-on Operations section is applicable to Morningstar Connect component and the Consumer User Interface (CUI2) application in addition to AccountView.

Release Notes for September 17, 2020

This change affects DataConnect V4 Ultra and Lite.

- The Accounts object now includes the following field:

Field	Required	Data Type	Description
EXTERNAL_SERVICE_LEVEL	√	**CHAR20**	Indicates Transactional or Positional. Value is Transactional when created by DataConnect.

Release Notes for January 20, 2022

This change applies to DataConnect V4 Ultra and Lite.

- The following field was added to the Accounts object.

Fields	Required	Data Type	Description
END_DATE_LAST_TX		**DATE**	The date used for determining the starting period for retrieval of transactions on the next aggregation. This field cannot be modified.

Release Notes for December 23, 2021

This change applies to DataConnect V4 Ultra.

- When the <ALL/> tag is used with <FIGETRQ>, the KNOWN_ISSUE_ADVANCED and KNOWN_ISSUE_BASIC fields are not retuned. <FIGETRQ> is used to retrieve detailed financial service information, and when the <ALL/> tag is used it returns information for all financial services, in a very lengthy list. Because the KNOWN_ISSUE_ADVANCED and KNOWN_ISSUE_BASIC fields contain connectivity issue information that should not be cached due to its dynamic nature, they are omitted when <ALL/> is used. When the <ID> tag is used to call for specific financial institutions, those fields are returned when information is available.

Release Notes for December 2, 2021

This change applies to DataConnect V4 Ultra.

- The maximum length for the VALUE tag in the INPUTTEXT aggregate is now CHAR1024.

This change applies to DataConnect V4 Ultra and Lite.

- The description for the <DATAGETRS_A> response has been corrected to begin with this content:

  This response provides the receipt needed to claim the results of the **Data Get** operation later. A **<DATACLAIMRQ>** must be subsequently submitted to check on the status of the **Data Get** operation and to retrieve the final results of the operation.

Release Notes for September 14, 2021

These changes affect DataConnect V4 Ultra.

- The documentation has been corrected to show that maximum length for FI_SUPPLIED_ACCOUNT_TYPE is CHAR64.
- Morningstar is making changes to its application email delivery services that impact products that send emails to external parties. Application emails are now sent through SendGrid 3rd party mail server. Emails formerly sent from BAA-ServiceAlerts@morningstar.com will be sent from BAA-Service@alerts-morningstar.com. These changes will be complete by October 31, 2021.

Release Notes for August 12, 2021

These changes affect DataConnect V4 Ultra.

- Additional account handling for OAuth was added to <ACCTMODRQ> when switching financial institutions.
- OAuth account conversion is now done automatically when <ACCTDISCRQ_A> is run.
- The documentation has been updated to indicate that <SESSION_ID> and <CSRF_TOKEN> for <SESSIONAUTHRS> are also used for Consumer User Interface (CUI2) application.

Release Notes for July 22, 2021

These changes affect DataConnect V4 Ultra.

- An error code was added for <ACCTCREDTESTRS_A>.

Error Code	Severity	Error Message
68099	Error	Credential Test timed out waiting for OAuth response

- Additional handling was added to <ACCTCREDMODRQ> when switching financial institutions.

Release Notes for July 2, 2021

- This change affects DataConnect V4 Ultra. The following fields were added to the FI (Financial Institution or Financial Service) object**.**

Fields	Required	Data Type	Description
KNOWN_ISSUE_ADVANCED		**CHAR2000**	This field provides information about known connectivity issues, if any, at the financial institution. This information is usually very detailed and suitable only for advanced users, and generally should not be given to investors (see KNOWN_ISSUE_BASIC). The information is in HTML format (encoded in CDATA in XML response files).
KNOWN_ISSUE_BASIC		**CHAR2000**	This field provides information about known connectivity issues, if any, at the financial institution. The information in this field (versus KNOWN_ISSUE_ADVANCED) is simplified and appropriate for delivery to investors. The information is in HTML format (encoded in CDATA in XML response files).

- This change affects DataConnect V4 Ultra. These error codes for <ACCTCREDTESTRS_A> were added:

Error Code	Severity	Error Message
67427	Error	Test Account Credential failed due to invalid OAuth firm configuration.
67435	Error	Test Account Credential failed due to invalid OAuth Financial Institution configuration.
67443	Error	Test Account Credential failed because the OAuth Credential was not found.

Release Notes for May 20, 2021

- This change affects DataConnect V4 Ultra. The following field was added to the FI (Financial Institution or Financial Service) object**.**

Field	Required	Data Type	Description
SETUP_INSTRUCTIONS		**CHAR3000**	Provided in HTML format (encoded in a CDATA Section in Response XML files). When present, these instructions identify setup instructions for the Financial Service.

Release Notes for February 4, 2021

- This change affects DataConnect V4 Ultra.
  As of this release, changing the financial institution (FI) on a credential can be done between FIs of different authentication types, whether LOGIN or OAUTH.
- This change applies to DataConnect V4 Ultra and Lite.
  The following field was added to the Account Credential object.

Field	Required	Data Type	Description
OAUTH_TOKEN_ID		**UID**	For ACCOUNT_CREDENTIAL objects of type OAUTH, the aggregation system will set the OAUTH_TOKEN_ID once the end user has successfully completed OAUTH set up for the ACCOUNT_CREDENTIAL at the financial institution. Note that the presence of OAUTH_TOKEN_ID does not guarantee that the accounts associated with the credential can be aggregated.

Release Notes for January 14, 2021

These changes affect DataConnect V4 Ultra.

Changes in this release support for OAUTH authorization for DataConnect V4 Ultra. For example, the Test Account Credential <ACCTCREDTESTRQ_A>operation now supports OAUTH interaction with the addition of a <START_OAUT/> tag.

Tag	Required	Field	Description
<START_OAUTH/>			Empty tag. If the Financial Institution has a SUP_OAUTH value of SUPPORTED then this flag must be provided otherwise an error will be returned. If the Financial Institution does not support OAUTH then this will be ignored. If present, then an ACCTCREDTESTRS_A response with an OAUTH_MICROSITE_URL and an OAUTH_EXP may be returned, requiring the calling application to launch the OAUTH_MICROSITE_URL so the end user can complete the authorization directly at the Financial Institution.

The <ACCTCREDTESTRS_A> response has new tags <OAUTH_MICROSITE_URL> and <OAUTH_EXP>.

Tag	Required	Field	Description
<OAUTH_MICROSITE_URL>	*		If the Financial Institution uses OAUTH for authentication, then you must launch this URL to enable the end user to authorize accounts for the aggregation service at the Financial Institution.
<OAUTH_EXP>	*		Timestamp of when the OAUTH_MICROSITE_URL is no longer valid for completing the authorization. Ten (10) minutes will be allotted for the user to complete the interaction with the OAUTH_MICROSITE_URL to authorize the account access.

There are now additional possibilities for the <APPLICATION_URL> value returned by the Session Authenticate operation <SESSIONAUTHRS>.

Tag	Required	Field	Description
<APPLICATION_URL>		**CHAR1000**	The value returned is based on the user type and license status of the firm. ▪ Advisors and Assistants will always receive the Application URL for AccountView. ▪ Investors will receive the Application URL for the Consumer User Interface (CUI2) application if CUI2 is licensed at their firm. Otherwise they will receive the Application URL for AccountView.

These error codes for <ACCTCREDTESTRS_A> were added:

Error Code	Severity	Error Message
0	Success	Operation paused, awaiting OAuth.
67395	Error	Test Account Credential requires the START_OAUTH flag for this Account Credential since it is of type OAuth.
67403	Error	Test Account Credential encountered an OAuth configuration error.
67411	Error	Test Account Credential failed because the target Account Credential is configured as OAuth-type but the FI does not support OAuth

Release Notes for December 10, 2020

In DataConnect Ultra, Change DC <USERADDRQ>for Investor defaults to FULL RW instead of CW if OWN_FP_ACCESS is not specified.

A documentation correction was made in the change is the Ultra and Lite guides. The account number length was corrected in the documentation to be CHAR128.

Release Notes for November 19, 2020

These changes affect DataConnect V4 Ultra and Lite.

The ACCOUNT CREDENTIAL object now includes the following field:

Field	Required	Data Type	Description
AUTH_TYPE	√	**CHAR12**	Indicates the authentication type of the financial institution. Is either OAUTH or LOGIN.

Release Notes for October 29, 2020

These changes affect DataConnect V4 Ultra.

The export CSV files for accounts (export_accounts.csv) and positions (export_positions.csv) both include a new column for EXTERNAL_SERVICE_LEVEL.

Column Header	Field always has a value	Data Type	Historical Treatment	Description
EXTERNAL_SERVICE_LEVEL		CHAR20	Current Value	The external service level. The value is either Positional or Transactional.

Refer to the *AccountView and DataConnect Export* guide at http://www.byallaccounts.net/Manuals/AccountView/BAA_Export.PDF for details about the files.

The <ACCTADDRQ> and <ACCTMODRQ> requests have a new EXTERNAL_SERVICE_LEVEL field. The value for this field may be set in the request to Positional or Transactional. When the value is not specified, upon account creation if the authenticated user is an Investor the value defaults to Positional. If the authenticated user is not an Investor the value defaults to Transactional. For both requests, an invalid value for the field results in the error code, 68027, "Invalid value for EXTERNAL_SERVICE_LEVEL: Must be one of Positional, Transactional".

The new support flag SUP_OAUTH on the Financial Institution object defines whether this FI uses OAUTH authentication. The value is one of: UNKNOWN, UNAVAILABLE, UNSUPPORTED, or SUPPORTED.

Release Notes for September 3, 2020

These changes affect DataConnect V4 Ultra and Lite.

The export CSV files each includes a new column for UIM_GUID. The files are: export_accounts.csv, export_positions.csv, export_transactions.csv, export_clients.csv, export_investmentoptions.csv.

Column Header	Field always has a value	Data Type	Historical Treatment	Description
UIM_GUID		CHAR36	Current Value	Key used for UIM authentication.

The following column was added to the positions export file (export_positions.csv).

Positions Export File				
Column Header	**Field always has a value**	**Data Type**	**Historical Treatment**	**Description**
CLIENT_FIRST_NAME		CHAR64	Current Value	First name of the client.
CLIENT_MIDDLE_NAME		CHAR64	Current Value	Middle name of the client.
CLIENT_LAST_NAME		CHAR64	Current Value	Last name of the client.

Refer to the *AccountView and DataConnect Export* guide at http://www.byallaccounts.net/Manuals/AccountView/BAA_Export.PDF for details about these files.

Release Notes for August 6, 2020

This change affects DataConnect V4 Ultra.

The following field was added to the FI (Financial Institution or Financial Service)

Fields	Required	Data Type	Description
IS_FEED	√	BOOLEAN	A 1 (true) indicates that institution provides data as a feed, which is typically a file set available over SFTP (versus a web site). If 0 (false), then it does not.

Release Notes for July 17, 2020

This change affects DataConnect V4 Ultra and Lite.

The Accounts Export file (export_accounts.csv) has two additional columns: FI_SUPPLIED_CUSTODIAN_CODE and FI_SUPPLIED_CUSTODIAN_NAME which identify the code and name of the custodian. Refer to the *AccountView and DataConnect Export* guide at http://www.byallaccounts.net/Manuals/AccountView/BAA_Export.PDF for details about the file.

Release Notes for June 5, 2020

This change affects DataConnect V4 Ultra and Lite.

The documentation has been updated to remove this restriction, which was an artifact of older functionality and is no longer true.

> "DataConnect client must submit subsequent requests for data resulting from an asynchronous operation from the same IP address as the initial request."

Release Notes for March 13, 2020

This change affects DataConnect V4 Ultra and Lite.

Nine-digit numbers appearing in a transaction name or description field are now masked. For example, in numbers such as 123456789, 12-3456789, and 123-45-6789 each numeral is masked with a 9.

Release Notes for February 20, 2020

This change affects DataConnect V4 Ultra and Lite.

The Accounts Export file (export_accounts.csv) has an additional column ACCOUNT_PRIOR_BUSINESS_DAY_DATE, which identifies the business date immediately prior to the LAST_UPDATED date. Refer to the *AccountView and DataConnect Export* guide at http://www.byallaccounts.net/Manuals/AccountView/BAA_Export.PDF for details about the file.

Release Notes for January 9, 2020

These changes affect DataConnect V4 Ultra and Lite.

When an Export Data request (<DATAEXPORTRQ_A >) specifies an historical date that is not a business day, the request is now processed for the business day prior to the provided date. In the past such a request returned the error 65843 "Only dates prior to today are allowed".

Release Notes for December 5, 2019

These changes affect DataConnect V4 Ultra and Lite.

The name of the account type BANKING_CASHMANAGEMENT has changed to INVESTMENT_CASHMANAGEMENT and the name of account type BANKING_COVERDELL has changed to INVESTMENT_COVERDELL.

A comma-separated values (CVS) export file of account data performed with the EXPORT_DATA_AS_OF_DATE specified as the prior day was producing incorrect market values for accounts that had not yet been aggregated for the current day. The correct values are now exported.

Release Notes for June 13, 2019

The only changes were to the documentation for DataConnect V4 Ultra and Lite.

The list of possible values for the FI (Financial Institution or Financial Service) field SERVICE_CATEGORY has been trimmed down to be more focused.

Release Notes for January 18, 2019

These changes affect DataConnect V4 Ultra and Lite.

Account MARKET_VALUE is now limited to two decimal places.

The set of possible values for transaction SPENDING_CATEGORY has been revised. Some categories have been renamed and others added. The current values are listed in the DataConnect guides as well as in the *AccountView and DataConnect Export Files* guide. All of those guides are available at rf].

Release Notes for November 15, 2018

These changes affect DataConnect V4 Ultra and Lite.

When the <GENERATE_LOGINS> aggregate is used with <DATAIMPORTRQ_A>, an error message will now be produced if the EMAIL_SUBJECT or EMAIL_PREPEND_MSG tags are used when the Firm is set to not allow users to modify text of email sent to clients.

A maximum of 10,000 rows is now enforced on the investors import file. Any rows beyond 10,000 will be ignored and the README will indicate that not all rows were processed.

The maximum lengths for the EMAIL_PREPEND_MSG and EMAIL_SUBJECT fields are now enforced and violation results in error 65563.

Error code 67994 has been renumbered to 67995.

In the past, <DATAGETRQ> queries did not return Financial Institutions (FIs) for which there were credentials but no accounts. Now FI that have credentials but no accounts are included.

Release Notes for October 18, 2018

These changes affect DataConnect V4 Ultra and Lite.

Importing clients (using DATAIMPORTRQ_A) was producing an error when the file had extra columns other than those prescribed by the file format. Extra columns are now tolerated and -ignored.

DATAIMPORTRQ_A now includes an optional GENERATE_LOGINS aggregate for INVESTORS. It enables the system to generate unique logins and pre-expired passwords and send them in email to the new users. The aggregate includes optional tags that enable customizations to the email.

Release Notes for September 28, 2018

These changes affect DataConnect V4 Ultra and Lite.

In a recent release, functionality was added for importing investors using <DATAIMPORTRQ_A>. The DataConnect user guides have been updated to include the details.

The file for exported transactions now includes new columns. The SPENDING_CATEGORY column indicates the categories such as Housing, Utilities, Transportation, etc. The SPENDING_CATEGORY_INFO column indicates whether it is classified as Income or Expense. The details are provided in the DataConnect guides as well as in the *AccountView and DataConnect Export Files* guide. All of those guides are available at http://www.byallaccounts.net/Manuals/Content/DataConnect/DataConnect.htm.

Release Notes for September 7, 2018

For DataConnect Ultra, the optional DISCOVERED_ACCOUNT_ID tag for <ACCTADDRQ> now updates more fields in the account with corresponding fields from the DiscoveredAccount object, as shown here.

Tag	Required	Field	Description
<DISCOVERED_ACCOUNT_ID>		**DISCOVERED_ACCOUNT_ID**	Optional. When specified it is used to update the following fields in the Account with corresponding fields from the DiscoveredAccount Object. ▪ TAX_ID (which maps to FI_SUPPLIED_ACCOUNT_TAXID) ▪ FI_SUPPLIED_ACCOUNT_TYPE ▪ ACCOUNT_TYPE ▪ FI_SUPPLIED_ADDRESS_STREET ▪ FI_SUPPLIED_ADDRESS_LINE2 ▪ FI_SUPPLIED_ADDRESS_LINE3 ▪ FI_SUPPLIED_ADDRESS_LINE4 ▪ FI_SUPPLIED_ADDRESS_LINE5 ▪ FI_SUPPLIED_ADDRESS_LINE6 ▪ FI_SUPPLIED_ADDRESS_CITY ▪ FI_SUPPLIED_ADDRESS_STATE ▪ FI_SUPPLIED_ADDRESS_ZIP_CODE ▪ FI_SUPPLIED_CLIENT_PHONE ▪ FI_SUPPLIED_CLIENT_DOB ▪ FI_SUPPLIED_CLIENT_EMAIL

			▪ FI_SUPPLIED_REP_ID ▪ FI_SUPPLIED_FIRM_ID ▪ FI_SUPPLIED_ACCOUNT_TAXID ▪ FI_SUPPLIED_ACCOUNT_NAME ▪ FI_SUPPLIED_ACCOUNT_TITLE ▪ FI_SUPPLIED_CLIENT_FIRST ▪ FI_SUPPLIED_CLIENT_MIDDLE ▪ FI_SUPPLIED_CLIENT_LAST

Release Notes for August 2, 2018

A correction was made to the *DataConnect V4 Ultra User Guide*. A user's email address is not required in the Person object unless a login name is provided.

Person

Field	Required	Data Type	Description
EMAIL_ADDRESS		**CHAR64**	Person's email address. Required only if a login name is provided.

Release Notes for June 15, 2018

DataConnect V3 is now officially retired and disabled.

Release Notes for May 25, 2018

To support the 2018 requirements for passwords that can be enabled for firms in the Admin Tool, the following error codes have been added or changed. In DataConnect Lite the changes affect errors codes for <LOGINRS>. For DataConnect Ultra, they affect error codes for <LOGINRS>, <USERADDRS>, and <USERMODRS>.

	Error Code	**Severity**	**Error Message**
Changed	56803	Error	The new password does not meet minimum length requirements.
New	56835	Error	The password has too many sequential or repeating characters (e.g. AAAA or 1234).
New	56843	Error	The new password cannot be the same as the login.
New	56851	Error	The new password must have at least one letter.

Release Notes for February 15, 2018

There are new warning codes related to SAML SSO.

<SESSIONAUTHRQ>

Error Code	Severity	Error Message
67043	Warning	User not configured for this login mode (user must login through SAML single sign-on)

<USERADDRQ>

Error Code	Severity	Error Message
68906	Warning	The user was successfully created but there was a problem managing the user’s SAML SSO status

<USERMODRQ>

Error Code	Severity	Error Message
68914	Warning	The user was successfully modified but there was a problem managing the user’s SAML SSO status

<USERUNSUBSCRIBERQ>

Error Code	Severity	Error Message
68922	Warning	The user was successfully deleted but there was a problem managing the user’s SAML SSO status

Release Notes for December 28, 2017

Dynamic exit URLs are now supported for AccountView single sign-on (SSO). Refer to http://www.byallaccounts.net/Manuals/Accountview/AccountView_SingleSignOn.pdf

Release Notes for November 9, 2017

The changes in this release affect DataConnect Ultra.

The following error code has been added for <USERADDRS>, <USERMODSRS>, and <USERUNSUBSCRIBERS>.

Error Code	Severity	Error Message
67930	Warning	The new user was not notified because the user has single sign on access.

The default messages that are sent to investors via <NOTIFY_USER/> have been modified for consistency.

Firms can customize the email messages that are sent to investors via <NOTIFY_USER/>. Customizations are made by editing the email templates. For details about customizing the default email, refer to the *AccountView Customization Guide* (http://www.byallaccounts.net/Manuals/Accountview/AV_Customization_Guide.PDF).

Firms can request that all emails sent to investors be blind carbon copied (Bcc’d) to a specified email address. If present in the email, the user's login and password are automatically masked.

Release Notes for September 7, 2017

In DataConnect Ultra, the error code 65555 for <USERMODRQ> now shows "LOGIN_PW" for the field name when a login is added but no password is provided.

In the *DataConnect V4 Ultra User Guide*, a correction was made to indicate that the <EMAIL_ADDRESS> in the <PERSON> aggregate for <USERADDRQ> is required only if a login name is provided. Also, a the code sample for ACCTCREDTESTRQ_A was fixed to show <PROFILE_ID>12</PROFILE_ID> instead of <FP_ID>12<FP_ID>.

Release Notes for August 17, 2017

A defined Exit URL is no longer required for the Firm for Single Sign On (SSO). A default Exit URL is provided if the Firm is set up without one.

Firm settings for SSO access by user type now define the default access for those user types.

Individual users can be designated as single-sign on (SSO) or non-single sign on (non-SSO) in the <PERSON> aggregate for <USERADDRQ> and <USERMODRQ>. If SSO access is not explicitly set when an individual user is created, the user inherits the default <IS_SSO> setting for their user type.

For DataConnect Ultra, the <PERSON> aggregate for <USERADDRQ> and <USERMODRQ> now contains the following:

Tag	Required	Field	Description
<IS_SSO>		**Person.IS_SSO**	Determines whether the person has single sign on (SSO) access. Either 1 to indicate true, or 0 to indicate false. If not explicitly set in the request, the default value is as set for the user type at the firm level. Can only be set by an administrator.

Note that only administrator users can modify the SSO access for other users, including at the API level. The following error code has been added for <USERADDRQ> and <USERMODRQ> in DataConnect Ultra.

Error Code	Severity	Error Message
67305	Error	Only administrators may explicitly set IS_SSO value.

For DataConnect Ultra and Lite, the person object now contains the following:

Field	Required	Data Type	Description
IS_SSO	√	**BOOLEAN**	Indicates whether the person has single sign on (SSO) access. Either 1 to indicate true, or 0 to indicate false.

Release Notes for July 27, 2017

Empty personal financial profiles (FP) for advisors have been removed so that accounts can only be added to investors, as intended. For now, those advisor financial profiles that have data will not be affected. This change affects DataConnect V4 Ultra and Lite.

For DataConnect V4 Ultra and Lite, the ASSET_LIABILITY_INDICATOR field was added to the Holding object.

Field	Required	Field	Description
ASSET_LIABILITY_INDICATOR	√	**CHAR9**	Valid values for this field are: • Asset • Liability

Release Notes for July 2017

For DataConnect V4 Ultra, administrators can now authorize individuals to have single-sign on (SSO) access to AccountView using <USER_IDENT> with <SESSIONAUTHRQ> rather than requiring logins and passwords for those individuals.

The <SESSIONAUTHRQ> now can use the following tag:

Tag	Required	Field	Description
<USER_IDENT>		**USER_IDENT**	See **<USER_IDENT>** aggregate description in the *Data Connect V4 Ultra User Guide*.

Also, for <SESSIONEXPIRERQ> the <LOGIN_NAME> tag is no longer required, and is not used when USER_IDENT is used for authorization.

Release Notes for June 2017

For DataConnect V4 Ultra, the Login response now includes the following field:

Field	Required	Data Type	Description
LAST_LOGIN_DATE		**DATE**	When the last login date is available, it is included in this field.

Release Notes for May 2017

Export has been enhanced to include accounts held by investors that have no advisor.

Release Notes for April 2017

The Accounts file now includes the following fields:

Field	Required	Data Type	Description
CREATION_DATE	√	**TIMESTAMP**	Date/time when the account was created.
MARKET_VALUE		**NUMBER**	The sum of the position values for the account as of the LAST_UPDATED date.

Release Notes for March 2017

Fixed query on account investment options

When using ACCOUNT_QUERY or PORTFOLIO_QUERY to request investment options on an account, the response produced an internal error. This problem has been fixed.

Improved protocol handling for ISAC

For DataConnect V4 Ultra, the protocol handling for in-service activation codes (ISAC) under heavy system load has been improved. There was an error that could occur under heavy system load and would result in the user needing to retry the operation unnecessarily.

Positions export file

The positions export file (export_positions.csv) now includes the PAYDOWN_FACTOR field and a new MORNINGSTAR_PERFID field. The MORNINGSTAR_SECID field now contains the investment ID and new MORNINGSTAR_PERFID field contains the performance ID, if available. Refer to the *AccountView and DataConnect Export* guide at http://www.byallaccounts.net/Manuals/AccountView/BAA_Export.PDF for details about the file.

Column Header	Field always has a value	Data Type	Historical Treatment	Description
MORNINGSTAR_SECID		CHAR10	Current Value	Morningstar investment identifier.
MORNINGSTAR_PERFID		CHAR10	Current Value	For equities, this field contains the Morningstar performance identifier. This field is empty for anything other than equities.
PAYDOWN_FACTOR		NUMBER	Omitted	The paydown factor value for the bond is included in the file if it is provided by the financial institution.

Investment Options export file

In the Investment Options file (export_investmentoptions.csv) now contains a new MORNINGSTAR_PERFID field. The MORNINGSTAR_SECID field now contains the investment ID and new MORNINGSTAR_PERFID field contains the performance ID, if available. Refer to the *AccountView and DataConnect Export* guide at http://www.byallaccounts.net/Manuals/AccountView/BAA_Export.PDF for details about the file.

Column Header	Field always has a value	Data Type	Description
MORNINGSTAR_SECID		CHAR10	The Morningstar security identifier.
MORNINGSTAR_PERFID		CHAR10	For equities, this field contains the Morningstar performance identifier. This field is empty for anything other than equities.

Holding object change

The PAYDOWN_FACTOR field was added to the Holding object.

Field	Required	Data Type	Description
PAYDOWN_FACTOR		**NUMBER**	The paydown factor value for bond if provided by the financial institution.

Security object change

The MORNINGSTAR_PERFID field was added to the Holding object, and the content of the MORNINGSTAR_SECID field was changed.

Field	Required	Data Type	Description
MORNINGSTAR_SECID		**CHAR10**	The Morningstar security identifier.
MORNINGSTAR_PERFID		**CHAR10**	For equities, this field contains the Morningstar performance identifier.

SEDOL delivered if enabled for firm

In all cases, SEDOLs are only delivered when they are enabled for the firm. Firms must be licensed by the London Stock Exchange in order to have SEDOLs enabled in the service.

Release Notes for November 2016

The following tag was added to <DATAEXPORTRQ_A> in order to request the output a list of investment options in the export_investmentoptions.csv file. Refer to the *AccountView and DataConnect Export* guide at http://www.byallaccounts.net/Manuals/AccountView/BAA_Export.PDF for details about the file.

Tag	Required	Field	Description
<INCINVOPTFILE/>	*		Empty tag. If present, specifies that the Investment options CSV file should be included in the response. If absent, the Investment options file is not included in the response.

The following field was added to the Account.

Field	Required	Data Type	Description
PLAN_NAME		**CHAR128**	Name of the plan.

The following error codes were added for **<DATAEXPORTRS_A>**

Error Code	Severity	Error Message
67514	Warning	Investment Option file not completed
67522	Warning	Client file not completed

The following field was added to the FI (Financial Institution or Financial Service)

Fields	Required	Data Type	Description
POPULAR	*	**BOOLEAN**	If 1 (true) then the financial institution is popular.

The following tag was added to the <FP_DATA> aggregate

Tag	Required	Field	Description
<INVESTMENT_OPTION>		Investment_Option	Can have more than one.

Release Notes for October 2016

The following tag was added to <DATAGETRQ> in order to request the Defined Contribution plan investment lineup for retirement accounts at FIs that support gathering of this information. This information is delivered in the new Investment Option object data type which is described in the DataConnect User Guides.

Tag	Required	Field	Description
<INCINVOPT>			Empty tag: If present, specifies that Investment Options should be included in the response.

The following fields were added to the Transaction. The fields provide information that was formerly only available combined in the COMMISSIONS_FEES field.

Field	Required	Data Type	Description
COMMISSIONS		**NUMBER**	Commission associated with this transaction.
FEES		**NUMBER**	Non-commission fees associated with this transaction.

For DataConnect V4 Ultra only following tag was added to the **<ACCTADDRQ>** request.

Tag	Required	**Field**	Description
<DISCOVERED_ACCOUNT_ID>		**DISCOVERED_ACCOUNT_ID**	Optional. When specified it is used to update the following fields in the Account with corresponding fields from the DiscoveredAccount Object: ▪ FI_SUPPLIED_ACCOUNT_TAXID ▪ FI_SUPPLIED_ACCOUNT_TYPE ▪ ACCOUNT_TYPE

These error codes were added to correspond with the new tag.

Error Code	Severity	Error Message
67891	Error	Discovered account could not be found
67899	Error	Account to be added does not match Discovered Account for financial profile
67907	Error	Account to be added does not match Discovered Account for credential
67915	Error	Account to be added does not match Discovered Account for account number
67923	Error	Account to be added does not match Discovered Account for account number 2

Release Notes for September 2016

The following field was added to the Account object.

Account

Field	Required	Data Type	Description
ACCOUNT_TYPE		**CHAR32**	Account type as determined by the system from information available from the custodian. See User Guide for list of possible types.

The following fields were added to the Discovered Account object.

Discovered Account

Field	Required	Data Type	Description
ID	√	**UID**	A unique numeric identifier for the discovered account.
FI_SUPPLIED_ACCOUNT_TYPE		**CHAR32**	Custodian reported account type for this account.
ACCOUNT_TYPE		**CHAR32**	Account type as determined by the system from information available from the custodian. See User Guide for list of possible types.

Enhancement to DATAEXPORT2RQ_A for PC Export

The *DataConnect V4 PortfolioCenter Export Guide* has been updated to include an additional tag for <DATAEXPORT2RQ_A>, which is an operation exclusively used for PortfolioCenter. The table now includes:

<NUMBERDAYSHXPRICE>		***Integer***	*The specified number of days of historical price file. Valid range is 1 through 6.*

The following error code was also added:

Error Code	Severity	Error Message
65859	Error	The specified number of days of historical price file is outside the valid range of 1 to 6

Enhancement to ACCTADDRQ for DC V4 Ultra

The ELEMENT ACCTADDRQ parameter was added for DataConnect V4 Ultra. It does not apply to V4 Lite.

Release Notes for July 2016

The following fields were added to the Account object.

Account

Field	Required	Data Type	Description
FI_SUPPLIED_ADDRESS_STREET		**CHAR64**	Street address of the client who owns this account.
FI_SUPPLIED_ADDRESS_LINE2		**CHAR64**	Additional street address of the client who owns this account.
FI_SUPPLIED_ADDRESS_LINE3		**CHAR64**	Additional street address of the client who owns this account.
FI_SUPPLIED_ADDRESS_LINE4		**CHAR64**	Additional street address of the client who owns this account.
FI_SUPPLIED_ADDRESS_LINE5		**CHAR64**	Additional street address of the client who owns this account.
FI_SUPPLIED_ADDRESS_LINE6		**CHAR64**	Additional street address of the client who owns this account.
FI_SUPPLIED_ADDRESS_CITY		**CHAR32**	City portion of the address of the client who owns this account.
FI_SUPPLIED_ADDRESS_STATE		**CHAR32**	State portion of the address of the client who owns this account.
FI_SUPPLIED_ADDRESS_ZIP_CODE		**CHAR16**	Zip code portion of the address of the client who owns this account.
FI_SUPPLIED_CLIENT_PHONE		**CHAR32**	Phone number of the client who owns this account. Will stay in the format provided by the custodian.
FI_SUPPLIED_CLIENT_DOB		**CHAR12**	Date of birth of the client who owns this account, in standard date format YYYYMMDD.
FI_SUPPLIED_CLIENT_EMAIL		**CHAR64**	Email address of the client who owns this account.
FI_SUPPLIED_ACCOUNT_TYPE		**CHAR32**	Custodian reported account type for this account.

Release Notes for June 2016

The data type definition was changed to CHAR20 for the Holding, Transaction, and Holding Lots objects.

Field	Required	Data Type	Description
FI_SUPPLIED_CUSIP		**CHAR20**	Security's CUSIP as provided by the Financial Institution.

Release Notes for April 2016

Fields in DataConnect

The following fields were added to DataConnect.

Security

Field	Required	Data Type	Description
MORNINGSTAR_SECID		**CHAR10**	Morningstar security identifier (SECID) for this security.

Holding

Field	Required	Data Type	Description
DETERMINED_SEC_TYPE		**CHAR20**	Possible values for this field are one of the following, however, as of 3/30/16 this field is only valued as BOND or null. One of: BOND CASH MUTUALFUND OPTION OTHER STOCK
FI_SUPPLIED_SEC_TYPE		**CHAR64**	Any security type provided by the financial institution. Not commonly valued.

Transaction

Field	Required	Data Type	Description
DETERMINED_SEC_TYPE		**CHAR20**	Possible values for this field are one of the following, however, as of 3/30/16 this field is only valued as BOND or null. One of: BOND CASH MUTUALFUND OPTION OTHER STOCK

The **<DATAEXPORTRQ_A>** request has an additional tag.

Tag	Required	Field	Description
<INCCLIENTFILE/>	*		Empty tag. If present, specifies that Clients CSV file should be included in the response. If absent, the Clients file is not included in the response.

Export fields and file

There are new export fields and a new Clients export file as documented in the *AccountView and DataConnect Export* guide http://www.byallaccounts.net/Manuals/Accountview/BAA_Export.PDF.

The **Accounts Export** file has these additional fields

Accounts Export File				
Column Header	**Field always has a value**	**Data Type**	**Historical Treatment**	**Description**
FI_SUPPLIED_REP_ID		CHAR32	Current Value	Advisor/Rep identifier for the account, as supplied by the FI.
FI_SUPPLIED_FIRM_ID		CHAR32	Current Value	ID of the Firm for the advisor of the account, as supplied by the FI
FI_SUPPLIED_ACCOUNT_TAXID		CHAR32	Current Value	TAX ID (SSN or TIN) associated with the account, as supplied by the FI.
FI_SUPPLIED_ACCOUNT_NAME		CHAR128	Current Value	Name for the account, as supplied by the FI.
FI_SUPPLIED_ACCOUNT_TITLE		CHAR128	Current Value	Title of the account, as supplied by the FI.
FI_SUPPLIED_CLIENT_FIRST		CHAR64	Current Value	First name for the account holder for the account, as supplied by the FI.
FI_SUPPLIED_CLIENT_MIDDLE		CHAR64	Current Value	Middle name for the account holder of the account, as supplied by the FI
FI_SUPPLIED_CLIENT_LAST		CHAR64	Current Value	Last name for the account holder for the account, as supplied by the FI.

The **Positions (Holdings) Export** file has these additional fields.

Column Header	**Required**	**Data Type**	**Description**
FI_SUPPLIED_SEC_TYPE		CHAR64	Security type name/identifier, as supplied by the FI.
MORNINGSTAR_SECID		CHAR10	Morningstar SECURITY identifier.

For the entire listing of the **Clients Export** file, refer to the *AccountView and DataConnect Export* guide http://www.byallaccounts.net/Manuals/Accountview/BAA_Export.PDF.

Release Notes for February 11, 2016

The following line was added to the list of errors for DATAEXPORT in the DC Ultra and DC Light guides.

Error Code	Severity	Error Message
67722	Warning	Multiple files not completed

The following line was added to the list of errors for LOGIN in the DC Ultra and DC Light guides.

Error Code	Severity	Error Message
67739	Error	Access was not performed from an allowed IP address.

The Release Notes for February 3, 2016

The following field was added to the table describing the Account file in the DC Ultra and DC Light guides.

FI_SUPPLIED_REP_ID		**CHAR32**	The FI-supplied Advisor / REP identifier for this account. Only available for accounts at select FIs.

Release Notes for July 30, 2015

The <USER_QUERY> Aggregate can now contain <USER_SEARCH>, which allows for a case-insensitive containment-based search using at least one of FIRST_NAME and/or MIDDLE_NAME and/or LAST_NAME. If multiple search fields are used, the results will include only users which match all of the search criteria. Optionally the USER_SEARCH may also include one or more ROLE values for a Person: INVESTOR, ADVISOR, ASSISTANT, or CONSULTANT; the user search will be restricted to users which match the given ROLE(s)

The following error codes were added to the <DATAGETRS> response.

67635	Error	At least one of first name, middle name, or last name must be provided.
67643	Error	The user type must be one of INVESTOR, ADVISOR, ASSISTANT, or CONSULTANT