

THOMSON REUTERS DataScope Select

VERSION 12.0 – APRIL 2018
RELEASE NOTES



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About this Document

Overview

Thomson Reuters DataScope Select is a hosted data extraction platform that provides access to global pricing, validated terms and conditions, historical data content, corporate actions, cross-reference and legal entity and compliance data. Cross-asset support includes equities, funds, derivatives, money/foreign exchange, warrants, fixed income securities, commodities and sell-side estimates, as well as user-defined securities (credit default swap, interest rate swap, and over-the-counter equity option contracts).

In this Document

This document details the new and enhanced features and content available in the DataScope Select 12.0 release. This document supersedes all information announced previously in Content Notification [9876](#). Please refer to this document for the latest information.

Note that Tick History features are documented in separate release notes.

Related Documentation

For instructions on using DataScope Select, please see our online service, **Thomson Reuters DataScope Select Help**. The Help has process overviews, screen descriptions, and step-by-step instructions for using DataScope Select, as well as a comprehensive range of FAQs that provide answers across the full spectrum of DataScope Select capabilities.

The complete DataScope Select documentation set is available on the DataScope Select product page via [My Account](#).

The DataScope Select documentation set includes:

- **Quick Start Guide**
Gets you started using the DataScope Select user interface and provides a high-level overview of the extraction creation process. This document is intended for users who are new to the DataScope Select product.
- **User Guide**
Provides an overview of the DataScope Select user interface and instructions for creating instrument lists, report templates, and schedules for extractions. This comprehensive document provides details related to each step in the extraction creation process.
- **Data Content Guide**
Provides definitions, data types, and maximum field widths for all data fields available for extraction. Fields are presented by report template type in Excel format, which allows for easy viewing, filtering and integration into your own internal systems.
- **FTP User Guide**
Describes the DataScope Select FTP Hosted Service and provides instructions for creating the report request file required for transferring input lists, report templates, and schedules.

- **REST API Help**

Rest API Help enables you to explore the API Reference Tree for the most detailed API documentation, supplemented by working C# and HTTP code examples and thorough explanations of key REST API processing principles. REST API Help is available via the DataScope Select **Help** menu.

- **SOAP API Programmer Guides**

This three-document set provides instructions for using the SOAP API. Note that the SOAP API has been replaced with the Rest API, DataScope Select's next generation API designed around REST (Representational State Transfer) architecture. Thomson Reuters recommends that clients use the Rest API to take advantage of the full offering of extraction capabilities available in DataScope Select.

- **ISO 15022 User Guide**

Introduces Thomson Reuters ISO 15022 Service and provides detailed information on the event coverage available via DataScope Select. Also describes the process for retrieving and understanding equity- and fixed income-related messages processed via the DataScope Select HTTP/HTTPS and FTP/SFTP platforms.

Support

[My Account](#) is Thomson Reuters portal that provides a single access point for timesaving support services, along with billing, user management and information. For support using Tick History, please raise a query online via **Contact Us**.

The following support channels are available to keep informed of changes to products and data, and to be notified of any service issues or changes:

- **Change Notifications**

You can [subscribe](#) to the following change notifications:

- **Product** change notifications detailing new, enhanced, or changed functionality, which may require your action, in products that you use.
- **Content** change notifications alerting you to upcoming changes to real-time and historical data across all asset classes that are relevant to you.
- **RIC** change notifications informing you of planned changes to Thomson Reuters Instrument Codes.

- **Service Alerts**

You can [subscribe](#) to alerts about planned maintenance and unplanned service issues affecting your products and services, and be notified via SMS or email..

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Release Highlights

The following table lists the new and updated features in DataScope Select 12.0 and identifies the platforms on which those features are supported. Highlights of the new fields added in this release, as well as field updates requiring client attention, are also provided. For the complete list, please see *DSS 12.0 New and Updated Fields* on My Account.

DataScope Select 12.0 Features	GUI	FTP	REST API
New Features & Functionality			
Extractions			
<ul style="list-style-type: none"> New Price History Report 	✓	✓	✓
Composite & EOD Pricing			
<ul style="list-style-type: none"> Improved EOD Pricing Delivery for Asia & EMEA Government & Corporate Bonds 	✓	✓	✓
Corporate Actions – ISO 15022 Events	✓	✓	✓
<ul style="list-style-type: none"> Updates to DRCA Event Reporting 	✓	✓	✓
Extraction Performance			
<ul style="list-style-type: none"> Template-Based Limits for Better Performance 	✓	✓	✓
Import & Validation Enhancements			
<ul style="list-style-type: none"> Market Segment added as Allowable Input for Instrument Validation 	✓	✓	✓
<ul style="list-style-type: none"> USA OTC - Use PQ. rather than .PK Quote Source User Preference Enhanced 	✓	✓	✓
<ul style="list-style-type: none"> Chain Validation Enhanced 	✓	✓	✓
Third-Party Data Changes			
<ul style="list-style-type: none"> New & Updated Services 	✓	✓	✓
AskTRPS Enhancements			
<ul style="list-style-type: none"> New Broker Quote Challenge Capabilities 	✓		✓
<ul style="list-style-type: none"> Vendor to Vendor Challenges Expanded to Support Additional Quotes 	✓		✓
<ul style="list-style-type: none"> Batch Wizard Enhancement for Tolerance & Unchanged Challenges 	✓		✓

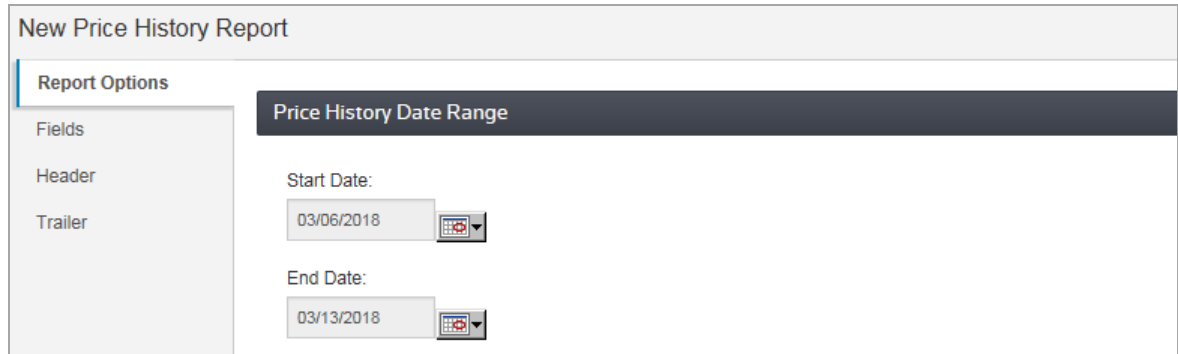
DataScope Select 12.0 Features	GUI	FTP	REST API
New, Expanded & Updated Fields			
Composite & Terms and Conditions			
▪ New & Expanded MiFID II Fields	✓	✓	✓
Intraday Pricing			
▪ New MiFID II & Equity Fields	✓	✓	✓
▪ Expanded Coverage of Contract Month	✓	✓	✓
Premium Pricing			
▪ Bank Loan Fields added for Fixed Income & Municipal Bonds	✓	✓	✓
Field Updates Requiring Client Action			
Composite, EOD Pricing, Legal Entity Detail, Premium EOD Pricing, Ratings, Technical Indicators, & Terms and Conditions			
▪ Domicile & Domicile Field Mapping Change	✓	✓	✓
Composite & Terms and Conditions			
▪ Bullet Redemption Flag Removed	✓	✓	✓
▪ Fund Field Lengths Expanded	✓	✓	✓
Intraday Pricing			
▪ Intraday Pricing Rules Updated for Bid, Ask & Reference Price	✓	✓	✓
Intraday Pricing & Premium Pricing			
▪ Embargo Field Updates	✓	✓	✓
REST API Updates			
▪ Automatic Authentication Token Renewal via New Context Signature			✓
▪ Usage Reporting Added to the REST API			✓

New Features & Functionality

Extractions

New Price History Report

This release includes the launch of a new **Price History** report for retrieving historical prices for a specific date or date range via the GUI, FTP and REST API platforms.



The screenshot displays the 'New Price History Report' interface. On the left, a sidebar under 'Report Options' includes 'Fields', 'Header', and 'Trailer'. The main panel, titled 'Price History Date Range', contains two date selection fields: 'Start Date' with the value '03/06/2018' and 'End Date' with the value '03/13/2018'. Each field has a small calendar icon to its right for date picking.

Price History leverages the Elektron Timeseries web service, Thomson Reuters strategic source for historical content. This state-of-the-art web service is highly reliable, fast and well supported, and enables **Price History** to offer several enhancements over the existing **Timeseries Pricing** report.

Enhancements include:

- **Faster Extraction Responses - Price History** extraction processing across all platforms is faster than **Timeseries Pricing** extraction processing.
- **Support for Larger Instrument Lists - Price History** extraction processing across all platforms supports up to 30,000 instruments in a single request; 100,000 instruments after file code and chain expansion. The **Timeseries Pricing** limit is 1,000 instruments.
- **Support for Historical Instruments - Price History** reports support the extraction of historical prices for delisted RICs, unlike **Timeseries Pricing** reports. Note that this capability requires that you have **Allow Import of Historical Instruments** selected in your user preferences.
- **Additional Fields - Price History** extractions offer 150+ additional fields along with the existing **Timeseries Pricing** field offering. Please see the *DSS 12.0 New and Updated Fields* for the complete list available in the **Price History** report.
- **Consistent Asset Coverage & History Available - Price History** provides the same asset coverage and history (from 1980) as the **Timeseries Pricing** report.
- Please note that some content extracted from the **Timeseries Pricing** report will be available under different field names in the **Price History** report.

Additional features are planned for future releases, including an enhanced **Single Historical Price** report.

The **Price History** report will be available automatically to clients who subscribe to the **Timeseries Pricing** service. You are encouraged to explore the new **Price History** report while **Timeseries Pricing** and **Single Historical Price** reports continue to be maintained.

Composite & EOD Pricing

Improved EOD Pricing Delivery for Asia & EMEA Government & Corporate Bonds

Composite and **EOD Pricing** extractions that retrieve government and corporate bond prices as a result of data availability (triggered extractions) have been updated to use regional pricing triggers. This enhancement can improve delivery times for triggered extractions that contain ASIA or EMEA instruments.

Previously, end of day prices for government and corporate bonds in the ASIA and EMEA regions started processing following the AMERS pricing trigger. With the addition of ASIA and EMEA pricing triggers, you can get your **Composite** and **EOD Pricing** extractions sooner. Now, if your extraction contains only ASIA instruments, processing will start upon the release of the ASIA trigger. If your extraction contains only EMEA instruments, processing will start upon the release of the EMEA trigger.

Please note that if your extraction includes instruments from more than one region, your extraction will not start until the arrival of the latest trigger. To avoid processing delays, we recommend that your extraction include instruments from the same region.

This enhancement is applicable to triggered extractions only. There are no changes for extractions that execute at a specified time (timed extractions).

Corporate Actions – ISO 15022

Updates to DRCA Event Reporting

The following updates to **Corporate Actions - ISO 15022** extractions have been implemented to improve reporting of **DRCA** (Cash Distribution From Non-Eligible Securities Sales), In accordance with SMPG EIG+:

- **Sub-Sequence E2 (CASHMOVE)**
 - Removed: GRSS and NETT.
 - Added: OFFR (Cash Price per Product Received).
- **Sequence D (CADETL)**
 - Removed: :22F::DIVI//SPEC.

Extraction Performance

Template-Based Limits for Better Performance

In order to support consistent performance and optimize response times for the most users, DataScope Select now applies request execution limits and queuing on a per-template basis, which allows for more granular resource balancing. This is applied across all product interfaces: GUI, REST API, SOAP API, and FTP.

The limits are:

- **50** concurrent requests per user per template, for each of the following templates:
 - **Commodities Corrections History**
 - **Fund Allocation**
 - **News Analytics**
 - **News Analytics Commodities**
 - **News Items**
 - **Ownership**
 - **StarMine**
- **500** concurrent requests per user for the **Intraday Pricing** template.

If you reach the per-user limit on the number of extraction requests for that template, any additional extraction requests that you submit against that template will fail, with the extraction notes explaining why. (If submitted via the REST or SOAP API, it will also return status 429.)

In future releases, additional templates will support template-specific execution limits.

DataScope Select now also ensures that one user who submits a large number of requests all at once against a given template cannot monopolize that template's resources at the expense of all other users. If other users submit requests against that template shortly after the first user, the queuing fairness algorithm ensures that the template executes requests for a mix of users, but still weights the mix of jobs to reflect the earlier submission time of the first user's requests.

Instrument Import & Validation

Market Segment added as Allowable Input for Instrument Validation

Market segment has been added as an allowable input for importing instruments into instrument lists. You can specify one or more market segment codes in place of a three-character exchange or price source code in your comma delimited (.csv) import file. Doing so can improve validation processing times during instrument import and criteria revalidation by narrowing the asset types to query.

You can include one or more segment codes in your import file, using this format:

```
IDENTIFIER TYPE,IDENTIFIER,USER_DEFINED_IDENTIFIER,MARKET_SEGMENT(S)
```

Market segment is specified using **\$segs=** followed by one or more segment codes (truncated at 15 characters):

- **B** – Loans
- **D** – Derivatives
- **E** – Equities
- **F** - Mutual Funds
- **K** – Benchmarks
- **M** – Mortgages
- **O** - Commodities and Energy
- **P** – Pools
- **T** – Tranches
- **U** – Municipals
- **Y** – Money Markets
- **Z** - OTC Derivatives

For example to limit the validation query to government/corporates and equity segments for ISN CA25537Y2033, use the following formats:



```
ISN,CA25537Y2033,, $segs=FG
```

or

```
ISN,CA25537Y2033,, $segs=GF,
```

NOTE: To validate market segment Z - OTC Derivatives, you must have **Include OTC Derivatives or Unspecified Instruments with minimal Terms and Conditions Data in the Input List** selected in your user preferences. Otherwise, a validation error message will appear.

USA OTC - Use PQ. rather than .PK Quote Source User Preference Enhanced

In DataScope Select 11.3, a new user preference  **USA OTC - Use .PQ rather than .PK quote source**  was introduced to validate CUSIPs and ISINs for US OTC equity instruments that normally resolve to .PK RICs as .PQ RICs instead. In this release, the preference has been enhanced to support SEDOLs, as well.

This preference appears in the **Instrument List** section of the **General Preferences** screen and is cleared by default for backwards compatibility. Please see the *DataScope Select User Guide* for details.

Chain Validation Enhanced

Instrument import will be enhanced to validate the following types of chains that were previously reported as **Not Found**:

- Chains without RIC constituents that exist on the Elektron Real-Time data feed.
- Chains that are specified by a non-first link. Previously, this type of chain returned the validation error: **CHR not supported – not the beginning of the chain**. In this release, these instruments will be imported with the status of the chain; however, they will not be expanded.

Third-Party Data Changes

New & Updated Services

Please see Product Change Notification [9850](#) for details on the following third-party data changes to be implemented in DataScope Select in the upcoming release and take any necessary action to avoid a disruption of data:

- Australian National Best Bid Offer (NBBO) Data
- Boursa Kuwait Delayed Data
- China CDC Bond Indices
- FENICS Market Data
- Hanoi Stock Exchange Government/Corporate Bonds
- ICAP Pacific & ICAP Scandinavia Data
- LBMA Silver & LBMA Gold Data
- Six Swiss Exchange Reference Rates

AskTRPS Enhancements

New Broker Quote Challenge Capabilities

New capabilities for challenging broker quotes are now available in AskTRPS. This new challenge type, in addition to the existing **Tolerance**, **Unchanged**, **Trade**, **Vendor to Vendor** and **Confirm** challenge types, is available for both single challenges and batch challenges created from an import file or via the Batch Challenge Wizard.

This new challenge type has been implemented in DataScope Select via the GUI and REST API platforms as follows:

Single Price Challenge Screen

The **Challenge** screen for submitting single price challenges has been updated with a new **Broker** selection added to the **Select challenge reason** section:

Select challenge reason

☐ Tolerance
 ☐ Unchanged
 ☐ Trade
 ☐ Vendor to Vendor
 ☐ Confirm
 ☒ Broker

Price * Type

Broker Name

Firm

Broker Email Address

Broker Phone Number

Broker Contact Note

Price and **Type** are required. All other inputs are optional. Price must be greater than 0.

Bid, **Ask**, **Mid** and **Trade** are supported **Types**. As with all other price types, you can enter comments and submit up to three attachments with broker quote challenge. (These optional fields are not shown).

Batch Import

New **BrokerPrice** and **BrokerType** columns have been added to the comma delimited (.csv) file for importing batch challenges. This information is required. You can use the existing **BrokerName**, **Firm**, **BrokerPhone**, **BrokerEmail** and **BrokerContactNote** columns for **Trade** challenges to specify optional broker details for broker quote challenges.

A sample batch import file is available for reference by clicking **Formatting Instructions** on the **Batch Status** screen. You can access this screen from the GUI by selecting **Batch Status** under **AskTRPS** on the **DataScope Select** menu, and then clicking **Create Batch Challenge**:

Challenges Batch Status Statistic Reports

Choose your challenge file and click Submit.

No file chosen... Browse [Formatting Instructions](#)

Submit Cancel

Batch Challenge Wizard

The **Batch Challenge Wizard** has been updated with a new **Broker Information** section for specifying the columns in the import file in which the required broker price and broker price type are identified. The **Trade/Broker Challenge Broker Information** section is used for identifying the optional broker name, firm, email, phone and contact details:

The screenshot shows a web form with two sections, each preceded by a green checkmark icon in a circle.

Broker Information

- Which column contains the *broker price*?
- Which column contains the *broker price type* (Bid, Ask, etc)?

Trade/Broker Challenge Broker Information

- Which column contains the *broker name*?
- Which column contains the *firm*?
- Which column contains the *broker email address*?
- Which column contains the *broker phone number*?
- Which column contains the *broker contact note*?

REST API

The REST API supports this with the following new properties and values of AskTrps endpoints.

POST /AskTrps/ChallengeCreate:

You can now assign the value **BrokerChallengeRequest** to the **ChallengeRequest** property, **ChallengeRequest** has the Broker subproperty (see below).

POST /AskTrps/ChallengeCreate, GET /AskTrps/Challenges, and GET /AskTrps/Challenges/{id}:

When the **Details** property is returned, it can now have the value **BrokerChallengeDetails**, and Details will then have the following subproperties:

- **Broker**
 - **EmailAddress**
 - **Firm**
 - **Name**
 - **Note**
 - **PhoneNumber**
- **Price**
- **PriceType**

When the **Type** property is returned, it can now have the values **Broker** or **BrokerUnpriced**.

Vendor to Vendor Challenges Expanded to Support Additional Quotes

Vendor to Vendor challenge capabilities have been enhanced to support quotes from two additional independent market sources. This expanded capability is available for both single challenges and batch challenges created from an import file or via the Batch Challenge Wizard. It has been implemented in the GUI and REST API as follows:

- **Single Price Challenge Screen**

The **Challenge** screen for submitting single priced **Vendor to Vendor** challenges has been updated with dropdowns for adding alternative vendor quotes:

Select challenge reason

☐ Tolerance
 ☐ Unchanged
 ☐ Trade
 ☒ Vendor to Vendor
 ☐ Confirm
 ☐ Broker

Price Type Vendor Name

* Bid ▼

▶ Alternative Vendor Price

Click **Alternative Vendor Price** to expand the screen to show **Price, Type and Vendor Name** inputs for the first alternative vendor.

Click **Alternative Vendor Price 2** to expand the screen again to show the same fields for the second alternative vendor:

Select challenge reason

☐ Tolerance
 ☐ Unchanged
 ☐ Trade
 ☒ Vendor to Vendor
 ☐ Confirm
 ☐ Broker

Price Type Vendor Name

* Bid ▼

Alternative Vendor Price

Price Type Alternative Vendor Name

 Bid ▼

▼ Alternative Vendor Price 2

Price Type Alternative Vendor Name 2

 Bid ▼

- **Batch Import**

New **VendorName2**, **VendorPrice2** and **VendorPriceType2** and **VendorName3**, **VendorPrice3** and **VendorPriceType3** columns for specifying alternative vendor quotes have been added to the comma delimited (.csv) file for importing batch challenges.

A sample batch import file is available for reference by clicking **Formatting Instructions** on the **Batch Status** screen. You can access this screen from the GUI by selecting **Batch Status** under **AskTRPS** on the **DataScope Select** menu, and then clicking **Create Batch Challenge**. [See Image](#).

Batch Challenge Wizard

The **Batch Challenge Wizard** has been updated with new fields added to the **Vendor to Vendor Information** section for specifying the columns in the import file in which the price, price type and vendor name for alternative vendor 2 and alternative vendor 3 are specified:

Vendor to Vendor Information

Which column contains the *vendor price*?
(Required) ▼

Which column contains the *price type* (Bid, Ask, etc)?
(None) ▼

Which column contains the *vendor name*?
(None) ▼

Which column contains the *vendor price 2*?
(None) ▼

Which column contains the *price type 2* (Bid, Ask, etc)?
(None) ▼

Which column contains the *vendor name 2*?
(None) ▼

Which column contains the *vendor price 3*?
(None) ▼

Which column contains the *price type 3* (Bid, Ask, etc)?
(None) ▼

Which column contains the *vendor name 3*?
(None) ▼

REST API

The REST API supports quotes from additional independent market sources by replicating the **Price**, **PriceType**, and **VendorName** properties, providing two additional instances of each property:

- Price2
- Price3
- PriceType2
- PriceType3
- VendorName2
- VendorName3

You must use the instances in sequential order. For example, if there is only one vendor, populate Price, PriceType, and VendorName for that vendor; if there are two vendors, populate Price and Price2, PriceType and PriceType2, VendorName and VendorName2 for them.

These new properties are available when you create a challenge and set ChallengeRequest to VendorChallengeRequest, and when you get a challenge and set ChallengeDetails to VendorChallengeDetails.

Batch Wizard Enhancement for Tolerance & Unchanged Challenges

In DataScope Select 11.3, an enhancement to the batch import process was introduced that enables you to confirm tolerance and unchanged challenges prior to submission. In this release, the enhancement has been expanded to the Batch Challenge Wizard.

Now, when you complete a challenge submission via the Batch Challenge Wizard, the **Batch Challenge Confirmation** screen will appear, identifying the total number of challenges and a breakdown of **Tolerance** and **Unchanged** challenges

You can review these challenges and decide if you want to proceed with creating them. If so, you must click the check box next to the challenge identifiers, and then click **Confirm Challenges**.

Keep the check boxes cleared if you do not want to import the challenges. This is the same process as with uploading batch challenges from an import file.

DATASCOPE SELECT GO Help Sign

There are 2 challenges in the batch file including 2 tolerance and 0 unchanged challenges.

Tolerance Challenges (2)					
<input type="checkbox"/>	Identifier	Identifier Type	Comments	Percent Price Change	Report Date
<input type="checkbox"/>	44924EAB6=RRPS	Ric			
<input type="checkbox"/>	44924EAB6=RRPS	Ric			

New, Expanded & Updated Fields

NOTE: Highlights of the new, updated and expanded fields in this release are identified below. Please see the *DataScope Select 12.0 New and Updated Fields List* for complete details.

Composite & Terms and Conditions

New & Expanded MiFID II Fields

The following new MiFID II fields to support regulatory reporting have been added to the **Composite** and **Terms and Conditions** reports for equity instruments and futures and options, where noted:

New & Expanded MiFID II Fields for Composite & Terms and Conditions Reports

- Delivery or Cash Settlement Location (also supported for Futures & Options)
- Freight Derivative Size
- MiFID Exchange Market Size
- Open-Ended Warrant Indicator (also supported for Futures & Options)
- Route or Time Charter Average (also supported for Futures & Options)

In addition to these new fields, coverage for some existing MiFID II fields has been expanded to include additional asset types. Please see the *DataScope Select 12.0 New and Updated Fields* list for the impacted fields.

Intraday Pricing

New MiFID II & Equity Fields

The following new fields will be added to the **Intraday Pricing** report for MiFID and equity clients:

New Intraday Pricing Fields for MiFID II & Equity Clients

- Double Volume Cap Indicator – Venue
- Last Trade Price Timestamp
- Latest Unscaled Turnover
- Official Close Date
- Official Close Time
- Quote Time – Nanoseconds
- Sale Time Milliseconds
- Unscaled Accumulated Volume

Expanded Coverage of Contract Month

Coverage of Contract Month in **Intraday Pricing** reports will be expanded to include Commodities. The maximum width for this field has been expanded to 10 from 5.

Premium Pricing

Bank Loan Fields added for Fixed Income & Municipal Bonds

The following fields for bank loans, available currently in **Composite** reports, will be copied to the **Premium Pricing** report for fixed income and municipal bonds:

Bank Loan Fields added to Premium Pricing Reports

- Base Rate/Margin
- Broker List
- Company Name
- Current Yield To Maturity
- LIN

Field Updates Requiring Client Action

NOTE: Please review the field updates below and take the required action to avoid a disruption of data.

Composite, EOD Pricing, Legal Entity Detail, Premium EOD Pricing, Ratings, Technical Indicators, & Terms and Conditions

Domicile & Domicile Field Mapping Change

Previously, Domicile and Country of Incorporation for government and corporate instruments both provided the country of incorporation. In this release, Domicile and Domicile Description have been updated to return the [current country of the party's principal executive office](#).

These fields are available for both government and corporate and equity instruments in **Composite, EOD Pricing, Legal Entity Detail, Premium EOD Pricing, Ratings, Technical Indicators** and **Terms and Conditions** reports. However, the data mapping for equity instruments will not change as Domicile already returns the correct value.

Composite & Terms and Conditions

Bullet Redemption Flag Removed

Bullet Redemption Flag has been removed from **Composite** and **Terms and Conditions** reports. Please use Is Straight Flag instead. This change was first announced in the *DataScope Select 11.3 Release Notes*.

Maximum Field Lengths Expanded for Lipper Leader Scores

The maximum field lengths for the following Lipper Leader Scores in **Composite** and **Terms and Conditions** reports will be increased to 400 from 95.

Maximum Field Lengths Expanded for Lipper Leader Scores
■ Five-year Capital Preservation
■ Five-year Consistent Return
■ Five-year Expense
■ Five-year Tax Efficiency
■ Five-year Total Return Score
■ Overall Capital Preservation Score
■ Overall Consistent Return Score
■ Overall Expense Score
■ Overall Tax Efficiency Score
■ Overall Total Return Score

Maximum Field Lengths Expanded for Lipper Leader Scores

- Ten-year Capital Preservation
- Ten-year Consistent Return
- Ten-year Expense
- Ten-year Tax Efficiency
- Ten-year Total Return Score
- Three-year Capital Preservation
- Three-year Consistent Return
- Three-year Expense
- Three-year Tax Efficiency
- Three-year Total Return Score

Intraday Pricing

Intraday Pricing Rules Updated for Bid, Ask & Reference Price

The **Intraday Pricing** rules for the following fields have been updated in this release. Please see the *DataScope Select 12.0 New and Updated Fields* list for a description of these changes:

Updated Intraday Pricing Rules for Bid, Ask & Reference Price

- Ask Price
- Bid Price
- Reference Price

Intraday Pricing & Premium EOD Pricing

Embargo Field Updates

Intraday Pricing and **Premium EOD Pricing** extractions will no longer output **N/A** for the following embargo fields, as these fields output numeric values. In cases where these fields would have output **N/A**, they will now be blank.

Intraday Pricing & Premium EOD Pricing Embargo Field Updates

- Current Embargo Delay
- Maximum Embargo Delay

REST API Updates

Automatic Authentication Token Renewal via New Context Signature

The REST API's .NET SDK now offers an additional way of managing authentication tokens, using a new context signature that enables you to specify an existing authentication token, user credentials, or both. If you specify both, the context will automatically use the credentials to renew an expired token.

The older context signatures continue to be supported.

When you use the new context signature and you specify:

- **User credentials and an authentication token:**
 - If the token is valid, the context will use it.
 - If the token has expired or is otherwise invalid, the context will create a new token, use the new token, and call back that the token has been replaced.
- **User credentials only**, the context will create a new token, use the new token, and call back that the token has been replaced.
- **An authentication token only**,
 - If the token is valid, the context will use it.
 - If the token has expired, the call fails.

The new signature is illustrated in the following example:

```
public static UsersContext CreateUsersContext(bool authenticate = true)
{
    var serviceUri = new Uri(Settings.Default.ServiceUri);
    var creds = new NetworkCredential(Settings.Default.UserId,
    Settings.Default.Password);
    var context = new UsersContext(serviceUri, _token, () => creds, token =>
    _token = token);
}
```

Usage Reporting Added to the REST API

The REST API now offers six endpoints to provide usage reporting that previously has been programmatically available only via DataScope Select's SOAP API.

The endpoints retrieve a summary of DataScope Select use across all interfaces (GUI, REST API, SOAP API, and FTP) for your entire organization. Depending on the endpoint, the result summarizes the data that has been extracted, the instruments that have been rented, or the legal entities that have been rented.

Data may lag by two or three minutes and so may not account for the most immediate usage.

The new REST API endpoints are:

- **/Usage/GetExtractionUsageInstrumentSummary**
 This returns an extraction summary report of billable instruments for the specified time period for the user account that issued the endpoint.
 The SOAP equivalent is `ExtractionUsageInstrumentSummaryRequest`

- **/Usage/GetExtractionUsageLegalEntitySummary**

This returns an extraction summary report of billable legal entities for the specified time period for the user account that issued the endpoint.

The SOAP equivalent is `ExtractionUsageLegalEntitySummaryRequest`

- **/Usage/GetRentalUsageInstrumentAsOfDateSummary**

This returns the number of instruments that were rented from the beginning of the organization's DataScope Select contract through the specified date and time, by report template type, for the entire organization.

This also returns the name of the subtemplate for templates that have them, such as for the Corporate Actions and Premium Pricing templates.

The SOAP equivalent is `RentalUsageInstrumentAsOfDateSummaryRequest`

- **/Usage/GetRentalUsageInstrumentNewDuringPeriodSummary**

This returns the number of instruments that were newly rented during the specified time period, by report template type, for the entire organization.

The SOAP equivalent is `RentalUsageInstrumentNewDuringPeriodSummaryRequest`

- **/Usage/GetRentalUsageLegalEntityAsOfDateSummary**

This returns the number legal entities that were rented from the beginning of the organization's DataScope Select contract through the specified date and time, for the entire organization.

The SOAP equivalent is `RentalUsageLegalEntityAsOfDateSummaryRequest`

- **/Usage/GetRentalUsageLegalEntityNewDuringPeriodSummary**

This returns the number of legal entities that were newly rented during the specified time period for the entire organization.

The SOAP equivalent is `RentalUsageLegalEntityNewDuringPeriodSummaryRequest`

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