Release Notes

Sophis RISQUE

Version	5.3.6.10
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SOPHIS

RISQUE Release Notes

Trademarks

Support

Sophis Technology Ltd. provides support for this software package according to the terms of your license agreement. For support, please contact us using one of the following methods:

Table 1-1

Contact Method	Details
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Suggestions

Your suggestions and comments about the RISQUE functionality and its documentation are highly valued and can be used to further enhance our offerings available to you. We will be glad to receive your suggestions at:

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Preface

This document describes the following:

- Corrections & enhancements made to RISQUE 5.3.6.x

The minor versions are divided into parts.

Part 1: RISQUE 5.3.6

SOPHIS

Released: 02 October, 2009

This part describes:

▷The corrections in this version

▷The enhancements in this version

▷The toolkit changes in this version

Chapter 1 Upgrade Information for 5.3.6

This chapter describes the process of upgrading from a version prior to 5.3.x to RISQUE 5.3.6. It contains the following sections:

1.1 Prerequisites

Table 1-1 describes the prerequisites for RISQUE 5.3.6:

Table 1-1 Prerequisites for RISQUE 5.3.6 (Sheet 1 of 2)

Software	Version
Microsoft .NET Framework	Version 3.5 Service Pack 1 ***Note:*** You can download the required package from the Microsoft web site.
Microsoft Visual C++ Redistributable Package	The following packages are required: • Microsoft Visual C++ 2005 Service Pack 1 • Microsoft Visual C++ 2005 Service Pack 1 Redistributable Package ATL Security Update ***Note:*** You can download the required package from the Microsoft web site.

Table 1-1 Prerequisites for RISQUE 5.3.6 (Sheet 2 of 2)

Software	Version
Oracle	• Oracle 10g • Oracle 11g RISQUE 5.3.6 is validated against Oracle 11.1.0.7. For 32-bit installations on a 64-bit operating system, a 32-bit Oracle client must be installed. ***Note:*** Sophis recommends using the latest Oracle patch. For more information on your database requirements, Sophis recommends you discuss these requirements with your Sophis Consultant.
Core Services	5.3.6 ***Note:*** For more information about the Core Services, see the *Core Services Installation Guide*.
License Manager	2.3.1 ***Note:*** For more information on the License Manager, see the *LM-X License Management System Installation Guide*.

1.1.a .NET Security Policies

This section describes how to define specific .NET policies. It contains the following:

- *Definition of .NET Security Policies on page 52*
- *Setting Security on page 53*

Definition of .NET Security Policies

The Server Name requires the definition of specific .NET security policies.

To define the .NET security policies, execute one of the following files:

- **`SophisTrust32.bat`** — specifies the necessary .NET security level to allow Sophis DLLs to be loaded on a 32-bit installation.
- **`SophisTrust64.bat`** — specifies the necessary .NET security level to allow Sophis DLLs to be loaded on a 64-bit installation.
- **`SophisResetPolicies32.bat`** — resets all .NET security policies to their default levels on a 32-bit installation.
- **`SophisResetPolicies64.bat`** — resets all .NET security policies to their default levels on a 64-bit installation.

Note For 32-bit server installations on a 64-bit operating system, execute the **`SophisTrust32.bat`** file.

Important The **`SophisResetPolicies`** batch file resets all .NET security policies. If you have custom .NET security policies in place, they are removed by this batch file. For more information, consult your system administrator.

Setting Security

To set the .NET security policy, do the following:

1. Ensure the **`SophisResetPolicies`** batch file contains the correct path to your .NET Framework installation directory.
2. Execute the **`SophisResetPolicies.bat`** file relevant to your installation type, that is, either 32-bit or 64-bit.

   The .NET Security policies are set to their default values.
3. Ensure the **`SophisTrust`** batch file contains the correct path to your .NET Framework installation directory.
4. Execute the **`SophisTrust.bat`** file relevant to your installation type, that is, either 32-bit or 64-bit.

   The .NET security policies are changed to allow Sophis DLLs to load.

1.2 Installation

As of this release, the RISQUE installation process uses the Microsoft Installer (MSI) package. For more information, see the *Installation Guide*.

1.3 Database

If you are upgrading from a version prior to 5.3, you must upgrade your database to the 5.3 level before upgrading it to 5.3.6.

To upgrade your database, do the following:

1. Remove all inconsistent data from your database. See *Removing Inconsistent Data on page 54*.
2. Clean the database. See *Cleaning the Database on page 56*.
3. Grant permissions for the enhancement to parallel forecasts. See *Managing Forecasts on page 57*.
4. Upgrade your database. See *Upgrading Your Database on page 57*.

5 Migrate your market data from the old table structure to the new structure. See *Migrating Market Data Audit Tables on page 57*.

6 Migrate any custom tables. See *Migrating Custom Tables on page 59*.

Important For information on creating duplicate tables and configuring RISQUE to use these custom tables, see the *Parameters Set* chapter of the *Administration Guide* delivered with this release.

1.3.a Removing Inconsistent Data

Important This issue is important only if you are upgrading from a version prior to 5.3.0 to 5.3.6.

Sophis strongly recommends creating a back up of your database before running the **`PreUpgradeCleaningScript.sql`** script.

Run the **`PreUpgradeCleaningScript.sql`** script to remove inconsistent data from your database. This script is located in the **`Migration Scripts`** directory of your installation package.

You must check this script before running it to ensure that it does not alter any custom data that you have added to the schema. Depending on the size of your database, this script may take a long time to run.

This script also renames primary keys which had meaningless, system-defined names. Table 1-2 lists the primary keys that **`PreUpgradeCleaningScript.sql`** renames:

Table 1-2 Primary Key Renaming (Sheet 1 of 3)

Table	New Primary Key
ACCOUNT_NAME_CATEGORY	PK_ACCOUNT_NAME_CATEGORY
AUDIT_ARBITRAGE	PK_AUDIT_ARBITRAGE
AUDIT_FOLIO	PK_AUDIT_FOLIO
AUDIT_GR_POINTS	PK_AUDIT_GR_POINTS
AUDIT_VOLAT_INFOS	PK_AUDIT_VOLAT_INFOS
AUDIT_VOLAT_SMILES	PK_AUDIT_VOLAT_SMILES
BASKET_SWAP_HISTORY	PK_BASKET_SWAP_HISTORY

Table 1-2 Primary Key Renaming (Sheet 2 of 3)

Table	New Primary Key
CFD_TEMPLATE_SELECTOR	PK_CFD_TEMPLATE_SELECTOR
CHANGE_HIER	PK_CHANGE_HIER
COMMODITY_PERIODICITY_PROFILE	PK_COMMODITY_PERIODICITY_PROFILE
CONSOLIDATION	PK_CONSOLIDATION
DEALS_AGGREGRATION_SELECTOR	PK_DEALS_AGGREGRATION_SELECTOR
DS_DATA_TO_UPDATE_NOW	PK_DS_DATA_TO_UPDATE_NOW
DS_SOURCE_OFFERS	PK_DS_SOURCE_OFFERS
DS_SOURCE_REFERENCE_TYPES	PK_DS_SOURCE_REFERENCE_TYPES
DS_SOURCE_SELECTOR	PK_DS_SOURCE_SELECTOR
DS_UPDATE_ERRORS	PK_DS_UPDATE_ERRORS
DS_UPDATE_RESULTS	PK_DS_UPDATE_RESULTS
EXPRESSION_COLUMN	PK_EXPRESSION_COLUMN
EXPRESSION_STYLE	PK_EXPRESSION_STYLE
FOLIO	PK_FOLIO
FUND_FEES_HIGHWATERMARK	PK_FUND_FEES_HIGHWATERMARK
FUND_FEES_INCENTIVE	PK_FUND_FEES_INCENTIVE
FUND_FEES_MANAGEMENT	PK_FUND_FEES_MANAGEMENT
FUND_FEES_PROVISION	PK_FUND_FEES_PROVISION
FUND_PURCHASE	PK_FUND_PURCHASE
EOGRAPHIC_SECTORS	PK_GEOGRAPHIC_SECTORS
GRECQUE_CROISE	PK_GRECQUE_CROISE
GRECQUE_SIMPLE	PK_GRECQUE_SIMPLE
GRECQUE_TAUX	PK_GRECQUE_TAUX
GREC_TAB	PK_GREC_TAB
GREC_VAL	PK_GREC_VAL
HESTON_CALIBRATION	PK_HESTON_CALIBRATION
HISTOPNL	PK_HISTOPNL
INDICATEUR	PK_INDICATEUR
LONG_STR_MAPPING	PK_LONG_STR_MAPPING
MIRRORMVTS	PK_MIRRORMVTS
MIRROR_RULE_DEF_COMPONENT	PK_MIRROR_RULE_DEF_COMPONENT
MIRROR_RULE_DEF_HEAD	PK_MIRROR_RULE_DEF_HEAD
POSITION_LINK	PK_POSITION_LINK

Table 1-2 Primary Key Renaming (Sheet 3 of 3)

Table	New Primary Key
POSITION_LINK_MANAGEMENT_TYPE	PK_POSITION_LINK_MANAGEMENT_TYPE
PPM_IMPORT	PK_PPM_IMPORT
PK_PREFERENCES	PK_PREFERENCES
REPORTFLATHIER	PK_REPORTFLATHIER
RESULTATPRETEMPRUNT	PK_RESULTATPRETEMPRUNT
RISKUSERS	PK_RISKUSERS
RULES_BUILDER	PK_RULES_BUILDER
SCENARIO_COMPLIANCE_RULES	PK_SCENARIO_COMPLIANCE_RULES
SECTORS	PK_SECTORS
SPOT_HIER	PK_SPOT_HIER
TA_RULES_AV_FUNDS	PK_TA_RULES_AV_FUNDS
TA_RULES_FP_PROP	PK_TA_RULES_FP_PROP
TIERSPROPERTIESLIST	PK_TIERSPROPERTIESLIST
TIERSSETTLEMENT	PK_TIERSSETTLEMENT
TIME_DENSITY	PK_TIME_DENSITY
TIME_DENSITY_HISTO	PK_TIME_DENSITY_HISTO
TIME_DENSITY_MDH_WEIGHT	PK_TIME_DENSITY_MDH_WEIGHT
TIME_DENSITY_MDH_WEIGHT_HISTO	PK_TIME_DENSITY_MDH_WEIGHT_HISTO
VOLAT_INFOS	PK_VOLAT_INFOS
VOLAT_SMILES	PK_VOLAT_SMILES

Important Sophis recommends creating a back up of your database before running the `PreUpgradeCleaningScript.sql` script.

1.3.b Cleaning the Database

Sophis provides the following stored procedures, which enable you to clean historical data up to a defined date:

- CLEAN_CORRELATION_BEFORE
- CLEAN_CUSTDIV_BEFORE
- CLEAN_DIVIDEND_BEFORE
- CLEAN_RATECURVES_BEFORE

- CLEAN_REPOCURVE_BEFORE
- CLEAN_VOLATILITY_HISTO_BEFORE

Each of these stored procedures is run from the SQL command line using the following format:

```
call ProcedureName(to_date ('01/01/2001', 'DD/MM/YYYY' );
```

Important These scripts delete all the specified data up to the last record of the date preceding the one specified in the command line.

For more information about this process, and what is deleted, see the Stored Procedures in your database.

1.3.c Managing Forecasts

The management of simultaneous forecasts was improved in RISQUE 5.3.6. If you are migrating to v5.3.6.x from a version earlier than v5.3.6, in order to perform forecasts, the Oracle user, SYS, must execute the following commands:

1. `GRANT EXECUTE ON DBMS_LOCK TO SOPHIS_USER;`
2. `EXEC DBMS_UTILITY.COMPILE_SCHEMA(SOPHIS_OWNER);`

1.3.d Upgrading Your Database

To upgrade your database, run **`SophisScript.exe`**. This file is located in your RISQUE installation directory. For more information about **`SophisScript.exe`**, see the *Installation Guide*.

1.3.e Migrating Market Data Audit Tables

Important This step is optional and is only required to improve the performance of your database in 5.3.6.

The way market data is audited was improved in the 5.3 release. This is done by the creation of several new tables to store audited data and separate it from the Audit information. This greatly improves the performance of the database and is a more efficient way of storing data.

The following new tables are created:

- AUDIT_VOLAT_INFOS — Stores the audited data of VOLAT_INFOS.
- AUDIT_VOLAT_SMILES — Stores the audited data of VOLAT_SMILES.
- AUDIT_GR_POINTS — Stores the audited points of volatilities and smiles stored in AUDIT_VOLAT_INFOS and AUDIT_VOLAT_SMILES.
- AUDIT_DIVIDENDES — Identical to the DIVIDENDES table.
- AUDIT_COUTPRETEMPRUNT — Identical to COUTPRETEMPRUNT table.

The Audit information is created using triggers.

- If data is inserted, a creation entry is stored in the INFOS_HISTO table.
- If data is modified, the trigger copies the previous version to the relevant audit table with a different SICOVAM. A modification entry is then stored in the INFOS_HISTO table.
- If data is deleted, the trigger copies the last version of the data to the audit table, and stores a deletion entry in the INFOS_HISTO table. Only then is the data deleted from the main table.

You can migrate your audit data tables to improve your performance by running a set of scripts to facilitate the migration of your data from the old table structure to the new structure. The following scripts contain the migration procedures:

- **`CorrelationAuditDataMigration.ext`** — This script moves the Updated or Deleted points, corresponding to the CORREL_HISTO entries, from GR_POINTS to AUDIT_GR_POINTS. The Inserted points are not migrated because they are the current versions.
- **`DividendAuditDataMigration.ext`** — This script moves all the entries of DIVIDENDES, whose SICOVAM is present in the NEW_SICOVAM column of INFOS_HISTO, to AUDIT_DIVIDENDES.
- **`RateCurvesAuditDataMigration.ext`** — This script migrates the points corresponding to the entries in HISTOTAUX from GR_POINTS to AUDIT_GR_POINTS. All points other than the most recent are migrated.
- **`RepoCurvesAuditDataMigration.ext`** — This script migrates all the entries in COUTPRETEMPRUNT, whose SICOVAM is present in the NEW_SICOVAM column of INFOS_HISTO, to AUDIT_COUTPRETEMPRUNT.
- **`VolatilityAuditDataMigration.ext`** — This script migrates all historical data from the following:
  - From VOLAT_SMILES to AUDIT_VOLAT_SMILES
  - From VOLAT_INFOS to AUDIT_VOLAT_INFOS
  - From GR_POINTS to AUDIT_GR_POINTS

Important The migrated data is then deleted from the original table. For more information, see the content of the scripts.

1.3.f Migrating Custom Tables

Sophis provides scripts to create audit tables for your custom tables and migration scripts to migrate your data to the new structure. These scripts also perform deletions on the table to remove inconsistencies.

The following scripts are delivered with this release and are stored in the `..\OracleScript\MigrationPack` folder:

- **`CustomCorrelationAuditTableCreation.ext`** — creates the custom correlation audit table.
- **`CustomCorrelationAuditDataMigration.ext`** — migrates the data from your custom table to the new Correlation audit table.
- **`CustomDividendAuditTableCreation.ext`** — creates the custom dividend audit table.
- **`CustomDividendAuditDataMigration.ext`** — migrates the dividend data from your table to the new Dividend audit table.
- **`CustomRateCurvesAuditTableCreation.ext`** — creates the custom Rate Curve audit table.
- **`CustomRateCurvesAuditDataMigration.ext`** — migrates the rate curve data from your table to the new rate curve audit table.
- **`CustomRepoCurvesAuditTableCreation.ext`** — creates the custom Repo Curve audit table.
- **`CustomRepoCurvesAuditDataMigration.ext`** — migrates the repo curve data from your table to the new report curve audit table.
- **`CustomVolatilityAuditTablesCreation.ext`** — creates the custom volatility audit table.
- **`CustomVolatilityAuditDataMigration.ext`** — migrates the volatility data from your table to the new volatility audit table.

Important For each of the newly created tables, you must define a Write table access right in the User Rights dialog for the users or groups accessing these new tables.

To migrate your historical data from your existing table, do the following:

1. Run the Creation script, such as **`CustomRateCurvesAuditTableCreation.ext`**, and supply the name of your custom table at the prompt.
2. On completion of the Creation script, run the Migration script, such as **`CustomRateCurvesAuditDataMigration.ext`**, and supply the name of your custom table at the prompt.

Deletions

Each of the migration scripts also deletes inconsistent data from the original table. For more information on these deletions, see the migration scripts.

1.4 Merged Versions

1.4.a Merged Versions

The bugs and enhancements from the following versions have been merged in this release:

- 5.3.5.8
- 5.3.4.19
- 5.3.3.17
- 5.3.2.15
- 5.2.5.N.13
- 5.2.6.22

The documentation describing the bugs and enhancements for these versions are included in these release notes.

1.5 Toolkit

1.5.a Prerequisites

To build projects with the RISQUE 5.3.6 Toolkit, you must have the following installed:

- Microsoft Visual C++ 2005 Service Pack 1
- Microsoft Visual C++ 2005 Service Pack 1 Redistributable Package ATL Security Update

For more information, see the RISQUE Toolkit documentation.

Chapter 2 Corrected Bugs in 5.3.6

This chapter describes the bugs fixed in RISQUE 5.3.6. These fixes were made in the following areas:

- *Accounting on page 62*
- *Back Office on page 63*
- *Coherency on page 65*
- *Collateral Management on page 65*
- *Command Line on page 70*
- *Commodities on page 70*
- *Compliance on page 71*
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- *End of Day on page 75*
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- *Log Files on page 85*
- *Market Data on page 85*
- *Performance on page 86*
- *Portfolios on page 87*
- *Pricing on page 99*
- *Reporting Module on page 100*
- *User Rights on page 101*
- *XML on page 101*

2.1 Accounting

2.1.a Sign of Quantity in Trade Postings

Issue Number: 51200

The sign of the quantity in trade postings was incorrectly taken into account if one of the following debit or credit types were defined in the **Debit/Credit** column of the **Account Trade Rules** window:

- **Debit Always**
- **Credit Always**

As of this release, the sign of the quantity in trade postings is always negative if the **Debit Always** type and positive if the **Credit Always** type is defined.

2.1.b Notional Amount Currency

Issue Number: 50700

The notional amount currency of an OTC forex option deal was incorrectly displayed as the currency of the nominal amount in the **Currency** column of the **Account Postings** window. For example, if 1,000 EUR was sold in the forex deal at a strike price of 1.50 USD/EUR, the notional amount was displayed as 1,500 EUR instead of 1,500 USD in the **Account Postings** window.

2.1.c Incorrect Posting Date

Issue Number: 51188

Account postings generated by the trade engine incorrectly displayed zero as the posting date. This occurred if **Settlement** was selected in the **Posting date** column of the **Account Trade Rules** window. As of this release, the posting date of account postings generated by the trade engine displays the payment date.

2.1.d Toolkitted Columns in the Account Names Window

Issue Number: 51230

The P&L engine generated error postings if toolkitted columns were used in the **Account Names** window. This occurred because the P&L engine disregarded the toolkitted columns and therefore did not find the account numbers to send the account postings to.

2.2 Back Office

2.2.a Netted Message Error

Issue Number: 38226

An error occurred if a trade in a netting was modified.

2.2.b Alphabetic Characters in Phone Column

Issue Number: 38758

No warning message was displayed if alphabetic or special characters were entered into the **Phone** column on the **Address** tab of the third party properties dialog.

2.2.c Business Event Name with Single Quotation Marks

Issue Number: 43882

An error occurred if a business event was created with a name that contained a single quote.

2.2.d Incorrect Trade Amount for Repo

Issue Number: 47323

The value in the **Trade Amount** column in the **Instructions** blotter was incorrectly displayed as 0 for repo deals with an **SM/DT** set to **DVP**.

2.2.e FO Cancel Error

Issue Number: 46708

RISQUE behaved unpredictably if an FO Cancel event was executed after a BO Cancel event.

2.2.f Number of Rules in Document Generation Tab

Issue Number: 50597

It was not possible to enter more than 1000 rules into the **Document Generation** tab of the third party properties dialog. As of this release, you can enter more than 1000 rules.

2.2.g Duplicate OTC Workflows

Issue Number: 47520

It was possible to save new workflows with the same name as an existing workflow in the **OTC Workflow Definitions** window. As of this release, you cannot save a workflow with the same name as an existing workflow.

2.2.h Pending Deals Filter

Issue Number: 46954

An Oracle error occurred if the **Pending deals** blotter was opened with the following filter criteria:

- The period was specified as -1000 to +1000.
- **ALLOTMENTS** and **ENTITIES** were chosen as criteria.

2.2.i Status of Instructions

Issue Number: 45111

It was not possible to change the status of batches of instructions to **Sent** in the **Instructions** blotter. It was only possible to change each instruction individually.

2.2.j Deleted Deals in Pending Deals Blotter

Issue Number: 41967

The status counter in the title bar of the **Pending deals** blotter was not updated if a deal was deleted from the **Movement** window.

2.2.k OTC Netting

Issue Number: 47083

It was possible to net trades that did not have the same position or transaction type. As of this release, only trades with the same position or transaction type can be netted.

2.2.l Missing Netting Ticket

Issue Number: 47047

Netting tickets were not displayed in the **Confirmations** blotter if the blotter was filtered by entity. This error occurred because the entity was not stored in the netting ticket.

2.2.m External Reference Audit

Issue Number: 44694

External references were not displayed in the audit history for back office messages.

2.2.n Four Eyes Error in User Rights

Issue Number: 41323

It was possible to modify the **Maximum Number of Servers** in the **Calculation Server** frame of the user rights dialog if Four Eyes was enabled.

2.3 Coherency

2.3.a Simultaneous Database Queries

Issue Number: 46698

An Oracle error occurred if two database queries were processed at the same time for the same type of information by two or more users on the same coherency channel. As of this release, the database is locked for the information type while a query is processed.

2.4 Collateral Management

2.4.a Incorrect Collateral Amount on Repo

Issue Number: 47567

The amount in the **Coll. Amount** dynamic field in the **Stock loan input** dialog for repos was incorrectly set to 0 if the deal was re-opened from the **Movement** window.

2.4.b CFD Forecasts from Agreement Window

Issue Number: 43376

An error occurred if the **Forecast** command was selected from the context menu of a CFD agreement in the **Collateral Management Agreements** window.

2.4.c Stock Loan Deals

Issue Number: 50059

The **Counterparty 2** column in the **Movement** window was not displayed for stock loan deals. This error occurred because the name of the Counterparty 2 was not saved when the deal was created.

2.4.d Extraction List Window

Issue Number: 43563, 43565

The following error message was displayed in the **Extraction list** window if an extraction was saved or deleted:

```
Cannot send 'CMRS' message
```

This message was only displayed if the Collateral Management module was disabled. As of this release, RISQUE does not display an error message if an extraction is saved or deleted.

2.4.e Configuration Window

Issue Number: 47395

The **Configuration** window in the toolbar was unavailable if the following occurred:

1. The **Security vs Cash Global Cash Margin Call** window was opened.
2. Another window was opened where the **Configuration** window was unavailable.
3. The focus was changed back to the **Security vs Cash Global Cash Margin Call** window.

2.4.f Credit Risk of Stock Loan Deals

Issue Number: 47993

The credit risk of a stock loan deal was not displayed in the **Detailed Limits Report** window if the following conditions were true:

1. A stock loan deal was booked with the commission type set to **Open Basis**.
2. The spot price of the instrument changed after booking the deal.
3. A partial return was performed on the stock loan deal with the full quantity of the stocks.

The credit risk was only displayed in the **Stock Loan and Repo Mgmt** window.

2.4.g Sorting in Limits Calculation

Issue Number: 35589

Counterparties did not remain sorted in the **Limits Calculation** window if the following conditions were true:

- The counterparties in the **root** column were sorted alphabetically.
- An action was performed from the context menu of the **Limits Calculation** window.

2.4.h Value Colour in CFD Report

Issue Number: 45918

The currency colour of the values in the **Cash Deposit Amount** column of the **CFD Report** window was incorrect. As of this release, the colour corresponds to the currency in the **CFD/Cash Pool Currency** column.

2.4.i Precision in CFD Report Columns

Issue Number: 45919

The number of decimals displayed in the **Average Price** and **Last** columns of the **CFD Report** window was incorrect. As of this release, the number of decimals displayed for these columns matches their corresponding columns in the **Portfolio** window.

2.4.j Threshold Tab in Collateral Agreements

Issue Number: 50824

The **Threshold** tab in the **Collateral Agreement** dialog was not displayed for 64-bit RISQUE installations. As a result, threshold values were not taken into account if the limits calculation was run.

2.4.k Closed Contracts in Stock Loan and Repo Mgt

Issue Number: 47368

Closed contracts were not displayed in the **Stock Loan and Repo Mgt** window.

2.4.l Incorrect Spelling in Warning Message

Issue Number: 47741

The word **offset** was incorrectly spelt in the warning message that was displayed if the number entered into the **Payment Offset** text box in the **Fees and Interest** tab of the **Collateral Agreements** dialog was lower than the number in the **Day After Offset** text box.

2.4.m CFD Spread Modification Disabled

Issue Number: 47976

The **CFD Spread Modification** function was incorrectly available if the Advanced CFD module was disabled. As of this release, you cannot use the **CFD Spread Modification** function if the Advanced CFD module is disabled.

2.4.n Collateral Scheduler Behaviour

Issue Number: 44458

Display errors occurred in the **Collateral Scheduler Report** window if the following conditions were true:

- Multiple users were connected to the database.
- The SEC was enabled.

2.4.o Incorrect Amount for Margin Call

Issue Number: 44418

The amount of collateral to be returned for a stock loan was incorrect in all types of margin call dialogs if the following conditions were true:

- The commission type of the stock loan was open basis.
- A spot modification had been performed on the stock loan.
- A partial return had been performed on the stock loan.

2.4.p Underlying of CFD deals

Issue Number: 49173

RISQUE behaved unpredictably if a deal was created on a CFD and one of the following was true:

- The underlying of the CFD was the CFD instrument itself.
- The CFD deal had no underlying defined.

2.4.q Stock Loan Template with Basket

Issue Number: 45562

The **Composition** button on the **Stock loan input** dialog was disabled if the stock loan was based on a template that contained a basket.

2.4.r Decimal Places

Issue Number: 49368

The values of the **Distributed Rate** and **Calculated All In Rate** text boxes in the **Stock loan input** dialog were truncated to two decimal places on saving.

2.4.s Limits Calculation Error

Issue Number: 48276

An error occurred if the limits calculation was run on a position for which no valid indicator was found.

2.4.t Fees Partial Return Tab Order

Issue Number: 49092

The tab order was incorrect for partial returns if the **Commission** and **Interest** text boxes were available on the **Partial Return** dialog. This error occurred if the **Fees Partial Return** drop-down list in the **Fees and Interest** tab of the corresponding collateral agreement was set to **Total**.

2.5 Command Line

2.5.a Launching the End of Year Procedure

Issue Number: 48223

An Oracle error occurred if the End of Year procedure was run. This occurred if the End of Year results contained positions created in a portfolio that had been deleted.

2.6 Commodities

2.6.a Theta of Asian Options

Issue Number: 50785

The theta value displayed in the **Derivative** window of an asian option the day before the **Payment Date** was incorrect if the following conditions were true:

- The **Include Coupon** check box was selected on the **Theta** tab of the **Preferences** dialog.
- The value entered into the **Quota** text box was not 1.

2.6.b Commodity-Index Modifications

Issue Number: 45466

The reference of a saved commodity index was not displayed in the **Commodity Index** window. As a result, it was not possible to save modifications made to the commodity index in the **Commodity Index** window.

2.6.c Asian/Swaption Blotters

Issue Number: 36127

The **Global Th. Price** and **Average Th. Price** were populated with the incorrect amount in the **Asian/Swaption Trade Blotter** and **Asian/Swaption** one-deal blotter. This occurred because the forex rate was incorrectly used to calculate these fields.

2.6.d Commodity Swap Forecast Date

Issue Number: 50947

Automatic tickets were not generated for commodity swaps if the forecast date was earlier than the payment date.

As of this release, automatic tickets are generated for the forecast date if the forecast date is within the number of days defined by the **Balance** text box. The **Balance** text box is located on the **General** tab of the **Preferences** dialog.

2.7 Compliance

2.7.a Incorrect Value in Compliance Report

Issue Number: 47468

The number in the **Value** column of the **Compliance Report** was incorrectly displayed as 0 if the quantity of the corresponding deal was exactly -10,000,000.

2.8 Database

2.8.a AUDIT_MO_FRAIS Primary Key

Issue Number: 50375

An error occurred when the following query in the SQL upgrade script was executed:

```
alter table AUDIT_MO_FRAIS add constraint PK_AUDIT_MO_FRAIS primary key
(AUDIT_IDENT,OPTIONS,MARCHE,TYPEFUTUR,TYPESPREAD,ENTITY)
```

This error occurred because this query was executed before the query that ensures that the values of the primary key are not null.

2.8.b DIVIDPANIER Primary Key

Issue Number: 50494

In some instances, an error occurred if the following query in the SQL upgrade script was executed:

```
ALTER TABLE DIVIDPANIER ADD (CONSTRAINT PK_DIVIDPANIER PRIMARY KEY (CODE,
NOMTABLEDIVID))
```

This error occurred if the `NOMTABLEDIVID` column of the `DIVIDPANIER` table contained duplicate or null values. As of this release, the **PreUpgradeCleaningScript.sql** file contains a query to remove duplicate and null values from the `NOMTABLEDIVID` column.

2.8.c INFO_SUP Primary Key

Issue Number: 50379

In some instances an error occurred if the following query in the SQL upgrade script was executed:

```
ALTER TABLE INFO_SUP ADD CONSTRAINT PK_INFO_SUP PRIMARY KEY (IDENT)
```

This error occurred if the `IDENT` column of the `INFO_SUP` table contained duplicate values. As of this release, the **PreUpgradeCleaningScript.sql** file contains a query to remove duplicate values from the `IDENT` column.

2.8.d Unnecessary Queries for Stock Loan Deals

Issue Number: 51045

Unnecessary queries were executed on the database by all the clients connected to the same message-oriented middleware (MOM), if the following conditions were true:

- More than one client was connected to the same MOM, such as the SEC.
- On one of the clients, a user created or modified a deal on a stock loan.

2.8.e Unnecessary Queries for Bond Deals

Issue Number: 51013

Unnecessary queries were executed on the database by all the clients connected to the same message-oriented middleware (MOM), if the following conditions were true:

- More than one client was connected to the same MOM, such as the SEC.
- On one of the clients, a user created or modified a deal on a bond.

2.8.f Unnecessary Queries for Index Modifications

Issue Number: 50891

Unnecessary queries were executed on the database by all the clients connected to the same message-oriented middleware (MOM), if the following conditions were true:

- More than one client was connected to the same MOM, such as the SEC.
- On one of the clients, a user created an index or modified a value in the **Index** window of an index instrument.

2.8.g Unnecessary Queries for IRS Deals

Issue Number: 51042

Unnecessary queries were executed on the database by all the clients connected to the same message-oriented middleware (MOM), if the following conditions were true:

- More than one client was connected to the same MOM, such as the SEC.
- On one of the clients, a user created or modified a deal on an interest-rate swap.

2.8.h Prices Date with Audit Trail

Issue Number: 50765, 51106

An Oracle error occurred and Prices Date functionality did not work if the **Use Audit Trail** was selected in the **Prices Date** window. This was caused by an incoherency between tables used for current and historical trade data.

As of this release, the column `FORCELOAD` has been added to the `AUDIT_MVT` table to make it coherent with the `HISTOMVTS` table.

2.8.i Data Integrity Oracle Error

Issue Number: 47905

An Oracle error was displayed if the Data Integrity Module was launched on an Oracle 9 database.

2.8.j SizeBigBlock

Issue Number: 48047

The `SizeBigBlock` global preference was set to 0 during database migration. As of this release, the `SizeBigBlock` global preference is set to 1000000 by **`sophis.sql`** during database migration.

2.9 Documentation

2.9.a Caps and Floors

Issue Number: 51078

The **2nd Fixing Rate** and **Broken flow** columns on the **Cash Flow** tab in the **Cap and Floor** dialog were not documented. As of this release, these columns are documented in the *Caps and Floors* chapter of the *Instrument Reference Guide*.

Book Affected: Instrument Reference Guide

2.9.b Dividend Taxation Selector Documentation

Issue Number: 48190

The *Using the Rules in Criteria* section of the *Dividend Taxation* chapter of *Administration Guide* has been updated to include a description of the columns of the **Dividend Taxation Selector** window.

Book Affected: Administration Guide

2.10 End of Day

2.10.a Incorrect Date for Result Variation

Issue Number: 51164

The End of Day results were incorrect in the **Result Delta** window for multisite End of Day. This occurred because the date of the last standard End of Day procedure was used to calculate the result variation in the **Result Delta** window instead of the last multisite End of Day date.

2.11 End of Year

2.11.a LME Futures

Issue Number: 48226

A P&L sold ticket was incorrectly generated for the result of LME futures during the End of Year procedure. As a result, a coupon reversal ticket could be generated.

2.12 Instruments

2.12.a Stock Loan Start Date

Issue Number: 39970

The start date of a stock loan on a basket was incorrect. This error occurred because the start date took the market lag into account.

2.12.b Bond Repo Counterparty 2

Issue Number: 48581

The **Counterparty 2** drop-down list in the **Deal Input** window for bond repos was not populated correctly.

2.12.c Bond Repo Final Amount Calculation

Issue Number: 46722

The amount in the **Final Amount** dynamic field in the **Bond Repo** dialog was incorrectly calculated for existing bond repos if the following conditions were true:

- The **All In Spot** was modified.
- No depositary had been selected in the **Depositary** drop-down list.

2.12.d Bond Repo Depositary of the Counterparty

Issue Number: 48582

The **Depositary of the Counterparty** drop-down list in the **Deal Input** window for bond repos was not populated correctly.

2.12.e Total Return Swap Dividend-Ratio Error

Issue Number: 46928

An error occurred and it was not possible to save a total return swap if the following conditions were true:

- The **Swap** window was opened.
- **100.00** was entered into the **Dividend Ratio** text box of the **General** tab.
- A reference of a convertible bond was entered into the **Reference** text box of the **General** tab.

2.12.f Basket Adjustment Window Copy-and-Paste Error

Issue Number: 46932

It was not possible to perform a copy-and-paste operation on the rows of the **Basket Adjustment** window. For example, it was not possible to copy a row in the **Underlying history** frame of the **Basket Swap** tab and paste it into the **Basket Adjustment** window.

2.12.g Repo Validation Error

Issue Number: 46706

An error occurred if a repo deal was validated. This error occurred if the following conditions were true:

- The repo was created by selecting an existing repo from the Portfolio and pressing Ctrl+Alt+n.
- The deal was accepted.
- The **Deal Input** dialog of the deal was opened and closed more than once.
- The **Stock loan input** dialog of the deal was opened and closed more than once.
- The repo was not created from the Advanced Stock Loan module.

2.12.h Interest Rate Swaps with Settlement Lag

Issue Number: 31041

The payment date and accrued interest date of interest rate swaps were incorrect if the settlement lag of the underlying interest rate was set to zero. This only occurred for fixed-to-float interest rate swaps.

2.12.i Stock Loan Input Dialog

Issue Number: 45614

The settings specified in the **Number of Decimals Displayed** frame on the **Display** tab of the **Preferences** window were not taken into account correctly if a security vs security per contract stock loan deal was created with bond defined as underlying and principal. The following errors occurred in the **Stock loan input** dialog:

- The **Nominal** field for the principal displayed two decimals.
- The **Nominal** field for the collateral displayed four decimals.

2.12.j Minimum and Maximum in New Bond Cash Flows

Issue Number: 51126

The **Minimum** and **Maximum** columns were populated with 0.00 for all cash flows created on the **Redemption** tab in the **Bond** window. As of this release, the **Minimum** and **Maximum** columns are populated with **NA** for redemptions created on the **Redemption** tab on the **Bond** window.

2.12.k Invalid Computational Models

Issue Number: 47581

Models only available with the Advanced CFD module were incorrectly displayed in the **Computation** drop-down list of the **Contract for difference** window if the Advanced CFD module was disabled.

2.12.l Forex Volatility

Issue Number: 46791

The forward price used to calculate the volatility of forex pairs was incorrect. The settlement lag was applied twice to the maturity used for the calculation. This occurred if the volatility model was **FX Cubic Spline**.

2.12.m Non-Business Days in Gamma Swaps

Issue Number: 51257

The number of total business days used for pricing gamma swaps was incorrect if the start date of the swap was a non-business day.

2.12.n Convertible Bond with Reset Clause

Issue Number: 48008

The theoretical price was incorrect for convertible bonds with a reset clause that had high maximum and very minimum level. This occurred only for convertible bonds that were priced with a large number of steps defined in the **Nb Time Steps** text box in the **MODEL AND VALUATION** frame of the **Convertible Bond** window. For example, this occurred if the number of time steps was 100, 200, or 300.

2.12.o Incorrect Income for CFDs

Issue Number: 51642

The value of the **Income** dynamic field in the **Portfolio** window was incorrect on the reset date for CFDs if the following conditions were true:

- The funding cost ticket was transmitted for the reset date.
- The **Portfolio** window was refreshed.

2.12.p FX Cubic Spline Volatility Model

Issue Number: 46975

The volatility was incorrectly interpolated if the volatility model was **FX Cubic Spline** and the global preference `UseAbsoluteSmileInterpolation` was set to `1`.

This also occurred for some volatility smile models created with the toolkit.

2.12.q Barrier Option with Trinomial Model

Issue Number: 26054

The theoretical price was incorrect for barrier options if the following conditions were true:

- An Up/In barrier was specified with a numerical value.
- A Down/In barrier was specified with no value.
- The **Trinomial** pricing model was defined.

2.12.r Average Options with Asian Clauses

Issue Number: 51633

A warning message was displayed and it was not possible to calculate the theoretical price of average options if the following conditions were true:

- The delivery type was one of the following:
  - **Physical**
  - **New Share**
  - **Market Delivery**
  - **Currency**
  - **Future**
- Asian clauses had been defined for the option.

As of this release, average options with these delivery types and Asian clauses are priced. A data integrity message is logged if you validate or price this type of option.

2.12.s Quanto Option on Multicurrency Basket

Issue Number: 39452

The delta was incorrect in the **Portfolio** window and the vega was incorrect in the **Standard Option** window for quanto options on multicurrency baskets if the following conditions were true:

- The option was defined with the **B&S** pricing model.
- The **Delta Total Gamma Total** evaluation model was selected from the **Delta and Gamma Evaluation** drop-down list on the **Volatility** tab in the **Preferences** window.
- The volatility of the underlying basket was defined with the **Theoretical + stocks smile** volatility type.
- The volatility smile of the underlying was defined with the **Spot in %** smile type.

2.12.t Incorrect Net and Gross Amounts for NCDs

Issue Number: 48076

The **Gross Amount** and **Net Amount** values in the **Deal Input** dialog for debt instruments were multiplied by 100. This error occurred if the following conditions were true:

- The **Price (%)** check box in the **Commercial Paper Deal** dialog for the debt instrument was not selected when the deal was created.
- The **Price Type** in the **Deal Input** dialog of the deal was changed from **In rate** to **In Percent** or **In Amount**.

2.12.u Cap-and-floor Reference after Change to Prices Date

Issue Number: 48972

The reference of caps-and-floors was not displayed if the Prices Date was changed and the cap-and-floor instrument was opened from the **Portfolio** window or the **Caps and Floors** window. This only occurred if the **Instruments**, **Volatilities**, and **Theoretical** check boxes were selected in the **Prices Date** dialog.

2.12.v Incorrect Dividend Date for Convertible Bond

Issue Number: 47858

An incorrect dividend date schedule was used if a convertible bond was defined with a **PropDiv** clause. The **Next Divid. Date** field of the **Derivative** window displayed the first date after the end of the clause. This was a display issue only.

2.12.w Standard Model for Credit Default Swaps

Issue Number: 23593

The value in the **Paying break even** field on the **Swap** window was incorrect for credit default swaps defined with the **Standard** model.

2.12.x Volatility Smile

Issue Number: 48970

It was not possible to save a volatility smile that was larger than the discount factor if the **FX Cubic Spline** volatility model was used. As of this release, you can enter any valid smile value.

Note Values for the X axis of the volatility surface cannot be larger than 1.

2.12.y Convertible Bonds with Delayed Call Clause

Files affected: 28271

The theoretical price was incorrect for convertible bonds defined with a Delayed Call clause. This occurred only if the coupon date was within the clause period. The formula assumed that the bond holder did not receive the coupon if the bond was converted. As of this release, the holder is assumed to receive the coupon if the bond is converted.

2.12.z Listed Markets Strike Field

Issue Number: 50873

The maximum value of the **Strike** field in the **Listed Market** window is 2,000,000. In prior releases, it was 10,000,000.

2.12.aa CB Model for Options

Issue Number: 29663

The following message was displayed in the **Standard Option** window:

```
You must enter a notional for this kind of products.
```

The message was displayed if the following occurred:

1. The **CB Ascot** pricing model was selected from the pricing model drop-down list after the option had been defined with a valid pricing model.

   This automatically changed the **Quotation Type** of the option to **In percent**.

2. The pricing model was changed back to the previous model.

The message was displayed because options with quotations in percent must have a notional.

As of this release, if the pricing model is changed to a model that forces the **Quotation Type** to **In percent**, the quotation type is displayed in red. This alerts the user that the type has changed.

2.12.ab Barrier Option Message

Issue Number: 30595

The following misspelled error message was displayed if the **Validation** check box was selected in the **Barrier Option** window for a barrier option defined with the **PDE** pricing model:

```
EDP model does not handle clauses of type xxx.
```

As of this release, the following message is displayed:

```
PDE model does not handle clauses of type xxx.
```

2.12.ac Two Underlying Option Warning Message

Issue Number: 31723

The following warning message was incorrectly displayed if the **Validation** check box was selected in the **Two underlyings** window:

```
The trinomial model does not handle options on two underlyings.
```

This occurred only for options defined with the following pricing models:

- **Commodity Option**
- **CB Model**
- **PDE**
- **Preferred Share**

2.12.ad Listed Options with Long Reference

Issue Number: 47493

An Oracle error occurred if the reference of a listed option was longer than 24 characters. The error occurred because the REFERENCE column of the TITRES database table was limited to 24 characters. The reference is based on the code defined in the **Listed market** window. For example, this error occurred if the reference included an unusually long strike price.

As of this release, if the reference is longer than 24 characters, it is replaced by the Sicovam code.

2.12.ae Heston Calibration

Issue Number: 50882

The **Heston Vanilla Meta Model** calibration did not take the market category into account for digital forex options. Only the result volatility was calculated.

As of this release, if a market category is used to define market volatility, both the result volatility and the market volatility are calculated in the **Heston Vanilla Meta Model** calibration.

2.12.af Options on Preferred Shares

Issue Number: 51465

RISQUE closed unexpectedly if the theoretical price was calculated for options defined with the following:

- **Preferred share** pricing model
- **Performance Pay Off**

2.12.ag Compo Option with New Monte Carlo Model

Issue Number: 51534

No data integrity message was displayed if the theoretical price was calculated for compo forex options defined with the **New Monte Carlo** pricing model.

2.12.ah Listed Market Adjustments from Previous Versions

Issue Number: 51524

Adjustments to listed options created in RISQUE version 5.1.5 were not displayed in the listed market **Adjustments** window if additional adjustments were made in later versions of RISQUE.

2.12.ai Not in Package Not Selected

Issue Number: 48075

The **Not in Package** check box was not automatically selected when a debt instrument was created using the one deal blotters.

2.12.aj Equity Leg Error

Issue Number: 48538

An internal error occurred and an MFC error message was displayed if a cash flow in the asset leg of a basket swap was right-clicked in the **Swap** window.

This error occurred if the start date of the basket swap was modified after the composition of the basket was created.

2.13 Interface

2.13.a Configuration Window Sorting Error

Issue Number: 38347

The **Configuration** window, used to configure the column sets displayed in the portfolio, for example, incorrectly sorted columns in a case-sensitive alphabetic order. For example, **ASW Spread** was displayed before **Accrued Amount**.

As of this release, the columns are sorted alphabetically.

2.14 Log Files

2.14.a Interest-rate Curves

Issue Number: 51388

A large number of messages were written to the log file if an interest-rate curve contained incorrect configuration parameters. This had an adverse effect on the performance of RISQUE.

As of this release, only one message is written to the log file for interest-rate curves with incorrect configuration.

2.15 Market Data

2.15.a Market Categories with Bonds

Issue Number: 48521

The incorrect interest-rate curve was used for bonds in the following instances if a market category was defined:

- The hyperlink in the **Bond** window displayed the default interest-rate curve family instead of the market category curve. The interest-rate curve from the default curve family was used to price bonds.
- The **Interest Rate Hedge** analysis used the default interest-rate curve instead of the market category curve.

As of this release, the correct interest-rate curve is visible in the hyperlink in the **Bond** window and the correct curve is used for pricing.

Note The market category curve is used by the **IR Hedge** analyses.

2.15.b Underlying Rate for Interest Rate Futures

Issue Number: 42211

The interest rate hyperlink in the **Future** window was not displayed for the correct interest rate in interest rate futures if the interest rate was changed. The **Future** window had to be closed and reopened to display the correct hyperlink.

2.15.c Audit History for Correlations

Issue Number: 45945

Incorrect correlation modifications were displayed if the following was true:

- The correlations table in the **Parameters Set** window was defined as **Correlation**.
- The prices date was changed and the audit history of a correlation was displayed.

2.15.d Dividend Splits in Historic Correlations

Issue Number: 44114

Dividend splits were not correctly taken into account in historic correlations. This occurred if the historic correlations were displayed for a date before the dividend split. The dividend amount displayed for this date was the amount of the dividend after the split instead of the amount before the split.

2.16 Performance

2.16.a Swap Window Memory-Management Issue

Issue Number: 50220

A memory-management issue occurred if the following conditions were true:

1. The **Swap** window was opened.
2. Neither of the legs of the swap had the payoff option set to **Fixed Index**.
3. One of the following tabs was displayed:
   - **Gamma Swap**
   - **Variance Swap**
   - **Volatility Swap**

2.16.b ALERTE Database Table Performance

Issue Number: 44782

A performance issue occurred if a forecast was launched and the `ALERTE` database table was queried. As of this release, the following indexes have been added to improve the performance of this procedure:

- `IFORECAST_PKG_SICO on FORECAST_PACKAGE(SICOVAM)`
- `IALERTE_SICO on ALERTE(SICOVAM)`

2.16.c Coherency Message Performance Issue

Issue Number: 51659

Performance issues occurred due to coherency messages executing unnecessary queries when instruments were loaded. As of this release, instruments are loaded only when they are needed.

2.17 Portfolios

2.17.a Insert Worksheet Deals

Issue Number: 40421

It was not possible to validate a deal in the **Pending Deals** blotter if the following were true:

- The deal was created in a worksheet.
- The **Pending Deals** blotter was open when the deal was created.

Files affected: SphPortfolio.dll

2.17.b Roll Expiry Ticket

Issue Number: 48717

A new position was incorrectly created for stock loan and repo roll expiry tickets. This error occurred although the **Position Creation Policy** for stock loans and repos was set to **Never in the same line** in the **Allotment Table** window.

2.17.c Line Picking on Short CFD Positions

Issue Number: 49927

An error occurred if a negative number was entered into the **Quantity Picked** column of the **Line Picking on Position** window. This error occurred for CFD positions that were either short or changed from long to short.

2.17.d Automatic Trades for Split Adjustment

Issue Number: 39240

Error messages were displayed and the volatility and basket-composition automatic tickets were not transmitted, if the following conditions were true:

- A split corporate action was performed on a share.
- The smile of the share was defined as an absolute strike.
- An instrument modification rule was not created with the **Fixing** value selected from the **Type of Modification** drop-down list in the **Instrument Modification Rules** window.

As of this release, it is not necessary to create an instrument modification rule with the Fixing value selected from the Type of Modification drop-down list to transmit the automatic tickets.

2.17.e Incorrect Value in Portfolio Columns

Issue Number: 44767

The values of the following columns in the **Portfolio** window did not take the spread of total return swaps into account:

- **Next Received Coupon Rate**
- **Next Paid Coupon Rate**

The value of the spread of total return swaps was correctly displayed in the **Floating Spread Rate** column.

2.17.f Position Link Error

Issue Number: 48231

Position links were not deleted from the database if all the positions linked by the position link were deleted from the **Portfolio** window.

2.17.g Incorrect Spread on Deals

Issue Number: 48448

The spread of a basket swap was not displayed in the **Spread** text box of the **Basket Swap Booking** window if the following conditions were true:

1 A basket swap was created using an XML-paste operation or the Integration Service.

2 A deal was booked on the basket swap using an XML-paste operation or imported using the Integration Service.

2.17.h P&L Attribution

Issue Number: 45939, 45941

The following issues occurred in the **Result Delta** window scenario was executed after the completion of the End of Day process:

- Values were generated for the **Forex effect in fair value** column for settled positions.
- The **Volatility effect** column was 0 for positions on forex options that had vega values.

2.17.i Parametric VaR

Issue Number: 39057

The values in the following columns were incorrect if the **Parametric VaR** analysis was launched using a breakdown list containing an interest rate future:

- **VaR**
- **Delta VaR**
- **Rho VaR**

This only occurred if the analysis was launched with the calculation type was set to **Delta/Gamma**.

2.17.j Broker of a Stock Loan Deal

Issue Number: 47471

A broker was incorrectly selected from the **Broker** drop-down list of a stock loan deal if the deal was opened from the **Movement** window. This error occurred if there was no broker defined in the original deal.

2.17.k Generating Forecasts for Days in the Past

Issue Number: 50343

An Oracle error occurred if the following occurred:

- The Prices Date was changed with the **Use Audit Trail** check box selected.
- Forecasts were generated for the current day.

This occurred because the SQL query used to generate the forecasts contained a duplicate call to the `AJUSTEMENTS` column of the `HISTOMVTS` and `AUDIT_MVT` tables.

2.17.l Recalculating Underlyings

Issue Number: 36431

Underlyings were not recalculated if calculation (F9) was performed on a portfolio. This occurred if the following conditions were true:

- The prices date was set to a future date.
- The **Theoreticals** check box was not selected in the **Prices Date** window.
- Forecast was launched with the **Since the last one** option.

2.17.m Extraction P&L Value Error

Issue Number: 48557

The P&L value of portfolios and the flat position of extractions was incorrect if the following conditions were true:

1. Two deals with different counterparties were booked on the same total return swap or stock loan.
2. An extraction was performed with the counterparty set as the criterion.

2.17.n Cash Balance Report

Issue Number: 34994

An Oracle error occurred if the **Cash Balance** report was displayed and the following was true:

- The **Portfolio** window was displayed for a position from the **Find** window.
- The portfolio was not loaded.

2.17.o Interest Rates in Parametric VaR

Issue Number: 39252

The **Parametric VaR** analysis was not calculated if the analysis was launched using a breakdown list that contained an interest rate. As of this release, interest rates are treated as zero-coupon or constant maturity spread (CMS) rates in calculating the **Parametric VaR** analysis.

2.17.p Cash Balance Report in Flat or Underlying View

Issue Number: 39631

The cash flows of the **Cash Balance** report were incorrect if the following was true:

- There were several positions on the same instrument in the sub-portfolios of the portfolio displayed in the **Portfolio** window.
- The **Portfolio** window was displayed in **Flat** or **Underlying** view.
- The report was displayed for a selected position.
- The position matched the criteria of a rule in the **Mark P&L Configuration** window.
- The mark P&L rule's category was selected from the **Mark P&L rule set** drop-down list on the **Model** tab in the **Preferences** dialog box.

2.17.q Audit History on CFD Position

Issue Number: 47975

An error occurred if an audit history was opened on a CFD position.

2.17.r Duplicate Tickets for Listed Put Options

Issue Number: 47545

Duplicate tickets were generated for the delivery of the underlying in listed put options with the following delivery types:

- **Physical**
- **Market**
- **Future**

2.17.s Risk Matrix Delta of In-the-Money Put Options

Issue Number: 43557

The delta value in the **Risk Matrix** analysis was incorrectly displayed as zero for in-the-money put options after the expiration date of the option.

2.17.t Bonds in Parametric VaR

Issue Number: 44556

The last price of bonds in a breakdown list was incorrectly used in all value-at-risk (VaR) and historic correlation calculations in the **Parametric VaR** analysis.

As of this release, the following values are used for bonds in a breakdown list:

- The yield-to-maturity (YTM) is used if the bond's quotation type was set to **In rate**.
- The last price of the bond is used for all other types of bonds.

2.17.u Fast P&L Region

Issue Number: 51196

The fast P&L region **local** was used if the defined P&L region could not be located. The **local** fast P&L region includes the End of Day results and this effected the performance of RISQUE.

As of this release, the **local w/o EOD** fast P&L region is used if the defined region cannot be located.

The fast P&L region is defined by the **Use Fast P&L Region** drop-down list on the **Optimisations** tab in the **Preferences** dialog.

2.17.v Corporate Actions in Parametric VaR

Issue Number: 39711

The values in the **Parametric VaR** analysis were incorrect if the analysis was launched on a portfolio that contained positions affected by corporate actions. For example, the analysis was incorrect for positions on a share that was split.

As of this release, corporate actions are correctly handled in the calculation of the **Parametric VaR** analysis.

For more information, see the *Sophis Financial Models Reference Guide*.

2.17.w Risk Matrix Market-Data Shift Values

Issue Number: 42145

The P&L, vega, and theta values for no market-data shift were incorrect in the **Risk Matrix** analysis if the following conditions were true:

- The **Shift** or **Real Shift** value was selected from the **Rate** drop-down list on the **Theta** tab of the **Preferences** window.
- The **Maturity** value was selected from the **X-Axis** or **Y-Axis** on the **Simulation Parameters** dialog box.

2.17.x Convertible Bond Duration

Issue Number: 48900

Duration values were not displayed for convertible bonds in the **Portfolio** window.

This affected the following portfolio columns:

- **Duration to Put MtM**
- **Duration to Put Theo**
- **Duration to Call MtM**
- **Duration to Call Theo**
- **Duration to Worst MtM**
- **Duration to Worst Theo**
- **Duration to Best MtM**
- **Duration to Best Theo**
- **Mod. Duration to Worst Theo**
- **Mod. Duration to Worst MtM**
- **Mod. Duration to Put Theo**
- **Mod. Duration to Put MtM**
- **Mod. Duration to Call Theo**
- **Mod. Duration to Call MtM**
- **Mod. Duration to Best Theo**
- **Mod. Duration to Best MtM**

2.17.y FX Deals Window Autocomplete

Issue Number: 50908

The autocomplete functionality for the currency drop-down lists on the **FX Deals** window did not correctly populate the deal’s currencies.

This occurred if the following steps were taken:

1. With the currency drop-down in focus, a letter was typed to locate a currency.
2. The drop-down list arrow was clicked.

2.17.z Number of Characters for Default Trader

Issue Number: 40148

An Oracle error occurred if more than 10 characters were entered into the **Default Trader** field of the **User Information** dialog.

As of this release, you can enter up to 39 characters into the **Default Trader** field.

2.17.aa Folio Error for Mirrored Deals

Issue Number: 47557

Child deals did not inherit the folio of parent deals if the following conditions were true:

- The following settings were applied to the corresponding mirror rule in the **Mirror Rules Definitions** window.
  - The **Mirroring Mode** was set to **Auto Mode With Manual Input**.
  - The **Reception Folio** was set to **Source Folio**.
  - The **Reception Entity** was set to **Choose When Mirroring**.
- The entity of the child deal did not have a folio associated with it.

2.17.ab Asset-Backed Securities Repayment Ticket Generation

Issue Number: 51736

Tickets for repayments on asset-backed securities were generated one day before the repayment date.

2.17.ac Asset-Backed Securities Ticket Generation

Issue Number: 51737

The following issues occurred with tickets for asset-backed securities:

- Tickets were generated with incorrect value dates.
- Expiry tickets were generated before the maturity of the ABS.

2.17.ad Asset-Backed Securities Duplicate Ticket Generation

Issue Number: 49003

A duplicate repayment ticket was generated for asset-backed securities if the following conditions were true:

1. A forecast was launched for the asset-backed security position, generating a coupon and repayment ticket.
2. The tickets were transmitted.
3. Another forecast was launched on the same day.

   The repayment ticket was incorrectly re-generated.

2.17.ae Multicurrency Basket with Basket Volatility Only Model

Issue Number: 46090

The delta was incorrectly generated in the **Underlying** view of the **Portfolio** window if the following conditions were true:

- The position was created as an option on a multicurrency basket defined with the **Basket Volatility Only** volatility model.
- The **No basket split** check box on the **Model** tab of the **Preferences** window was not selected.
- A **Performance** clause was defined for the option.
- The volatility smile type of the option was **Absolute Strike**.
- At least one volatility smile was defined for the basket's volatility.
- **Delta Total Gamma Total** was selected in the **Delta and Gamma Evaluation** drop-down list of the **Volatility** tab of the **Preferences** window.

2.17.af Detailed Cash Balance on Extraction for Forex Positions

Issue Number: 43842

The cash flows in the **Detailed Cash Balance** report incorrectly showed only one currency's cash line if the following conditions occurred:

- An extraction was performed on a portfolio containing forex positions.
- The position or the folder containing the position was selected in the extraction results when the **Detailed Cash Balance** report was performed.

2.17.ag Early Exercise of Forward Start and Average Option

Issue Number: 47112

The exercise price used to generate the ticket for the early exercise of options was incorrectly used in the calculation as an absolute value. This occurred for forward start options with the exercise type defined as **American** or **Bermudan**.

As of this release, the exercise price used for this calculation is derived from the following formula:

*Strike in % * Spot on start date*

2.17.ah Risk Matrix Analysis on Option with Fixed Volatility

Issue Number: 49435

The values in the results of **Risk Matrix** portfolio analyses were incorrect for options if the following conditions were true:

- The option was defined with fixed volatility.
- The underlying had a volatility smile type of **Strike in %**.

2.17.ai Parametric Volatility Analysis

Issue Number: 44766

The results of the **Parametric Volatility Analysis** portfolio analysis were incorrect.

2.17.aj Total Return Swap Scenario Error

Issue Number: 48980

The spread was not taken into account by scenarios launched on total return swaps booked in portfolios.

2.17.ak Basket Booking Error Message

Issue Number: 39091

The following error message were displayed if a basket was booked in a portfolio without having a counterparty defined:

```
ERROR (Error; Could not find counterparty (0))) in AjouteUnPanier)
```

When the first error message was closed, the following error message was displayed:

No counterparty defined

As of this release, only one error message is displayed.

2.17.al Incorrect Interest Calculation

Issue Number: 48890

Results in the **Portfolio** window were incorrect if no last price was defined for the last 30 days in the **Historical** window of the interest rate defined for CFDs and stock loans.

2.17.am Vega Effect in Result Variation

Issue Number: 47988

The value of the **Vega Effect** column was incorrect in the **Result Delta** window for a position on a vanilla option if the smile effect was calculated for the position.

2.17.an Expired Caps in Packages

Issue Number: 50144

Forecast alerts were generated for expired caps that were part of a package that had reached maturity. As of this release, once an expiry ticket was generated for a package, alerts are not generated for expired instruments in the package.

2.17.ao Tenor Basis Swap Blotter

Issue Number: 47570

An internal error occurred if a tenor basis swap was created in the **Tenor Basis Swap** one-deal blotter with a floating leg that did not have an interest rate.

As of this release, a message is displayed if you save a swap in the following one-deal blotters without setting the interest rate in the floating leg:

- **Tenor Basis Swap**
- **Forex Basis Swap**

2.17.ap Global Delta Adjustment Column

Issue Number: 52120

The **Global Delta Adjustment** column was not calculated for positions on forex barrier options that were defined with the **Trinomial** pricing model.

2.17.aq Basket Swap Prices Date Error

Issue Number: 47067

The **Instruments** check box of the **Prices Date** dialog box did not work correctly for basket swaps if the fixings of a share in a basket swap were modified on the current date.

2.17.ar Counterparty Fees Error

Issue Number: 48558

The value of the **Realized** column of the **Portfolio** window did not take the upfront fees of a corporate action into account if the **Included in average value** was selected from the **Counterparty Fees** drop-down list on the **Preferences** window.

2.17.as Market Categories with Fast P&L

Issue Number: 47838

Fast P&L calculations did not take the volatility and curve families defined in market categories into account. The default volatility and curve families were incorrectly used by fast P&L calculations.

2.17.at Pricing Issue In Extractions by Currency

Issue Number: 50971

Greek values were incorrect in extractions using a currency criterion. This error occurred because positions were not consolidated correctly in the extraction.

2.18 Pricing

2.18.a Call Make Whole Clause

Issue Number: 27372

Coupon spreads were not taken into account for the calculation of the theoretical price of convertible bonds that had a Call Make Whole clause defined. This occurred only if **Static Spread** was selected in the **Spread Type** drop-down list in the **Derivatives** dialog for convertible bonds. The spread is taken from the **Maximum** column of the **Clause** dialog.

2.18.b Digital Caplets with Smile

Issue Number: 27897

The vega correction used to price digital caplets was calculated using the day count basis of the floating rate instead of the basis of the caplet.

2.18.c Forecast Warning Message

Issue Number: 51372

As of this release, RISQUE displays a warning message if an Oracle error occurs before the forecast process ends. The warning message specifies whether the results of the incomplete forecast process are saved or discarded.

2.18.d MtM Greeks MtM for Bonds

Issue Number: 47554

The clean price of bonds was incorrect if the pricing type was set to **MtM Greeks MtM**. As a result, the clean price was not equal to the last price.

2.18.e YTM for Bonds

Issue Number: 47552

The yield-to-maturity (YTM) value of bonds was incorrectly calculated as 0. This occurred if the following was true:

- The spread type was set to **YTM Spread**.
- The YTM mode was set to **Absolute**.

2.18.f Bonds with Spread

Issue Number: 51405

The theoretical price of bonds was incorrect if the following was true:

- The bond was defined using the **ACT/ACT(ISMA)_ISDA06** yield-to-maturity (YTM) basis.
- A spread was defined.

This occurred because the discount factor was not calculated correctly for these bonds.

2.19 Reporting Module

2.19.a Blank Portfolio Values

Issue Number: 51080

Blank portfolio values were incorrectly generated as `–10000000.000000000000` in the XML generated for the **Portfolio** source.

2.19.b No Cash Activity for Detailed Cash Balance

Issue Number: 50730

No dates were generated in the `reporting:CashBalanceColumns` node of the XML generated for the **Detailed Cash Balance** source if there was no cash activity during the specified time period.

2.19.c Trade Source Memory Management

Issue Number: 51442

A memory-management issue occurred if the **Trade** source was launched.

2.19.d Scenario Namespace

Issue Number: 51301

The XSD generated by the **Scenario** source was invalid. As of this release the namespace is `scenario:scenario` instead of `tns:scenario`.

2.20 User Rights

2.20.a Warning Message Displayed Twice

Issue Number: 33902

A warning message was incorrectly displayed twice if a user without the **GeneralWriteAccess** user right tried to perform a task that modified data in the database. For example, the user tried to modify and save an instrument.

As of this release, the warning message is displayed only once.

2.21 XML

2.21.a Stock Loan Exercise Date

Issue Number: 48719

The date in the **Exercise Date** text box of the **Stock loan input** dialog was not included in the XML if an XML copy-and-paste operation was performed on a stock loan.

2.21.b Inverse H&H

Issue Number: 48827

The setting from the **Inverse H&H** setting from the **Credit Risk Calculation** tab of the **Collateral Agreements** dialog was not included in the XML file if an XML copy-and-paste operation was performed on the following types of stock loans:

- Security vs Cash per-contract
- Bond vs Cash per-contract

2.21.c Worst Case Analysis Attribute Names

Issue Number: 44086

The attribute names in the XML generated by the **Worst Case** analysis were not consistent with the attribute names in the XML generated by other analyses.

As of this release, the following attribute names are all lowercase:

- `CreditRisk`
- `Maturity`
- `Rate`

- `Underlying-id`
- `Underlying-ref`
- `Underlying-shift`
- `Underlying-spot`
- `Volatility`

2.21.d TRS XML Copy-and-Paste Operation Error

Issue Number: 48319

The `DATEJOUISSANCE` field of the `histomvts` database table was not correctly filled if an XML copy-and-paste operation was performed on a total-return-swap transaction.

2.21.e Notional Futures

Issue Number: 40302

The value of the **Contract Class** text box of the **Future** dialog was not pasted if an XML copy-and-paste operation was performed on a notional future.

2.21.f Forward Rate Agreement Points on Yield Curves

Issue Number: 50431

Forward rate agreement (FRA) points were not included if an XML copy-and-paste operation was performed on a yield curve.

2.21.g scenario.xsd

Issue Number: 51291

Some attributes of the `scenario` XML tag were inconsistent between RISQUE and the `scenario.xsd`.

To correct this issue, the following attributes were changed in `scenario.xsd` to fix this:

- `Rate` has been changed to `rate`.
- `Maturity` has been changed to `maturity`.
- `Volatility` has been changed to `volatility`.
- `CreditRisk` has been changed to `creditRisk`.
- `Underlying` has been changed to `underlying`.

Chapter 3 Enhancements in 5.3.6

This chapter describes the enhancements made in RISQUE 5.3.6. These enhancements were made in the following areas:

- *Accounting on page 103*
- *Back Office on page 106*
- *Collateral Management on page 108*
- *Command Line on page 117*
- *Commodities on page 117*
- *Database on page 121*
- *Documentation on page 123*
- *End of Year on page 124*
- *Installation on page 124*
- *Instruments on page 125*
- *Market Data on page 134*
- *Performance on page 135*
- *Portfolios on page 135*
- *Pricing on page 149*
- *Reporting Module on page 150*
- *User Rights on page 150*

3.1 Accounting

3.1.a Account Trade Rules

Issue Number: 31792

The following amount types have been added to the **Amount Types** drop-down list on the **Account Trade Rules** window:

- **ABS Repayment** — generates an ABS Repayment ticket, returns 0 as the amount, and the quantity is multiplied by the difference between pool factors.
- **Premium Pool** — returns the premium of an ABS bond.

- **ABS Repayment on Base Amount** — displays the base amount and calculates quantity by multiplying it by the difference between pool factors.
- **Base Amount with Pool** — returns the base amount of an ABS bond.

Book Affected: Back Office User Guide

3.1.b Technical Account

Issue Number: 50649

A new account type, **Technical Account**, has been added to the **Account Type** drop-down list of the new account names dialog box. This account type is used to balance postings of multiple accounts without being displayed in the account summary.

Book Affected: Back Office User Guide

3.1.c Temporary Forex Rate

Issue Number: 50795

As of this release, a temporary forex rate has been introduced which updates forex trades where the forex rate is unknown at the time of booking. The temporary rate is the last value of the previous day's forex rate.

For example, if a forex trade is booked in the future, RISQUE uses the temporary forex rate of yesterday to create a trade posting. On the trade date, this posting is updated with the correct forex rate.

The temporary rate can be updated in the following ways:

- By running the end of day process.
- By selecting the **Trade Shoot Again** command on the **Accounting** menu.

Book Affected: Back Office User Guide

3.1.d Accounting User Rights

Issue Number: 51227

The following user rights have been added to the **BO Accounting** tab of the user rights dialog:

- **Trade Engine End Of Day** — the user right is of type A, and it grants permission to the **Trade Engine End Of Day** command on the **Accounting** menu.
- **Trade Shoot Again** — the user right is of type A, and it grants permission to update the temporary forex rate with the current rate for forex deals.

Book Affected: Back Office User Guide

3.1.e Place for Forex

Issue Number: 50664

A new drop-down list, **Place for Fx**, has been added to the new account entity dialog box. For forex calculations, RISQUE uses the forex rate defined at the selected place on the trade date. For example, if a USD/EUR forex deal is booked and the place for forex is Paris then the following two forex conversions are performed:

- The first conversion is between USD and EUR, because Paris is defined as the place for forex. Therefore, RISQUE searches for the USD forex rate on the Paris market.
- The second conversion is between EUR and GBP.

If the trade date is a bank holiday for the second currency, then the previous business day is taken into account.

Book Affected: Back Office User Guide

3.1.f Account Amortisation Rule Columns

Issue Number: 50859

The following columns have been added to the **Auxiliary Ledger Rules** window:

- **Equity Fx Capital Gain**
- **Equity Fx Capital Loss**

These columns display the name of the account that contains the account postings that the auxiliary ledger engine generates due to the forex rate change of a forex deal.

Book Affected: Back Office User Guide

3.1.g Account Description Column

Issue Number: 47018

The **Description** column has been added to the **Account Names** window. This column enables you to enter a description of the corresponding account.

Book Affected: Back Office User Guide

3.1.h Amortisation Calculation Methods

Issue Number: 51926

The following calculation methods have been added to the **Calculation Method** drop-down list of the **Account Amortising Rules** window:

- **Linear on Average Price** — posts one ticket to the asset account for the notional and the premium of a bond. RISQUE uses this posting to amortise the premium of a bond.
- **YTM on Average Price** — posts tickets by taking those rules into account that use the actuarial method in the **Amortisation Rule** column of the **Amortisation Selector** window.

Book Affected: Back Office User Guide

3.2 Back Office

3.2.a Stock Loan Instruction Re-Netting

Issue Number: 46096

As of this release, it is possible to re-net stock loan instructions. To do this, the following enhancements have been made:

- The **SL Re-Netting** command has been added to the context menu of the **Instructions** blotters.

  This command enables you to re-net instructions if the netting for those instructions has been deleted.
- The BO_PE_CREATED_NETTING_LINKS database table has been created.

  This table holds instructions data that was removed from the BO_PENDING_NETTING_LINKS table if netting was removed from those instructions.

Book Affected: Back Office Guide, Tables Guide

3.2.b Back Office Kernel Events

Issue Number: 46992

It was not possible to save Back Office kernel events that contained special characters in their names, such as @, &, #, and so on.

3.2.c New Business Events in CFD Tab

Issue Number: 50115

The following drop-down lists have been added to the **CFD** tab of the **Back Office Parameters** dialog:

- **Credit/Debit Free Cash —** specifies the business event if cash is credited or debited to the free cash account.
- **Transfer Free Cash —** specifies the business event if cash is transferred between the free cash and collateral account.

Book Affected: Advanced CFD Guide

3.2.d Corporate Action Business Event

Issue Number: 49187

A new drop-down list, **TRS CA Adjustment**, has been added to the **Back Office Parameters** window. The **TRS CA Adjustment** drop-down list determines the business event assigned to the adjustment of basket swaps if a corporate action is performed on a share that is part of the basket composition.

The value of the **TRS CA Basket Adjustment** drop-down list is set to **XXX** by default. The **XXX** value assigns the **Instr. Modif** business event to corporate actions.

Book Affected: Back Office Guide

3.2.e Personal Instructions Blotter Criteria

Issue Number: 50936

In previous releases, filter criteria specified for one **Summed Instructions Personal** blotter was applied to all other open **Summed Instructions Personal** blotters. As of this release, filter criteria is only applicable for its corresponding blotter.

3.3 Collateral Management

3.3.a Lending Indicators for Collateral Scheduler Report

Issue Number: 41557, 38871

As of this release, the following changes have been made to the **Collateral Scheduler Report** window to provide lending opportunity indicators:

- The **Allotment** column now displays the allotment for the underlying instrument and the allotment for the position.
- The following columns have been added:
  - **Market Spread**
  - **Market Rebate**
  - **Maturity Date**
  - **Nb Days to Maturity**
  - **Next Ex-Coupon Date**
  - **Nb of Days to Next Coupon Pay**

Book Affected: Collateral Management Guide

3.3.b Closed Positions in Stock Loan and Repo Mgt

Issue Number: 46656

As of this release, closed positions for all types of stock loan contracts are displayed in the **Stock Loan and Repo Mgt** window if interest or commission tickets still exist for the position after the position has expired.

3.3.c Stock Loan Duplication

Issue Number: 46974, 45902

The **Duplicate** command has been added to the context menu for stock loan and repo deals in the **Portfolio** window. This command opens the **Stock loan input** dialog with the same parameters as the original stock loan.

Book Affected: Advanced Stock Loan Guide, Debt Instruments Guide

3.3.d Collateral Management Agreements Window

Issue Number: 36838

The **Collateral Management Agreements** window has been re-designed in this release. The new window provides the following functionality:

- A hierarchical view of collateral agreements.
- Collateral agreement filtering and grouping.
- The ability to create columns using the toolkit.

Figure 3-1 shows the **Collateral Management Agreements** window:

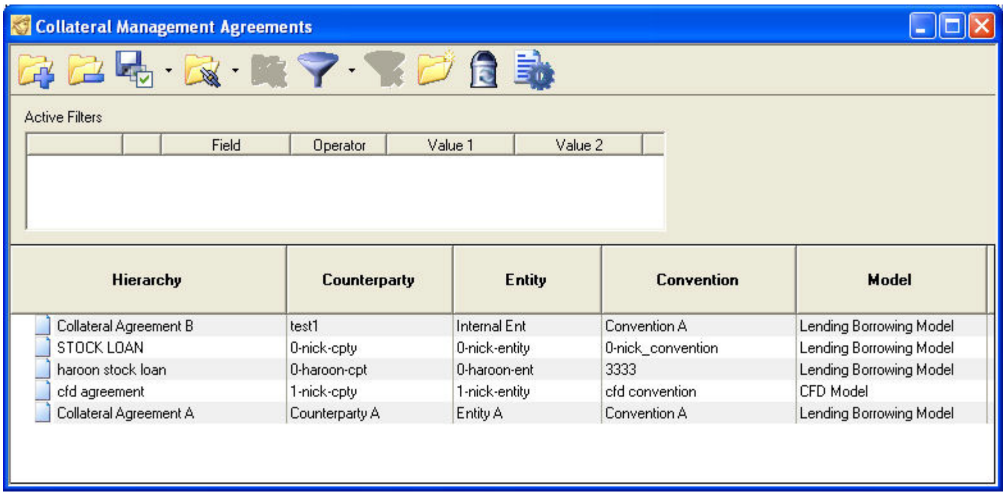


Figure 3-1 Collateral Management Agreements window

For detailed information about the **Collateral Management Agreements** window, see the *Collateral Management Guide.*

Book Affected: Collateral Management Guide

3.3.e Limits Calculation Sorting

Issue Number: 44395

You can now sort the data in the **Collateral Limits Calculation** window by clicking on the column headers of the window.

3.3.f Global Cash Margin Call Window

Issue Number: 49657

You can now resize the **Global Cash Margin Call** window.

3.3.g Change Report Date Function

Issue Number: 46660

The **Change Reporting Date** button has been added to the toolbar of the following windows:

- **Stock Loan and Repo Mgt**
- **Collateral Limits Calculation**
- **Detailed Limits Report**

Clicking the **Change Report Date** button opens the **Change Report Date** dialog box, which enables you to define a user-specified date for the report, instead of the system date.

Figure 3-2 shows the **Change Report Date** dialog:

Figure 3-2 Change Report Date dialog box

Note If the **Change Report Date** dialog box is opened from the **Stock Loan and Repo Mgt** or **Detailed Limits Report** windows, the title of the dialog box changes to the name of the corresponding agreement.

Book Affected: Collateral Management Guide

3.3.h Margin Call Threshold

Issue Number: 40208

As of this release, it is possible to define thresholds for the CFD margin calls. The following text boxes have been added to the **Margin Calls** tab of the **Collateral Agreement** window:

- **Sec MC Sufficiency Limit** — specifies a limit for the collateral value of a margin call. The margin call is not performed under this limit. The sufficiency limit is enabled if the **Sufficiency Check** check box is selected in the **Securities Margin Call** dialog. The sufficiency limit check is disabled if it is set to zero.
- **Cash MC Sufficiency Limit —** specifies a limit for the collateral value of a margin call. The margin call is not performed under this limit. The sufficiency limit is enabled if the **Sufficiency Check** check box is selected in the **Cash Margin Call** dialog. The sufficiency limit check is disabled if it is set to zero.
- **Time Sufficiency Limit —** specifies how long the sufficiency limit is relevant. The sufficiency limit is enabled if the **Sufficiency Check** check box is selected in the **Securities Margin Call** dialog.

Book Affected: Collateral Management Guide

3.3.i Partial Return in Percent

Issue Number: 46800, 45902

The **Partial Return** drop-down list has replaced the **Partial Return With Initial Values** check box in the **Principal Stocks** tab of the **Collateral Agreement** dialog.

Table 3-1 describes the values in the **Partial Return** drop-down list:

Table 3-1 Values in the Partial Return Drop-down List

Name	Description
Default	Specifies that partial returns take the current collateral amount of the deal into account, and that you can revise the spot in a partial return. This is the default value. ***Note:*** In previous releases, this corresponds to *not* selecting the **Partial Return With Initial Values** check box.
With Initial Values	Specifies that partial returns take only the initial deposit of the deal into account, and specifies that you cannot revise the spot in a partial return. ***Note:*** In previous releases, this corresponds to selecting the **Partial Return With Initial Values** check box.
Always In Percent	Specifies that the collateral amount to be returned is a percentage of the current collateral amount equal to the following: Quantity to return / Quantity

Book Affected: Collateral Management Guide

3.3.j Refreshing Selected Lines

Issue Number: 49317

It is now possible to refresh selected lines in the following windows:

- **Collateral Limits Calculation**
- **Detailed Limits Report**

For more information, see the *Collateral Management Guide*.

Book Affected: Collateral Management Guide

3.3.k Global Cash Margin Call

Issue Number: 48663, 51309

The following enhancements have been made to the **Global Cash Margin Call** window:

- The first line of the **Global Cash Margin Call** window now displays the sum of the values in the **Margin Call** and **Cash Amount** columns.

  These sums are displayed at the top of their respective columns, and change if a margin call or cash amount value changes. This line cannot be modified, and is indicated by the word **TOTAL** in the **Principal** column.
- The **Partial Return Quantity** column has been added.

  This columns displays the quantity of partial returns performed where the trade date is less then or equal to the price date, and the value date is greater then or equal to the price date.

Book Affected: Advanced Stock Loan Guide

3.3.l PnL Date in Securities Margin Call

Issue Number: 50145

The **PnL Date** text box has been removed from the following windows:

- **Securities Margin Call**
- **Cash Margin Call**
- **Collateral Substitution**

Book Affected: Collateral Management Guide, Advanced Stock Loan Guide

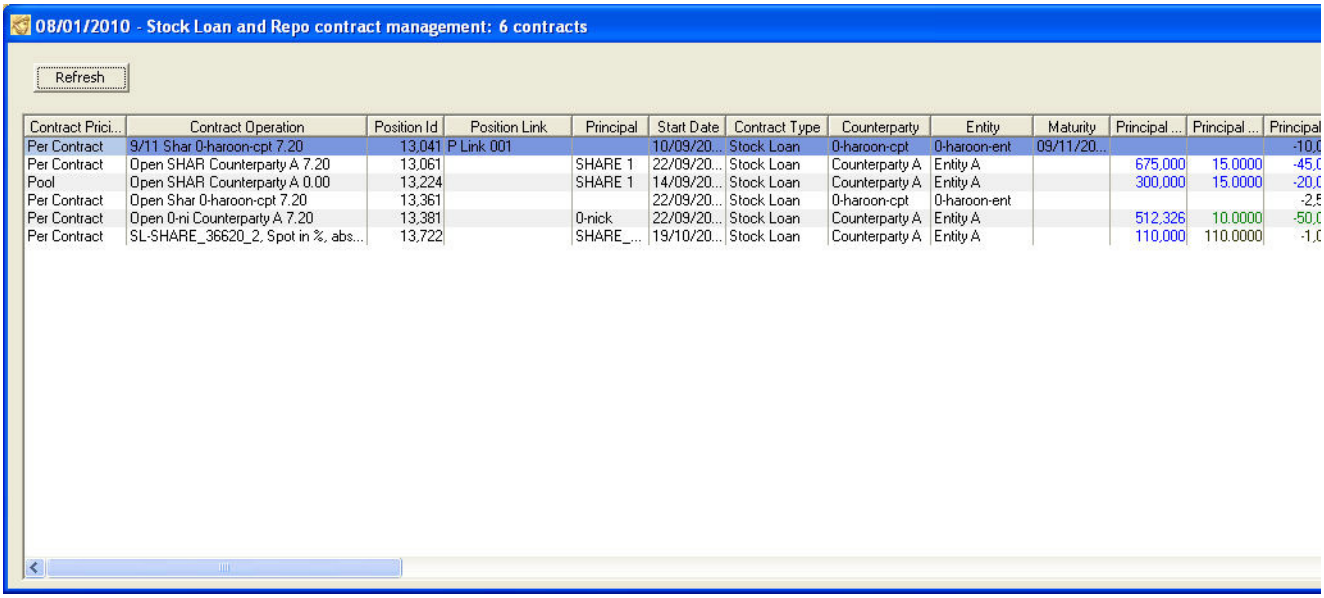
3.3.m Contract Management Window

Issue Number: 40925, 45900

The **Stock Loan and Repo contract management** window has been added as of this release. It enables you to perform the following tasks on multiple stock loan or repo contracts:

- Maturity modification
- Commission modification
- Collateral/repo spread modification

Figure 3-3 shows the **Stock Loan and Repo contract management** window:



Contract Prici...	Contract Operation	Position Id	Position Link	Principal	Start Date	Contract Type	Counterparty	Entity	Maturity	Principal ...	Principal ...	Principal
Per Contract	9/11 Shar 0-haroon-cpt 7.20	13,041	P Link 001		10/09/20...	Stock Loan	0-haroon-cpt	0-haroon-ent	09/11/20...			-10,0
Per Contract	Open SHAR Counterparty A 7.20	13,061		SHARE 1	22/09/20...	Stock Loan	Counterparty A	Entity A		675,000	15.0000	-45,0
Pool	Open SHAR Counterparty A 0.00	13,224		SHARE 1	14/09/20...	Stock Loan	Counterparty A	Entity A		300,000	15.0000	-20,0
Per Contract	Open Shar 0-haroon-cpt 7.20	13,361			22/09/20...	Stock Loan	0-haroon-cpt	0-haroon-ent				-2,5
Per Contract	Open 0-ni Counterparty A 7.20	13,381		0-nick	22/09/20...	Stock Loan	Counterparty A	Entity A		512,326	10.0000	-50,0
Per Contract	SL-SHARE_36620_2, Spot in %, abs...	13,722		SHARE_...	19/10/20...	Stock Loan	Counterparty A	Entity A		110,000	110.0000	-1,0

Figure 3-3 Stock Loan and Repo contract management window

Book Affected: Advanced Stock Loan Guide

3.3.n New CFD Agreement Reporting Methods

Issue Number: 38885

The following reporting methods have been added to the **Reporting** drop-down list in the **CFD** tab of the **Collateral Agreements** dialog:

- **LIFO**
- **WAP**
- **Line Picking**

These methods are used to calculate the realised amount on portfolio positions. Specifying one of these options overrides the reporting method specified when F8 (Reporting) is performed on CFD positions in the portfolio.

Book Affected: Advanced CFD User Guide

3.3.o Securities Report

Issue Number: 45901

A new report window, the **Securities Report**, is introduced in this release. The **Securities Report** enables you to analyse and monitor equity information across different positions in a portfolio. It displays detailed information on the equity and split between book, lending/borrowing, CFDs, per contract collateral, and pool collateral positions.

Figure 3-4 shows the **Securities Report** window:

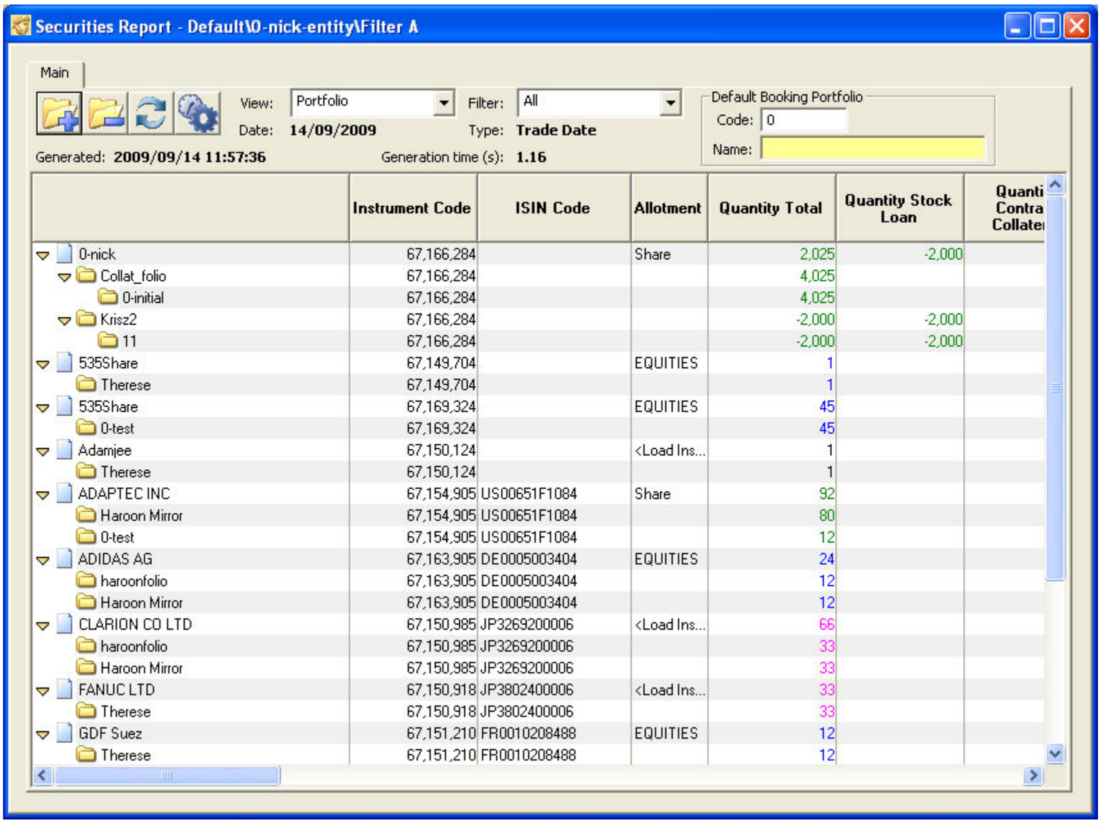


Figure 3-4 Securities Report window

For more information about the **Securities Report** window, see the *Collateral Management Guide*.

Book Affected: Collateral Management Guide

3.3.p Free Cash Account

Issue Number: 38804

The **Free Cash** line has been added to the **CFD Report** window. The free cash account is a cash account outside of the default collateral account where CFD collateral is placed.

Figure 3-5 shows the **Free Cash** line in the **CFD Report** window:

Root	CFD / Cash Pool / Free Cash Currency	Cash Deposit Amount	Cash Deposit Haircut	Yesterday's Interest on Cash Deposit	V
CFD Contracts	JPY				
Cash Pool Collateral	JPY	901,543			
Cash Collateral JPY 0 JPY short	JPY	877,543	100.00	5,714	
Cash Collateral JPY 0 JPY long	JPY	24,000	100.00		
Free Cash		125,000			
Free Cash JPY 0 JPY short	JPY	125,000			

Figure 3-5 Free Cash line

Book Affected: Advanced CFD Guide

3.3.q Closed Positions in Limits Calculation

Issue Number: 46659

It is now possible to specific whether or not closed positions are taken into account in limits calculations.

The following enhancements have been made:

- The **Limits Close Date** text box has been added to the **Stock loan** tab of the **Preferences** dialog.

  This enables you to specify an absolute or relative date after which closed positions are not included in limits calculations.
- The **Closed Before "Limits Close Date"** option has been added to the **Condition1**, **Condition2**, and **Condition3** columns of the **Collateral Indicator Selector** window.

  Selecting this option includes positions closed before the date specified in the **Limits Close Date** text box in the limits calculation.

For more information, see the *Collateral Management Guide*.

Book Affected: Administration Guide, Collateral Management Guide

3.3.r Warning for Invalid Securities for Margin Calls

Issue Number: 43585

As of this release, a warning message is displayed if an invalid instrument is selected as collateral for a securities margin call. In previous releases, the warning was not displayed until after **New Deal Pending** or **New Deal Accept** was clicked.

3.3.s Collateral Agreement Field Decimal Places

Issue Number: 43286

The precision of the following fields in the **Collateral Agreements** dialog is now set to four decimal places:

- In the **Cash Collateral Remuneration** frame of the **Margin Call** tab:
  - The **Short Margin** column
  - The **Long Margin** column
- In the **General Rules per Allotment** frame of the **Collateral Stocks** tab:
  - The **Haircut in %** column
  - The **Cash MC Haircut** column
  - The **Pool Haircut in %** column
- In the **Index / Basket** frame of the **Collateral Stocks** tab:
  - The **Haircut in %** column
  - The **Pool Haircut in %** column
- In the **General Rules per Allotment** frame of the **Principal Stocks** tab:
  - The **Hedging in %** column
  - The **CFD Short** columns
  - The **CFD Long** column
- In the **Index / Basket** frame of the **Principal Stocks** tab:
  - The **Hedging in %** column
  - The **CFD Short** columns
  - The **CFD Long** column

The following changes have been made in the BO_PE_MARGIN_CALL database table to increase the precision of these fields to four decimal places:

- SHORT_MARGIN NUMBER has been changed to SHORT_MARGIN NUMBER(8,4)
- LONG_MARGIN NUMBER has been changed to LONG_MARGIN NUMBER(8,4)

Book Affected: Tables Guide

3.3.t Global Cash Margin Call Window

Issue Number: 31637

A new column, **Accrued Interest 1d**, has been added to the **Global Cash Margin Call** window. This column displays the difference in accrued interest between the previous day and the current day.

Book Affected: Advanced Stock Loan User Guide

3.3.u Reference Currency in CFD Agreement

Issue Number: 50910

It is now mandatory to specify a currency for new CFD agreements in the **Ref. Currency** drop-down list in the **Credit Risk Calculation** tab of the **Collateral Agreements** dialog. If no currency is defined and you save the agreement, a warning message is displayed.

Book Affected: Collateral Management Guide

3.4 Command Line

3.4.a Forecast Instances

Issue Number: 51155

A new command-line parameter, `-noParallelForecast`, has been added in this release. This parameter prevents multiple instances of forecasts. If this parameter is set, new forecasts will not be processed if a forecast instance is already running.

Book Affected: Administration Guide

3.5 Commodities

3.5.a Pin-Risk Analysis

Issue Number: 30822

It is now possible to perform pin-risk analysis on a portfolio. Pin-risk analysis measures the risk that the price of the underlying future of an option closes at or very near the strike of the option on the expiry date. Options are displayed in the **Pin Risk Analysis** window in specified colours to indicate if an option is out-of-the-money, at-the-money, or in-the-money.

Figure 3-6 shows the **Pin Risk Analysis** window:

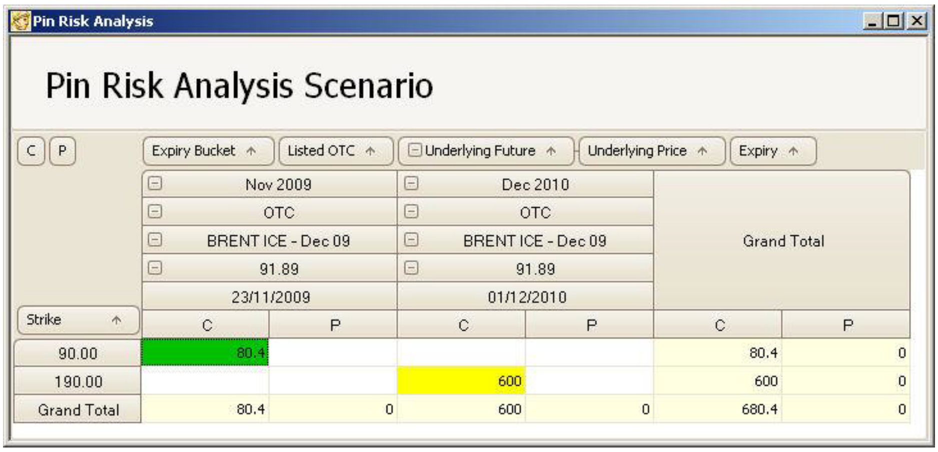


Figure 3-6 Pin Risk Analysis window

Note Forward start options are only included in the **Pin Risk Analysis** if the forward start date is a date in the future.

Book Affected: Portfolio Management Guide

3.5.b OTC Cleared Swaps

Issue Number: 38876

A new commodity swap model, **OTC Cleared Swap**, has been added to the **Swap** window. This model defines swaps that are traded on an exchange and are margined by a clearing house on behalf of the exchange. OTC cleared swaps are margined daily in RISQUE.

Table 3-2 describes the unrealized, income, and average price values generated by reporting for deals on OTC cleared swaps:

Table 3-2 Reporting Values of OTC Cleared Swap Positions

Name	Description

unrealized	On the day the OTC cleared swap is booked, the unrealized value is calculated as follows:
	`quantity * quotity * (theoretical value - price)`
	After the booking date, the unrealized value is calculated as follows:
	`quantity * quotity * (theoretical value - (last of the previous day))`

income	On the day an OTC cleared swap is booked, the income value is 0. After the booking date, the income value is calculated as follows: `quantity * quotity * (last of the previous day) - price)`
average price	On the day an OTC cleared swap is booked, the average price is the same as the price. After the booking date, the average price is the last value of the previous day.

Book Affected: Instrument Reference Guide, Portfolio Management Guide

3.5.c Delta Volatility Models

Issue Number: 36600

The following new commodity-volatility models have been created:

- **Commodity Delta Smile** — the same as the **Fx Cubic Spline** model in the undiscounted-delta case except for the ATM volatility. The ATM volatility point is calculated with the strike equal to the forward.
- **LME Delta Smile** — a combination of the **Commodity Delta Smile** model and the **LME Volatility** model.

Book Affected: Instrument Reference Guide

3.5.d VolMatrix in Delta/Maturity Analysis

Issue Number: 36600

It is now possible to perform a **VolMatrix in Delta/Maturity** analysis on a portfolio. The **VolMatrix in Delta/Maturity** analysis displays the distribution of the vega for the strike values for each of the maturity dates.

It is possible to bump the market plots of commodities with the following volatilities by selecting the **Bump Market Plots** check box on the **Volatility** tab of the **Preferences** window:

- **Fx Cubic Spline**
- **Commodity Delta Volatility**
- **LME Delta Volatility**

By default, the vega values are displayed in columns for each strike value. Figure 3-7 shows the **Delta Vol Matrix** window:

Delta Vol Matrix

Vega | Strike

Commo	Underlying	Maturity	10 Delta Call	25 Delta Call	ATM	25 Delta Put	10 Delta Put	Grand Total
ALUMINIU...	ALUMINIUM LME - 16 Sep 09	1m	-6,399	62,168	4,437	158,710	2,231	221,147
		2m	1,843	-17,803	-1,248	-45,345	-635	-63,187
	ALUMINIUM LME - 18 Nov 09	2m	1,096	-3,525	15,370	19,187	-4,527	27,602
		6m	217	-676	3,250	3,747	-866	5,672
	ALUMINIUM LME - 21 Oct 09	1m	1,818	-5,928	22,452	48,470	-10,181	56,630
		2m	5,915	-19,021	74,917	157,112	-32,734	186,189
BRENT ICE	BRENT ICE - Dec 09	05/11/2009	600,161	-1,893,586	15,682,005	4,274,076	-1,164,729	17,497,927
		13/11/2009	-355,219	1,117,489	-9,642,926	-2,523,593	685,758	-10,718,491
	BRENT ICE - Nov 09	13/10/2009	409,723	-1,305,836	8,505,269	3,595,147	-963,489	10,240,814
	BRENT ICE - Oct 09	13/09/2009	118,700	-302,070	1,514,917	1,591,049	-380,733	2,541,865
XAU/USD	XAU/USD	1m	23,639	-4,569	0	0	0	19,070
		2m	13,686	-2,645	0	0	0	11,040
Grand Total			815,178	-2,376,001	16,178,444	7,278,562	-1,869,904	20,026,278

Figure 3-7 Delta Vol Matrix window

Book Affected: Portfolio Management Guide

3.5.e Precious Metal Risk Sources

Issue Number: 48555, 46770

The following enhancements have been made to options on precious metal futures:

- The risk source of the option is now the precious metal currency.
  In previous versions, the risk source was the future.

- The volatility for pricing the option is now the volatility of the forex on the maturity date of the option.

  In previous versions, the volatility was the volatility of the future.

Note These changes do not affect compo or quanto options.

- A new column, **DeltaUSD**, has been added to the **Portfolio** window. This column displays the risk in US dollars taking the following into account:
  - The value of the **Global Delta USD** column.
  - Each precious metal with USD as the master currency has an implicit USD risk corresponding to its USD value.

Book Affected: Portfolio Management Guide, Administration Guide

3.5.f Window Names

Issue Number: 49836

The following commodity windows have been renamed in this release:

- The **Commodities** instrument definition window has been renamed **Commodity**.
- The **Commodities** instrument definition window for commodity baskets has been renamed **Commodity**.

3.6 Database

3.6.a Query Execution and Fetch Time

Issue Number: 50819

It is now possible to log the execution and fetch time of database queries in milliseconds. To enable the logging of these times, set the `showQueryTime` parameter in the `[DATABASE]` section of the **`risk.ini`** file, as follows:

```
[DATABASE]
showQueryTime=true
```

Note The `Execution Time` and `Fetch Time` are only written to the log file if the logging level is set to debug or comm.

Book Affected: Installation Guide

3.6.b Monitoring Queries

Issue Number: 45325

It is now possible to log database queries that were produced upon the reception of a coherency event. To enable the logging of these queries, set the parameters in the [DATABASE] section of the **risk.ini** file, as follows:

```
[DATABASE]
logCoherencyQueries=true
logCoherencyQueriesFilename=<filename>.log
```

Note The default log filename is **coherency_queries.log**.

If query logging is enabled, a separate log file is created that includes the date, time, and SQL query that was launched. All queries made during a single coherency event are logged in the same file.

Note The log is created regardless of the specified log level.

Book Affected: Installation Guide

3.6.c Coherency Message Processing Time

Issue Number: 50825

It is now possible to log the time spent processing coherency messages. To enable the logging of the processing time, set the parameters in the [BENCHMARK] section of the **risk.ini** file as follows:

```
[BENCHMARK]
logCoherencyTime = true
logCoherencyTimeInterval = 10
```

The default time unit is minutes, the default interval is 30 minutes.

In the log, the time and percentages are split into three types of information, as follows:

- Lower coherency time — the processing time was less than 500 ms.
- Upper coherency time — the processing time was greater than 500 ms.
- Total coherency time — the total processing time.

The following is an example of a log file:

```
verbose : SphRisqueNoComCLRd@jponcet2
(8156.Thread-2104) : [2009/09/22-11:45:26] :
::CoherencyTimeLog() : Lower Coherency = 0.325s on
35.125s, equivalent to 0.93%

verbose : SphRisqueNoComCLRd@jponcet2
(8156.Thread-2104) : [2009/09/22-11:45:26] :
::CoherencyTimeLog() : Upper Coherency = 0.000s on
35.125s, equivalent to 0.00%

verbose : SphRisqueNoComCLRd@jponcet2
(8156.Thread-2104) : [2009/09/22-11:45:26] :
::CoherencyTimeLog() : Total Coherency = 0.325s on
35.125s, equivalent to 0.93%
```

Note The processing time is only written to the log file if the logging level is set to verbose.

Book Affected: Installation Guide

3.7 Documentation

3.7.a Spreads for Interest Rate Curves

Issue Number: 36298

A new section, *Defining a Spread for Multiple Tenors of a Curve*, has been added to the *Interest Rate Curves* chapter of the *Administration Guide*. This section describes how to add a spread to a curve by defining the spread amounts in another curve.

Book Affected: Administration Guide

3.7.b User Column Keywords

Issue Number: 51699

The user column keywords have been reorganised in the *Working with Portfolios* chapter.

These keywords are now listed in the following sections according to the type of information they display:

- Fund Keywords
- Portfolio Keywords
- Position Keywords

- Preferences Keywords
- Underlying Keywords
- Global Keywords
- Miscellaneous Keywords

Book Affected: Portfolio Management Guide

3.8 End of Year

3.8.a New Global Preference

Issue Number: 50481

A new global preference, `SellOnlyRealized`, has been added to the `RISKPREF` table. This preference determines how the unrealised amount is carried over from treasury positions from one year to the following year during the End of Year procedure.

This preference is set as follows:

- `0` — the unrealised amount is not closed during the End of Year procedure.
- `1` — the unrealised amount is handled as follows:
  - Treasury balance tickets are generated to carry the unrealised amount for treasury positions over to the following year's P&L.
  - The P&L for the current year is calculated using the current P&L amount minus the P&L calculated by the End of Year procedure.

Book Affected: Administration Guide

3.9 Installation

3.9.a MSI Installation

As of this release, RISQUE is installed using the MSI delivered with the release package. This installer only installs RISQUE 5.3 as a clean installation. It is not possible to upgrade from an existing version.

3.10 Instruments

3.10.a Reset Clause for Quanto Convertible Bonds

Issue Number: 35128

As of this release, reset clauses can be defined for quanto convertible bonds. The following enhancements have been made to support quanto convertible bonds:

- The **Quanto** check box has been added to the **Payment** frame of the **Convertible Bond** dialog. Select this check box to specify the bond as quanto.
- A new clause type, **ResetQuanto**, has been added.

Table 3-3 defines the settings for a **ResetQuanto** clause.

Table 3-3 Reset Clause Columns

Name	Description
Clause type	ResetQuanto
Begin of clause	Reset date
End of clause	Not applicable
Pay Date	Not applicable
Minimum	Minimum spot value for reset
Maximum	Maximum spot value for reset
Value	Pivot value
Information	For information purpose only

Book Affected: Instrument Reference Guide

3.10.b Series + 1q CDS Maturity Model and Bank Holidays

Issue Number: 49518

The **Series + 1q CDS** maturity model in the **Credit Risk Data** dialog now accounts for bank holidays.

3.10.c Expected Maturity Date

Issue Number: 47876

A new text field, **Expected Maturity**, has been added to the **General** tab of the **Bond** window for ABS bonds. The amortisation process on the premium of ABS bonds is now carried out until the expected maturity date instead of the maturity date if the following conditions are true:

- A value from the **Maturity Date** column of the **Account Amortising Rules** window is selected.
- An expected maturity date is defined for the ABS bond on the **General** tab of the **Bond** window.

This enables you to shorten the amortisation period of the ABS bond premium.

Book Affected: Instrument Reference Guide

3.10.d Operation Name for Stock Loan on Basket

Issue Number: 49383

The **Operation Name** text box in the **Stock loan input** dialog is now renamed to **Basket Name** if the underlying of the stock loan is a basket.

Book Affected: Advanced Stock Loan Guide

3.10.e Depositary of Stock Loan Deals

Issue Number: 39976

The **Depositary** field of the **Stock loan input** dialog is now automatically populated if the Advanced Stock Loan module is enabled. RISQUE selects the Depositary that was defined for the previous stock loan deal in the specified portfolio.

3.10.f New Columns for Deals on Basket Dialog

Issue Number: 48654

As of this release, the following columns have been added to the **Deals on Basket** dialog for stock loan basket deals:

- **Collateral Ccy**
- **Haircut**
- **Collat. Rate**
- **Collat. Spread**

For more information about these columns, see the *Advanced Stock Loan Module Guide*.

Book Affected: Advanced Stock Loan Guide

3.10.g Basket Quantity Adjustment

Issue Number: 47229

The following have been added to the **Deals in Basket** window:

- The **Quantities Percentage Adjustment** text box.
- The **Update Quantities** button.

These enable you to modify the quantities of all contracts in the **Deals in Basket** window for stock loans.

Book Affected: Advanced Stock Loan Guide

3.10.h Basket Swap Tab Filtering

Issue Number: 42704

The values of the **Filtered by** drop-down list on the **Basket Swap** tab of the **Swap** window have been changed. The **Filtered by** drop-down list now displays the following values:

- Instrument name — filters the rows of the **Underlying history** frame by the selected instrument.
- **Updated Only** — filters the rows of the **Underlying history** frame by the adjustment type.

Book Affected: Instrument Reference Guide

3.10.i Basket Swap Break-Funding Fees

Issue Number: 42703

You can now apply break-funding fees to basket adjustments. Break-funding fees are the difference between the interest paid at the swap fixed-rate for the current period and the interest of the interpolated rate on the swap notional until the next reset date. The following controls have been added to **Basket Adjustment** window:

- **Break Funding Fees** text box
- **IR Index** drop-down list
- **Interp. Rate** text box
- **Refresh** button

Book Affected: Instrument Reference Guide

3.10.j Basket Swaps Underlying

Issue Number: 32376

Convertible bonds are now supported as an underlying instrument of basket swaps.

Book Affected: Instrument Reference Guide

3.10.k Size of Forex Fixing Frame Changed

Issue Number: 45459

The width of the **Forex Fixings** frame on the **Basket Adjustment** window has been increased.

Book Affected: Instrument Reference Guide

3.10.l Basket Swap Calendar List Box Values

Issue Number: 45251, 45249

The following values are now selected by default in the **Calendar** list box of the **Advanced** tab of the **Swap** window:

- The **Both payments** value is automatically selected from the **Apply to** drop-down list for currency calendars.
- The **Only rolling** value is automatically selected from the **Apply to** drop-down list for place calendars.

These values are selected by default if the **Basket Swap** value is selected from the **Model** drop-down list of the **General** tab.

Book Affected: Instrument Reference Guide

3.10.m Copy-and-Paste Operation Warning Message

Issue Number: 50898

A warning message is now displayed and the instrument data is not pasted if the following conditions are true:

- A copy-and-paste operation is performed and instrument data is pasted into either the **Basket Adjustment** window or the **Basket Swap Creation** window.
- The reference of the instrument does not exist in the database.

3.10.n Broken Flow in New Cash Flows

Issue Number: 51127

As of this release, the **Broken Flow** column is populated with **True** for all cash flows created on the **Redemption** tab in the **Bond** and **Swap** windows. You can create a cash flow on the **Redemption** tab by adding a new line in the list of cash flows.

3.10.o Adding Instruments to a Stock Loan Basket

Issue Number: 50865

As of this release, you can add an instrument to the **Deal on Basket** window for stock loans on baskets by dragging-and-dropping it from the corresponding instrument list.

Book Affected: Advanced Stock Loan Guide

3.10.p Negative Values for Yield-to-Maturity

Issue Number: 51589

As of this release, it is possible to enter a negative amount in the **YTM** text box on the **Calculation** tab in the Bond window.

Negative yield-to-maturity (YTM) amounts are now calculated for the following instruments:

- Bonds
- Bonds baskets
- Debt instruments

Important The lowest YTM amount displayed for these instruments is -20.

3.10.q Convertible Bond Funding Spread

Issue Number: 38057

As of this release, a funding spread can be added to the pricing structure of convertible bonds. The funding spread indicates the cost of borrowing related to the convertible and is added to the yield curve to discount both the forward price of the underlying equity and the bond cash flows.

The **FUNDING** frame and the **FUNDING RESULTS** frame have been added to support this feature.

The **FUNDING** frame contains a single text box, **Discount Spread**. Enter the funding spread in this text box.

The **FUNDING RESULTS** frame contains the following fields:

- **Theo. wo Funding Spread.** — the theoretical price of the convertible bond without the funding spread.
- **Bond floor wo Fund. Spr.** — the bond floor of the convertible bond without the funding spread.
- **Funding Spread Sensitivity** — the sensitivity of the convertible bond to bumps in the funding spread. The bump size is specified in the **Bump Size** field of the **Rho** tab of the **Preferences** window.

Book Affected: Instrument Reference Guide

3.10.r Tooltips for Swap Tabs

Issue Number: 51258

Tooltips have been added to the following tabs on the **Swap** window:

- **Variance Swap**
- **Volatility Swap**
- **Gamma Swap**
- **Correlation Swap**

3.10.s Convertible Bond with Multiple Reset Clauses

Issue Number: 47031

Convertible bonds with multiple reset clauses were not handled correctly. The conversion ratio was incorrectly applied in the pricing algorithms if a reset had occurred.

The following changes have been made to correct this issue:

- The **Initial Conv. Ratio** text box has been added to the **Derivatives** window.
- The Conversion Layers clause has been added.
- A global preference, `DefaultConversionLayers`, has been added to the `RISKPREF` table.

Initial Conv. Ratio Text Box

The text box **Initial Conv. Ratio** has been added to the **Derivatives** window. This text box always contains the conversion ratio defined for the convertible contract prior to any resets. This value is needed for pricing multiple reset layers if resets occur. The **Conversion Ratio** text box displays the current conversion ratio and is adjusted if a reset occurs.

Default Conversion Layers Global Preference

A global preference, `DefaultConversionLayers`, has been added to the `RISKPREF` table. Define the default number of layers in this preference. This preference can have the following settings:

- 2 — if a **Conversion Layers** clause is not defined, the default number of layers used for convertible bonds with reset clauses is 2. The pricing algorithms are performed on the minimum and maximum reset levels only.
- Any other positive integer — the default number of layers used for convertible bonds with reset clauses is equal to the integer.

Conversion Layers Clause

The **Conversion Layers** clause has been added. This clause is used to define the total number of trinomial trees used for pricing.

This clause can be used as follows:

- Limiting the number of layers for performance — in previous versions, if you defined multiple resets, the number of layers calculated was exponential to the number of resets. This caused performance problems if many resets are defined. Define a smaller number, for example 3 layers per reset, to limit the number of algorithms used.
- Providing a more accurate price — by defining a larger number of layers per reset, the convertible bond pricing is more accurate. If the default number of layers is used, only two layers are calculated.

Book Affected: Instrument Reference Guide, Administration Guide

3.10.t Basket Adjustment Coupon Type

Issue Number: 33739, 33741

A new coupon type, **Accrued**, has been added to the **Underlying history** frame of the **Basket Swap** tab. The **Accrued** coupon type is generated automatically when a basket is created in the **Basket Swap** tab.

The **Accrued** coupon type is a read-only entry that displays the values of the current date and is dynamically updated if the current date is greater or equal to the most recent adjustment date.

Book Affected: Instrument Reference Guide

3.10.u Number of Basket Adjustments

Issue Number: 42107

It is now possible to perform more than one basket adjustment on the same date. As a result, a new field, `ADJUSTMENT_TYPE`, has been added to the `TRS_BASKET_ADJUSTMENT` database table.

3.10.v Swap Floating Leg Rounding

Issue Number: 49325

The value entered into the **Rounding method** text box of the floating leg of the **General** tab of the **Swap** window now overrides the value defined in the **Decimal Units** text box on the **Rate** window if the floating leg of the swap is an interest-rate leg.

3.10.w New Names for Stock Loan Input

Issue Number: 45134

As of this release, the **Stock loan input** dialog has been renamed. The name depends on the type of stock loan or repo, and are described as follows:

- For initial stock loan deals, and those created by roll or duplication, the dialog is now named the **Stock Loan / Repo Input** dialog.
- For existing stock loan deals, the title of the dialog reflects the type of stock loan, as follows:
  - Securities vs cash per contract stock loans — **Stock Loan vs Cash Contract**
  - Cash vs securities per contract stock loans — **Repo Cash vs Sec Contract**
  - Cash vs no collateral stock loans — **Repo Cash No Collateral**
  - Securities vs securities per contract stock loans — **Stock Loan vs Sec Contract**
  - Securities vs cash pool stock loans — **Stock Loan vs Cash Pool**
  - Cash vs securities pool stock loans — **Repo Cash vs Sec Pool**
  - Securities vs securities pool stock loans — **Stock Loan vs Sec Pool**
  - Securities vs no collateral stock loans — **Stock Loan No Collateral**
  - Securities vs tri party stock loans — **Stock Loan vs Tri Party**
  - Cash vs tri party stock loans — **Repo Cash vs Tri Party**

Book Affected: Collateral Management Guide, Advanced Stock Loan Guide

3.10.x Swap Flow Generation

Issue Number: 42113

The following swap-flow generation features have been enabled for basket swaps:

- broken date — stub forwards and stub backwards
- long begin
- long end

3.11 Interface

3.11.a Allotment Rights Dialog Box

Issue Number: 27612

The following title has been added to the **Allotment Rights** dialog box:

- **Allotment Rights**

In previous releases this dialog box had no title.

Book Affected: Administration Guide

3.11.b Broken Cash Flows with ACT/ACT(ISMA)_ISDA06 Basis

Issue Number: 51407

As of this release, you can price customised cash flows with the ACT/ACT(ISMA)_ISDA06 basis. The global preference, `BROKEN_PERIOD_LAG`, has been added to define the time period, before or after the period end date, within which a cash flow is considered a complete period.

This preference has the following settings:

- Any integer — determines the number of days before or after the period end date within which the cash flow is a complete period.

  For example, if `BROKEN_PERIOD_LAG` is set to 3 and the period end date is 31/12/09, the cash flow is not considered broken if the end date is one of the following dates:

  - 28/12/09
  - 29/12/09
  - 30/12/09
  - 31/12/09
  - 01/01/10
  - 02/01/10
  - 03/01/10

  The period is only considered broken if falls on or before 27/12/09 or on or after 04/0/10.
- 0 — all cash flows are considered complete periods. This is the default.

3.11.c Basket Swap Corporate Actions

Issue Number: 36338

You can perform corporate actions on shares that are a component of a basket swap. The following corporate actions are supported for basket swaps:

- splits
- mergers
- demergers

You can define how the cash generated by a corporate action is paid. The following options have been added to the **Advanced** tab of the **Swap** window:

- **Decrease of nominal** — the cash generated by the corporate action decreases the notional value of the new share.
- **Payment to counterparty** — the cash generated by the corporate action is paid to a counterparty.

The following automatic tickets can be generated for basket-swap corporate actions:

- a total-return swap automatic ticket to adjust the composition of the basket.
- an automatic ticket to pay the cash issued by the corporate action.
- an automatic ticket to round the remainder cash.

Book Affected: Instrument Reference Guide

3.12 Market Data

3.12.a Swaption and Cap\Floor Volatility

Issue Number: 49350

The limit for strikes in the volatility matrix for swaptions and caps-and-floors has been increased in this version. In previous versions, the maximum percentage for strikes in the volatility matrix was 150%.

A new global preference, `CustomMaximumVolatility`, has been added to the `RISKPREF` table to define the maximum percentage of strikes in the swaption and cap\floor volatility matrices.

The limit specified by this preference is defined as a multiple of 100. For example, if you set this preference to 2.5, the maximum percentage of strikes is 250%. By default, the maximum percentage of strikes is 150%.

Book Affected: Administration Guide

3.12.b Yield Curve Extrapolation

Issue Number: 50609

You can now use the linear extrapolation method for maturities before the first and after the last market point on yield curves. To do this, set the `OldYieldCurveWOExtrapolate` global preference to 3.

In previous versions, it was not possible to define this global preference to use linear extrapolation for maturities before the first point and after the last point.

Book Affected: Administration Guide

3.13 Performance

3.13.a Limits Calculation Queries

Issue Number: 47903, 45902

The performance of limits calculation queries to the compliance engine has been optimised.

3.13.b Auditing for Arbitrage Instruments

Issue Number: 34062

The performance of auditing for arbitrage instruments if calculation (F9) on a portfolio is performed has been improved.

3.14 Portfolios

3.14.a Amortisation Selector

Issue Number: 47953, 50041

A new window, **Amortisation Selector**, has been added to the **Parameters** menu. The amortisation selector enables you to select an amortisation rule that can be run on a selected portfolio instead of on all portfolios. This amortisation rule is taken into account during F8 reporting if all conditions defined in the selector rule are met.

Figure 3-8 shows the **Amortisation Selector** window:

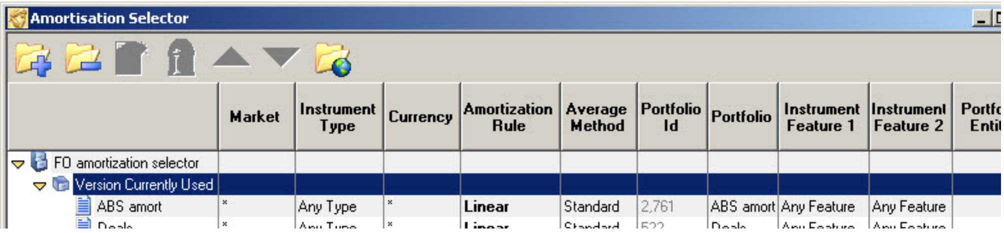


Figure 3-8 Amortisation Selector window

For more information about the **Amortisation Selector** window, see the *Portfolio Management Guide*.

Book Affected: Portfolio Management Guide

3.14.b Portfolio Window Columns

Issue Number: 46995

The following columns have been added to the **Portfolio** window:

Note These columns have been added to the **Result (advanced)** portfolio column group and are also available as **Dynamic P&L Freeze** columns.

- **Amortizing Amount** — calculates the total amortised amount until the current date.
- **Original Amount to Amortize** — indicates the amount that was amortised.
- **Amortizing Remaining** — displays the remaining amount to be amortised for the position. It is calculated as follows: Original Amount to Amortize - Amortizing Amount.
- **Inventory price** — displays the average price including amortisation.
- **Pure Income** — calculates the income without amortisation.

Book Affected: Portfolio Management Guide

3.14.c Instrument Types

Issue Number: 47957

The following instrument types have been added to the **Instrument Type** column of the **Amortisation Selector** window:

- **FI-Bonds-ABS-All**
- **FI-Bonds-ABS-Fixed**
- **FI-Bonds-ABS-Floating**

Book Affected: Portfolio Management Guide

3.14.d Line Picking Window

Issue Number: 49077

A new column, **Amortization**, has been added to the **Line Picking** window. This column displays the amortised amount per deal.

Book Affected: Portfolio Management Guide

3.14.e Stock Loan Context Menu Events

Issue Number: 47120, 45902

You can now access all stock loan-specific commands from the context menu in the **Portfolio** window if an extraction is performed and the following conditions are true:

- The extraction contains stock loans.
- The **Keep Position Ident** check box in the **Extraction Criteria** dialog box is selected for the extraction.

3.14.f Spread Modification Dialog Renamed

Issue Number: 43374

The following have been renamed to **CFD Spread Modification**:

- The **Collateral/Repo Spread Modification** command in the **Portfolio** window's context menu for CFD positions.
- The **Collateral/Repo Spread Modification** dialog for CFD positions.

Book Affected: Portfolio Management Guide

3.14.g Vega Market

Issue Number: 36600

If no vega market value is calculated, the **Vega Market** column in the **Portfolio** window now displays the **Vega** value.

Book Affected: Portfolio Management Guide

3.14.h Volatility Derivatives Columns

Issue Number: 31370

A new column group, **Volatility Derivatives**, has been added to the **Portfolio** window. The **Volatility Derivatives** column group contains the following columns:

- **Future Correlation**
- **Future Gamma**
- **Future Variance**
- **Future Volatility**
- **Realized Correlation**
- **Realized Gamma**
- **Realized Variance**
- **Realized Volatility**
- **Total Correlation**
- **Total Gamma**
- **Total Volatility**
- **Variance Days**
- **Variance Days Remaining**
- **Variance Days Triggered**
- **Vega Notional**
- **Vega Notional Outstanding**
- **Volatility Strike**

Book Affected: Portfolio Management Guide

3.14.i Security Finance Columns

Issue Number: 42203

The column group, **Security Finance**, now displays values for the following instruments:

- shares — the following columns display values for shares:
  - **SF Accrued Equity Performance**
  - **SF Realized Equity Performance**
  - **SF Realized Dividend**
- debt instruments — the following columns display values for debt instruments:
  - **SF Unrealized IR Fixing**
  - **SF Accrued Interest Rate**
  - **SF Realized Interest Rate**
- stock loans— the following columns display values for stock loans:

- **SF Accrued Spread**
- **SF Accrued Interest Rate**
- **SF Realized Spread**
- **SF Realized Interest Rate**
- **SF Realized Dividend**
- **SF Unrealized Dividend**
- **SF Unrealized IR Fixing**
- **SF Unrealized Spread**

• repos — the following columns display values for repos:
  - **SF Accrued Spread**
  - **SF Accrued Interest Rate**
  - **SF Realized Spread**
  - **SF Realized Interest Rate**
  - **SF Realized Dividend**
  - **SF Unrealized IR Fixing**
  - **SF Unrealized Spread**

Book Affected: Portfolio Management Guide

3.14.j Bump Market Plots

Issue Number: 36600

The **Bump Market Plots** check box has been moved from the **Forex** tab of the **Preferences** window to the **Volatility** tab.

As of this release, selecting this check box has the following effect in the **Future Analysis Vega** analysis:

- The vega market value is displayed instead of the vega value.

As of this release, selecting this check box has the following effects in the **Risk Matrix** analysis:

- The vega market value is displayed if it is computed. If the vega market value is not available, the vega value is displayed.
- If the **Volat** value is selected from the drop-down list of one of the axes, a market bump is applied to **Fx Cubic Spline**, **Commodity Delta Volatility**, or **LME Delta Volatility** volatilities. A standard bump is applied to other volatilities.

Book Affected: Portfolio Management Guide

3.14.k Barrier Adjustment in Delta Adjustment Analysis

Issue Number: 51043

The sign of the value in the **Barrier Adjustment** column in the **Delta Adjustment** analysis now indicates if a buy or sell deal is required to hedge the portfolio. This column displays the difference between the delta just after the barrier level and the delta before the barrier level.

For example, if the delta of an option is positive, you should hedge your portfolio by selling at the spot price. If the barrier is reached, the delta of the option becomes negative and you should buy at the spot price. The **Barrier Adjustment** value in the **Delta Adjustment** analysis now displays a positive value to indicate that a buy deal is required.

Book Affected: Portfolio Management Guide

3.14.l Futures in Parametric VaR

Issue Number: 40913

The following enhancements have been made for futures in the **Parametric VaR** analysis:

- Volatility and correlations are calculated using the following:
  - The historical last price of futures is calculated as 100 minus the last price.
  - The last price is used for of all Brazilian futures.
- For days for which a last price is not defined, the following prices are now used:
  - The theoretical price of futures is used.
  - The yield-to-maturity (YTM) of Brazilian futures is used.
- The **Parametric VaR** analysis now uses the following to calculate the breakdown:
  - Futures — forward rate
  - Brazilian futures — Yield-to-maturity (YTM)
  - Bonds — dirty price
  - Swap — swap rate
  - Libor or constant-maturity-spread (CMS) rates — current rate

Note Brazilian futures are futures defined with the **DI Future** model.

A new global preference, `OldFutureHistoVol`, has been added to the `RISKPREF` table. This preference determines how the last price of futures is used to calculate volatility and correlations in the analysis.

This preference can be set as follows:

- `0` — volatility and correlations are calculated using the historical last price of futures calculated as 100 minus the last price. The forward rate of futures is used for breakdown calculations.
- `1` — volatility and correlations are calculated using the last price of futures. The dirty price of futures is used for breakdown calculations

For more information, see the *Sophis Financial Models Reference Guide*.

3.14.m Parallel Forecast

Issue Number: 50941

The following warning message is displayed if another instance of the forecast process is launched before the first instance stops:

```
A forecast is running in a different instance.
Do you want to launch it anyway?
Selecting Yes may generate unpredicted tickets, even in the other
instance(s). Use with great care.
Selecting No will recheck and possibly display this warning again.
```

The warning message provides the following options:

- **Yes** — runs another instance of the forecast process. Running multiple instances of the forecast process is not recommended because it may generate unexpected results.
- **No** — checks if the instances that are already running have stopped and then launches the forecast process. If another instance is still running, then the same warning message is displayed.
- **Cancel** — does not run another instance of the forecast.

Important The database changes implemented for this enhancement require that the following command is executed before upgrading the database:

```
GRANT EXECUTE ON DBMS_LOCK TO SOPHIS_USER;
```

For more information, see *Managing Forecasts on page 57*.

3.14.n Credit Risk with Zero Coupon Spread

Issue Number: 43097

As of this release, credit risk sensitivity is calculated for bonds with the spread type **Zero Coupon Spread**. This occurred only if **Market Curve** was selected in the **Portfolio Sensitivity wrt** drop-down list of the **Credit** tab of the **Preferences** window.

Prior to this release, credit risk for these types of bonds was not calculated for the **Portfolio** window or in the **Credit Hedge** portfolio analysis.

To calculate credit risk, the bond must have an issuer with credit data defined.

In addition, a global preference, `ZCSpreadWithoutMarketSensitivity`, has been added to the RISKPREF table.

This preference has the following settings:

- 0 — credit risk sensitivity for bonds with the spread type **Zero Coupon Spread** is calculated. This is the default.
- Any positive integer other than zero — credit risk sensitivity for bonds with the spread type **Zero Coupon Spread** is not calculated.

Book Affected: Administration Guide

3.14.o Breakdown Explanation for Parametric VaR

Issue Number: 39054

A new button, **Breakdown**, has been added to the **Parametric VaR** window. Clicking this button opens the **Breakdown Explanation** window which shows the first and second order sensitivities of the instruments in your breakdown list. These are the delta and gamma sensitivities, respectively.

Figure 3-9 shows the **Breakdown Explanation** window:

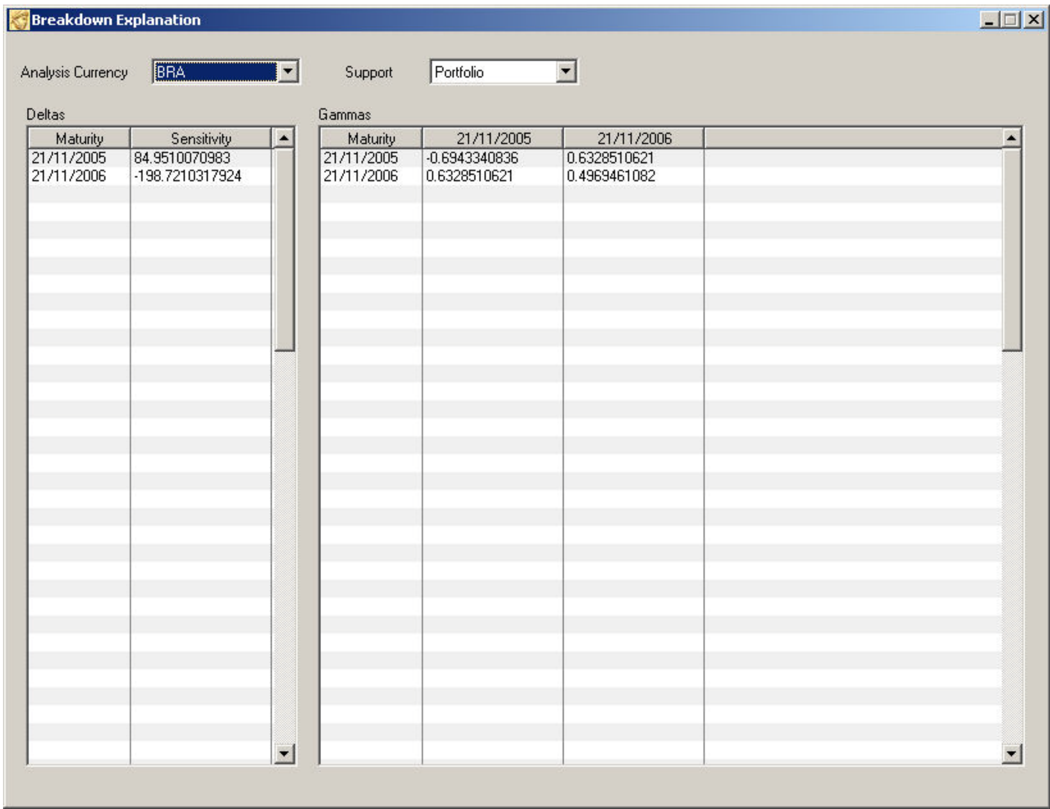


Figure 3-9 Breakdown Explanation Window

Book Affected: Portfolio Management Guide

3.14.p Repayment Line in the Line Picking Window

Issue Number: 49078

A new type of line, repayment, has been introduced in the **Line Picking** window for ABS bonds. A repayment line is green and is for information purpose only. It contains the following information:

- The **Quantity** column displays the quantity in the original ABS bond deal.
- The **Price** column contains the deprecation amount in percentage. This is calculated as the pool factor change * 100.

For more information, see the *Portfolio Management Guide*.

Book Affected: Portfolio Management Guide

3.14.q P&L in Alternate Currency

Issue Number: 45864, 49479, 49600, 51086, 51148

P&L can now be displayed in an alternate currency in the **Portfolio** window. The alternate currency is compared to the instrument currency with the relevant exchange rate taken into account.

A global preference, `Currency FX P&L`, has been added to the `RISKPREF` table to define the alternate currency. Define this preference with the currency code to set the alternate currency.

These columns have been added to the **Result (advanced)** portfolio column group and are also available as **Dynamic P&L Freeze** columns.

The following columns have been added for this enhancement:

- **Average Price CCY** — the average price expressed in the alternate currency. This value is calculated as a weighted sum of deals. This value is dependent on the reporting method used.
- **Income CCY** — the total income of the position in the alternate currency. This is dependent on the reporting and the instrument type. In general, it is equal to the following equation:

```
dividends or coupons * forex rate the day the income
was received.
```

- **Income Equity** — the total income of the underlying in the alternate currency.
- **Realized CCY** — the total realised of the position in the alternate currency.
- **Realized Equity** — the total realised of the underlying in the alternate currency. In general, it is equal to the following equation:

```
realised * forex rate on the day the position was
closed.
```

- **Unrealized CCY** — the total unrealised of the position in the alternate currency. In general, it is equal to the following equation:

```
[last or theoretical} * last forex - average price ccy.
```

- **Unrealized Equity** — the unrealised in the alternate currency, without the forex change. In general, it is equal to the following equation:

```
unrealised * last forex rate.
```

- **Unrealized Fx** — the unrealised forex at the current date. Listed in the alternate currency. In general, it is equal to the following equation:

```
unrealised ccy - unrealised equity.
```

- **Realized Fx** — the realised forex change. Listed in the alternate currency.

- **Realized Income —** the realised income listed in the instrument currency. The income from closed positions and coupons paid.
- **Other Fx P&L** — the P&L for the virtual forex positions in the alternate currency.

Book Affected: Administration Guide, Portfolio Management Guide

3.14.r All-In Price of Bond Repos

Issue Number: 46724

As of this release, the **All-In Spot** and **Accrued** values of bond repos do not change if the dates of the bond repo deal are modified.

3.14.s Global Preference for Forecast

Issue Number: 51161

As of this release, a new global preference, `ForecastWarningSchemaName`, has been added to the RISKPREF table. This preference contains the name of the database schema that is checked if the forecast process is run. If multiple instances of the forecast process are run on the specified database schema then a warning message is displayed.

There is no warning displayed if the forecast is run in batch mode. However, it is possible to prevent the forecast process from running if there is another forecast process already running on the same database schema. To do so, use the `-noParallelForecasts` parameter in batch mode.

Book Affected: Administration Guide

3.14.t Interest-Rate Automatic Tickets

Issue Number: 42143

Interest-rate automatic tickets can now be generated on the end date of the interest-rate leg cash flow if the frequency of the interest-rate leg is greater than the frequency of the asset leg of the swap.

Previously, it was necessary to generate and transmit a reset automatic ticket before an interest-rate ticket could be generated.

3.14.u Position IDs in Position Link Extractions

Issue Number: 48649

Position IDs are now displayed in the **Ident** column of position link extractions.

Note The **Keep Position Ident** check box in the **Criteria for Extraction** dialog box must be selected for the extraction.

Book Affected: Portfolio Management Guide

3.14.v Stock Loan Basket Position Link

Issue Number: 40924

Stock loan contracts created from a stock loan on basket booking are linked using the Position Link functionality. The name of the position link is the name specified in the **Basket Name** text box of the **Stock Loan / Repo Input** window.

Book Affected: Advanced Stock Loan Guide

3.14.w Security Finance Columns for Stock Loans

Issue Number: 38874

Security finance columns are now available for stock loans and repos. For more information, see the *Portfolio Management Guide*.

Book Affected: Portfolio Management Guide

3.14.x Fast P&L Buffer Window

Issue Number: 36928

The **Fast P&L Buffer Window** has been improved in this release.

This window now displays the following:

- **Instrument Name** — the name of the position's instrument.
- **Type of last calculation** — the type of the last P&L calculation.
- **Time of last full calculation** — the time at which a full P&L calculation was performed on the position.
- **Theoretical Value** — the most recent theoretical price.
- **Delta/Gamma/Vegas** and **Rhos** tabs — displays the greeks calculated if greek effects are enabled.

  These are calculated if the **Use Vega**, **Use rho**, and **Use Forward** check boxes are selected in the **Preferences** dialog box. See *Greek Effects in Fat P&L Calculations on page 148*.

Figure 3-10 shows the **Fast P&L Buffer Window**:

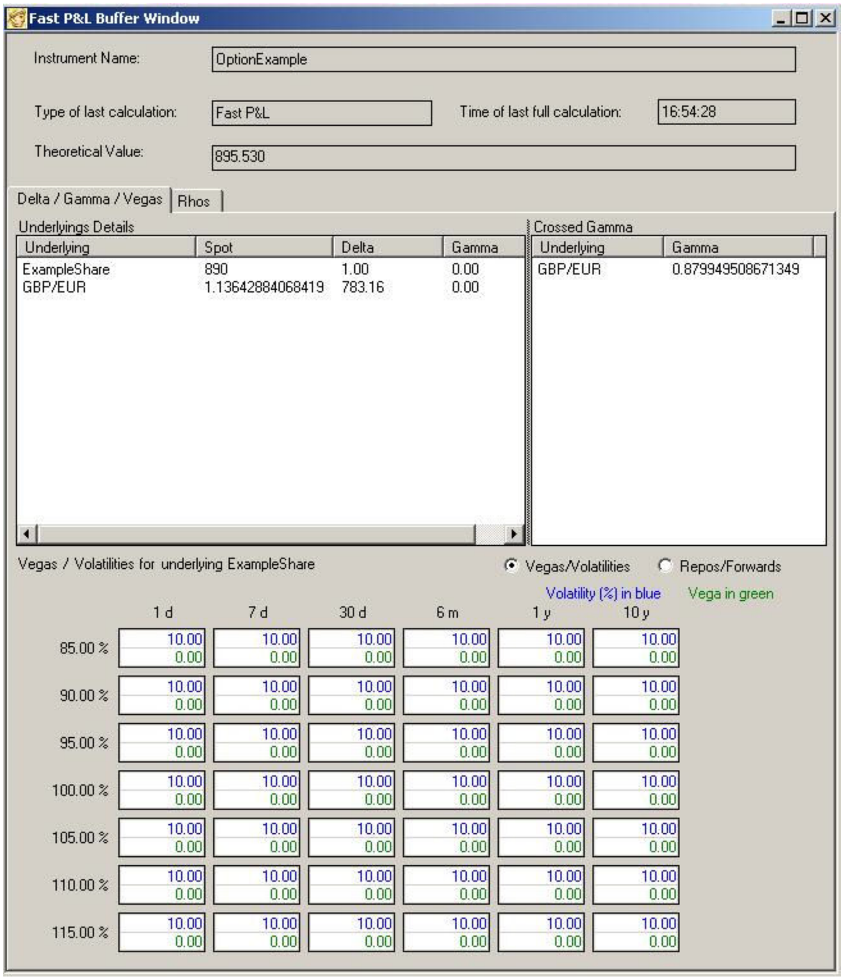


Figure 3-10 Fast P&L Buffer Window

Book Affected: Portfolio Management Guide

3.14.y Greek Effects in Fat P&L Calculations

Issue Number: 36928

The following new check boxes have been added to the **Optimisations** tab of the **Preferences** dialog to calculate greek effects with fast P&L calculations:

- **Use Vega** — the vega effect, calculated as the total of the pure volatility, volatility smile, and volatility time effects.
- **Use rho** — the rho effect, calculated as the change in the interest rate since the last End of Day procedure.
- **Use Forward** — the forward effect, calculated as the change in the repo rate since the last End of Day procedure.

Book Affected: Administration Guide, Portfolio Management Guide

3.14.z Automatic Trades Refresh

Issue Number: 49805

The **Automatic Trades** window is no longer automatically updated with new tickets that were created in the same or different instances. This improves the performance of the application and avoids unnecessary refreshes of this window.

To do this, the following enhancements have been made:

- The **Refresh** button has been added to the toolbar of the **Automatic Trades** window.

Note This button is only enabled if the data in the **Automatic Trades** window is out of date.

- A message, **[stale data, refresh needed]**, is now displayed on the title bar of the **Automatic Trades** window if the data in the window is out of date and needs refreshing.

  Figure 3-11 shows the title bar of the **Automatic Trades** window with this message:

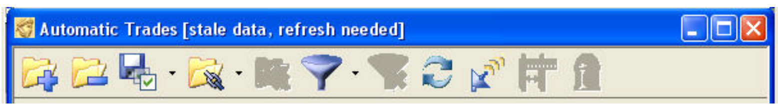


Figure 3-11 Refresh needed

Book Affected: Portfolio Management Guide

3.14.aa Fast P&L Warnings

Issue Number: 51462

As of this release, warnings generated by fast P&L calculations are displayed in the **Events** window. In previous release, these warnings were written to the log file.

3.15 Pricing

3.15.a Correlation Swap Tab Payoff Formula

Issue Number: 50055

The **Payoff Formula** dynamic field of the **Correlation Swap** tab of the **Swap** window is now displayed in LaTeX. It was previously displayed in plain text.

Book Affected: Instrument Reference Guide

3.15.b Correlation Swap Pricing Model

Issue Number: 49972

A new check box, **Remove Average from Returns**, has been added to the **Correlation Swap** tab of the **Swap** window. The **Remove Average from Returns** check box defines whether or not the variance and covariance are computed without removing the average return.

Book Affected: Instrument Reference Guide

3.15.c Correlation Swap Correlation Boundaries

Issue Number: 50009

A new check box, **Is Realized Correlation Bounded?** has been added to the **Correlation Swap** tab of the **Swap** window. The **Is Realized Correlation Bounded?** check box defines whether or not the realized correlation is bound by a minimum and maximum value.

If the **Is Realized Correlation Bounded?** check box is selected, the following text boxes are also displayed:

- **Min Correlation (%)** — defines the minimum correlation value, in percentage, by which the realized correlation is bound.
- **Max Correlation (%)** — defines the maximum correlation value, in percentage, by which the realized correlation is bound.

3.15.d Package Pricing Between Ex-Maturity and Maturity

Issue Number: 51570

A new global preference, `PACKAGE_PRICING_AT_MATURITY`, has been added to the `RISKPREF` table. This preference determines how RISQUE sets the price of a package between the ex-maturity and the maturity dates.

Set this preference to one of the following:

- `0` — the price of a package is set to zero between the ex-maturity and the maturity dates. This is the default value.
- `1` — the price of a package is not set to zero between the ex-maturity and the maturity dates.

Book Affected: Administration Guide

3.16 Reporting Module

3.16.a Commission and Interest for Stock Loan Report

Issue Number: 46474

The following drop-down lists have been added to the **Source Data** tab in the **Report Template** for stock loan and repo source types:

- **Commission**
- **Interest**

These drop-down lists replace the **interest and commissions** check box, and enable you to specify whether the report contains standard, daily, or no commission/interest information.

Book Affected: Reporting Module

3.17 User Rights

3.17.a Position Link User Right

Issue Number: 48646

The following user right has been added to the **FO Portfolio** tab of the **User Definition** and **Group Definition** windows:

- **Position Link**

The **Position Link** user right determines whether or not users can create and delete position links.

Book Affected: Administration Guide

3.17.b Margin Call User Rights

Issue Number: 46848, 45902

As of this release, the following two user rights have been added to the **Collateral Management** tab of the user rights dialog.

- **Cash Margin Call —** specifies whether the user can perform cash margin calls from the context menu of the **Detailed Limits Report**, **Collateral Limits Calculation**, and **Stock Loan and Repo Mgt** windows.
- **Securities Margin Call —** specifies whether the user can perform securities margin calls from the context menu of the **Detailed Limits Report**, **Collateral Limits Calculation**, and **Stock Loan and Repo Mgt** windows.

Book Affected: Collateral Management Guide

3.17.c Nostro Management User Right

Issue Number: 50218

The **Account corporate actions** user right has been removed from the **Nostro Management** tab of the user rights dialog. This user right has been deprecated.

Book Affected: Back Office Guide

Chapter 4 Servers in 5.3.6

This chapter describes the changes made in RISQUE 5.3.6 which affect the Sophis servers. These changes were made for the following servers:

- Data Synapse Integration
  - *Corrected Bugs in Data Synapse Integration on page 153*
- Memory Cache Server
  - *Corrected Bugs in Memory Cache Server on page 154*
- Integration Service
  - *Enhancements in Integration Service on page 154*
- Calculation Server
  - *Corrected Bugs in Calculation Server on page 155*
- Data Service
  - *Corrected Bugs in Data Service on page 155*
  - *Enhancements in Data Service on page 156*
- Fair Value Server
  - *Corrected Bugs in Fair Value Server on page 157*

4.1 Corrected Bugs in Data Synapse Integration

4.1.a Distributed Monte Carlo Calculations

Issue Number: 42364

The distribution of Monte Carlo calculations in the Data Synapse Integration was incorrect for instruments created with the Excel structure builder if the following was true:

- **Reporting (F9)** was performed.
- The instruments were calculated by selecting **Validation** in the **Derivative** dialog.

4.2 Corrected Bugs in Memory Cache Server

4.2.a Dynamic P&L Columns

Issue Number: 47548

As of this release, it is possible to cache data from dynamic P&L columns with the Memory Cache Server. To do this, set the `withDynamicPnl` parameter in the `[Cache]` section of the **`MemoryServer.ini`** file.

This parameter has the following settings:

- `true` — dynamic P&L columns are cached.
- `false` — dynamic P&L columns are not cached.

Important Dynamic P&L columns are defined for each user and stored as unique entries in the `DYNAMIC_PNL_FREEZE_COLUMNS` table. As a result, if many dynamic columns are defined, the performance of the Memory Cache Server will be affected.

4.3 Enhancements in Integration Service

4.3.a Updating Convertible Bonds

Issue Number: 45445

It is now possible to update convertible bonds using the `persistenceType` attribute.

4.3.b Drill Down Level in Extraction Valuations

Issue Number: 44976

It is now possible to specify the portfolio level at which results are returned by using the `drillDownLevel` attribute in extraction valuations. For information on this attribute, see the *Integration Service User Guide*.

4.4 Corrected Bugs in Calculation Server

4.4.a Calculation Manager Rejections

Issue Number: 51924, 51806

An MFC error was displayed if a remote calculation was performed and a connection to the Calculation Manager could not be made. As of this release, if RISQUE cannot contact the Calculation Manager, a message is displayed prompting you to perform the calculation locally.

4.4.b Indexes Arbitraged with Futures

Issue Number: 43539

Calculations were rejected for indexes that were defined with a future as the arbitrage instrument. This only occurred if the **No Implied Spot** check box was not selected on the **Model** tab in the **Preferences** dialog.

This occurred because the calculation was delayed until the implied spot price was calculated.

4.4.c P&L for Inflation Instruments

Issue Number: 48465, 42811

The P&L amount calculated by the Calculation Server was incorrect for positions on inflation instruments if the inflation curve was updated by a real-time feed. This occurred if the real-time feed was disabled before the P&L was calculated.

4.5 Corrected Bugs in Data Service

4.5.a Extractions Error Message

Issue Number: 49186

The following error message was displayed, and the scenario failed, if a scenario was run as part of a batch file in RISQUE:

```
Failed to initialize application (Not Scheduler mode)
```

4.5.b Instrument Ratings Error

Issue Number: 51233

The rating agencies and ratings of instruments were incorrectly deleted if the following conditions were true:

1 A rating agency and rating was manually created in the **Ratings** window of an instrument.

2 The instrument was updated using Bloomberg source.

3 The Bloomberg source did not return an update for the rating agency.

4 A conflict was accepted in the Data Service Scheduler.

4.5.c Scheduler Updates

Issue Number: 47428

Updates were not performed by the Data Service if the following conditions were true:

1 An update was scheduled in the Data Service Scheduler.

2 A specific time was entered as the time of update, that is the default update time was modified.

3 The Data Service Scheduler entries were saved.

4.6 Enhancements in Data Service

4.6.a Updating Sectors

Issue Number: 47865

Sectors can now be updated by Reuters DataScope Select source using only the sector code. Previously the following values were required to update a sector:

- the name of the sector
- the path of the sector in RISQUE

To update sectors using the Reuters DataScope Select source, the following folders must be created in the **Sectors** window in RISQUE:

- **Reuters Country of Incorporation**
- **Reuters RBSS**

4.7 Corrected Bugs in Fair Value Server

4.7.a Portfolios with Fair Value Server

Issue Number: 49803

Fair Value Server calculations were not performed if the **Do Not Load All Portfolios** check box was cleared in the **General** tab of the **Preference** window. All calculations were performed locally.

Chapter 5 Toolkit Changes in 5.3.6

This chapter describes the toolkit changes in RISQUE 5.3.6. These changes were made in the following areas:

- *Corrected Bugs on page 159*
- *Enhancements on page 161*
- *.NET on page 163*
- *RiskCOM on page 164*
- *Additions and Alterations on page 164*

Important You must recompile your Toolkit projects against the new API.

5.1 Corrected Bugs

5.1.a CSRHistorisedMarketData

Issue Number: 36200

The `CSRHistorisedMarketData` function always returned the default yield curve of the currency instead of the curve specified by the function.

Files affected: Sophis.dll

5.1.b Redundant Methods

Issue Number: 49727

The following methods were not used and did not function correctly:

- `static long GetMarginCallAccount`
- `static bool SupportCrossCurrency`
- `static long GetDutyStampAccount`
- `static long GetBankAccount`
- `static long GetTaxCreditAccount`
- `static int GetNumberOfDigitForCounterparties`
- `static long GetBrokerFeesAccount`
- `static long GetBrokerProductAccount`

These methods have been removed.

5.1.c GetListedMarketClass()

Issue Number: 49241

The following method is now declared as a const:

- `GetListedMarketClass()`

5.1.d Inflation Methods

Issue Number: 46958

The following inflation methods were not called in RISQUE:

- `CSRInflationEvent`
- `CSRInflationCurveEvent`
- `CSRInflationRuleEvent`

5.1.e Unable to Toolkit Stock Loan and Repo Input

Issue Number: 43601

Toolkitted fields were not saved in the **Stock Loan and Repo Input** dialog if the fields were created or modified using the toolkit. This applied to all toolkitted fields in the dialog.

5.1.f NCD Dialog and One Deal Blotter

Issue Number: 32763

RISQUE behaved unpredictably if the following methods associated with the NCD dialog and NCD one deal blotter were overloaded:

- `TransactionDialog`
- `instrumentDialog`

5.1.g checkCondition Parameter Error

Issue Number: 42799

The `lineID` and `thirdPartyID` parameters always returned -1, regardless of whether the condition returned was true or false.

5.2 Enhancements

5.2.a Documentation

The Financial Integration Toolkit documentation for RISQUE 5.3.6 is available for download from the Sophis Toolkit Forum and Sophis Client Site. It is no longer delivered with the RISQUE installation package.

5.2.b Transmitting Individual Automatic Tickets

Issue Number: 49082

As of this release, it is possible to transfer individual automatic tickets, using the methods defined in the `CSRTransferTrade` class. For more information, see the Financial Integration Toolkit documentation.

5.2.c Vega Market with Market Bumps

Issue Number: 50308

The following new methods were added to take market bumps into account in the calculation of the vega market value:

- `CSRInstrument::GetVegaMarket`
- `CSRMetaModel::GetVegaMarket`

These methods were added to the following files:

- `SphInstrument.h` in the `instrument` namespace.
- `SphVolatility.h` in the `market_data` namespace.

5.2.d Cash Per Account with the Toolkit

Issue Number: 51555

The following methods were added to the `CashInterface` class to launch the **Cash per Account** report with the toolkit:

- `static void SetBOStatusGroupForCashReports(long groupId);`
- `static void ResetBOStatusGroupForCashReports();`
- `static _STL::string GetSQLBOStatusFilter();`

5.2.e Back Office Status Group Specified by Toolkit

Issue Number: 51389

The `SetStatusGroupOfDealsInPortfolio(long)` method is now available in `CSRPreference`, which enables the definition of a back office status group to be taken into account in the portfolio.

5.2.f Method to Create Stock Loan Deals

Issue Number: 47134

The `NewMvtXMLExt` method is now available in **`folioheir.h`**. This method enables you to create stock loan transactions using the toolkit.

5.2.g GUI Method Exception

Issue Number: 48235

The exceptions thrown if a GUI method is used in batch mode are now more detailed. For example, in previous releases the following error message was displayed:

```
method not implemented in API
```

As of this release, the following error message is displayed instead:

```
SendException : Function InfosTitres is not implemented in API
```

5.2.h Comments for CSREvent

Issue Number: 36912

The comments for `class SOPHIS_FIT CSREvent` have been improved in this release.

5.2.i Portfolio User Rights

Issue Number: 50750

A new method, `SetFolioCodeCheckRights` has been added to the `CSRTransaction` class of the `SphTransaction.h` header file.

This method checks the user rights before allowing a user to book a deal in a portfolio.

5.2.j Deal Input Window Control Error

Issue Number: 35455

RISQUE did not check the rules of the back-office workflow if the following conditions were true:

1. A new control was added to the **Deal Input** window using the Toolkit.
2. The value of the new control was modified.

As of this release, the rules of the back-office workflow are checked each time a value is modified on the **Deal Input** window.

5.2.k Limits Calculation Preference

Issue Number: 42233

It is now possible access the **Use Collateral Reporting Start/End Date Conventions in Limits Calculation** preference using the toolkit. This is changed in `SphPreference.h`.

5.3 .NET

5.3.a CSRAccountingQuantity

Issue Number: 51535

It was not possible to call overloaded methods in the `CSRAccountingQuantity` class.

5.4 RiskCOM

5.4.a CreateInstance

Issue Number: 48217

To ensure proper functioning of the API, RiskCOM does not release objects created by the `CreateInstance` method. This can cause a memory leak to occur.

A new method, `ReleaseInternalObject`, has been added to enable the release of objects created by this method.

5.5 Additions and Alterations

Changes were made in the following namespaces:

- *accounting on page 164*
- *backoffice_cash on page 166*
- *backoffice_kernel on page 167*
- *collateral on page 167*
- *commodity on page 172*
- *gui on page 178*
- *inflation on page 179*
- *instruments on page 180*
- *misc on page 186*
- *portfolio on page 186*
- *scenario on page 190*
- *sophis on page 190*
- *static_data on page 191*
- *tools on page 192*

5.5.a accounting

SphAccountingEngine.h

The following were added to `CSRAccountingMvt` in this release:

- `virtual void ShootAgain()`
- `mutable bool fToShootAgain;`

SphAccountingPosting.h

The following was added to `SSFinalPosting` in this release:

- `double fAmountOriginalCurrency;`

SphAmortizingEngine.h

The following was added to `CSRAmortizingAmount` in this release:

- `double quantity`

SphAuxiliaryLedger.h

The following were added in this release:

- `struct AuxiliaryData {}`
- `const AuxiliaryData &alData,`

The following were removed in this release:

- `long lTab4[4]`
- `long AmortizingRuleID`

The following was changed in this release:

- `long l3` was changed to `long date`

SphEnums.h

The following type was added to the `eAccountType` enumeration in this release:

- `atTechnical`

The following types were added to the `eTypeReversal` enumeration in this release:

- `trUnrealizedEq`
- `trUnrealizedEqFx`

SphForexRule.h

The following were added in this release:

- `CSRForexRule();`
- `virtual double get_amount (bool &notYetFixed)`
- `static void InvalidCache();`
- `long fForexPlace;`
- `static long gCachCount;`
- `virtual double get_amount();`

The following was removed in this release:

- `bool useTrade`

The following was changed in this release:

- `static CSRForexRule* getInstance( const char* modelName )` was changed to `static CSRForexRule* getInstance( const char* modelName, long forexPlace )`

5.5.b backoffice_cash

CSSCPDataEngineBase.h

The following were added in this release:

- `class CSFilterMemorySCP;`
- `CSFilterMemorySCP* fFilter;`

SphInstruction.h

The following was added to `CSRInstruction` in this release:

- `double getInstrumentNotional() const;`

SphSettlementRuleCondition.h

The following were changed in this release:

- `virtual bool checkCondition(const sophis::portfolio::CSRTransaction* trans, int lineNumber = -1, long thirdPartyID = -1) const = 0;` was changed to

  `virtual bool checkCondition(const sophis::portfolio::CSRTransaction* trans, long linePriority = -1, long lineID = -1, long thirdPartyID = -1) const = 0;`
- `static bool checkCondition(const char * name, const sophis::portfolio::CSRTransaction* trans);` was changed to

  `static bool checkCondition(const char * name, const sophis::portfolio::CSRTransaction* trans, long linePriority = -1, long lineID = -1, long thirdPartyID = -1);`

5.5.c backoffice_kernel

SphCorporateAction.h

The following types were added to the `type` enumeration in this release:

- `item_swap_ca_adjustment`
- `item_cfd_credit_debit_margin_call`
- `item_cfd_transfer_margin_call`

The following was change in this release:

- `_NUMBER_OF_TYPE_CORPORATE_ACTION_ = item_swap_spread_fees` was changed to
  `_NUMBER_OF_TYPE_CORPORATE_ACTION_ = item_cfd_transfer_margin_call`

SphPostingAmountForTrade.h

The following was added to `CSRPostingAmountForTrade` in this release:

- `virtual double get_posting_amount();`

SphPostingAmountInfo.h

The following was added to `TAccAmountInfo` in this release:

- `double quantityCoeff;`

The following was changed in this release:

- `TAccAmountInfo (long i_third_party, long i_instrument);` was changed to
  `TAccAmountInfo (long i_third_party, long i_instrument, long i_quantityCoeff);`

SphThirdParty.h

The following was added to `CSRThirdParty` in this release:

void GetSWIFT(char *swift) const;

5.5.d collateral

The following files were added in this release:

- `SphCFDForecastHelper.h`
- `SphCollAgreeColumn.h`
- `SphCollateralAgreement.h`
- `SphCollateralLimits.h`
- `SphGlobalMarginCallDialog.h`
- `SphSecuritiesExtraction.h`

- SphSecuritiesProjectionReport.h
- SphSecuritiesReport.h
- SphSecuritiesReportColumn.h
- SphSecuritiesReportCommon.h
- SphSecuritiesReportContextMenu.h
- SphSecuritiesReportCriteria.h
- SphSecuritiesReportCriteriaKey.h
- SphSecuritiesReportFactory.h
- SphSecuritiesReportFilter.h
- SphSecuritiesReportGenericCriteria.h
- SphSecuritiesReportParam.h
- SphSecuritiesReportResult.h
- SphStockLoanContract.h
- SphStockLoanContractColumn.h
- SphStockLoanContractEventDialog.h

SphStockOnLoanEnums.h

The following enums were added in this release:

- ePEAgreementNameRef
- ePEOperationNameLabel

SphCFDReportingAPI.h

The following have been added in this release:

- struct SCFDCalculationResults;
- struct SCollateralIndicatorDetails;
- struct CFDReportIndicatorDetails : public SCollateralIndicatorDetails {double fFreeCashAmt; };
- static void sGetCfdForecastResult(const CSRLBAgreement *lba, long reportingDate, sophis::portfolio::CSRExtraction* extr, CFDReportIndicatorDetails* detailedResults);
- SCFDCalculationResults* fCfdReportingResult;

SphCFDResult.h

The following was added in this release:

- eCFDFreeCashGroup
- eCFDFreeCash
- long fLastMarginDate;
- _STL::set<long> collCashVirtualMvt;
- CashCollateral *fFreeCashAcc;
- CSRCashInterestExplanationList *fFreeCashInterestExplanationList;

- `double fFreeCashValue;`
- `const CSRCashInterestExplanationList* GetFreeCashInterestExplanationList() const;`
- `long GetFreeCashPoolCurrency() const;`
- `long GetFreeCashPoolInterestRate() const;`
- `double GetFreeCashValue() const { return fFreeCashValue; }`
- `void SetCollCashVirtualMvt(_STL::set<long> &mvtSet); _STL::set<long> GetCollCashVirtualMvt() const{return collCashVirtualMvt;}`
- `inline long GetLastMarginDate() const { return fLastMarginDate; }`
- `double GetFreeCashValueHdr(const CSRCFDResult *parent = NULL);`

SphCollateralEnums.h

The following enums were added in this release:

- `etNone`
- `etStandard`
- `etDetailed`
- `enum eFreeCashMovementType`
- `eFreeCashMovementNone`
- `eFreeCashMovementCreditDebit`
- `eFreeCashMovementTransfer`
- `eFreeCashMovementLast`
- `enum eLOIndicators`
- `eloiMarketSpread`
- `eloiMarketRebate`
- `eloiMaturityDate`
- `eloiDaysToMaturity`
- `eloiExCouponDate`
- `eloiNextCouponPay`
- `enum eMiscCollateralConstants`
- `GLOBAL_MC_FIELD_LENGTH`

SphCollateralIndicatorAPI.h

The following were added in this release:

- `struct SSReportingTrade`
- `virtual bool GetCondition (const sophis::portfolio::CSRPosition*& pos, const CSRLBAgreement* lba = 0, long date = 0) const = 0;`
- `virtual bool GetCondition (const sophis::portfolio::SSReportingTrade*& deal, const CSRLBAgreement* lba = 0, long date = 0) const { return true; }`

SphCollateralPoolReportingAPI.h

The following were added in this release:

- `SCollateralPoolReportingParameters(const SCollateralPoolReportingParameters& copy);`
- `virtual SReportingParameters* Clone() const { return new SCollateralPoolReportingParameters(*this); }`

SphCollateralReportingAPI.h

The following were added in this release:

- `SReportingParameters(const SReportingParameters& copy) : fFlags(copy.fFlags) {}`
- `virtual SReportingParameters* Clone() const { return new SReportingParameters(*this); }`

SphCollateralScheduler.h

The following were added in this release:

- `double GetIndicator(eLOIndicators type) const;`
- `inline void SetGenerationDate(long date) { fGenerationDate = date;}`
- `long fGenerationDate;`

SphCommissionExplanation.h

The following were changed in this release:

- `inline double GetCommissionPaidSettlementDate() const { return fCommissionSettlementDate; }`

  was changed to

  `inline long GetCommissionPaidSettlementDate() const { return fCommissionSettlementDate; }`
- `inline void SetCommissionPaidSettlementDate(double commissionPaid) { fCommissionSettlementDate = commissionPaid; }`

  was changed to

  `inline void SetCommissionPaidSettlementDate(long commissionSettlementDate) { fCommissionSettlementDate = commissionSettlementDate; }`

SphLBAgreement.h

The following was removed in this release:

- `virtual long GetSufficiencyLimit() const throw(CSRCollateralException);`
- `virtual void SetSufficiencyLimit(long limit) const throw(CSRCollateralException);`

The following were changed in this release:

- `virtual void SetAccruedInterestIncluded(bool val);`
  was changed to
  `virtual void SetAccruedInterestIncluded(eAccruedInterestCommission val);`
- `virtual bool IsReturnWithInitialValues() const;`
  was changed to
  `IsReturnWithInitialValues() const { return (GetReturnWithInitialValues() == eprWithInitialValues); }virtual ePartialReturn GetReturnWithInitialValues() const;`

The following were added in this release:

- `enum eCFDFreeCashRate`
  `{eCFDFreeCashFloating = 1, eCFDFreeCashFixed};`
- `enum eDefaultAcc`
  `{eDefYes = 1, eDefNo = 2};`
- `enum ePartialReturn`
  `{eprDefault = 0, eprWithInitialValues = 1, eprInPercentage = 2,};`
- `enum eAccruedInterestCommission`
  `{eaicNone = 0, eaicInterestOnly = 1, eaicCommissionOnly = 2, eaicInterestAndCommission = 3,};`
- `virtual long GetSufficiencyLimit() const throw(CSRCollateralException);`
- `virtual void SetSufficiencyLimit(long limit) const throw(CSRCollateralException);`
- `virtual long GetCashSufficiencyLimit() const throw(CSRCollateralException);`
- `virtual void SetCashSufficiencyLimit(long limit) const throw(CSRCollateralException);`
- `virtual long GetTimeSufficiencyLimit() const throw(CSRCollateralException);`
- `virtual void SetTimeSufficiencyLimit(long limit) const throw(CSRCollateralException);`
- `virtual bool IsMarkSpot() const;`
- `virtual void SetMarkSpot(bool val);`
- `virtual long GetDefaultCollateralCashAccCurrency() constthrow (CSRCollateralException);`
- `virtual long GetDefaultCollateralCashAccRate() constthrow (CSRCollateralException);`
- `virtual int GetDefaultCollateralCashLine() constthrow (CSRCollateralException);`
- `virtual eDefaultAcc GetIsCollateralCashLineDefault(int line) const throw (CSRCollateralException);`
- `virtual long GetCFDFreeCashFolio() const;`
- `virtual void SetCFDFreeCashFolio(long folioId);`

- `virtual void GetCFDFreeCashFrequency(char* str, int size) const;`
- `virtual void SetCFDFreeCashFrequency(const char* str);`
- `virtual double GetCFDFreeCashFloatRateSpreadLong() const throw(CSRCollateralException);`
- `virtual void SetCFDFreeCashFloatRateSpreadLong(double spread) throw(CSRCollateralException);`
- `virtual double GetCFDFreeCashFloatRateSpreadShort() const throw(CSRCollateralException);`
- `virtual void SetCFDFreeCashFloatRateSpreadShort(double spread) virtual double GetCFDFreeCashExpThreshold() const`
- `virtual double GetCFDFreeCashExpThreshold() const throw(CSRCollateralException);`
- `virtual void SetCFDFreeCashExpThreshold(double exp) throw(CSRCollateralException);`
- `virtual eCFDFreeCashRate GetCFDFreeCashRateType() const throw(CSRCollateralException);`
- `virtual void SetCFDFreeCashRateType(eCFDFreeCashRate type) throw(CSRCollateralException);`
- `virtual double GetCFDFreeCashFixedRate() const throw(CSRCollateralException);`
- `virtual void SetCFDFreeCashFixedRate(double rate) throw(CSRCollateralException);`
- `virtual long GetCFDFreeCashFloatRate() const throw(CSRCollateralException);`
- `virtual void SetCFDFreeCashFloatRate(long rate) throw(CSRCollateralException);`
- `MenuHandleGetInterestRatesMenuNoFilter(long currency);`

SphLbaType.h

The following was added in this release:

- `static SOPHIS_FIT const char * ToString(int type);`

5.5.e commodity

The following files were added in this release:

- `SphCommoDeltaVolatility.h`
- `SphOTCClearedSwap.h`

SphPowerFuture.h

The following were changed in `class SOPHIS_COMMODITY CSRPowerFuture` in this release:

- `virtual void StartReporting(long eoy_date, long reporting_date, long portfolio_id, sophis::portfolio::CSRExtraction * extraction) const;`

  has been changed to:

  `virtual void StartReporting(long reporting_date, long portfolio_id, sophis::portfolio::CSRExtraction * extraction) const;`
- `virtual void EndReporting(TViewMvts * position) const;`

  has been changed to:

  `virtual void EndReporting(TViewMvts * position, double fxOfTheDay) const;`

The following was added to `struct SSPowerReporting` in this release:

- `double fRealizedCCY;`

5.5.f finance

SphFastPnlClient.h

The following classes were added in this release:

- `CSRFastPnlInterpolationGrid`
- `FPYieldCurve`
- `FASTPNL FPRho`
- `FPForwardEffect`
- `CSRFastPnlInterpolationGridHandle`
- `FPRhoSource`

The following was made virtual in the `FastPnlMarketData` class in this release:

- `~FastPnlMarketData()`

The following were added to the `FastPnlMarketData` class in this release:

- `virtualconst FPYieldCurve * GetYieldCurve(long code) const;`
- `Virtualconst FPRepo * GetRepo(long code) const;`

The following were added to the `FPGreeks()` constructor:

- `repo0(NULL)`
- `forwardEffect(NULL)`
- `FPRepo*repo0;`
- `FPForwardEffect*forwardEffect;`

The following was changed in the `FPBufferArchiving` class in this release:

- `virtual FPVolatility* DeserializeVolatility(const sophis::tools::CSRArchive& fromArchive) const;`
  was changed to
- `virtual FPVolatility* DeserializeVolatility(long code, const sophis::tools::CSRArchive& fromArchive) const;`

The following was added to the `FPBufferArchiving class` in this release:

- `virtual bool SerializeYieldCurve(const FPYieldCurve* yc,sophis::tools::CSRArchive& toArchive) const;`
- `virtual FPYieldCurve* DeserializeYieldCurve(long code, const sophis::tools::CSRArchive& fromArchive) const;`
- `virtual bool SerializeRho(const FPRho* rho,sophis::tools::CSRArchive& toArchive) const;`
- `virtual FPRho* DeserializeRho(long code, const sophis::tools::CSRArchive& fromArchive) const;`
- `virtual bool SerializeRepo(const FPRepo* repo,sophis::tools::CSRArchive& toArchive) const;`
- `virtual FPRepo* DeserializeRepo(long code, const sophis::tools::CSRArchive& fromArchive) const;`
- `virtual bool SerializeForwardEffect(const FPForwardEffect* fwd,sophis::tools::CSRArchive& toArchive) const;`
- `virtual FPForwardEffect* DeserializeForwardEffect(long code, const sophis::tools::CSRArchive& fromArchive) const;`
- `virtual bool SerializeGrid(const CSRFastPnlInterpolationGrid* grid, sophis::tools::CSRArchive& toArchive) const;`
- `virtual CSRFastPnlInterpolationGrid* DeserializeGrid(const sophis::tools::CSRArchive& fromArchive) const;`

The following type was added to the `eInterpolationMode` enum:

- `eUseForward= 0x20,`

The following was changed in the `FPBufferData` class in this release:

- `virtual voidCopyNoState(FPBufferData& dest);`
  was changed to
- `virtual voidCopyNoState(FPBufferData& dest) const;`

The following was added to the `FPBufferData` class in this release:

- `virtual FPRhoSource* CreateNewRhoSource() const;`
- `_STL::vector<FPRhoSource*> fRhosInfo;`
- `virtual longGetRhoCount() const;`
- `virtual longGetNthRho(int whichCurrency) const;`
- `virtual boolGetRhoIndexInInstrument(long CurrencyCode, int& CurrencyIndex) const;`
- `virtualconst FPRho *GetRho(int whichCurrency) const;`

- `virtualconst FPForwardEffect*GetForwardEffect(int whichUnderlying) const;`
- `virtualconst FPYieldCurve *GetYieldCurve0(int whichCurrency) const;`
- `virtualconst FPRepo *GetRepo0(int whichUnderlying) const;`
- `virtual void SetRho(int whichCurrency, FPRho * in_rho);`
- `virtual void SetForwardEffect(int whichUnderlying, FPForwardEffect * in_forwardEffect);`
- `virtual void SetYieldCurve0(int whichCurrency, FPYieldCurve* in_yieldCurve);`
- `virtual void SetRepo0(int whichUnderlying, FPRepo* in_repo);`
- `virtual void SetRhoSourceCode(int whichCurrency, long codeCurrency);`
- `static FPBufferData::eInterpolationMode fDefaultInterpolationMode;`
- `virtual void Clear(long code);`

The following was added to the `FastPnlServer` class in this release:

- `virtualdoubleGetYieldCurveShift(const FastPnlMarketData & md, const FastPnlBuffer::FPBufferData & data,FPCalculationAdjustment* outAdjust = NULL) const;`
- `virtualdoubleGetRepoShift(const FastPnlMarketData & md, const FastPnlBuffer::FPBufferData & data,FPCalculationAdjustment* outAdjust = NULL) const;`

The following constructors were changed in this release:

- `FPBufferData();fTheoreticalValue(0),fLastBufferUpdate(-1),fToolkitGreek(NULL),fToolkitMarketData0(NULL), fInterpolationMode(eUseDefault){}`

  was changed to
- `FPBufferData();`
- `FPBufferData(long instrumentCode) : FPBufferState(instrumentCode), fLastBufferUpdate(-1),fToolkitGreek(NULL),fToolkitMarketData0(NULL),fInterpolationMode(eUseDefault){}`

  was changed to:
- `FPBufferData(long instrumentCode);`

SphFastPnlEnums.h

The following header was added in this release:

- **`SphFastPnlEnums.h`**

SphBasketSwap.h

The following was added to the `BasketAdjustmentData` class in this release:

- `int fOrder;`
- `int fAdjustmentType;`
- `typedef _STL::map<BasketHistoryKey`

The following was removed from the BasketAdjustmentData class in this release:

- typedef _STL::map<long

The following was removed from the DetailledCalculationWithAddedData struct in this release:

- long fDate;
- long fValueDate;

The following was added to the DetailledCalculationMap struct in this release:

- public BasketAdjustmentData
- reset(const BasketAdjustmentData& adjData);

The following struct was added in this release:

- BreakFundingFeesComp

The following has been changed in the CSRBasketSwap class:

- BasketSwapComputationbsCalcMethod,
  has been changed to
- BasketSwapComputation&bsCalcMethod,

The following was added to the CSRBasketSwap class:

- virtual double ComputeBrokenFundingFees(const ComponentDetailsList& newComposition, const BasketAdjustmentData&newAdjustment, long rateCode, double fixingValue) const;
- static double GetCurrentSpread(const MSpreadAdjustmentHistory& spreadList, long date);
- virtual sophis::gui::CSRFitDialog*new_CorpActionAdjustmentDialog(long sicovam, double factor, long underlyingCode) const;
- virtual sophis::instrument::eSplitActionType Split(long splitDate, long underlyingCode) const;
- virtual bool SplitDone(long date_split, long underlying_id, double factor) const;
- virtual bool MergeDone(long mergeDate, long oldUnderlyingCode, long newUnderlyingCode) const;
- long NewBasketAdjustment(long number, long code) const;
- bool CSRBasketSwap::IsSicovamInLastBasketAjustment(long sicovam, long date) const;
- bool CADone(long adjustmentId, long CAid, sophis::tools::CSRTransactionEventVector &messages) const;
- bool GenerateExtraTickets(long adjustementId, long corpActionType) const;
- virtual bool Merge(long mergeDate, long underlyingCode) const;

The following was removed from the CSRBasketSwap class:

- `virtual instrument::CSRSwapSpecialReporting* new_CSRSwapSpecialReporting(long eoy_date,`

For more information on enhancements related to this file, see *Number of Basket Adjustments on page 131*.

SphConvertibleBondClause.h

The following was added to the `CSRCBCallClause` class:

- `virtual bool IsQuanto() const;`

SphMetaModel.h

The following was added to the `CSRMetaModel` class:

- `virtual doubleGetVegaMarket(const instrument::CSRInstrument & instrument, const market_data::CSRMarketData &context,int whichUnderlying) const;`
- `virtualdoubleGetEquityGlobalVegaMarket(const instrument::CSRInstrument & instrument, const market_data::CSRMarketData& context) const;`
- `virtual doubleGetEquityGlobalVegaMarket(const instrument::CSRInstrument & instrument) const;`

SphNotionalFuture.h

The following was changed in the `CSRNotionalFuture` class:

- `long GetListedMarketClass();`
  was changed to
- `long GetListedMarketClass() const;`

The following was added to the `CSRNotionalFuture` class:

- `virtual void GetDescription(tools::dataModel::DataSet& dataSet) const;`
- `void UpdateFromDescription(const sophis::tools::dataModel::DataSet& dataSet);`

SphFastPnlImpl_API.h

The following class has been removed in this release:

- `FastPnlMarketDataAPI`

The following class has been added in this release:

- `FastPnlVegaAndRhoFactory`

The following was added to the `MatchingConfigurations` class in this release:

- `static FastPnlVegaAndRhoFactory *fVegaAndRhoFactory;`

The following was added to the `FastPnLCategoryConfigParametrization` class in this release:

- `enum eCreateNewMarketDataAPIUsage`
- `virtual FastPnlMarketData* CreateNewMarketData(const sophis::market_data::CSRMarketData& md,long productContext,eCreateNewMarketDataAPIUsage usage = eCreateNewMarketDataAPIUsage_Reference) const;`
- `virtual FPVega* ComputeVega(const sophis::instrument::CSRInstrument& product,long codeSJ) const;`
- `static FastPnlMarketData*(*CreateNewMarketDataFct)(const sophis::market_data::CSRMarketData& md,long productContext,eCreateNewMarketDataAPIUsage usage);`
- `static FPVega*(*ComputeVegaFct)(const sophis::instrument::CSRInstrument& product,long codeSJ);`
- `static void(*CheckAndAddSpecificGridFct)(const sophis::instrument::CSRInstrument &inst, eGridAnalysisType type);`
- `virtualvoidStoreRho(const sophis::instrument::CSRInstrument& instr,FastPnlBuffer::FPBufferData& elt, const sophis::FastPnl::FastPnlMarketData& md) const;`
- `virtualvoidStoreForwardEffect(const sophis::instrument::CSRInstrument& instr,FastPnlBuffer::FPBufferData& elt, const sophis::FastPnl::FastPnlMarketData& md) const;`

The following was added to the `FastPnlContext` class:

- `typedef void (*InitFPNLFct)();`
- `void SOPHIS_FIT AddInitFct(sophis::FastPnl::InitFPNLFct fct);`
- `void SOPHIS_FIT ExecAllInitFct();`

5.5.g gui

SphColumnConfigurationMgr.h

The following header was added in this release:

- **`SphColumnConfigurationMgr.h`**

SphColumnExplDialog.h

The following header was added in this release:

- **`SphColumnExplDialog.h`**

SphMenu.h

The following was added in this release:

- `class SOPHIS_FIT CSRSelectInterpolatedInterestRate : public CSRSelectInterestRate`

The following was made virtual in `SOPHIS_FIT CSRSelectInterestRate : public CSRElement` in this release:

- `virtual voidSetCurrency(long newCurrency)`

SphTransactionDialog.h

The following was added to `enum eDealInputID` in this release:

- `eDISpreadUnitString`

The following was modified in `enum eDealInputID` in this release:

- `eDILastItem`

5.5.h inflation

SphInflationAction.h

The following was added to `class CSRInflationIndex;` in this release:

- `struct CSRInflationInternal;`

The following were changed in `class SOPHIS_INFLATION CSRInflationEvent` in this release:

- `virtual bool HasBeenCreated(const CSRInflationIndex &infIndex);`
  has been changed to:
  `virtual bool HasBeenCreated(long infIndexCode);`
- `virtual bool HasBeenModified(const CSRInflationIndex &infIndex);`
  has been changed to:
  `virtual bool HasBeenModified(long infIndexCode);`

SphInflationCurve.h

The following were added to `class SOPHIS_INFLATION CSRInflationCurve` in this release:

- `static sophis::tools::CSRArchive & WriteInflationCurve(sophis::tools::CSRArchive & archive, const sophis::inflation::CSRInflationCurve * yc);`
- `static const sophis::tools::CSRArchive & ReadInflationCurve(const sophis::tools::CSRArchive & archive, sophis::inflation::CSRInflationCurve* &yc);`
- `static void GetAllInflationCurveIndexes( _STL::vector< long >& returnListOfIndexes );`

SphInflationRuleAction.h

The following was added to `class CSRInflationRule` in this release:

- `struct CSRInflationInternal;`

The following were changed in `class SOPHIS_INFLATION CSRInflationRuleEvent` in this release:

- `virtual bool HasBeenCreated(const CSRInflationRule &infRule);`
  has been changed to:
  `virtual bool HasBeenCreated(long infRuleCode);`
- `virtual bool HasBeenModified(const CSRInflationRule &infRule);`
  has been changed to:
  `virtual bool HasBeenModified(long infRuleCode);`

5.5.i instruments

SphBond.h

The following were added to `class SOPHIS_FIT CSRBond` in this release:

- `long GetExpectedMaturityDate() const;`
- `const bool SetExpectedMaturityDate(const long date);`
- `virtual void ActivateMarketCategory(_STL::auto_ptr<sophis::instrument::CSRMarketCategoryHandle>& returnedHandle) const;`
- `virtual double GetLogNormalFixingFromHistory(const instrument::SSHistory & data) const;`
- `virtual double GetCurrentLogNormalValue() const;`
- `virtual double GetDerivativeOfTheoreticalWRTLogNormalValue(double logNormValue) const;`

SphCapFloor.h

The following was added to `class SOPHIS_FIT CSRCapFloor` in this release:

- `void ActivateMarketCategory(_STL::auto_ptr<sophis::instrument::CSRMarketCategoryHandle>& returnedHandle) const;`

SphDebtInstrument.h

The following was added to `class SOPHIS_FIT CSRDebtInstrument` in this release:

- `void ActivateMarketCategory(_STL::auto_ptr<sophis::instrument::CSRMarketCategoryHandle>& returnedHandle) const;`

SphDividendPaymentRule.h

The following were added to `enum eDividendPayment` in this release:

- `_dpImmediate,`
- `_dpImmediatePaidAtRest`

The following was added to `namespace instrument` in this release:

- `enum eCorporateActionCash`

SphEquity.h

The following was added to `class SOPHIS_FIT CSREquity` in this release:

- `void ActivateMarketCategory(_STL::auto_ptr<sophis::instrument::CSRMarketCategoryHandle>& returnedHandle) const;`

SphForexFuture.h

The following was added to `class SOPHIS_FIT CSRForexFuture` in this release:

- `void ActivateMarketCategory(_STL::auto_ptr<sophis::instrument::CSRMarketCategoryHandle>& returnedHandle) const;`

SphForexSpot.h

The following was added to `class SOPHIS_FIT CSRForexSpot` in this release:

- `void ActivateMarketCategory(_STL::auto_ptr<sophis::instrument::CSRMarketCategoryHandle>& returnedHandle) const;`

SphFuture.h

The following were added to class SOPHIS_FIT CSRFuture in this release:

- void ActivateMarketCategory(_STL::auto_ptr<sophis::instrument::CSRMarketCategoryHandle>& returnedHandle) const;
- virtual bool HasAFormulaForSpot() const;
- virtual void GetCurrenciesRiskSource(_STL::set<long> &currenciesList) const;
- virtual double GetLogNormalFixingFromHistory(const instrument::SSHistory & data) const;
- virtual double GetCurrentLogNormalValue() const;
- virtual double GetDerivativeOfTheoreticalWRTLogNormalValue(double logNormValue) const;

SphInstrument.h

The following was added to struct SOPHIS_FIT SSDeltaEpsilon in this release:

- bool isVegaMarketSet;

The following was added to namespace instrument in this release:

- class SOPHIS_FIT CSRMarketCategoryHandle

The following were added to class SOPHIS_FIT CSRInstrument in this release:

- virtual bool GetSpecificAnalysisGrid(FastPnl::eGridAnalysisType analysisType,_STL::vector<long>& outMaturities,_STL::vector<double>& outStrikes,bool& strikesInPercent) const;
- virtual void ActivateMarketCategory(_STL::auto_ptr<CSRMarketCategoryHandle>& returnedHandle) const;
- virtual sophis::gui::CSRFitDialog*new_CorpActionAdjustmentDialog(long fixingDate, double factor, long underlyingCode) const;
- virtual double GetVegaMarket(const market_data::CSRMarketData& context,int whichUnderlying) const;
- virtual double GetEquityGlobalVegaMarket(const market_data::CSRMarketData& context) const;
- virtual double GetEquityGlobalVegaMarket() const;
- virtual void SetIsVegaMarketSet(int which, bool isVegaMarketSet);
- virtual bool GetIsVegaMarketSet(int which) const;
- virtual double GetLogNormalFixingFromHistory(const instrument::SSHistory & data) const;
- virtual double GetCurrentLogNormalValue() const;
- virtual double GetDerivativeOfTheoreticalWRTLogNormalValue(double logNormValue) const;

The following were changed in `class SOPHIS_FIT CSRInstrument` in this release:

- `virtual void StartReporting(long eoy_date, long reporting_date, long portfolio_id, sophis::portfolio::CSRExtraction * extraction) const;`
  has been changed to:
  `virtual void StartReporting( long reporting_date, long portfolio_id, sophis::portfolio::CSRExtraction * extraction) const;`
- `virtual void EndReporting(TViewMvts * position) const;`
  has been changed to:
  `virtual void EndReporting(TViewMvts * position, double fxOfTheDay) const;`

SphLoanAndRepo.h

The following were added to `class SOPHIS_FIT CSRLoanAndRepo` in this release:

- `void ActivateMarketCategory(_STL::auto_ptr<sophis::instrument::CSRMarketCategoryHandle>& returnedHandle) const;`
- `void SetAveragePriceComputationType(short type_pm);`
- `short GetAveragePriceComputationType();`

The following were changed in `class SOPHIS_FIT CSRLoanAndRepo` in this release:

- `virtual void StartReporting(long eoy_date, long reporting_date, long portfolio_id, sophis::portfolio::CSRExtraction * extraction) const;`
  has been changed to:
  `virtual void StartReporting(long reporting_date, long portfolio_id, sophis::portfolio::CSRExtraction * extraction) const;`
- `virtual void EndReporting(TViewMvts * position) const;`
  has been changed to:
  `virtual void EndReporting(TViewMvts * position, double fxOfTheDay) const;`

SphOption.h

The following were added to `class CSRCoxTreeGraphics` in this release:

- `virtual double GetGrossDividendAmount(const market_data::CSRMarketData & context, long start_date, long end_date, long paye_date, eDividendBase base = _dbExDivDate, MapDivCurrencyAmount * divData = NULL) const;`
- `virtual SSDividendArray *new_DividendArray(long beginDate, long endDate, eSettlementType settlementType, const market_data::CSRMarketData&context, market_data::eTaxCreditPercentageTypetoEvaluate, nt *elementsCount) const;`
- `virtual double GetForwardPrice(long tureDate, market_data::eTaxCreditPercentageType forEvaluation, const market_data::CSRMarketData &context) const;`

- `virtual void GetForwardPrice(long *futureDates, double val, short dateCount, market_data::eTaxCreditPercentageTypeforEvaluation, const market_data::CSRMarketData&context) const;`
- `virtual bool GetSpecificAnalysisGrid(FastPnl::eGridAnalysisType analysisType,_STL::vector<long>& outMaturities,_STL::vector<double>& outStrikes,bool& strikesInPercent) const;`
- `virtual void ActivateMarketCategory(_STL::auto_ptr<sophis::instrument::CSRMarketCategoryHandle>& returnedHandle) const;`

SphPackage.h

The following were added to `class SOPHIS_FIT CSRPackage` in this release:

- `void ActivateMarketCategory(_STL::auto_ptr<sophis::instrument::CSRMarketCategoryHandle>& returnedHandle) const;`

SphSwap.h

The following were changed in `class SOPHIS_FIT CSRSwap` in this release:

- `virtual void EndReporting(TViewMvts * position) const;`
  has been changed to:
  `virtual void EndReporting(TViewMvts * position, double fxOfTheDay) const;`
- The `long eoy_date` parameter was removed from `virtual CSRSwapSpecialReporting* new_CSRSwapSpecialReporting`.
- The `long eoy_date` parameter was removed from `CSRSwapSpecialReporting`.
- `virtual voidFillEndReportingResult(TViewMvts * position);`
  has been changed to:
  `virtual voidFillEndReportingResult(TViewMvts * position, double fxOfTheDay);`

The following were added to `class SOPHIS_FIT CSRSwap` in this release:

- `virtual double GetLogNormalFixingFromHistory(const SSHistory & data) const;`
- `virtual double GetCurrentLogNormalValue() const;`
- `virtual double GetDerivativeOfTheoreticalWRTLogNormalValue(double logNormValue) const;`
- `double fRealizedCurrency;`
- `double fRealizedEquity;`

The following were removed from `class SOPHIS_FIT CSRSwap` in this release:

- `long fEoyDate;`
- `double fQuantityBeforeEOY;`

SphSwapEnums.h

The following was added to `enum eAccruedPaymentType` in this release:

- `_aptRateOnly`

The following was added to `namespace instrument` in this release:

- `enum eBasketAdjustmentType`

5.5.j limit

SphLimitColumnExplDialog.h

The following header file was added in this release:

- **`SphLimitColumnExplDialog.h`**

5.5.k market data

SphMarketData.h

The following constructor was changed in the `CSRMarketData` class in this release:

- `SSDates();`
  was changed to
- `SSDates(bool fromContext);`

The following was added to the `CSRMarketData` class in this release:

- `voidSetToCurrentContext()`

SphVolatility.h

The following was added to the `CSRVolatility` class in this release:

- `virtual bool isVegaMarketAvailable() const;`

5.5.l misc

SphGlobalFunctions.h

The following were added to `SOPHIS_FIT CSRGlobalFunctions` in this release:

- `virtual void GetInstrumentToFullLoadWhenLoadingPortfolio(_STL::set<long>& instrumentSet)`
- `static CSRGlobalFunctions* GetCurrentGlobalFunctions()`

5.5.m portfolio

SphAveragePrice.h

The following header was added in this release:

- **`SphAveragePrice.h`**

For more information about this header, see *Amortisation Selector on page 135*.

SphExtraction.h

The following was added to `SOPHIS_FIT ExtractionException` in this release:

- `class CSUMenu;`
- `typedef CSUMenu * MenuHandle`
- `short forceLoad`
- `long realFolio`
- `double fxOfTheDay`
- `virtual bool ForceAveragePrice(long folioId, long instrumentId) const`
- `class SOPHIS_FIT CSRTempOverrideReportDatePrefs`

The following was removed from `SOPHIS_FIT ExtractionException` in this release:

- `double quantite_rest`
- `double  coeff`
- `long realFolio`
- `double fxOfTheDay`

The following enumeration was modified in this release:

- `enum eReportDatePref`

SphFOAmortization.h

The following header was added in this release:

- **SphFOAmortization.h**

SphPortfolio.h

The following were added to `SOPHIS_FIT CSRPortfolio` in this release:

- `double GetRealisedInGlobalCurrency() const`
- `double GetInstrumentRealisedInGlobalCurrency() const`
- `double GetUnrealisedInGlobalCurrency() const`
- `double GetInstrumentUnrealisedInGlobalCurrency() const`
- `double GetPureIncome() const`
- `double GetIncomeInGlobalCurrency() const`
- `double GetInstrumentIncomeInGlobalCurrency() const`
- `double GetRealisedIncome() const`
- `double GetOtherFxPnl() const`
- `double GetAmountToAmortize() const`
- `double GetAmortization() const`
- `double GetRemainingAmortization() const`

SphPortfolioEnums.h

The following was removed from `enum eExtractionType` in this release:

- `tEndOfYear`

SphPosition.h

The following were added to `SOPHIS_FIT CSRPosition` in this release:

- `double GetRealisedInGlobalCurrency() const`
- `double GetInstrumentRealisedInGlobalCurrency() const`
- `double GetUnrealisedInGlobalCurrency() const`
- `double GetInstrumentUnrealisedInGlobalCurrency() const`
- `double GetPureIncome() const`
- `double GetIncomeInGlobalCurrency() const`
- `double GetInstrumentIncomeInGlobalCurrency() const`
- `double GetRealisedIncome() const`
- `double GetOtherFxPnl() const`
- `double GetAmountToAmortize() const`
- `double GetAmortization() const`
- `double GetRemainingAmortization() const`
- `double GetInventoryPrice() const`

- double GetPureAveragePrice() const
- double GetAveragePriceInGlobalCurrency() const

SphPositionCurrency.h

The following was added to SOPHIS_PORTFOLIO CSRPositionCurrency in this release:

- virtual double GetFinalForex(long currency1, long currency2) const
- double GetForex(long currency, long date) const
- extern SOPHIS_PORTFOLIO CSRPositionCurrency *gPositionCurrency

SphResultVariation.h

The following were added to SOPHIS_PORTFOLIO CSRResultVariationData in this release:

- long GetMvtIdentForMovementDelta() const
- double GetPureMvtDelta() const

The following is no longer protected:

- CSMgrDelta * fMgr

SphTransaction.h

The following was added to SOPHIS_FIT CSRTransaction in this release:

- bool SetFolioCodeCheckRights(long code)

SphTransactionEnums.h

The following was added to enum eTransactionType in this release:

- tTreasuryReversal

SphTransferTrade.h

The following were added in this release:

- class CSWindHierMvtBac
- class CSRTransactionEventVector
- class SOPHIS_PORTFOLIO CSRTransferInterface

The following was changed in this release:

- class SOPHIS_PORTFOLIO CSRTransferTrade

The following were made virtual in `SOPHIS_PORTFOLIO CSRTransferTrade : public CSRTransferInterface` in this release:

- `virtual void LaunchAutomaticTicket(tools::CSREventVector &mess)`
- `virtual void LaunchDeletionTicket(tools::CSREventVector &mess)`
- `virtual void LaunchCorporateAction(tools::CSREventVector &mess)`

The following was added to `SOPHIS_PORTFOLIO CSRTransferTrade : public CSRTransferInterface` in this release:

- `public:DECLARATION_PROTOTYPE(CSRTransferTrade,CSRTransferInterface)`
- `class SOPHIS_PORTFOLIO CSRTransferFixings : public CSRTransferInterface`
- `int LaunchAutomaticTicket(CSRTransactionVector& tickets)`
- `virtual int CheckTickets(const CSRTransactionVector& tickets)`
- `virtual int CheckTicket(const CSRTransaction& ticket)`
- `int LaunchCorporateAction(const _STL::set<long>& ajustement)`
- `virtual int CheckCorporateActions(const _STL::set<long>& corporateActions)`
- `virtual bool IsActivated()`

The following was removed from `SOPHIS_PORTFOLIO CSRTransferTrade : public CSRTransferInterface` in this release:

- `enum eActionToTransfer`

SphUnderlying.h

The following were added to `SOPHIS_FIT  CSRUnderlying` in this release:

- `double GetRealisedInGlobalCurrency() const`
- `double GetInstrumentRealisedInGlobalCurrency() const`
- `double GetUnrealisedInGlobalCurrency() const`
- `double GetInstrumentUnrealisedInGlobalCurrency() const`
- `double GetPureIncome() const`
- `double GetIncomeInGlobalCurrency() const`
- `double GetInstrumentIncomeInGlobalCurrency() const`
- `double GetRealisedIncome() const`
- `double GetOtherFxPnl() const`
- `double GetAmountToAmortize() const`
- `double GetAmortization() const`
- `double GetRemainingAmortization() const`

SphXmlDealHelper.h

The following header was added in this release:

- **`SphXmlDealHelper.h`**

5.5.n scenario

SphReportStrategy.h

The following was added in this release:

- `class CSRPosition;`
- `virtual void ResultPosition(const portfolio::CSRPosition *position, const double * value){}`
- `virtual void ResultDeletedPosition(long instrumentCode, short lineType, const double * value){}`
- `virtual void InitResultPortfolio(long portfolioId, eResultType type){}`

SphReportStrategyXML.h

The following was added in this release:

- `class CSRPosition;`
- `virtual void ResultPosition(const portfolio::CSRPosition *position, const double * value);`
- `virtual void ResultDeletedPosition(long instrumentCode, short lineType, const double * value);`
- `virtual void InitResultPortfolio(long portfolioId, eResultType type);`
- `dataModel::DataSequence * fSequencePortfolio;`
- `dataModel::DataSequence * fSequenceDeletedPosition;`

SphScenario.h

The following enums were added in this release:

- `pTradeEngineEndOfDay`
- `pTradeShootAgain`

5.5.o sophis

SphPreference.h

The following were added to `class SOPHIS_FIT CSRPreference` in this release:

- `static short GetUseCMAGuiDatesForLimitsCalulations();`
- `static void SetUseCMAGuiDatesForLimitsCalulations(short s);`
- `static void SetNumberOfDecimalsForSpreadCommission(short nb);`
- `static short GetNumberOfDecimalsForSpreadCommission();`
- `static voidSetStatusGroupOfDealsInPortfolio(long statusGroup);`
- `static bool GetFastPnlUseVega();`

- `static void SetFastPnlUseVega(bool use);`
- `static bool GetFastPnlUseRho();`
- `static void SetFastPnlUseRho(bool use);`
- `static bool GetFastPnlUseForward();`
- `static void SetFastPnlUseForward(bool use);`
- `static voidSetLimitsCloseDate(long date);`
- `static longGetLimitsCloseDate();`
- `static void SetUseLimitsStrictFilter(short s);`

The following were removed from `class SOPHIS_FIT CSRPreference` in this release:

- `static longGetMarginCallAccount();`
- `static boolSupportCrossCurrency();`
- `static longGetDutyStampAccount();`
- `static longGetBankAccount();`
- `static longGetTaxCreditAccount();`
- `static intGetNumberOfDigitForCounterparties();`
- `static longGetBrokerFeesAccount();`
- `static longGetBrokerProductAccount();`

SphUserRightsEnums.h

The following was added to `enum eAccessRightType` in this release:

- `arAllowPositionLink`

The following was added to `enum eBackOfficeRightType` in this release:

- `borCollateralSecuritiesReport`
- `borAmortizationSelector`
- `borCashMarginCall`
- `borTradeEngineEndOfDay`
- `botTradeShootAgain`

5.5.p static_data

SphInterestRate.h

The following was added to `CSRCalendar` in this release:

- `virtual double GetLogNormalFixingFromHistory(const instrument::SSHistory & data) const`
- `virtual double GetCurrentLogNormalValue() const`
- `virtual double GetDerivativeOfTheoreticalWRTLogNormalValue(double logNormValue) const`

SphPlace.h

The following was modified in SOPHIS_FIT CSRPlace : public CSRCalendar in this release:

- short GetForexOverseas(long date, long ccy1, long ccy2, double *spot, long *forexDate = 0) const

The following were moved in this release:

- void SetForexOverseas(long date, long ccy1, long ccy2, double spot) const
- void SetForexOverseas(long ccy1, long ccy2, _STL::vector<SSDateSpot> &dateSpotV) const

SphRecoveryRate.h

The following was modified in SOPHIS_FIT CSRCreditMaturityModel in this release:

- virtual long GetStartDate(long aDate, const static_data::CSRCalendar *calendar, short serie) const =0
- virtual long GetEndDate(long aStartDate, long aMaturity, const static_data::CSRCalendar *calendar, short serie) const = 0

5.5.q tools

SphFastPnlBufferProxy.h

The following were added to CSRFastPnlBufferProxy in this release:

- virtual void Clear(long code);
- virtual void CreateTableNames();
- virtual void Clear(long code);

SphFastPnlBufferProxyDistributed.h

The following were added in this release:

- virtual void LoadOtherData();
- virtual void SetHistoDate(long date);
- virtual void CreateTableNames();
- virtual double AddThetaToTheo0(double theo,double theta) const;
- virtual long GetRefDateForTheta() const;
- long fHistoDate;
- _STL::string sqlclauseHistoAND;
- _STL::string sqlclauseHistoWHERE;
- _STL::string tableNameGrecqueSimple;
- _STL::string tableNameGrecqueCroise;

- `_STL::string tableNameIndicateur;`
- `_STL::string tableNameSpotHier;`
- `_STL::string tableNameChangeHier;`

SphPacketVector.h

The following were added in this release:

- `bool empty() const{}`
- `bool operator!=(const iterator& it) const{}`
- `void* normalized() const{};`

The following was changed in this release:

- `bool operator==(const iterator& it) {return (lIte==it.lIte && vIte==it.vIte)}` was changed to

  `bool operator==(const iterator& it) const { return fContainer == it.fContainer && normalized() == it.normalized(); return (lIte==it.lIte && vIte==it.vIte);}`

Part 2: RISQUE 5.3.6.1

SOPHIS

Released: 27 October, 2009

This part describes:

▷The corrections in this version

▷The enhancements in this version

▷The toolkit changes in this version

Chapter 1 Upgrading to 5.3.6.1

This chapter describes how to upgrade to RISQUE 5.3.6.1. It contains the following:

- *Software Requirements on page 197*
- *Upgrading on page 197*

1.1 Software Requirements

1.1.a Sophis Software Requirements

Table 1-1 describes the Sophis software requirements for RISQUE 5.3.6.1:

Table 1-1 Software Requirements for Upgrade

Software	Version
RISQUE	5.3.6

1.2 Upgrading

1.2.a Upgrading to RISQUE 5.3.6.1

The RISQUE 5.3.6.1 installation package is a Microsoft Windows installer named **`Risque 5.3.6.1.exe`**. When you run this file, the **Installation wizard** is displayed to guide you through upgrading to a new version of RISQUE.

To install the new version of RISQUE, do the following:

1 Double-click on the `Risque 5.3.6.1.exe` file.

The **Installation wizard** is displayed.

Figure 1-1 shows the **Installation wizard**:

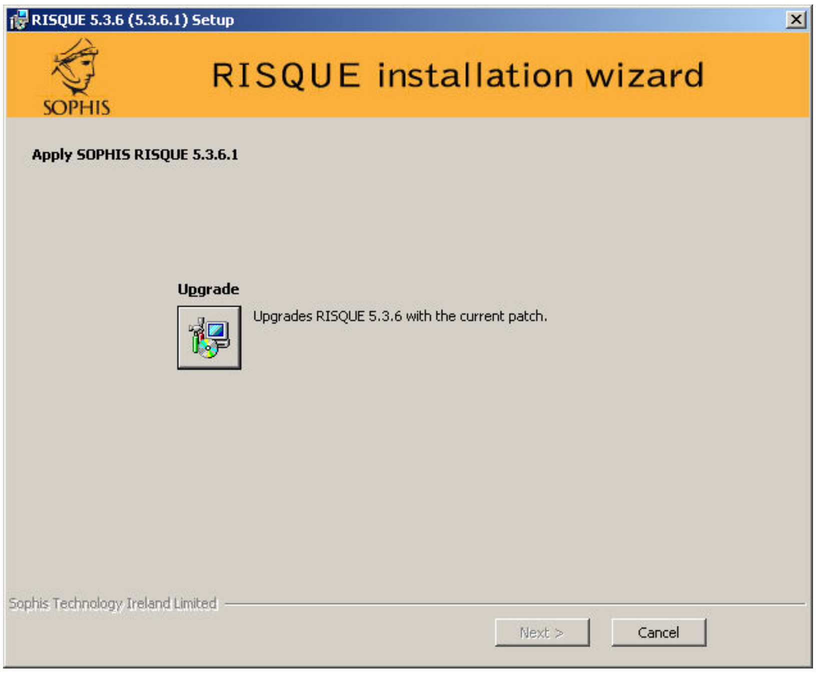


Figure 1-1 Installation wizard

2 Click the **Upgrade** button.

A new **Installation wizard** screen is displayed.

Figure 1-2 shows the **Installation wizard**:

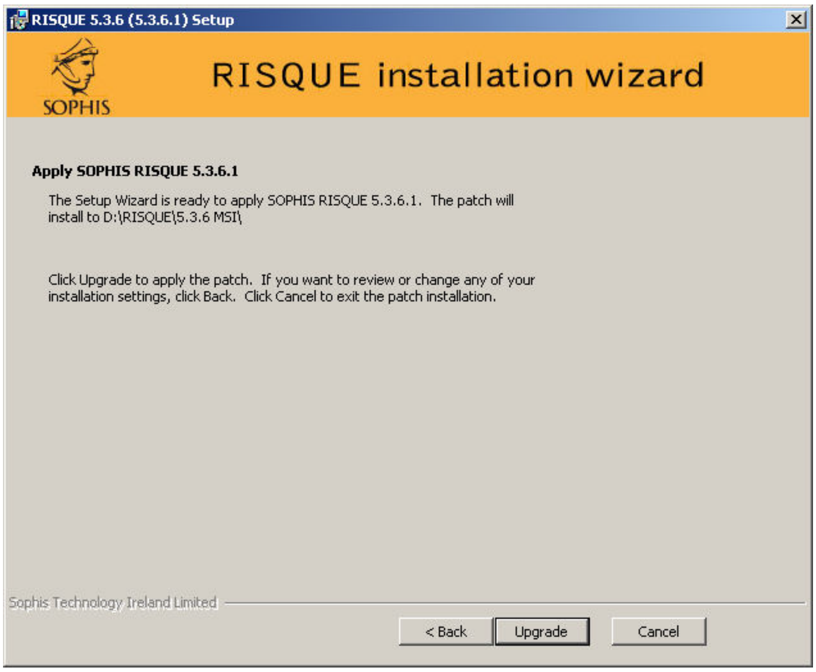


Figure 1-2 Installation wizard

3 Click the **Upgrade** button to upgrade RISQUE.

You can click the **Back** button to undo any changes made by the **Installation wizard**.

A new **Installation wizard** screen is displayed as the **Installation wizard** updates the RISQUE.

Figure 1-3 shows the **Installation wizard**:

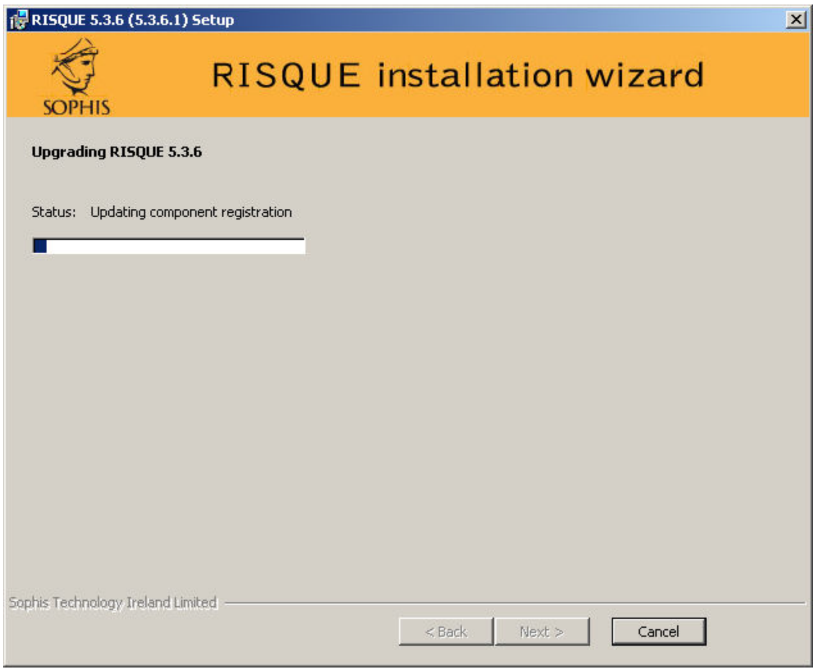


Figure 1-3 Installation wizard

Note You can click the **Cancel** button to stop the upgrade.

When the upgrade is complete, a new **Installation wizard** screen is displayed.

Figure 1-4 shows the **Installation wizard**:

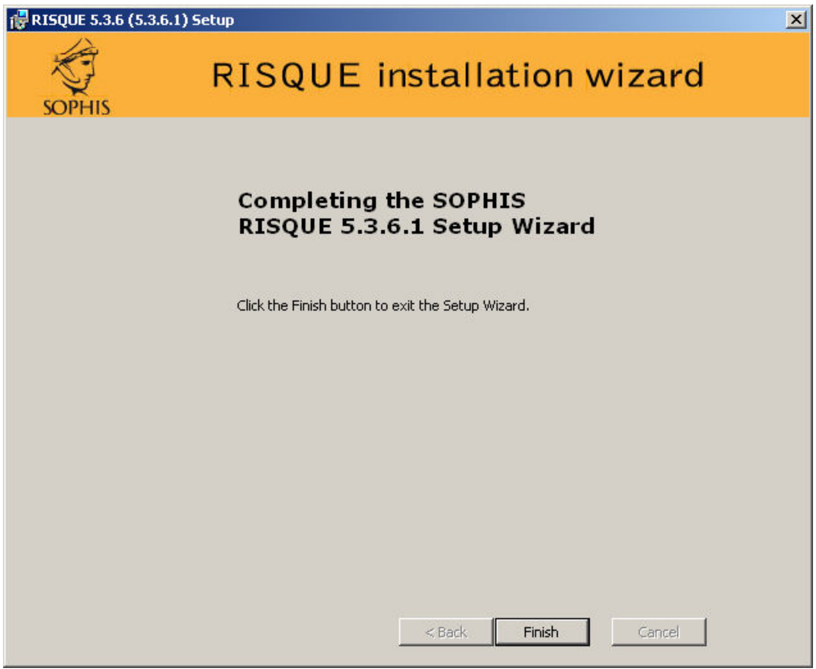


Figure 1-4 Installation wizard

4 Click the **Finish** button to exit the **Installation wizard**.

Chapter 2 Corrected Bugs in 5.3.6.1

This chapter describes the bugs fixed in RISQUE 5.3.6.1. These fixes were made in the following areas:

2.1 Accounting

2.1.a P&L Reversal Postings

Issue Number: 52577

The P&L engine did not reverse account postings if **PnL Reversal** was selected in the **Posting type** column of the **Account P&L Rules** window for the P&L engine rule.

Files affected: SphAccounting.dll

2.1.b Realised Amount on Financial Asset Accounts

Issue Number: 52972

The Auxiliary Ledger calculated the realised amount incorrectly if line picking was performed on an ABS bond position that had a repayment.

Files affected: SphAccounting.dll, Sophis.dll

2.1.c Accounting Lag Preference Not Taken Into Account

Issue Number: 46668

The accounting lag preference was not taken into account if the **Collateralized Accrued Coupon** amount type was defined for the P&L Engine rule. This error occurred if the **MFD** value was selected from the **Accounting Lag** drop-down list in the **Profit and loss** tab of the **Preferences** dialog at the account entity level.

Files affected: Sophis.dll

2.2 Commodities

2.2.a Grand Total in VolMatrix in Delta/Maturity Analysis

Issue Number: 52566

The **Grand Total** row was not displayed in the **VolMatrix in Delta/Maturity** analysis by default.

Files affected: SphPortfolioAnalysisGUI.dll

2.2.b Greeks of Precious-Metal Options

Issue Number: 52649

The Greeks displayed in the **Standard Option** window of options on precious-metal futures were incorrect if the **Result in Theoretical Value** check box was not selected on the **Profit and loss** tab of the **Preferences** dialog box.

Files affected: Sophis.dll, SphFinance.dll

2.2.c OTC-Cleared Options

Issue Number: 52997

The price of OTC-cleared options was not discounted by default.

Files affected: SphFinance.dll

2.2.d TAPO Prices

Issue Number: 53021

The prices displayed in the **Portfolio** window for TAPOs were incorrect if the **Margin call** check box on the **Listed market** window was selected.

Files affected: SphFinance.dll

2.2.e Volatility Matrix of LME options

Issue Number: 52226

No values were displayed in the volatility matrix if it was launched on an LME option.

Files affected: SphBasicDataGUI.dll

2.2.f Global Delta USD of Precious Metal Debt Instruments

Issue Number: 52859

The **Global Delta USD** value was not displayed in the **Portfolio** window for debt instruments with the currency defined as a precious metal.

Files affected: SphPortfolio.dll

2.2.g Asian Commodity Options with Daily Pay Frequency

Issue Number: 51229

The theta value of asian commodity options was incorrect on the day before the payment date if the following conditions were true:

- The **daily** value was selected from the **Pay Frequency** drop-down list on the **Swap** window of the underlying of the option.
- Multiple cash flows had the same settlement date.

Note The values in the **Detailed Cash Balance** window were also affected by this issue.

Files affected: SphCommodities.dll, SphFinance.dll

2.2.h Pin Risk Analysis

Issue Number: 52233

The pin-risk analysis behaved unpredictably if the position of the fields in the **Pin Risk Analysis** window was changed.

Files affected: SphPortfolioAnalysisGUI.dll, SphCommoditiesGUI.dll

2.3 Dashboard

2.3.a Missing Dynamic-Link Libraries

Issue Number: 52242

The following issues occurred for the Dashboard:

- An error message was displayed when the Dashboard was started.
- It was not possible to insert components into views.

These issues occurred because the following dynamic-link libraries were missing from the installation:

- DevExpress.XtraTreeList.v7.2.dll
- DevExpress.XtraTreeList.v7.2.Design.dll
- DevExpress.XtraEditors.v7.2.dll
- DevExpress.Utils.v7.2.dll
- DevExpress.Data.v7.2.dll

Files affected: WebBrowserComposant.dll, RiskMatrix.dll, Historique.dll, PortfolioPresentation.dll, ExtractionPie.dll, TreeList.dll, DevExpress.XtraTreeList.v7.2.dll, DevExpress.XtraTreeList.v7.2.Design.dll, DevExpress.XtraEditors.v7.2.dll, DevExpress.Utils.v7.2.dll, DevExpress.Data.v7.2.dll

2.4 Documentation

2.4.a Functional Notional Mapping

Issue Number: 48678

The **Functional Notional Mapping** command in the **Data** menu was not documented. As of this release, it is documented in the Confirmations chapter of the *Back Office User Guide*.

Book Affected: Back Office User Guide

2.4.b DontKeepCalcDataOnAJTI Global Preference

Issue Number: 52613

The description of the `DontKeepCalcDataOnAJTI` global preference was incorrect in the *Administration Guide*. It has been corrected in this release.

Book Affected: Administration Guide

2.4.c Nostro Management Documentation

Issue Number: 41565

The following information has been updated in the Nostro Management chapter of the *Back Office User Guide*:

- Fields that are not editable have been identified in the following dialogs:
  - **Account Retail Transaction**
  - **Account Remuneration**
  - **Account Cost Transaction**
- Figure 13-14 has been updated to reflect the current user interface.
- Tables 13-2 and 13-9 have been updated with missing column information.
- An incorrect note from the Nostro Account Properties section has been removed.

Book Affected: Back Office User Guide

2.4.d Stock Loan Documentation

Issue Number: 52206, 52243

Information about stock loans has been updated in the following guides:

- *Advanced Stock Loan Module User Guide*
  - Information about the **Show Current Contract** command has been added.
  - Information about the **Billing Frequency** drop-down list in the **Stock Loan/Repo Input** dialog has been updated.
- *Collateral Management User Guide*
  - Information about launching the **Collateral Limits Calculation** window has been updated.
  - Information about automatic tickets generated during a maturity modification has been added.

Book Affected: Advanced Stock Loan Module User Guide, Collateral Management User Guide

2.4.e Stock Loan and Repo Contract Source Type

Issue Number: 53288

Information about the **Stock Loan and Repo Contract** source type has been added to the *Reporting Module User Guide*.

Book Affected: Reporting Module User Guide

2.4.f Reporting Module User Guide

Issue Number: 53284

The following items were not documented in the **Reporting Module User Guide**:

- The **Date Type** drop-down list of the **Contract For Differences** source.
- The **Interest** and **Date Type** drop-down lists of the **Detailed Collateral Limit** source.
- The **Portfolio** text box of the **Scenario** source.
- The **Securities Report** source.

Book Affected: Reporting Module User Guide

2.5 End of Day

2.5.a End of Day Memory Management

Issue Number: 52328

A memory management issue occurred if the End of Day procedure was performed with the **Interest Rate Risk** check box selected in the **Save to Database** window.

Files affected: SphFastPnlClient.dll, SphPortfolio.dll, SphPortfolioGUI.dll, Sophis.dll, SphRiskTools.dll, SphCommodities.dll, SphListedMarketGUI.dll

2.6 Instruments

2.6.a Stock Borrowing Costs

Issue Number: 51669

Stock borrowing costs were incorrectly calculated for cross-currency CFDs. This error occurred because the last forex rate was not applied.

Files affected: Sophis.dll

2.6.b Missing Second Counterparty

Issue Number: 47122

The **Counterparty 2** text box in the **Deal Input** window was not displayed for stock loan, repo, or bond repo deals if the **To a second third party** value of the **Business Events** window was set to **Yes** for the business event that initialised the deal.

Files affected: SphPortfolioGUI.dll

2.7 Nostro Management

2.7.a Missing Cash Flow

Issue Number: 53319

The Certain cash flow was not displayed in the **Nostro Management** window in either the **Balance** or the **Cash Flow** views.

Files affected: SphTreasury.dll

2.8 Performance

2.8.a Auxiliary Ledger Performance

Issue Number: 53387

RISQUE behaved unpredictably if the Auxiliary Ledger was run on a large number of account postings.

Files affected: SphAccounting.dll

2.9 Portfolios

2.9.a Asset-Backed Security with Prices Date at Maturity

Issue Number: 52804

The theoretical price, average price, and accrued coupons were incorrect for positions on asset-backed securities (ABS) if the following occurred:

1. The prices date was set to the maturity date of the asset-backed security and the **Positions** check box was selected in the **Prices Date** dialog box.
2. Coupon and repayment tickets were transmitted for the maturity date.
3. **Reporting (F8)** or **Calculate Now (F9)** was performed after the maturity date.

As a result, a positive amount was incorrectly displayed for the position at the maturity date, even though the pool factor was 0.

As of this release, if the pool factor is set to 0, the position amount is also 0.

Files affected: Sophis.dll, SphPortfolio.dll, SphBasicDataGUI.dll, SphCalculation.dll

2.9.b Sign of the Realised Amount in Line Picking

Issue Number: 52714

The sign of the realised amount of the picked lines was incorrect in the **Realized** column of the **Line Picking** window.

Files affected: SphLinePicking.dll

2.9.c Inventory Price in Line Picking window

Issue Number: 52715

The **Inventory Price** dynamic field incorrectly displayed the average price instead of the inventory price in the **Line Picking** window. This error only occurred for debt instruments.

Files affected: SphLinePicking.dll

2.9.d Quantity of Securities in Closed Positions

Issue Number: 52873

The quantity of securities in closed positions was incorrectly calculated in the **Line Picking** window. It was calculated as the sum of the quantities in the following tickets:

- Purchase tickets
- Sale tickets
- Coupon or ABS Repayment tickets

As a result, the indicators in the dynamic fields of the **Line Picking** window were also incorrectly calculated.

As of this release, the quantity of securities in closed positions is displayed as zero in the **Quantity** dynamic field of the **Line Picking** window.

Files affected: Sophis.dll, SphPortfolio.dll, SphLinePicking.dll

2.9.e Relative Dates in the Vanilla FX Option Blotters

Issue Number: 43536

The dates generated in the **Maturity** and **Delivery** text boxes on the **Vanilla FX Option** blotters were incorrect if a relative date, such as `2m`, was entered in the **Maturity** text box. This issue occurred because the maturity date was calculated before the delivery date.

Files affected: SphPortfolioGUI.dll

2.9.f Instrument Booking

Issue Number: 50677

Under certain circumstances, the following error message was displayed if an instrument was booked:

```
INTERNAL COMMAND ERROR: see debugreport.log for more
information.
```

Files affected: SphPortfolioGUI.dll

2.9.g Reporting with Amortisation

Issue Number: 52867

Amortisation rules were not taken into account if reporting (F8) was performed on a portfolio after restarting RISQUE. As a result, the P&L indicators were incorrect in the **Portfolio** window.

Files affected: Sophis.dll

2.9.h Default Third Parties of One-Deal Blotters

Issue Number: 53055

The values of the **Counterparty**, **Depositary**, and **Broker** drop-down lists on the one-deal blotters were not set by default if there was only one value available from the drop-down list.

Files affected: SphPortfolio.dll

2.9.i Delta for Precious Metals in the Risk Matrix

Issue Number: 51963

The value in the **Delta** column of the **Risk Matrix** analysis was incorrect if the following conditions were true:

- The **Delta** check box was selected in the **Simulation Parameters** dialog box.
- The **Delta All Included** value was selected from the **Delta Adjustment in Risk Matrix** drop-down list on the **Forex** tab of the **Preferences** dialog.

This occurred only for positions on precious metal barrier options if the barrier was crossed by an analysis bump.

The **Global Delta Adjustment** portfolio column also now matches the delta displayed in the **Risk Matrix** and **Delta Adjustment Report** analyses.

Files affected: Sophis.dll, SphPortfolio.dll

2.9.j Amortising Amount for ABS and Debt Instruments

Issue Number: 51608

The amortisation of remaining positions in the **Amortizing Remaining** column of the **Portfolio** window was incorrectly calculated as the original amount to amortise minus the amount that was already amortised.

As of this release, the amortisation of the remaining position is calculated as the amortised amount of the remaining position.

For example, if 1000 ABS bonds are purchased and then 100 ABS bonds are sold, the amortisation for the remaining position is calculated based on the remaining 900 ABS bonds.

Files affected: SphPortfolio.dll

2.9.k Line Picking on Closed Positions

Issue Number: 52873

The quantity in ABS coupons were incorrectly taken into account in the **Line Picking** window if the position was closed. As a result, the amortisation indicators were incorrect and the position was considered an open position.

Files affected: Sophis.dll, SphPortfolio.dll, SphLinePicking.dll

2.9.l Realised Amount of ABS Bond Positions

Issue Number: 52537

The realised amount of ABS bond positions was incorrectly calculated on maturity date.

Files affected: SphPortfolio.dll

2.10 Reporting Module

2.10.a Crystal Report XSD File Error

Issue Number: 52297

RISQUE behaved unpredictably if the following conditions were true:

- An attempt was made to generate a Crystal Report.
- A relative directory path was specified in the XSD file.
- The XSD file was saved in a write-protected directory.

As of this release, **`SphCrystalReportsEngine.exe`** does not modify the XSD file.

Files affected: SphCrystalReportsEngine.exe

2.11 User Rights

2.11.a Collateral Scheduler Report Management

Issue Number: 53175

It was possible to create a collateral scheduler extraction if the **Collateral Scheduler Report Management** user right in the **Collateral Management** tab of the users dialog was set to **read**.

As of this release, the type of the **Collateral Scheduler Report Management** user right has been changed from type B to type A, which enables you to specify the following options:

- **Yes**
- **No**

Files affected: SophisBasicData.dll, SphCollateralGUI.dll

Chapter 3 Enhancements in 5.3.6.1

This chapter describes the enhancements made in RISQUE 5.3.6.1. These enhancements were made in the following areas:

- *Accounting on page 215*
- *Commodities on page 215*
- *Documentation on page 216*
- *Performance on page 216*

3.1 Accounting

3.1.a P&L Rule Amount Type

Issue Number: 51536

A new amount type, **ABS Revaluation**, has been added to the **Amount type** column of the **Account P&L Rules** window. This amount type returns the total asset value with the current pool factor plus the notional of the position.

Book Affected: Back Office User Guide

3.2 Commodities

3.2.a Delta Value in Delta Adjustment Report Calculations

Issue Number: 51336

The value of the delta in the **Delta Adjustment Report** analysis before the barrier is now an average of the delta values before the barrier is crossed. In previous versions, the delta value before the barrier was an extrapolation of these values.

Files affected: Sophis.dll

3.3 Documentation

3.3.a Installation Wizard System Requirements

Issue Number: 45703

The following note has been added to the *Installing* chapter of the *Installation Guide*:

The installation wizard requires that 2GB of free space is available for your system temp directory. If you intend to install the Financial Integration Toolkit, you must have 3GB of free space available.

Book Affected: Installation Guide

3.3.b User Rights

Issue Number: 52700

The *User Rights* chapter of the *Administration Guide* has been updated to improve the layout and readability.

Book Affected: Administration Guide

3.4 Performance

3.4.a Future Analyses

Issue Number: 52747

The performance of the delta, gamma, and vega future analyses has been improved.

Files affected: SphCommoditiesGUI.dll

3.4.b Startup Database Queries

Issue Number: 43964

Database queries executed as part of the RISQUE startup process have been optimised to improve performance.

Files affected: Sophis.dll, SophisBasicData.dll

Chapter 4 Servers in 5.3.6.1

This chapter describes the changes made in RISQUE 5.3.6.1 which affect the Sophis servers.

These changes were made for the following servers:

- Integration Service
  - *Corrected Bugs in Integration Service on page 217*

4.1 Upgraded Servers

The following servers were delivered for RISQUE 5.3.6.1:

- Core Services 5.3.6.1
- Integration Service for WebSphere 5.3.6.1
- Risk Management Module 5.3.6.1

4.2 Corrected Bugs in Integration Service

4.2.a Incorrect Yield Curves

Issue Number: 51319

The Integration Service did not update the yield curve if the HISTOTAUX database table did not contain any yield-curve value for the current date. In this case, it updated the yield curve on the last date that had a yield-curve value with the yield curve for the current date.

As of this release, the Integration Service updates yield curves for the current date even if there is no existing value in the HISTOTAUX database table for that date.

Files affected: SphBasicData.dll, SphBasicDataGUI.dll

Chapter 5 Toolkit Changes in 5.3.6.1

This chapter describes the toolkit changes in RISQUE 5.3.6. These changes were made in the following areas:

- *Enhancements on page 219*

Important You do not need to recompile your Toolkit projects against the new API.

5.1 Enhancements

5.1.a Default Value of [ADM] Parameters

Issue Number: 52479

The default value of the following parameters in the `[ADM]` section of the **`risk.ini`** file has been changed to `false`:

- `noOrb`
- `synchronousDualOrb`

This applies to custom APIs.

Files affected: SphAPI.dll

Part 3: RISQUE 5.3.6.2

SOPHIS

Released: 16 November, 2009

This part describes:

▷The corrections in this version

▷The enhancements in this version

▷The toolkit changes in this version

Chapter 1 Corrected Bugs in 5.3.6.2

This chapter describes the bugs fixed in RISQUE 5.3.6.2. These fixes were made in the following areas:

1.1 Accounting

1.1.a Auxiliary Ledger Did Not Generate Postings

Issue Number: 53588

In some instances, postings were not generated for the realised if the Auxiliary Ledger was run on a large number of tickets.

Files affected: SphAccounting.dll

1.1.b Incorrect Amount in Original Currency

Issue Number: 52726

The **Amount Original Currency** column of the **Account Postings** window displayed the asset value instead of the unrealised value in instrument currency. This error only occurred for calculating the equity unrealised of forex trades.

Files affected: SphAccounting.dll

1.1.c Unrealised Forex

Issue Number: 53134

The P&L Engine incorrectly split the unrealised amount into equity unrealised and equity forex unrealised amounts if the following conditions were true:

- The accountancy currency and the currency of the instrument that the deal was booked on were identical.
- The P&L engine aggregated positions.

As a result, an unrealised forex amount was displayed in the **Equity Fx Unrealized** portfolio column.

Files affected: SphAccounting.dll

1.1.d Incorrect Realised Forex Amount

Issue Number: 52720

The Auxiliary Ledger generated incorrect realised equity and realised forex amounts if it was first run on a buy trade and then on a sell trade. This only occurred if the WAP method was defined in the **AL Method** column of the **Auxiliary Ledger Rules** window.

Files affected: SphAccounting.dll

1.1.e Account Postings with Zero Quantity

Issue Number: 52320

An Oracle error occurred if the Auxiliary Ledger was run on account postings with zero quantity.

Files affected: SphAccounting.dll

1.1.f Balance Postings

Issue Number: 53885

In some instances, an Oracle error occurred if the Balance Engine was run. As a result, RISQUE did not send some balance postings.

Files affected: SphAccounting.dll

1.2 Documentation

1.2.a Update to User Rights Documentation

Issue Number: 53341

Descriptions of the following user rights have been added to the *User Rights* chapter of the *Administration Guide:*

- Power Imports
- Power Nomination
- Power Profile

Book Affected: Administration Guide

1.2.b Market Parameters

Issue Number: 53215

The description of the following parameters in the market dialog box were improved in this release:

- **Coupon Generation Shift**
- **Hair cut**

A new section, *Defining the Coupon Shift for Packages*, has also been added to the *Exchanges* chapter to describe setting the **Coupon Generation Shift** parameter.

Book Affected: Administration Guide

1.2.c Show Current Contract Information

Issue Number: 53377

A description of the fields in the current contract window has been added to the *Show Current Contract* section of the *Advanced Stock Loan User Guide*.

Book Affected: Advanced Stock Loan User Guide

1.2.d Billing Frequency

Issue Number: 53376

Information about the **Billing Frequency** drop-down list in the **COMMISSION** frame of the **Stock Loan / Repo Input** dialog has been corrected. This is found in the *Stock Loan Parameters* section of the *Advanced Stock Loan User Guide*.

Book Affected: Advanced Stock Loan User Guide

1.2.e Stock Loan Preferences

Issue Number: 52551

Information about the following preferences in the **Stock Loan** tab of the **Preferences** dialog was missing:

- Limits Close Date
- Enable Strict Agreement Model Filtering in Limits Calculation

This information has been added as of this release.

Book Affected: Administration Guide, Collateral Management Guide

1.2.f Master Currency Global Preference

Issue Number: 53373

The description of the `MasterCurrency` global preference has been improved in this release.

Book Affected: Administration Guide

1.2.g Standard Indicator

Issue Number: 54179

Information about **Standard** collateral indicators was missing from the *Collateral Management Guide*.

Book Affected: Collateral Management Guide

1.2.h Line Picking

Issue Number: 51628

Information about line picking on short positions was missing from the *Portfolio Management Guide*.

Book Affected: Portfolio Management Guide

1.3 Portfolios

1.3.a Stock Loan Fees Calculated on Closed Positions

Issue Number: 50026

Automatic tickets for fees were incorrectly generated on closed stock loan positions if the forecast was run.

Files affected: Sophis.dll

1.3.b Average Price of Trades

Issue Number: 54231

The **Average price** column of the **Portfolio** window was not updated if a new deal was booked.

Files affected: SphPortfolio.dll

1.3.c Dynamic P&L Columns after End of Day

Issue Number: 54099

RISQUE behaved unpredictably if dynamic P&L columns were displayed in the **Portfolio** window.

Files affected: Sophis.dll

Chapter 2 Enhancements in 5.3.6.2

This chapter describes the enhancements made in RISQUE 5.3.6.2. These enhancements were made in the following areas:

- *Accounting on page 229*
- *Documentation on page 230*
- *Instruments on page 231*
- *Portfolios on page 231*
- *Reporting Module on page 232*

2.1 Accounting

2.1.a Gross Amount in Instrument Currency

Issue Number: 52737

A new amount type, **Gross Amount in Instrument Currency**, has been added to the **Amount type** column of the **Account Trade Rules** window. If this amount type is selected and the instrument currency is different from the payment currency, the gross amount of the deal in the instrument currency is displayed in the **Amount Original Currency** column of the **Account Postings** window.

Book Affected: Back Office User Guide

Files affected: SphAccounting.dll

2.1.b Base Amount in Instrument Currency

Issue Number: 54222

A new amount type, **Base Amount in Instrument Currency**, has been added to the **Amount type** column of the **Account Trade Rules** window to balance bond accrual in trade postings. If this amount type is selected and the instrument currency of a bond is different from the payment currency, the base amount of the deal in the instrument currency is displayed in the **Amount Original Currency** column of the **Account Postings** window.

Book Affected: Back Office User Guide

Files affected: SphAccounting.dll

2.2 Documentation

2.2.a Reversal Types for Account Postings

Issue Number: 52013

Information about the following reversal types have been added to the *Back Office User Guide*:

- **P&L Eq Unrealized**
- **P&L Eq Fx Unrealized**

These reversal types can be found in the **Reversal Type** column of the **Account Posting Types** window.

Book Affected: Back Office User Guide

2.2.b Managing Users and Groups and Security Log Chapters

Issue Number: 53344

The *Managing Users and Groups* and *Security Log* chapters of the *Administration Guide* has been updated to improve the layout and readability.

Book Affected: Administration Guide

2.2.c Futures and Forwards Documentation

Issue Number: 54210

The futures and forwards documentation in the *Instrument Reference Guide* has been updated to improve the layout and readability. The *Futures and Forwards* chapter has been replaced with the following chapters:

- *Introduction to Futures and Forwards*
- *Future Window*
- *Standard Futures and Forwards*

- *Notionnel Futures and Forwards*
- *Forex Futures and Forwards*

Book Affected: Administration Guide

2.3 Instruments

2.3.a Coupon Type on the Basket Swap Tab

Issue Number: 53096

The following modifications have been made to the entry of the **Accrued** coupon type in the **Underlying history** frame on the **Basket Swap** tab:

- The **Accrued** entry is displayed in italics.
- **Today** is displayed before the current date in the **Trade date/Components** column.

Files affected: SphBasicDataGui.dll

2.4 Portfolios

2.4.a OldForexBehaviour Global Preference

Issue Number: 53120

The `OldForexBehaviour` global preference has been enhanced for this release. This enhancement effects the way that forex spot deals are treated if they are entered as a forex forward. Settings 1 and 2 have not been changed. Setting 3 now produces the behaviour that was previously specified by setting 0. The behaviour now defined by setting 0 is new for this release.

Table 2-1 describes the enhancements to the `OldForexBehaviour` global preference:

Table 2-1 OldForexBehaviour Global Preference Enhancements

Setting	Behaviour
0	If a spot trade is entered as a forward, it is displayed as a forward in the **Portfolio** window and aggregated with forwards that are settled on the date the spot deal settles. This enables spot deals to be used to close forward positions. Spot deals that are not entered as forwards are not grouped with forward deals, regardless of the value date. To enter a spot trade as a forward in the **FX Deals** window, create a spot trade, enter the settlement date in the **Forward date** text box, and select the **FX Forward outright** check box. For example, to close a $1m position on a forward that expires on 12/11/09, book a spot deal for -$1m as a forward on 10/11/09. This assumes that the **Value Days** text box in the **Forex** window is set to 2 for the pair. The forward and the spot booked as a forward have the same settlement date and the position is closed.
3	Spot deals are not grouped with forward deals, regardless of the value date. Spot trades entered as forwards, as described for setting 0, are displayed as spots. Other unsettled forward deals are always displayed as forwards. For example, if the value days for a currency pair is 2, any forward that settles in two days or less from the current date is treated as a spot if the negotiation date is the current date, and is treated as forward if the negotiation date is in the past. On the settlement date, they are treated as spot deals. ***Note:*** Prior to this release, this was the behaviour for the setting 0.

Book Affected: Administration Guide

Files affected: SphAccounting.dll, SphPortfolio.dll, SphPortfolioGUI.dll

2.5 Reporting Module

2.5.a Environment Variables as Tokens

Issue Number: 48517

It is now possible to define environment variables as tokens in the **Output File Name**, **Output Directory**, or **Source Data** text boxes of the **Report Template** window.

Book Affected: Reporting Module User Guide

Files affected: SophisReporting.dll, SophisReporting.sql

Chapter 3 Servers in 5.3.6.2

This chapter describes the changes made in RISQUE 5.3.6.2 which affect the Sophis servers.

These changes were made for the following servers:

- Memory Cache Server
  - *Corrected Bugs in Memory Cache Server on page 233*

3.1 Upgraded Servers

The following servers were delivered for RISQUE 5.3.6.2:

- Core Services 5.3.6.2
- Integration Service - WebSphere 5.3.6.2

3.2 Corrected Bugs in Memory Cache Server

3.2.a Root Portfolio Reporting

Issue Number: 51290

The following message was displayed if **Reporting (F8)** was performed on the root portfolio in the **Portfolio** window:

```
Couldn’t retrieve datas from Cache server (End of File : Maximum size
521297 of input buffer reached).
Switch back to regular local reporting for these positions.
```

Files affected: SphPortfolio.dll

3.2.b Incorrect Portfolio Columns

Issue Number: 52216

The values of the following portfolio columns were incorrect if the Memory Cache Server was used to cache position data:

- **Average Price**
- **Average Price CCY**
- **Income CCY**
- **Other Fx P&L**
- **Realized CCY**
- **Unrealized CCY**
- **Unrealized Fx**

The values in these columns were only incorrect if the `withDynamicPnl` parameter was set to `true` in the **`MemoryServer.ini`** file.

Files affected: SphPortfolio.dll

3.2.c Incorrect Dynamic P&L Columns

Issue Number: 53635

The values in dynamic P&L columns were not correct if the client was connected to the Memory Cache Server.

Files affected: SphPortfolio.dll

Chapter 4 Toolkit Changes in 5.3.6.2

This chapter describes the toolkit changes in RISQUE 5.3.6.2. These changes were made in the following areas:

- No changes, other than the signature modification of the Low-Level toolkit, were made to the toolkit in this release.

Important A change was made in the method signature of `isForwardDeal` in the InstrumentManagement.h of the Low-Level toolkit. As a result, you must recompile any low-level toolkit projects which use this method.

Part 4: RISQUE 5.3.6.3

SOPHIS

Released: 18 January, 2010

This part describes:

▷The corrections in this version

▷The enhancements in this version

▷The toolkit changes in this version

Chapter 1 Corrected Bugs in 5.3.6.3

This chapter describes the bugs fixed in RISQUE 5.3.6.3. These fixes were made in the following areas:

1.1 Merged Versions

1.1.a Merged Versions

The bugs and enhancements from the following versions have been merged in this release:

- 5.3.5.9
- 5.3.5.10
- 5.3.5.11
- 5.3.4.20
- 5.3.4.21
- 5.3.4.22
- 5.3.3.18
- 5.3.2.16
- 5.3.2.17
- 5.3.2.18

1.2 Accounting

1.2.a Amount and Quantity in Trade Postings

Issue Number: 54010, 54351

In some instances, the Trade Engine generated account postings with the quantity and amount set to zero.

Files affected: SphAccounting.dll

1.2.b Incorrect Auxiliary Ledger Posting

Issue Number: 54012

The Auxiliary Ledger incorrectly generated an extra posting on the short account of an ABS position if that ABS position was closed.

Files affected: SphAccounting.dll

1.2.c Amortisation on Closed Positions

Issue Number: 54619

Amortisation postings were generated for ABS Bond positions even after the positions were closed.

Files affected: Sophis.dll

1.2.d Allotments in the P&L Engine

Issue Number: 54350

An error occurred if the P&L engine was run on positions without an allotment.

Files affected: SphAccounting.dll

1.2.e Account Postings from P&L Engine

Issue Number: 56722

Account postings were not generated by the P&L engine in the 64-bit version of RISQUE.

Files affected: SphAccounting.dll

1.2.f Balance Posting Comments

Issue Number: 55813

The description in the **Comments** column of the **Account Postings** window was set to **Incremental** if a balance posting was not generated correctly. As of this release, a description of the reason is displayed in the **Comments** column.

For example, if an account number could not be matched, the following message is displayed in the **Comments** column:

```
Error: No Account Number Found
```

Files affected: SphAccounting.dll

1.2.g Viewing Postings From the Accounting Summary

Issue Number: 44410

It was not possible to view postings in the **Account Postings** window if the following conditions were true:

- The posting had a status of **HoldAL** or **Sent From AL**.
- The **Account Postings** window was opened by double-clicking the corresponding line in the **Accounting Summary** window.

Files affected: SphAccountingGUI.dll

1.2.h Lending and Borrowing Rediscount in the P&L Engine

Issue Number: 53755

The setting of the **Lending & Borrowing Rediscount** parameter of the **Preferences** dialog for the user was taken into account by the P&L engine instead of the setting defined in the **Preferences** dialog for the account entity.

Files affected: SphAccounting.dll

1.2.i Postings for Closed Positions

Issue Number: 54435

P&L postings were generated for closed positions without an unrealised amount.

Files affected: SphAccounting.dll

1.2.j Fund Series Postings in P&L Engine

Issue Number: 56266

The position identifier of P&L postings for fund series positions was displayed as an incorrect negative value in the **Position ID** column of the **Account Postings** window. This occurred only if the engine type was **P&L**.

As a result, the value in the unrealised amount generated by the P&L engine was incorrect because the position identifier did not match the identifier used by the **Auxiliary Ledger**.

As of this release, P&L postings for fund series positions use the identifier of the series position. This identifier is always a positive value.

Files affected: SphAccounting.dll, SophisFundBase.dll

1.2.k Accounting Book ID in Account Postings

Issue Number: 57144

The ID number in the **Accounting Book ID** column of the **Account Postings** window was not correct if account postings were generated by the P&L engine in the 64-bit version of RISQUE.

Files affected: SphAccounting.dll

1.3 Back Office

1.3.a Payment Method for Automatic Tickets

Issue Number: 55456

The payment method in the **Payment Method** column of the **Automatic Trades** window was not retrieved from the settlement instructions of the third party. This error occurred for tickets generated by launching the forecast.

Files affected: SphPortfolioGUI.dll

1.3.b Applying an Event to a Mirrored Deal in Pending Deals

Issue Number: 49056

RISQUE behaved unpredictably if a back office event was applied to a mirrored deal in the **Pending deals** blotter. This error occurred if the mirrored deal contained more than 30 child deals.

Files affected: SphBOKernelGUI.dll

1.3.c Back Office Parameters Tab Order

Issue Number: 50996

The tab order on the **Credit Risk Calculation** tab of the **Back Office Parameters** window was incorrect.

Files affected: SphBOKernelGUI.dll

1.3.d Instructions Group Error

Issue Number: 52141

The internal status name of the group line in the **Instructions** blotter was incorrectly changed to a new internal status if the following conditions were true:

- The instructions were grouped by **Internal Status**.
- The internal status of the first instruction in the group was changed to a different internal status.

Files affected: SphBO_CASH_GUI.dll

1.3.e Cash Flow in Nostro Management

Issue Number: 52481

Cash flow was not displayed in the **Cash Flow** view of the **Nostro Management** window for the maturity date of a stock loan deal. This error occurred if the following conditions were true:

- The stock loan deal contained hedging and haircut values.
- Either of the following were specified in the **Stock Loan / Repo Input** window for the deal:
  - A depositary was specified.
  - The **SM/DT** was set to **DVP** or **FOP**.
- The following check boxes were selected on the **Nostro Mgt. Report Parameters** window:
  - **Calculate Cash Interest**
  - **Calculate Position Cash Flow**
  - **Stock Loan Expiry Cash Flow**

Files affected: SphTreasury.dll

1.3.f Nostro Management Error

Issue Number: 52618

The **Nostro Management** report displayed incorrect values in the 64-bit version of RISQUE.

Files affected: SphTreasury.dll

1.3.g Warning for Saving Line Picking

Issue Number: 53893

No warning message was displayed if you tried to save a line picking of a position and the following conditions were true:

- The line picking of the position had been modified.
- The status of the corresponding ticket in the kernel workflow could not be linked to a line picking event.

As a result, there was no indication that the modification was not saved.

Files affected: SphBOKernelGUI.dll

1.3.h Broker Fees

Issue Number: 49224

The following Oracle message was displayed if a new line was added to the **Broker Fees** window:

```
ORA-00001: unique constraint PK AUDIT FRAISTIERS violated
```

This occurred only if lines had already been defined in the window.

This issue occurred because a primary key was added to the `IDENT` column of the `AUDIT_FRAISTIERS` table. As of this release, primary keys were added to all columns of the `AUDIT_FRAISTIERS` table.

Files affected: SphBOKernel.sql

1.3.i Document Generation

Issue Number: 55343

Payment documents were generated for deals that had a document generation rule defined for its allotment with the DO NOT GENERATE PAYMENT template.

Files affected: SphBackOfficeOTC.dll, SphInxNetting.dll

1.3.j Fees for Futures

Issue Number: 56057

The following Oracle message was displayed if a new row was added to the **Fees for future** window:

```
ORA-00001: unique constraint PK AUDIT_MO_FRAIS violated
```

This occurred because a primary key was added to the `IDENT` column of the `AUDIT_MO_FRAIS` table. As of this release, primary keys were added to all columns of the `AUDIT_MO_FRAIS` table.

Files affected: SphBOKernel.sql

1.3.k Creating Third Parties Error

Issue Number: 53706

It was not possible to create third parties if duplicate users were defined in the **User property** tab of the **Back Office Parameters**.

Files affected: SphBOKernel.dll

1.4 Coherency

1.4.a Bonds with Spread

Issue Number: 51984

Bond spreads were not updated if they were changed by another user connected to the coherency channel. Bond spreads are updated based on the setting of the `DontKeepCalcDataOnAJTI` global preference.

Files affected: Sophis.dll

1.4.b Update for a Deal on a Share

Issue Number: 55374

Dividends were incorrectly loaded from the `DIVIDENDE` database table if the following conditions were true:

- A user connected to the SEC created a deal on a share.
- The deal was created in a portfolio that was in the entry spot list of another user also connected to the SEC.
- The share had not previously been loaded by the second user.

Files affected: Sophis.dll

1.4.c Index-Future Deal Coherency Update

Issue Number: 55385

Market data was incorrectly loaded if the following conditions were true:

- A user connected to the SEC created a deal on an index future.
- The deal was created in a portfolio that was in the entry spot list of another user also connected to the SEC.
- The index future had not previously been loaded by the second user.

Files affected: Sophis.dll

1.5 Collateral Management

1.5.a Securities Collateral Rating Display

Issue Number: 53199

A display issue occurred if the **Securities Collateral Rating** column was present in the **Contract Management** window configuration.

Files affected: SphPortfolio.dll

1.5.b Agreement Audit History

Issue Number: 53123

Changes to the **Free Cash Account** interest rate were not recorded in the Audit History. The **Floating Rate** drop-down list displayed XXX instead of the correct value. It was also possible to select another value in the drop-down list.

Files affected: SphCollateral.dll

1.5.c Sorting Time

Issue Number: 54592

Sorting performance was slow in the explanation tabs of the **Securities Report** window. As of this release, the performance has been improved for users with and without entry points.

Files affected: SphCollateral.dll, SphCollateralGUI.dll

1.5.d Securities Report Performance

Issue Number: 53744

The performance of the Securities Report was affected if the **Securities Report** window was launched by users with entry spots defined in their user properties.

Files affected: SphCollateral.dll

1.5.e View List in Securities Report

Issue Number: 55059

The **View** drop-down list on the **Securities Report** window was not correctly displayed if the view was changed from **Flat** to another view type.

Files affected: SphCollateral.dll

1.5.f End of Year in Securities Report

Issue Number: 53378

Balance tickets from before the end of year were incorrectly taken into account in Securities Report scenarios after the end of year. As of this release, balance tickets are no longer taken into account in the Securities Report.

Files affected: SphCollateral.dll

1.5.g Securities Report Market Rebate

Issue Number: 53099

The value in the **Market Rebate** column of the **Securities Report** window was incorrectly multiplied by 100. As of this release, the value is displayed in percentage.

Files affected: SphCollateral.dll

1.5.h Direction of Cash Transfer

Issue Number: 50191

It was not possible to change the direction of a cash transfer in the **Receive/Deliver** drop-down list on the **Transfer To/From Collateral Cash** window without first entering an amount in the **Cash Amount** text box.

Files affected: SphCollateralGUI.dll

1.5.i Global Margin Call for Cash Pool

Issue Number: 52629

The **Global Cash Margin Call** window did not open if it was called from the context menu of the **Cash Pool Collateral** line on the **Stock Loan and Repo Mgt** window.

Files affected: SphCollateralGUI.dll

1.5.j Incorrect Window Opened for Transfer Tickets

Issue Number: 50302

The standard deal ticket window was displayed if a Free Cash credit/debit or transfer ticket was opened from the **Movement** window. As of this release, the following windows are opened if a Free Cash credit/debit or transfer ticket was opened from the **Movement** window:

- The **Transfer To/From Collateral Cash** window is displayed if a transfer ticket is opened from the **Movement** window.
- The **Debit/Credit Free Cash Pool** window is displayed if a credit/debit ticket is opened from the **Movement** window.

Files affected: SphPortfolioGUI.dll, SphCollateral.dll, SphCollateralGUI.dll

1.5.k Audit-History Collateral Agreement Error

Issue Number: 52487

Changes to the controls of the **Free Cash Account** frame of the **CFD** tab of the **Collateral Agreement** window were not displayed in red in the **Collateral Management Audit** window.

Files affected: SphCollateral.dll

1.5.l CFD Model Agreements

Issue Number: 50090

CFD Model agreements were displayed in the **Collateral Management Agreement** window if the Advanced CFD module was disabled. As a result, a warning message was displayed if a CFD Model agreement was selected.

As of this release, CFD Model agreements are no longer listed in the **Collateral Management Agreement** window if the Advanced CFD module is disabled.

Files affected: SphCollateralGUI.dll

1.5.m Internal Error on Global Margin Call

Issue Number: 52301

In some instances, an internal error occurred if a global margin call was launched from a contract in the **Stock Loan and Repo Mgt** window. This occurred if there was an error in the column configuration for the **Stock Loan and Repo Mgt** window.

Files affected: SophisInterface.dll, SphCollateralGUI.dll

1.5.n Credit Risk Calculation Tab Order

Issue Number: 52857

The tab order on the **Credit Risk Calculation** tab of the **Collateral Agreements Parameters** window was incorrect.

Files affected: SphCollateralGUI.dll

1.5.o Cash Transfer Error Message

Issue Number: 52175

It was possible to ignore the error message that was displayed if a free cash transfer was attempted in the **Debit/Credit Free Cash Pool** window and there were insufficient funds for the transfer. As of this release, the focus remains on the error message until the user clicks the **OK** button.

Files affected: SphCollateralGUI.dll

1.5.p Incorrect Threshold Currency

Issue Number: 54402

The **Threshold [Ccy]** dynamic field in the **Collateral Limit Explanation** window displayed the limits currency instead of the reference currency if the window was opened after a limits calculation had been performed on the corresponding deal.

Files affected: SphCollateralGUI.dll, SphCollateralGUI.txt

1.5.q Use of Plural in Stock Loan Title Bars

Issue Number: 52682

The plural was incorrectly used in the title bar of the following windows if there was only one entry in the window:

- The word **contract** in the title bar of the **Stock Loan and Repo contract management** window.
- The word **component** in the title bar of the **Deals On Basket** window.

For example, if there was only one component in the **Deals On Basket** window, the title bar displayed **1 components** instead of **1 component**.

Files affected: SphPortfolioGUI.dll, SphCollateralGUI.dll

1.5.r Free Cash Currency Colour

Issue Number: 52205

The currency colour of the amount in the **Cash Deposit Amount** for the **Free Cash** line in the **CFD Report** was incorrect.

Files affected: SphCollateral.dll

1.5.s Securities Report Configuration

Issue Number: 55084

The view and column configuration were not saved correctly if they were modified from the default in the **Securities Report** window.

Files affected: SphCollateralGUI.dll

1.5.t Sorting in Securities Report Main Tab

Issue Number: 54380

It was not possible to sort by column in the **Main** tab of the **Securities Report** if any of the following views in the **View** drop-down list were selected:

- **Portfolio**
- **Portfolio (Top)**
- All toolkitted views

Files affected: SphCollateralGUI.dll

1.5.u Netted Positions in the Securities Report

Issue Number: 52466

The quantity in the **Quantity Total** column of the **Securities Report** window was incorrect for multiple positions on the same instrument settled by a netted instruction. The occurred because the total quantity was calculated as the quantity of the parent netted instruction plus the sum of all the child netted instruction quantities.

As of this release, the total quantity is equal to the settled quantity of the parent netted instruction.

Files affected: SphCollateral.dll

1.5.v Closed Positions in the Securities Report

Issue Number: 54028

Closed positions were displayed in the **Securities Report** window with a quantity of zero.

As of this release, these positions are no longer displayed in the report by default. You can, however, choose to display these positions by setting the new global preference, `SecuritiesReportShowZeroInstruments`, in the `RISKPREF` table.

This preference has the following settings:

- 0 — positions with a quantity of zero are not displayed in the **Securities Report** window. This is the default.
- Any other integer — positions with a quantity of zero are displayed in the **Securities Report** window.

Book Affected: Administration Guide

Files affected: SphCollateral.dll

1.5.w Collateral Rules in Limits Calculation

Issue Number: 54166

Collateral rules were not taken into account in the **Limits Calculation** window unless RISQUE was restarted if the following conditions were true:

- A collateral rule was modified in the **Limits Definition** window.
- The **Limits Calculation** window was closed and re-opened.

Files affected: SphCollateral.dll

1.5.x Next Ex-Coupon Date in Securities Report

Issue Number: 53098

The date in the **Next-Ex Coupon Date** column of the **Securities Report** was not displayed if the ex-coupon date was calculated from the market in the **Dividends** table.

Files affected: SphCollateral.dll

1.5.y Market Spread in Securities Report

Issue Number: 53100, 53101

The following error occurred in the **Market Spread** column of the **Securities Report** window:

- The value was incorrect if the repo curve date in the **Repo margin** window for the corresponding security was a relative date.

In previous releases, the market spread was calculated from the average of the values in the **Repo rate**, **Bid**, and **Ask** columns of the **Repo margin** window for the corresponding security.

As of this release, the value in the **Market Spread** column depends on whether **Repo rate**, **Bid**, or **Ask** value was selected in the **Repo Curve** preference on the **Stock Loan** tab of the **Preferences** window.

Book Affected: Collateral Management Guide, Administration Guide

Files affected: SphCollateral.dll

1.5.z Deal Input Time

Issue Number: 53704

The time in the **Time** text box of the **Deal Input** window was not populated with the current time if a deal was booked from the **Securities Report**.

Files affected: SphCollateralGUI.dll

1.5.aa Incorrect Precision in the Collateral Agreements

Issue Number: 52701

The number of decimals displayed in the following columns in the **Collateral Management Agreements** window did not reflect the number of decimals specified in the **Spread, Commission** text box on the **Display** tab of the **Preferences** window.

- In the **Principal Stocks** tab:
  - **CFD Short**
  - **CFD Long**
- In the **Cash Collateral Remuneration** list box on the **Margin Call** tab:
  - **Short Margin**
  - **Long Margin**

Files affected: SphCollateral.dll

1.5.ab Explanation Tab Refresh in Securities Report

Issue Number: 55954

The contracts in the explanation tabs of the **Securities Report** window were refreshed after any action was performed in the tab.

Files affected: SphCollateralGUI.dll

1.5.ac Split Positions in the Securities Report

Issue Number: 55143

Book positions in the explanation tabs of the **Securities Report** window were incorrectly split if the view was set to **Flat** or **Portfolio**.

Files affected: SphCollateral.dll, SphCollateralGUI.dll, SphSecuritiesReportCriteria.h, SphSecuritiesReportResult.hl

1.5.ad Counterparty and Entity Columns in the Securities Report

Issue Number: 55893

Third parties were not displayed in the **Counterparty** and **Entity** columns in the **Securities Report** if the view was set to **Entity** or **Entity/Counterparty**.

Files affected: SphCollateral.dll, SphSecuritiesResult.h

1.5.ae Collateral Pool Report Results

Issue Number: 53323

The values in the **Collateral Pool Report** window were incorrect if the report was launched for all counterparties.

Files affected: SphCollateral.dll

1.5.af Incorrect Display of the Realised in Advanced CFD Report

Issue Number: 52191

The realised of contract for difference (CFD) deals was incorrectly displayed in the **Cash Pool Collateral** line of the **CFD Report** if two or more interest rates were defined for the period in the **Cash Collateral Remuneration** list box on the **Margin Call** tab of the **Collateral Agreement** window.

This error occurred because only the first interest rate in the **Cash Collateral Remuneration** list box on the **Margin Call** tab of the **Collateral Agreement** window was used to display the realised in the **CFD Report**.

Files affected: Sophis.dll, SphCollateral.dll

1.5.ag Contract Type Column in the Securities Report

Issue Number: 55430

No data was displayed in the **Contract Type** column on the explanation tabs of the **Securities Report** window for the following types of stock loan and repo deals:

- Cash vs securities per contract
- Securities vs securities per contract

Files affected: SphCollateral.dll

1.5.ah Excluded Type Collateral Indicator

Issue Number: 52010

Closed positions were displayed in the **Collateral Limits Calculation** window if the following conditions were true in the **Collateral Indicator Selector**:

- The **Indicator Name** column was set to **Excluded**.
- The **Condition1**, **2**, or **3** column was set to **Closed Position**.

Files affected: SphCollateral.dll

1.5.ai Accrued Commission for Stock Loans

Issue Number: 56655

The unrealised amount of stock loans was incorrect between the reset date and the generation date if the value defined by the **Day after Offset** parameter was larger than 1. The **Day after Offset** parameter is located on the **Fees and Interest** tab of the **Collateral Agreement** window.

This occurred because the accrued amount was not included in the unrealised amount and future coupons were not discounted correctly.

Files affected: SphCollateral.dll

1.5.aj Stock Loan Information

Issue Number: 55480

Certain aspects of stock loan instrument data was corrupted if a new deal was booked on a stock loan or repo. This prevented the instrument from being processed correctly by toolkit conditions such as allotment conditions or kernel workflow. This resulted in incorrect data used by these conditions.

Files affected: SphPortfolioGUI.dll

1.5.ak Stock Loan Interest and Commission

Issue Number: 55898

Commission and interest tickets were generated for stock loan partial returns if the relevant collateral agreement was defined so that commission and interest is returned if a partial return was performed.

Files affected: SphCollateralGUI.dll

1.5.al SM/DT and Payment Method Information

Issue Number: 55352

In previous releases, the SM/DT and payment method values for stock loan events were always inherited from the initial stock loan or repo deal.

As of this release, the following changes have been made regarding from where the SM/DT and payment method values are taken:

- Securities margin calls — the SM/DT is taken from the settlement instructions of the counterparty.
- Cash margin calls — the SM/DT and payment method are taken from the settlement instructions of the counterparty.
- Commission and interest cash remuneration — the payment method is taken from the settlement instructions of the counterparty.

Note If there are no counterparty settlement instructions for cash deals, the SM/DT and payment method values are set to XXX.

- For the following events, the SM/DT and payment method are set to XXX:
  - Repricing
  - Maturity Modification
  - Spread Modification
- For the following events, the SM/DT value is taken from the initial stock loan or repo deal:
  - Roll
  - Partial Return
  - Total Return

Files affected: SphPortfolio.dll, SphCollateral.dll, SphPortfolioGUI.dll, SphCollateralGUI.dll

1.6 Commodities

1.6.a Commodity-Index Modifications

Issue Number: 48620

The reference of a saved commodity index was not displayed in the **Commodity Index** window. As a result, it was not possible to save modifications made to the commodity index in the **Commodity Index** window.

Files affected: Sophis.dll

1.6.b XML Export of Pin-Risk Analysis in Batch Mode

Issue Number: 52124

It was not possible to generate the XML results of the pin-risk analysis in batch mode.

Note The format of the XML input file for the pin-risk analysis has changed.

Files affected: scenario.xsd, SphPortfolio.dll, SphCommodities.dll

1.6.c Swap Automatic Tickets

Issue Number: 55938

Cancel tickets and new coupon tickets were generated if the following conditions were true:

1. Two deals on the same swap were created with different depositaries.
2. A forecast was launched and automatic tickets were generated.
3. The automatic tickets were transmitted and a closing ticket was not generated.
4. Forecasts were launched again.

Files affected: SphPortfolio.dll

1.6.d Global Delta Adjustment and Global Delta Agreement Values

Issue Number: 54206

The values displayed in the **Global Delta Adjustment** and **Global Delta Agreement** columns of the **Portfolio** window were incorrect if one of the following conditions were true:

- The portfolio contained options that were not barrier options.
- The portfolio contained options with an underlying that was not XAU/USD.

Files affected: SphPortfolio.dll

1.6.e Forecast Date of Std Future Average Swaps

Issue Number: 48732

The back-office payment date was always displayed in the **Forecast Date** column on the **Received leg cash flow** or **Paid leg cash flow** tab of the **Swap** window if the **Std Future Average** value was selected from the **Fixing type** drop-down list.

Note This was an interface issue and automatic tickets were generated on the correct date.

Files affected: SphAPI.dll

1.6.f Pin-Risk Analysis Commodity Parameter

Issue Number: 54423

All commodities were available from the **Commodity** drop-down list on the **Pin Risk Analysis Scenario Parameters** dialog box.

As of this release, only commodities that are the underlying instrument of an option booked in the portfolio are available from the **Commodity** drop-down list.

Files affected: SphCommoditiesGUI.dll, SphCommodities.dll

1.6.g Audit of Correlations

Issue Number: 55889

No history was displayed in the **Audit of commodities correlations** window if the prices date was set to a date in the past.

Files affected: SphCommodities.dll

1.6.h LME Future Generation with Prices Date in the Past

Issue Number: 56463

LME futures generated by clicking the **Expiry date definition** button on the **Commodity** window were created with the type set to **ME Future** if the prices date was set to a date in the past.

Files affected: SophisBasicData.dll

1.6.i Bank Holidays of Std Future Average Swap Leg

Issue Number: 44743

The leg of a swap with the fixing type **Std Future Average** took the bank holidays of the market of the underlying instrument and the bank holidays of the currency into account instead of only the bank holidays of the market.

Files affected: Sophis.dll

1.6.j Decimal Places of Values in the Pin-Risk Analysis

Issue Number: 51937

Values displayed in the **Pin Risk Analysis** window are now rounded to one decimal place.

Note If the strike or spot value is a whole number, no decimal places are displayed.

Files affected: SphPortfolioAnalysisGUI.dll, SphCommoditiesGUI.dll

1.6.k Paste from Microsoft Excel into Clauses Window

Issue Number: 40819

It was not possible to copy data from Microsoft Excel and paste it into the **Clauses** window of an Asian option.

Files affected: SphBasicDataGui.dll, SophisInterface.dll

1.7 Database

1.7.a Migration Script Performance

Issue Number: 53073

The performance of the following database scripts was reduced if they were executed on the `GR_POINTS` database table:

- `CorrelationAuditDataMigration.ext`
- `VolatilityAuditDataMigration.ext`

Files affected: AllMarketDataMigration.sql

1.7.b Yield-Curve Oracle Error

Issue Number: 53766

An Oracle error message was displayed if an attempt was made to define a yield curve or if an attempt was made to modify a point on a yield curve.

Files affected: SDBC.dll

1.7.c Preferences Dialog Box Error

Issue Number: 53679

The controls of the **Preferences** dialog box displayed the default RISQUE settings instead of those of the user if the database was upgraded from a RISQUE 5.2.x database to a RISQUE 5.3.5.x database.

Files affected: SphBasicDataGui.dll

1.7.d Unnecessary Queries for Index-Future Modifications

Issue Number: 50933

Unnecessary queries were executed on the database by all clients connected to the same message-oriented middleware (MOM), if the following conditions were true:

- More than one client was connected to the same MOM, such as the SEC.
- On one of the clients, a user created an index future or modified a value in the **Future** window of an index-future.

Files affected: SphAPI.dll, SphPortfolio.dll

1.7.e BO_CASH_SCP_EXCLUDE Database Table Upgrade

Issue Number: 54047

An error occurred if an attempt was made to add a new column to the `BO_CASH_SCP_EXCLUDE` database table and the table was not empty.

Files affected: SphBackOfficeCash.sql

1.7.f TITRES Index Error

Issue Number: 53788

An Oracle error message was displayed if an index was created in the `TITRES` database table and an instrument was updated in RISQUE.

This error occurred because the system generated `SYS_NC00278$` column was not created in the `TITRES_HISTO` database table when the index was created.

Files affected: Sophis.dll

1.7.g Global Preference Oracle Error

Issue Number: 55505

An Oracle error message was displayed if the following conditions were true:

1. An instance of RISQUE was started.
2. A second instance of RISQUE, connected to the same database as the first instance, was started.
3. An action was performed in the first instance of RISQUE to create a global preference in the `RISKPREF` database table.
4. The second instance of RISQUE attempted to create the same global preference in the `RISKPREF` database table.

Files affected: Sophis.dll

1.7.h NO_FPNL_SPECIFIC_GRIDS

Issue Number: 53496

The `NO_FPNL_SPECIFIC_GRIDS` global preference was incorrectly spelled as `FPNL_NO_SPECIFIC_GRIDS` in the **`SphPortfolio.sql`** file.

Book Affected: Administration Guide

Files affected: SphPortfolio.sql

1.7.i Loading Environments

Issue Number: 51650

Environments created in a RISQUE version prior to 5.3.5.0 were not loaded correctly in version 5.3.5.0 or higher.

Files affected: SphPortfolio.dll

1.7.j Preferences Dialog Box Error

Issue Number: 52801

The controls of the **Preferences** dialog box displayed the default RISQUE settings instead of those of the user if the database was upgraded from a RISQUE 5.2.x database to a RISQUE 5.3.5.x database.

Files affected: SphBasicDataGui.dll

1.8 Documentation

1.8.a Columns of the Automatic Trades Window

Issue Number: 54223

The *Automatic Tickets* section of the *Portfolio Management Guide* has been updated to include descriptions of the columns of the **Automatic Trades** window.

Book Affected: Portfolio Management Guide

1.8.b Criteria Extractions

Issue Number: 54944

The *Managing Criteria Extractions* section of the *Extractions* chapter of the *Portfolio Management Guide* has been updated to include descriptions of the types of criteria you can select in the **Criterion** list box of the **Criteria for Extraction** dialog box.

Book Affected: Portfolio Management Guide

1.8.c Aggregatable Column in Business Events

Issue Number: 55379

A description of the **Aggregatable** column in the **Business Events** window was missing. It has been added as of this release.

Book Affected: Back Office User Guide

1.8.d Back Office Preferences

Issue Number: 56863

Information has been added about the following drop-down lists in the **Extraction Specific Reporting Dates** frame on the **Back Office** tab of the **Preferences** window:

- **Forecast**
- **CFD**

Book Affected: Administration Guide

1.9 Funds

1.9.a Counterparty of Funds

Issue Number: 45713

The counterparty of a new deal with a fund as the reference was not selected in the **Deal Input** dialog. If the reference fund was changed in the **Deal Input** dialog, then the counterparty of the previously selected fund was still displayed in the **Counterparty** drop-down list.

If the deal was booked, the correct counterparty was saved in the database. The **Deal Input** dialog displayed the correct counterparty if an existing deal was opened.

As of this release, the counterparty in the **Deal Input** dialog always corresponds to the instrument that the deal is booked on.

Files affected: SophisFundBaseGUI.dll

1.10 Installation

1.10.a Batch Mode Startup Error

Issue Number: 55130

In some instances, RISQUE behaved unpredictably if it was started from the command line using the `-D` parameter.

Files affected: SphAPI.dll

1.11 Instruments

1.11.a Standard CFD Commission

Issue Number: 44613

Commissions were generated for standard CFDs even if the position was long.

Files affected: Sophis.dll

1.11.b Maturity Date in Stock Loans

Issue Number: 54433

It was possible to enter a maturity date in the **Stock Loan / Repo Input** window that was earlier than the start date of the deal. As of this release, a warning message is displayed if the maturity date is earlier than the start date.

Files affected: SphPortfolioGUI.dll

1.11.c Incorrect Modification Type of Basket Swaps

Issue Number: 51786

The **Modification type** column of the **Basket Swap** tab of the **Swaps** window incorrectly displayed **Added** instead of **Removed** for adjustments where a share was removed as a result of a merger corporate action.

Files affected: SphBasicDataGui.dll

1.11.d AveDep Clause with Historical Prices

Issue Number: 52510

-10000000 was displayed in the **Value** column of the **Clause** window of AveDep clauses if the following conditions were true:

- The **Fixing Type** drop-down list in the **Options** window was set to a column that was not populated in the **Historical** window.
- The **Last** column in the **Historical** window is populated.
- The AveDep clause **Value** column was manually edited to display the historical fixing.

This was a display issue only.

Files affected: SphBasicData.dll, SphBasicDataGUI.dll

1.11.e Incorrect Convention

Issue Number: 53739

Advanced contract for difference (CFD) deals were booked using the first convention from the **Convention** drop-down list in the **Contract for Difference** input window instead of the selected convention.

Files affected: SphPortfolioGUI.dll

1.11.f Incorrect Value in Modification Type Column

Issue Number: 53802

Incorrect values were displayed in the **Modification type** column on the **Basket Swap** tab of the **Swaps** window for adjustments with **Accrued** displayed in the **Coupon type** column.

As of this release, the **Modification type** column on the **Basket Swap** tab of the **Swaps** window only displays **Unchanged** for adjustments with **Accrued** displayed in the **Coupon type** column.

Files affected: SphBasicDataGui.dll

1.11.g Cross-Currency Swap Switch Leg Error

Issue Number: 53851

The values of the **IR Index** drop-down lists of the **Reset** frames in the **Receiving leg payoff** and **Paying leg payoff** frames on the **General** tab of the **Swap** window were incorrectly changed. This error occurred if the **Switch Legs** button on the **Swap Parameters** frame was clicked on a cross-currency swap.

Files affected: SphBasicDataGui.dll

1.11.h Lending/Borrowing List in Stock Loan Input

Issue Number: 55931

The **Lending/Borrowing** drop-down list disappeared from the **Stock Loan / Repo Input** window if the following conditions were true:

- The stock loan deal was made with a basket as the underlying.
- The **Deals on Basket** window was opened from the **Composition** button in the **Stock Loan / Repo Input** window.
- The composition of the basket in the **Deals on Basket** window was accepted by clicking **OK**.

Files affected: SphPortfolioGUI.dll

1.11.i Payment Offset for CFDs

Issue Number: 40978

The **Payment Offset** specified in the **CFD Template** window was not taken into account in the **CFD Report** for CFDs with the **Realized** payment rule set to **Immediately with Cashpool**. As a result, on the day the realised ticket was generated, the realised was incorrectly considered settled and displayed in the **Realized Settled** column of the **CFD report**.

Files affected: SphCollateral.dll

1.11.j All In Price of Bond Repos

Issue Number: 56601

The value in the **All In Spot** in the **Stock Loan / Repo Input** window for bond repos changed if the deal was closed and re-opened again.

Files affected: SphBasicDataGUI.dll

1.11.k Clean Price Still Editable

Issue Number: 56604

It was possible to modify the **Clean Price[Last Price]** value in the **Bond Repo** window.

Files affected: SphPortfolioGUI.dll

1.11.l Market Category of Variance Swaps

Issue Number: 52934

The theoretical price of variance swaps did not take the volatility surface defined by the **P&L Volatility Curve Family** drop-down list on the **Market Categories** window into account.

Files affected: SphFinance.dll

1.11.m Swap Window Cash Flows

Issue Number: 50434

RISQUE incorrectly deleted the cash flow following a manually added cash flow from the **Paid leg cash flow** and **Received leg cash flow** tabs of the **Swap** window if the following conditions were true:

- A cash flow, whose dates overlapped with the dates of the following cash flow, was manually added to either the **Paid leg cash flow** and **Received leg cash flow** tabs.
- The `OldSwapCustomizedFlows` global preference was set to `0`.

As of this release, the cash flow is not deleted if the `OldSwapCustomizedFlows` global preference is set to `1`.

Files affected: SphFinance.dll

1.11.n Basket Adjustment Window Equity-Fixing

Issue Number: 53309

A warning message was displayed if **0** was entered into the **Fixing** column of the **Basket Adjustment** window.

You can now enter **0** into the **Fixing** column.

Files affected: SphBasicDataGui.dll

1.11.o Historic Correlations with Splits and Dividends

Issue Number: 55442

Historic correlations were incorrect for instruments that had a split or dividend business event defined on the day after a non-business day.

Files affected: SophisHistoricCorrelations.dll

1.11.p Series +1Q CDS Maturity Model

Issue Number: 56468

The CDS maturity model **Series +1Q** in the **Credit Risk Data** window did not add a quarter to maturities that were defined in months.

Files affected: Sophis.dll

1.11.q Bond Seniorities

Issue Number: 45546

Ratings were not displayed in the **Rating (agency)** column of the **Portfolio** window for bonds if the following conditions were true:

- The seniority was defined for the bond in the **Seniority** drop-down list in the **Bond** window.
- The rating was linked to the last seniority listed in the **Seniority** list. Ratings are linked to seniorities in the **Ratings** list of the bond.

Files affected: SophisPortfolio.dll

1.11.r Redemption Error Message

Issue Number: 53236

The following error message was incorrectly displayed if a redemption of 20,000,000 or larger was generated for a convertible bond in the **Redemptions** tab on the **Bond** window:

```
The number must be positive and inferior to 20 000 000.
```

This was a display issue. Prior to this release, the limit for redemptions was 600,000,000.

As of this release, the limit for redemptions has been raised to 10,000,000,000,000,000,000.

Files affected: SophisBasicData.sql, SphBasicDataGUI.dll

1.11.s Interest Days for Bonds

Issue Number: 53519

The value in the **Interest Days** portfolio column was incorrect for bonds with the **Basis** set to **NL/365**. This was a display issue only and did not affect the pricing of the bond.

Files affected: SphFinance.dll

1.11.t Bonds with Allotment

Issue Number: 53207

Allotment were not saved for new bonds if the bond was created by changing the reference of an existing bond that was defined with an allotment. The bond was saved with the default allotment.

Files affected: SphBasicDataGUI.dll

1.11.u Collateralised Debt Obligation Warning Messages

Issue Number: 53653

The following warning message was incorrectly displayed if the **CDO** model was selected from the **Model** drop-down list in the **Swap** window:

```
no credit basket has been defined
```

As of this release, this message is only displayed if an underlying is selected that is not a credit basket.

Files affected: SphFinance.dll

1.11.v Notionnel Future Automatic Ticket

Issue Number: 56087

The closing ticket, generated for the position of a notionnel future with physical delivery type, displayed the theoretical price of the future instead of the last price.

Files affected: SphFinance.dll

1.11.w Zero Coupon Spread for Floating Bonds

Issue Number: 56588

The **MTM ZC Spread** was incorrect for floating bonds defined with the following settings:

- The **Pricing Type** drop-down list was set to **MtM Greeks MtM**.
- The **Spread Type** was set to **YTM Spread**.
- The curve family defined by the **Family Curve** drop-down list was the same as the curve family of the floating rate.

Files affected: Sophis.dll

1.11.x Matrix Volatility

Issue Number: 26080

The value of the **ATM** row of the **Matrix volatility** window was reset to -10000000.00 if the values in the window were deleted.

Files affected: SphBasicDataGUI.dll

1.11.y Yield Curve Calibration for Volatility

Issue Number: 56578

Yield curves were not recalibrated if the relevant volatility was modified.

Files affected: Sophis.dll, SophisFinance.dll, SphVolatility.h, SphYieldCurve.h

1.11.z ASW Spread for Bonds

Issue Number: 52375

The **ASW Spread** portfolio column was not populated for bonds and asset-backed securities.

Files affected: SphPortfolio.dll

1.11.aa Broken Cash-flow Periods of Bonds

Issue Number: 54541

The first broken cash-flow period of fixed bonds were not handled correctly by the ACT/ACT(ISMA)_ISDA06 basis unless the `BROKEN_PERIOD_LAG` global preference was defined.

As of this release, a new global preference, `BROKEN_PERIOD_LAG_BOND`, has been created. The first period of a fixed bond is considered as broken if the start date of the natural cash flow is more than the number of days specified by the `BROKEN_PERIOD_LAG_BOND` preference before the issue date.

The default value of this preference is `7`.

Note Set this preference to a high value, such as 10,000, to obtain the behaviour of previous versions.

Book Affected: Administration Guide

Files affected: Sophis.dll

1.11.ab Relative Date for Maturity Date

Issue Number: 56642

It was not possible to enter a relative date in the **Maturity** text box of the **Stock Loan / Repo Input** window.

Files affected: SphPortfolioGUI.dll

1.11.ac Bonds with Upfront Credit Spread

Issue Number: 56904

The following issues occurred for bonds if the bond's issuer was defined with a credit risk curve with an upfront spread:

- The **Sensitivity** column of the **Detailed Results** frame in the **Bond** window was not calculated for the **CDS Spread** row.
- The CDS spread defined for the bond was not taken into account. As of this release, the CDS spread is added to the upfront spread.

Files affected: Sophis.dll

1.11.ad Income Generated After Final Reset

Issue Number: 52045

Income continued to accrue after final reset for standard contracts for difference (CFDs) using either the **Immediately with Cashpool** or **At Reset (Cashpool rate)** models.

Files affected: Sophis.dll

1.11.ae Incorrect CFD Expiry Tickets

Issue Number: 52023

Expiry tickets were incorrectly calculated for standard contracts for difference (CFDs) using the **Immediately with Cashpool** model.

Files affected: Sophis.dll, sphCollateral.dll

1.11.af Total Return Swap Corporate-Action Data Integrity Errors

Issue Number: 51609

The **Data Integrity Messages** window displayed error messages if the following conditions were true:

- A corporate action was performed on a basket swap and the automatic tickets generated and transmitted.
- The portfolio with the basket swap position was loaded and reporting (F8) was performed on it.

Files affected: SphFinance.dll

1.11.ag Deals Without a Quantity and Underlying

Issue Number: 56070

It was possible to perform a kernel event on a stock loan deal if there was no amount or underlying defined in the **Deal Input** window. As of this release, a quantity and underlying must be defined for a stock loan deal.

Files affected: SphPortfolioGUI.dll

1.11.ah Future Variance

Issue Number: 52600

The future variance value of variance swaps was incorrect on bank holiday dates.

Files affected: SphFinance.dll

1.11.ai Basket Adjustment Accrued Price

Issue Number: 53072

The value in the **Average price** column of the **Basket Swap** tab of the **Swaps** window was incorrect for basket adjustments with **Accrued** in the **Coupon type** column if a basket adjustment with **(No Accrued)** or **Realized** in the **Coupon type** column was performed.

Files affected: SphFinance.dll

1.11.aj Accepting a Deal Without a Quantity

Issue Number: 56070

It was possible to perform a back office event on a deal if there was no amount defined in the **Quantity** text field of the **Deal Input** window. As of this release, a quantity must be defined for a deal.

Files affected: SphPortfolioGUI.dll

1.11.ak Basket Swap Error

Issue Number: 56988

An error message was displayed if an attempt was made to open a basket swap from the **Swaps** window if instruments had previously been deleted from the basket.

Files affected: SphBasicDataGui.dll

1.11.al Swaps and Bonds on Inverse Floating Rates

Issue Number: 57193

The following issues occurred for swaps and floating bonds on inverse floating rates:

- **Fixed** was displayed instead of **Floating** in the **Flow type** column on the **Explanation** tab of the **Bond** window.
- Values were not displayed in the following columns on the **Explanation** tab of the **Bond** and **Swap** windows:
    - **Forward Start Date**
    - **Forward End Date**

Files affected: SphFinance.dll

1.11.am Basket Swap Synthetic-Reset Error

Issue Number: 53491

The following columns of the **Basket Swap** tab of the **Swap** window displayed incorrect values if a synthetic reset was performed after a realized-payment basket adjustment was performed:

- **IR Coupon**
- **Total interest value**

Files affected: SphBasicDataGUI.dll

1.11.an Automatic Business Event Selections

Issue Number: 55895

It was not possible to deactivate automatic business event selection in the Advanced CFD module. As of this release, the CFD_NO_BE_AUTO global preference has been added. The possible values for CFD_NO_BE_AUTO are as follows:

- 0 — specifies that business events are automatically selected at CFD deal creation.
- 1 — specifies that business events are not automatically selected at CFD deal creation. This is the default value.

Files affected: SphPortfolio.sql

1.12 Interest Rates

1.12.a Interpolated Interest-Rate Error

Issue Number: 49326

Interest rates were incorrectly interpolated when a spread was defined on a swap. As a result, the cash flows of interest-rate swaps with underlying interpolated interest-rates were incorrect.

The following modifications have been made in this release:

- The spread is added after the interest rate is interpolated.
- You can specify the number of decimals by which to round the interest rate after the interest rate has been interpolated but before the spread has been added. The number of decimals is specified by entering a value into the **Decimal Units** text box on the **Interest Rate** window.

Files affected: SphFinance.dll

1.13 Interface

1.13.a Basket Adjustment Deletion Error

Issue Number: 53069

The following columns were not refreshed if a row was selected in the **Basket Adjustment** window and Ctrl+U was pressed:

- **Diff Quantity**
- **Fixings**
- **Quantity**

Files affected: SphBasicDataGui.dll

1.13.b Entry Date Text Box

Issue Number: 45730

The **Entry Date** text box on the **Hedge Booking** window has been renamed as the **PnL Date** text box.

Files affected: SphBasicDataGui.dll

1.13.c Basket Adjustment Window

Issue Number: 53658

A warning message was incorrectly displayed if no changes were made in the **Basket Adjustment** window and the **OK** button was clicked.

Files affected: SphBasicDataGui.dll

1.13.d Corporate Actions Command

Issue Number: 56503

The **Corporate Actions** command of the **Securities Report** window context menu has been renamed to **Corporate Action**.

Files affected: SphCollateralGUI.dll

1.13.e Structure Builder with Dates as Strings

Issue Number: 52009

The theoretical price and greeks were incorrect if the Structure Builder was used to define multi-underlying options. This occurred if the date was saved in the structure builder as a string and the instrument was opened on another client that used a different date format. Saving the date as a string was the default format in the Structure Builder.

For example, this occurred if the payoff structure was saved as a string with the format MM/DD/YYYY and the instrument was opened on another client that used the DD/MM/YYYY format.

As of this release, the default structure builder template saves dates in the `DATE` data format.

A data integrity message is generated if an instrument that is defined with payoff dates saved as a string is priced, and the following conditions are true:

- The instrument is priced on a client that uses a date format other than the format used to define the date in the payoff structure and the date is not valid on the client. For example, a message is generated if the date is defined as 28/12/2009 and the instrument is priced on a client using the MM/DD/YYYY date format.
- The date is defined incorrectly. For example, a message is generated if the date is defined as 33/12/2010.

Files affected: SphInterface.dll

1.13.f Warning Message for Convertible Bond Clauses

Issue Number: 53084

A message prompting the user to save the convertible bond was displayed if a convertible bond with a clause was opened in the instrument definition window and closed without modification.

Note This occurred for all clauses except Put, Call, Div and Liq. clauses.

Files affected: Sophis.dll, SphWorkSheet.dll

1.13.g Interest Rate Futures

Issue Number: 54629

Interest rate futures were not displayed in the **Interest Rate Futures** list window if the `UNIT` column in the `TITRES` table was null. This occurred if the interest rate future was created in an earlier version of RISQUE.

Files affected: Sophis.dll

1.14 Market Data

1.14.a Fixing for Floating Rates

Issue Number: 54088

The last price of a floating interest rate was not used to price interest rate swaps if the rate was fixed in the **Historical** window. The last price was only used if RISQUE was restarted.

Files affected: Sophis.dll, SophisBasicData.dll

1.15 Multisite End of Day

1.15.a Tables for Multisite End of Day

Issue Number: 54233

Oracle errors occurred if data was saved to the following tables during the multisite end of day procedure:

- `OTCMODELS`
- `OTCMATURITY`
- `OTCSTRIKES`

This occurred only if the multisite end of day procedure was run on several sites at the same time. These Oracle errors were displayed because a primary key was not defined for the `SITEID` column of these tables.

Files affected: SphPortfolio.sql

1.15.b End-of-Day Oracle Error

Issue Number: 57135

An Oracle error message was displayed if an End of Day procedure was run on a site with multiple business lines defined on it.

This error only occurred for multisite End-of-Day procedures.

Files affected: SphPortfolio.dll

1.16 Performance

1.16.a Calculation (F9)

Issue Number: 53619

The **Calculate Now (F9)** functionality incorrectly queried the floating notional factor for instruments that did not have a floating notional. This caused a reduction in the **Calculate Now (F9)** performance.

Important For toolkit implementations, ensure the `IsFloatingNotional()` method is used correctly. If `IsFloatingNotional()` method returns `true`, the `GetFloatingNotionalFactor()` method is called, and this reduces the performance of **Calculate Now** (F9). If `IsFloatingNotional()` method returns `false`, the `GetFloatingNotionalFactor()` method is not called. For best performance, ensure that the `GetFloatingNotionalFactor()` function is not called unnecessarily.

Files affected: Sophis.dll

1.16.b Monte Carlo Metamodel

Issue Number: 55960

A memory management issue occurred if an Asian option was priced and the following conditions were true:

- The **Monte Carlo** metamodel was used.
- The pricing model for the option was Monte Carlo or New Monte Carlo.

Files affected: SophisMonteCarlo.dll

1.17 Portfolios

1.17.a Decimal Places in Column

Issue Number: 55517

The number of decimal places displayed in the **Commission/Spread Rate** column varied from movement to movement, irrespective of the value defined in the **Spread, Commission** field on the **Display** tab of the **Preferences** dialog.

Files affected: SphPortfolioGUI.dll

1.17.b Income after Amortisation

Issue Number: 53794

The **Income** portfolio column incorrectly displayed **NaN** if the Account Amortising Engine was run on a position that was closed before the maturity date. This occurred if the deal was booked on a debt instrument using the **In rate** price type.

Files affected: SphPortfolio.dll

1.17.c Missing Position ID

Issue Number: 55036

The position link was not displayed in the **Position link** column of an extraction based on the **criteria** model.

Files affected: SphPortfolio.dll

1.17.d Business Event for Maturity Modification

Issue Number: 53615

An incorrect business event was triggered if a maturity modification was performed on a stock loan deal.

Files affected: SphPortfolio.dll, SphPortfolioGUI.dll, SphCollateral.dll, SphCollateralGUI.dll

1.17.e Funds in Risk Matrix

Issue Number: 52041

The **Risk Matrix** analysis did not display results if the **Delta** or **Gamma** check box was selected in the **Simulation Parameters** dialog box. This only occurred if positions on options on funds defined without a sector were included in the analysis.

Important This issue did not occur if both the **Delta** and **Gamma** check boxes were selected in the **Simulation Parameters** dialog box.

Files affected: SophisFundBase.dll

1.17.f Result Variation Memory Management

Issue Number: 52865

A memory-management issue occurred if the P&L attribution was displayed for all effects in the **Result Delta** window.

Files affected: SphPortfolio.dll, SphPortfolioGUI.dll, Sophis.dll

1.17.g Demerger Automatic Ticket Icon

Issue Number: 51553

No icon was displayed for instrument modification tickets generated for demerger corporate actions in the **Automatic Trades** window.

Files affected: RiskResources.txt, SphPortfolioGUI.dll

1.17.h Incorrect Dividend Amount

Issue Number: 52044

The dividend value of a basket swap was incorrect on the reset date if a split corporate action was performed after the dividend payment date.

Files affected: SphFinance.dll, SphBasicDataGui.dll, SphBasketSwap.h

1.17.i Incorrect Demerger Net-Amount

Issue Number: 51600

The net amount of the cash-to-counterparty ticket and the cash-rounding ticket generated for a demerger corporate action was incorrect if the following conditions were true:

- A demerger corporate action was performed on a share that was part of the composition of a basket swap.
- The currency of the demerger was the same as the currency of the share on which it was performed.

Files affected: SphFinance.dll

1.17.j Corporate Action Automatic-Ticket Deletion

Issue Number: 53500

Basket-swap automatic tickets were not generated if the following conditions were true:

1. A split corporate action was performed on an instrument that was part of the composition of a basket swap.
2. A forecast was launched and automatic tickets were generated.
3. The corporate-action entry was deleted from the **Underlying history** frame of the **Basket Swap** tab.

Files affected: SphListedMarket.dll

1.17.k Business Event Error for Demergers

Issue Number: 51573

The **Business event** column of the **Movements** window did not display a value if the following conditions were true:

1. A demerger corporate action was performed on an instrument that was part of the composition of a basket swap.
2. The cash-rounding ticket of a demerger corporate action was transmitted.

Files affected: SphFinance.dll

1.17.l Demerger Automatic-Ticket Error

Issue Number: 53553

Purchase/Sale automatic tickets were not generated if a new share was created by a demerger corporate action.

Files affected: SphListedMarket.dll

1.17.m Incorrect Payment Date for Cash Automatic Tickets

Issue Number: 53842

The payment date of the cash-to-counterparty ticket and the cash-rounding ticket did not take into account the payment lag of the basket swap if a demerger or merger corporate action was performed on a share that was part of the composition of a basket swap.

Files affected: SphFinance.dll

1.17.n Removed Position Link

Issue Number: 52680

A link between two positions was removed if a movement of one of the positions was deleted.

Files affected: SphPortfolio.dll

1.17.o Incorrect Precision in the Movement Window

Issue Number: 52790

The number of decimals displayed in the **Spread** column of the **Movement** window for stock loans did not reflect the number of decimals specified in the **Spread, Commission** text box on the **Display** tab of the **Preferences** window.

Files affected: SphPortfolioGUI.dll

1.17.p Realized Gamma Portfolio Column Error

Issue Number: 52530

The value displayed in the **Realized Gamma** column of the **Portfolio** window did not take the initial price into account for gamma swaps.

Files affected: SphPortfolio.dll

1.17.q Incorrect Vega Notional Column Value

Issue Number: 56474

The value of the following columns of the **Portfolio** window did not take the number of positions in the portfolio into account:

- **Vega Notional**
- **Vega Notional Outstanding**

Files affected: SphPortfolio.dll

1.17.r Warning Message for Mirrored Deals

Issue Number: 41868

The text of the following warning message was incorrect if an XML copy-and-paste operation was performed on a mirrored deal with a manual mirroring mode:

```
Failed to perform command on portfolio (Invalid Data
Value :mirrorRule=manual:This mirror rule is not an
automated rule, it cannot be used.)
```

The word **automated** in the warning message has now been changed to **automatic**.

Files affected: Sophis.dll

1.17.s XML Export of Stress-Test Analysis in Batch Mode

Issue Number: 31134

It was not possible to generate the XML results of the stress-test analysis in batch mode.

Files affected: SophisSpecific.dll

1.17.t Pasting Delta-Adjustment Report Results into Microsoft Excel

Issue Number: 54236

An error occurred if the results of a **Delta Adjustment Report** analysis contained a large value, such as 2,359,456, and the results were pasted into Microsoft Excel.

Note A **Select All** command is now available on the context menu of the **Delta Adjustment Report** window.

Files affected: SphGuiCommon.dll

1.17.u Valid Agreements for Duplicating Stock Loans

Issue Number: 54392

It was not possible to ensure that the counterparty, entity, and convention selected during a **Duplicate** or **Cancel and Create Again** operation corresponded to an existing collateral agreement.

As of this release, if a counterparty is selected in the **Counterparty** drop-down list of the **Duplicate** or **Cancel and Create Again** windows, the **Entity** and **Convention** are updated to contain only those third parties that correspond to valid agreements.

Files affected: SphCollateral.dll, SphPortfolioGUI.dll, SphCollateralGUI.dll

1.17.v Incorrect Reporting Results

Issue Number: 55913, 55908, 55914, 21448, 55912

In some instances, the values of the **Portfolio** window were incorrect if a deal was booked on one of the following types of instruments and reporting (F8) was performed for the first time:

- swap
- basket
- index
- interest-rate futures
- inflation futures
- inflation forwards
- bonds

Files affected: SphPortfolio.dll

1.17.w Basket Closed Position

Issue Number: 55522

The **Portfolio** window incorrectly displayed an unrealized value for closed basket positions if the last price of an instrument in the basket was changed after the position was closed.

Files affected: SphPortfolio.dll

1.17.x Issuer Column

Issue Number: 51742

The **Issuer** column on the **Portfolio** window incorrectly displayed the underlying bond of the credit default swap instead of the issuer of the underling bond. As of this release it displays the underlying bond’s issuer and does not does display a value if the underlying bond does not have an issuer.

Files affected: Sophis.dll

1.17.y Total Interest Portfolio Window Columns

Issue Number: 52184

The following **Portfolio** window columns did not display a value for stock loan positions:

- **SF Accrued Total Interest**
- **SF Realized Total Interest**

Files affected: SphCollateral.dll, SphPortfolio.dll

1.17.z Deal Input Window Values

Issue Number: 52188

The **Deal Input** window was not displayed correctly if one of the following conditions were true:

- The Toolkit was not loaded.
- SSI conditions were not defined correctly.

Files affected: SphBOKernel.dll

1.17.aa Total Return Swap Deal-Input Window Values

Issue Number: 54276

The following errors occurred if a deal was booked on a basket swap where the **Creation** dynamic field of the **Deal Input** window displayed **Electronic** and a basket adjustment was then performed:

- The **Creation** dynamic field of the **Deal Input** window displayed **Electronic** instead of **Manual**.
- The **MANAGER** value was selected from the **Operator** drop-down list on the **Deal Input** window instead of the user name of the user.

Files affected: SphBasicDataGui.dll

1.17.ab Portfolio Business Line Error

Issue Number: 47997

The value selected from the **Business Line** drop-down list on the **Portfolio Entry** dialog box was not saved when a portfolio was created.

Values selected from the **Business Line** drop-down list for a previously created portfolio were successfully saved.

Files affected: SphPortfolio.dll

1.17.ac IR Hedge Delta Reset Portfolio Analysis

Issue Number: 53700

The **IR Hedge Delta Reset** portfolio analysis did not generate values for positions on floating rate asset-backed securities and floating rate bonds that were defined with the **MTM Greeks MTM** pricing type.

Files affected: Sophis.dll, SphFinance.dll

1.17.ad Delta Forward Interest Rate Hedge Analysis

Issue Number: 53795

The yield curve specified in the market category was not taken into account in the **IR Hedge** portfolio analysis for fixed bonds if the following conditions were true:

- A market category was defined for fixed rate bonds with a specific yield curve family in the **Market Categories** window.
- The defined market category was selected in the **Market Category** drop-down list of the **Model** tab of the **Preferences** window.
- **IR Hedge Delta Forward** portfolio analysis was performed on a portfolio containing fixed and floating rate bonds.
- The bonds were of the same currency and had **XXX** selected in **Family Curve** drop-down list of the **Calculation** tab of the **Bond** window.

The portfolio analysis priced all fixed bonds with the default yield curve specified for the currency instead of the yield curve specified in the market category.

Files affected: SphPortfolio.dll

1.17.ae Incorrect Position Calculation

Issue Number: 53672

The unrealised was incorrectly calculated in the **Portfolio** window for positions such as stock loans and total return swaps if the following conditions were true:

- The **Portfolio** window was in the **Flat** view.
- The positions were created by users with defined entry points.

Files affected: SphPortfolio.dll

1.17.af Line Picking Configuration Sets

Issue Number: 52803

An error occurred if an attempt was made to save a new column configuration set for line picking in the **Configuration selection** window. This occurred only if there were no other column configuration sets defined.

Files affected: SphLinePicking.dll

1.17.ag Inflation Swap Automatic Tickets

Issue Number: 55658

The currency of automatic tickets was incorrect for inflation swaps in the **Automatic Trades** window and the **Deal Input** window launched by double-clicking a ticket in the **Automatic Trades** window.

Files affected: SphPortfolio.dll

1.17.ah EntrySpotAsRoot

Issue Number: 50437

It was possible to create deals in portfolios for which users did not have access. This occurred if the following conditions were true:

- The user was part of a group with the `EntrySpotAsRoot` user right on the **FO Portfolio** tab of the **Users** window set to **Query**.
- At least one user in the group was defined with the `EntrySpotAsRoot` user right set to **Same as group**.

Files affected: SophisBasicData.dll

1.17.ai P&L for Stock Loans

Issue Number: 53956

The P&L was incorrect for stock loans defined with the commission type defined as **Set Price**. This occurred because the accrued amount was set to the commission amount at the start date. As a result, the commission amount was subtracted from the unrealised amount before the maturity date.

Files affected: SphCollateral.dll, Sophis.dll

1.17.aj Parametric VaR Greeks

Issue Number: 54490

The value in the **Rho VaR** column in the **Parametric VaR** portfolio analysis was incorrect if the analysis was launched for the **Delta/Gamma** calculation type. This occurred on portfolios that had a sub-portfolio containing euro instruments and a sub-portfolio containing USD instruments.

Files affected: SophisParametricVaR.dll

1.17.ak Stress Test for Convertible Bonds

Issue Number: 31518

The price of convertible bonds with low-priced equities as the underlying was incorrect. This occurred if a dividend of the equity was greater than the current price of the equity.

As of this release, dividends used for pricing convertible bonds are limited to 99% of the current price of the equity.

Files affected: SophisCB.dll

1.17.al Bond Future Automatic Tickets

Issue Number: 56001

The following issues occurred with automatic tickets for bond futures with physical delivery:

- The automatic ticket for the expiry of the future used the last price of the cheapest-to-deliver bond instead of the last price of the future.
- The nominal of the automatic ticket for the delivery of the underlying was incorrect.

Files affected: SphFinance.dll

1.17.am Detailed Cash Balance Report with Limited Permissions

Issue Number: 55540

RISQUE behaved unpredictably if the **Detailed Cash Balance** report was performed on the results of an extraction by a user that did not have access to all portfolios.

Files affected: SphPortfolio.dll, SophisRiskTools.dll

1.17.an Income Accrued After Final Reset

Issue Number: 52684

Income continued to accrue after final reset for standard contracts for difference (CFDs) using the **Unrealized at Reset** model.

Files affected: Sophis.dll

1.17.ao Interest Tickets for CFDs

Issue Number: 52050

Interest tickets continued to be generated after the final reset date for CFDs with the **Realized** payment rule set to **Immediately with Cashpool**.

Files affected: Sophis.dll

1.17.ap Extraction with Dynamic P&L Columns Displayed

Issue Number: 55209

RISQUE behaved unpredictably if the following conditions were true:

- An extraction was performed.
- The results were displayed with the portfolios fully expanded.
- Dynamic P&L columns were displayed.
- **Reporting (F8)** was performed on the extraction results.
- The prices date was changed.

Files affected: Sophis.dll

1.17.aq Incorrect Quantity in Stock Loan Current Contract

Issue Number: 54612

The value in the **Quantity** text box of the **Stock Loan** window was displayed in thousands instead of units if the following conditions were true.

- The **Stock Loan** window was opened using the **Show Current Contract** command of the position context menu in the **Portfolio** window.
- The **P&L in Monetary Unit** on the **Display** tab of the **Preferences** window was not selected.

Files affected: SphCollateral.dll

1.17.ar Incorrect Instrument Reference in Stock Loan Basket

Issue Number: 51512

The list of available instrument references in the **Instrument Ref** column of the **Deals On Basket** window was incorrect if the following occurred:

1. The user clicked in the **Instrument Ref** column of one component and selected an instrument.
2. The user clicked in the **Instrument Ref** column of a second component.

Only instruments from the first component were listed in the **Instrument Ref** column of the second component.

Files affected: SphPortfolioGUI.dll

1.17.as Stock Loan Security Finance Columns

Issue Number: 51593

The following columns of the **Portfolio** window did not take the collateral of stock loans into account:

- **SF Unrealized Spread**
- **SF Accrued Spread**

Files affected: SphCollateral.dll

1.17.at Incorrect Value in SF Value Spread Column

Issue Number: 51603

The **SF Value Spread** column of the **Portfolio** window displayed the incorrect value.

Files affected: SphCollateral.dll

1.17.au Unpopulated Security Finance Columns for Repos

Issue Number: 51640, 57157

The following columns of the **Portfolio** window were not populated for repos:

- **SF Unrealized Spread**
- **SF Realized Spread**
- **SF Value Spread**
- **SF Accrued Interest Rate**

- **SF Value Total Interest**
- **SF Value Interest Rate**

Files affected: SphPortfolio.dll, SphCollateral.dll

1.17.av Incorrect Value in SF Unrealized Spread Column

Issue Number: 54299

The **SF Unrealized** column of the **Portfolio** window was incorrectly populated for basket swaps if the following conditions were true:

- One of the underlying instruments of the basket swap was a share with a repo curved defined on it.
- The **Lending & Borrowing Rediscount** check box on the **Profit and loss** tab of the **Preferences** dialog box was selected.

Files affected: SphPortfolio.dll

1.17.aw Broker Fees for CFD Deals

Issue Number: 49691

Broker fees were incorrectly calculated for CFD deals if the following conditions were true:

- The payment currency for the deal was changed.
- The **Price in payment currency** option was selected for the deal.
- The underlying of the CFD deal was quoted in pence.

Files affected: Sophis.dll

1.17.ax Spot Value of Relative Forward Forex Deals

Issue Number: 54645

The spot value was not saved correctly if a forex deal was created using the **FX Deals** window and the **Relative Forward** value was selected from the **Calculation Type** drop-down list.

Files affected: SphPortfolioGUI.dll

1.17.ay Aggregated Dynamic P&L Freeze of Fund with Series

Issue Number: 55818

The values displayed in the dynamic P&L freeze columns of an external fund were incorrect if the following conditions were true:

- The **Use Series of Shares** check box was selected on the **Series** tab of the external fund.
- The **Display a position per series** check box was cleared on the **External Funds** tab of the **Preferences** dialog box.

Files affected: Sophis.dll, SophisFundBase.dll

1.17.az Unrealized Values Not Displayed

Issue Number: 43245

The values for the **Unrealized** portfolio column were not displayed if **Reporting (F8)** was performed. These values were displayed if any position was selected.

Files affected: SphPortfolioGUI.dll

1.17.ba Payment Offset for Stock Loans

Issue Number: 53577

The commission and interest net amount for stock loan and repo deals was incorrectly increased by an extra day if a payment offset had been defined for the deals. Only the value date should have been affected by the payment offset. This error occurred if tickets were generated globally and not if tickets were generated from the position.

Files affected: Sophis.dll

1.17.bb Calculation of Extractions

Issue Number: 52696

The values displayed in the columns of the **Portfolio** window of an extraction were not refreshed correctly after calculation (F9) was performed.

Files affected: SphPortfolioGUI.dll

1.17.bc Dynamic P&L for Forex Instruments

Issue Number: 56692

The values displayed in the following dynamic P&L columns were incorrect for forex instruments:

- **Result (*xxx*)**
- **Unrealized (*xxx*)**
- **Unsettled Balance (*xxx*)**
- **Last (*xxx*)**
- **Theoretical (*xxx*)**

Note To display the correct values in these columns, you must clear the **Forex Financing** check box on the **Forex** tab of the **Preferences** dialog box.

Files affected: Sophis.dll

1.17.bd Dynamic P&L for Forex-Forward Instruments

Issue Number: 56719

The values displayed in the following dynamic P&L columns were incorrect for forex-forward instruments:

- **Result (*xxx*)**
- **Unsettled Balance (*xxx*)**
- **Financing (*xxx*)**

Files affected: Sophis.dll

1.17.be Fund Series Positions

Issue Number: 55495

Fund series positions were displayed as virtual positions in the **Portfolio** window.

Files affected: SophisFundBase.dll

1.17.bf Mirror Rule Source Folio

Issue Number: 51720

Child mirrored deals were moved back to their source portfolio if the following conditions were true:

- A portfolio was specified in the **Reception Folio** column of the **Mirror Rules Definitions** for the corresponding mirror rule.
- The child mirrored deal was moved from this portfolio to another portfolio.
- A kernel transition was performed on the deal.

As of this release, you can move a child mirrored deal that has a specified reception folio to a new portfolio, however, this breaks the mirroring link with the parent deal. A warning message to this effect is displayed before the move is completed.

Files affected: SphPortfolioGUI.dll

1.17.bg Incorrect Precision in Current Contract and Repricing

Issue Number: 53253

The number of decimals displayed in the **Spread** and **Commission** text boxes of the following windows did not reflect the number of decimals specified in the **Spread, Commission** text box on the **Display** tab of the **Preferences** window:

- The **Repricing** window.
- The **Stock Loan** window, opened using the **Show Current Contract** command of the position context menu in the **Portfolio** window.

Files affected: SphPortfolioGUI.dll

1.17.bh Show Current Contract for Repo Vs Tri-Party

Issue Number: 55270

Information was missing from the **Repo Cash** window if the window was opened with the **Show Current Contract** command from the context menu of the **Portfolio** window. This error occurred for Repo vs. Tri-party deals.

Files affected: Sophis.dll

1.17.bi Portfolios with Forex Deals

Issue Number: 52864

The performance of RISQUE was reduced and messages were written to the log file if the following conditions were true:

- **Reporting (F8)** was performed on a portfolio that contained at least one future position with an expiry date before the last End of Year date.
- **Reporting (F8)** was performed on a portfolio that contained a forex deal without historical data. This only occurred if the deal was created on a date before the creation date of the underlying forex pair.

  As of this release, the first defined history for instrument is used for these deals.

Files affected: SphPortfolio.dll

1.17.bj Unrealized and Income for Stock Loans

Issue Number: 52808

The values in the **Unrealized** and **Income** portfolio columns were incorrect for stock loans if the following conditions were true:

- The Prices Date was the business day before a non-business day.
- The following settings were defined on the **Profit and loss** tab of the **Preferences** dialog box:
  - The **MDF** value was selected in the **Accounting Lag** drop-down list.
  - The currency of the stock loan contract was selected from the **Calendar of** drop-down list.

Files affected: SphCollateral.dll, Sophis.dll

1.17.bk Incorrect Values in Security Finance Columns for Shares

Issue Number: 53144, 51702

The following columns of the **Portfolio** window displayed the incorrect values for shares:

- **SF Accrued Equity Performance**
- **SF Realized Equity Performance**
- **SF Realized Dividend**
- **SF Unrealized Settlement Lag**

Files affected: SphCollateral.dll

1.17.bl Incorrect Ticket Generation Order

Issue Number: 56332

The expiry ticket of a stock loan was generated before the maturity modification ticket if a maturity modification was performed on the stock loan deal and the **Generate Ticket** check box was selected in the **Maturity Modification** dialog box.

Files affected: SphCollateralGUI.dll

1.17.bm Bond Payment Tickets

Issue Number: 55591

The **Amortised Amount** and **Realized** columns were incorrect in the **Portfolio** and **Account Posting** windows for deals on asset-backed securities. This occurred if the payment date was a non-business date and the date was adjusted to a business day. In this instance, the pool factor was not taken into account on the adjusted date.

Files affected: SphPortfolio.dll

1.17.bn IR Hedge Delta Swap Analysis for Basis Swap Rate

Issue Number: 54706

The **Hedging Notional** column was incorrect in the **IR Hedge Delta Swap** portfolio analysis for instruments that were defined with the forex yield curve long rate set to the basis swap rate. This occurred because the analysis used incorrect settlement lags to calculate the notional.

Files affected: SphFinance.dll

1.17.bo Corporate-Action Currency Error

Issue Number: 53858

The currency and amount of automatic tickets was incorrect if a corporate action was performed on a basket swap and different currencies were defined on at least two of the following:

- The share in the basket swap on which the corporate action was performed.
- The basket swap.
- The corporate action.

Files affected: SphFinance.dll

1.17.bp Incorrect P&L Value for Basket Swaps

Issue Number: 57056

The P&L values of basket swaps were incorrect if the following conditions were true:

- **0** was entered into the **Dividend Ratio** text box on the **General** tab of the **Swap** window.
- At least one dividend was generated on a share that was part of the composition of the basket swap.
- The **Lending & Borrowing Rediscount** check box was selected on the **Profit and loss** tab of the **Preferences** dialog box.

Files affected: SphFinance.dll

1.17.bq Basket Swap Tab Days Column

Issue Number: 53493

The **Days** column on the **Basket Swap** tab of the **Swaps** window incorrectly displayed the value of the previous adjustment for adjustments with **Accrued** displayed in the **Coupon type** row.

As of this release, the **Days** column displays the number of days since the last adjustment.

Files affected: SphFinance.dll, SphBasicDataGui.dll

1.17.br Incorrect Ticket Generation Order

Issue Number: 56332

The expiry ticket of a stock loan was generated before the maturity modification ticket if the following conditions were true:

- A maturity modification was performed on the stock loan deal and the **Generate Ticket** check box was selected in the **Maturity Modification** dialog box.
- A forecast was launched on the position.

Files affected: SphCollateralGUI.dll

1.17.bs Incorrect Commission in the Movement Window

Issue Number: 52498

The commission amount instead of the rate was displayed in the **Commission/Spread Rate** column of the **Movement** window for stock loans with commission type set to **Set Price**.

Files affected: SphPortfolio.dll, SphPortfolioGUI.dll

1.17.bt Parametric VaR Volatility

Issue Number: 55653

Historic volatility correlations for forex pairs were always equal to 0.

Files affected: SophisHistoricCorrelations.dll

1.17.bu Merger Corporate-Action on Basket Swaps

Issue Number: 53557

The following errors occurred if a merger was performed on a basket swap:

- The price and quantity of the cash-rounding ticket was incorrect.
- The price and quantity of the cash-to-counterparty ticket was incorrect.
- The values of basket adjustments in the **Basket Swap** tab of the **Swaps** were incorrect after the associated modification ticket was transmitted.

Files affected: SphFinance.dll

1.17.bv Demerger Corporate-Action on Basket Swaps

Issue Number: 53563

The price of the cash-to-counterparty ticket was incorrect if a demerger was performed on a basket swap.

Files affected: SphFinance.dll

1.17.bw Basket-Swap Corporate Action Cancellation Tickets

Issue Number: 56864, 51410

Cancellation tickets were incorrectly generated for corporate actions performed on basket swaps if the corporate action was modified or regenerated after the corporate-action automatic ticket was transmitted.

As of this release, cancellation tickets are not generated for corporate actions performed on basket swaps and you can cancel a corporate action by deleting the adjustment in the **Basket Adjustment** window and regenerating the corporate-action ticket by relaunching the forecast.

Files affected: SphListedMarket.dll, SphFinance.dll, SphPortfolioGUI.dll

1.17.bx Date Used to Generate Instructions

Issue Number: 54746

The **Start Date** column in the **Portfolio** window incorrectly displayed the message date when an instruction on a deal was settled, instead of the effective date of the deal.

Files affected: SphPortfolio.sql

1.17.by Partial Return from the Position Link Window

Issue Number: 55423

The incorrect folio ID was stored in the OPCVM field in the HISTOMVTS database table if stock loan events, such as partial returns, was performed from the **Position Link** window.

Files affected: SphCollateralGUI.dll

1.17.bz Cash-Rounding Tickets not Generated

Issue Number: 57198

The cash-rounding ticket was not generated for merger and demerger corporate actions performed on basket swaps if **Truncated** was selected from the **Rounding** drop-down list on the **Adjustment** window.

Files affected: SphFinance.dll

1.17.ca Relative Date as Value Date of Basket Swap

Issue Number: 57229

The **Value date** column in the **Automatic Trades** window and the **Payment** text box on the **Deal Input** window displayed a relative date instead of an absolute date for cash-rounding and cash-to-counterparty tickets. This error occurred if the **Immediate** option on the **Advanced** tab of the **Swap** window was clicked and a value was entered into the **Lag** text box.

Files affected: SphFinance.dll

1.17.cb Line Picking Event

Issue Number: 53179

A warning was not displayed if the line picking workflow was configured incorrectly. As of this release, a warning is displayed if you perform line picking without a correct workflow.

Files affected: SphLinePicking.dll, SphBOKernelGUI.dll

1.17.cc Time and Operator for Commission and Interest Tickets

Issue Number: 55937

The **Time** and **Operator** columns in the **Movement** window were empty for stock loan commission and interest tickets if the following conditions were true:

- The stock loan was a securities vs cash per contract deal with a frequency set to **Final**.
- The corresponding collateral agreement paid interest and commission on partial returns.
- A partial return was performed on the deal.
- A repricing was performed on the deal.

Files affected: SphCollateralGUI.dll

1.17.cd Mirroring on a Repo Deal

Issue Number: 55156

The quantity and amount of the equity leg of a mirrored child repo deal was the same as that of the parent deal, instead of the opposite, if the reception quantity and reception amount of the corresponding mirror rule was set to **Opposite Qty** and **Opposite Amount** respectively.

Files affected: Sophis.dll

1.17.ce Warning for Partial Line Picking

Issue Number: 53727

No warning message was displayed if you tried to save a partial line picking of a position. As of this release, the following warning message is displayed:

Partial line picking is not allowed. Do you still want to save?

Files affected: SphLinePicking.dll

1.17.cf Incorrect Position Name for CFDs

Issue Number: 55796

The template name of a contract for difference (CFD) was saved as the position name if the following conditions were true:

1. The name of the position was changed in the **Operation** field of the **Contract For Difference input** window.
2. A different agreement and template was specified in the **Contract For Difference input** window by changing the entity or counterparty of the trade.
3. The trade was saved.

Files affected: SophisPortfolioGUI.dll

1.18 Pricing

1.18.a Multiple Dividends on Ex-Div Date

Issue Number: 47861, 47962

The forward price was incorrect for equities if the following conditions were true:

- The equity was defined with two or more dividends on the same ex-div date.
- The dividends were defined as a percentage.

Files affected: SphFinance.dll

1.18.b Convertible Bonds with Guaranteed Coupons

Issue Number: 52591

Guaranteed coupons at maturity were incorrectly taken into account as risky.

Files affected: SophisCB.dll

1.18.c Package with Cap Created in Previous Version

Issue Number: 52876

The theoretical price of packages was incorrect if the following conditions were true:

1. The package contained a cap that was created in a 5.2.X version of RISQUE.
2. The cash flows of the cap were modified manually.
3. The package was opened in 5.3.x version of RISQUE.
4. The prices date was set to the day the cap was created.

Files affected: SophisBasicData.dll

1.18.d Incorrect Basket Swap Delta

Issue Number: 54296

The delta value of basket swap positions was incorrect on the reset date if the **Lending & Borrowing Rediscount** check box on the **Profit and loss** tab of the **Preferences** dialog box was selected.

Files affected: SphFinance.dll

1.18.e Floating Bonds Near Maturity

Issue Number: 54571

The clean price of floating bonds was equal to the theoretical price if the following conditions were true:

- The settlement date was within two days of the maturity date.
- The bond was defined with the **MtoM + Greeks MtoM** model.

As of this release, the clean price is equal to the last price of the instrument.

Files affected: Sophis.dll, SphFinance.dll

1.19 Reporting Module

1.19.a History Report-Source Interface Issue

Issue Number: 55657

The **Report Template** window behaved unpredictably if the following conditions were true:

- The **History** report source was selected.
- The current database user was not a schema owner-user.

Files affected: SophisReportingSources.dll, SophisReportingSourcesGUI.dll

1.19.b Reporting for Credit Hedge Portfolio Analysis

Issue Number: 40800

It was not possible to generate a report with relative dates for the **Credit Hedge** portfolio analysis with the Reporting Module.

As of this release, you must perform the following steps to generate a **Credit Hedge** portfolio analysis with relative dates:

1. Generate the XML input file with the **Credit Hedge** analysis.
2. In the XML file, set the parameter `absoluteDateForOutput` to `false`.
3. Ensure that the second line of the XML file is the following:

```
xmlns:common="http://sophis.net/sophis/common
```

4. Change the dates in the XML file to relative date. If this file is used with the Reporting Module, relative dates are used.

Note Relative date are not available in the results window of the **Credit Hedge** portfolio analysis in the RISQUE interface.

Files affected: SophisPortfolio.dll

1.19.c VaR Source Grammar

Issue Number: 49044

An error occurred if the XML grammar was generated for the **VaR** source. This occurred because some XSD types were considered unknown.

Files affected: SophisXML.dll, SphDotNetReporting.dll

1.19.d Trade Report Source Memory Management

Issue Number: 51264

A memory-management issue occurred if a report was generated using the **Trade** report source.

Files affected: SophisReporting.dll

1.19.e Scenario Namespace

Issue Number: 52140

The XSD generated by the **Scenario** source was invalid. As of this release the namespace is `scenario:scenario` instead of `tns:scenario`.

Files affected: SphPortfolioGUI.dll

1.19.f Detailed Results for Result Variation

Issue Number: 52518

RISQUE behaved unpredictably if an XML output file for result variation was used by the **Scenario** source in the **Report Template** window.

This occurred if the `DetailedResults` XML element was set to `true`. `DetailedResults` is set to `true` by default in result variation XML output files.

Files affected: SphPortfolio.dll

1.19.g ZC Rho/Maturity Analysis

Issue Number: 55213

It was not possible to run the **ZC Rho/Maturity** analysis using the Reporting Module.

Book Affected: Reporting Module User Guide

Files affected: SphPortfolio.dll, scenario.xsd

1.19.h XSD Required Attribute

Issue Number: 56540

The XSD generated by the Reporting Module incorrectly contained the attribute `use="required"`.

Files affected: SophisXML.dll

1.19.i Result Variation in the Scenario Source

Issue Number: 56484

The value of the `pureMovementDelta` XML element was incorrect in the XML file generated by defining the **Scenario** source for a result variation XML file.

Files affected: SphPortfolio.dll

1.20 User Rights

1.20.a Currencies Save Issue

Issue Number: 53840

In some instances, it was not possible to save the setting of the **Currencies** user right on the **Menus Access** tab on the user rights window.

Files affected: SophisBasicData.dll

1.20.b Logging Password Failures

Issue Number: 53164

The username was incorrectly saved to the `SECURITY_LOG` table if a login failed because of an incorrect password. The username of the user who last successfully logged on was saved instead of the username of the user who entered an incorrect password.

Files affected: SphPortfolio.dll

1.21 Worksheets

1.21.a Insert SQL

Issue Number: 57045

An Oracle error occurred if the **Insert SQL** worksheet function was used to create a deal.

Files affected: SophisBasicData.sql

1.22 XML

1.22.a Yield Curve XML Copy-and-Paste Error

Issue Number: 52410

The order of the entries in the **Entry** dialog box and the order of the entries in the **Yield Curve Numerical Results** dialog box was incorrect if an XML copy-and-paste was performed on a yield curve with forward rate agreement (FRA) points defined using absolute dates.

Files affected: SphBasicDataGui.dll

1.22.b Collateral Debt Obligation Error

Issue Number: 53661

An error message was displayed if an attempt was made to perform an XML copy-and-paste operation on a collateral debt obligation (CDO) and the **XXX** value was selected from the **Seniority** and **Default Event** drop-down lists on the **General** tab of the **Swap** window.

Files affected: Sophis.dll

1.22.c Convertible Bonds

Issue Number: 51961

The following values were not copied if an XML copy-and-paste operation was performed on a convertible bond:

- Initial Conversion Ratio.
- Interest rate for convertibles bonds defined with a floating rate.

Files affected: Sophis.dll, SophisCB.dll, instrument.xsd

1.22.d Fund Options

Issue Number: 55297

It was not possible to perform an XML copy-and-paste operation of an option on a fund.

Files affected: Sophis.dll, instrument.xsd

1.22.e Yield Curve XML Copy-and-Paste Error

Issue Number: 52412

The **Enable/Disable** column of the **Entry** dialog box was not taken into account if an XML copy-and-paste operation was performed on a yield curve.

Files affected: Sophis.dll

Chapter 2 Enhancements in 5.3.6.3

This chapter describes the enhancements made in RISQUE 5.3.6.3. These enhancements were made in the following areas:

2.1 Accounting

2.1.a Trade ID in the Auxiliary Ledger

Issue Number: 50478

The **TradeID** was not displayed in **Account Postings** blotter for **ReadyAL** postings if the Auxiliary Ledger was run on trade postings that had the same trade ID and were grouped together.

Files affected: SphAccounting.dll

2.2 Back Office

2.2.a New Securities Projections

Issue Number: 53229, 53231, 53230, 57003

The following enhancements have been made to the **Securities and Cash Projections**:

- The following changes have been made to the **SCP** filter window:
  - The **SCP** filter window has been renamed to **Securities Projections**.
  - The **Fill dates** check box has been added, which enables you to specify whether to fill in all dates that have no instructions on them. It is selected by default.
  - The **Ignore past** check box has been added, which enables you to specify that all instructions prior to the start date are ignored.
- The following changes have been made to the **Securities and Cash Projections** window:
  - The **Securities and Cash Projections** window has been renamed to the **Securities Projections** window.
  - Cash positions are no longer displayed in the **Securities Projections** window. Only securities positions are displayed, by account and then by date.
  - The group function has been added, which enables you to group by the criteria available if you click the **Group by** button.
- Explanation windows have been added, which display the instructions from the date selected in the **Securities Projections** window.

  You can open an explanation for either one or two dates in the **Securities Projections** window. If you open an explanation for one date, the **Explanation 1** window is displayed. If you open an explanation for two dates, the **Explanation 2** window is displayed.
- The **Securities Projection Realignments** frame has been added to the **Default Parameters** tab of the **Back Office Parameters** window.

  The **Securities Projection Realignments** frame contains the following fields:
  - **Default Portfolio** — the default portfolio to use for securities projections realignments.
  - **Default Business Event —** the default business event to use for securities projections realignments.
- The following enhancements have been made to the **Realignment** window:
  - The **Business Event** drop-down list has been added, which enables you to specify a pre-defined business event for when the realignment ticket is generated.
  - The **From NOSTRO** and **To NOSTRO** text fields are now drop-down lists. You can now select the nostro account number from the drop-down lists that you want to receive from or send to, respectively.

    The nostro accounts selected in the **From NOSTRO** and **To NOSTRO** text fields must be confirmed when the deals are BO validated.

- The clearer in the **From Clearer** or **To Clearer** drop-down list is now refreshed if the entity in the **Entity** drop-down list is modified.

Book Affected: Back Office User Guide

Files affected: SophisBasicData.dll, SphBackOfficeCash.dll, SphBO_Cash_GUI.dll, SphReportBase.h, SphReportCriteria.h, SphReportCriteriaKey.h, SphReportCriteriaKeyBuilder.h, SphReportData.h, SphReportFactoryBase.h, SphReportResultBase.h, SphSPColumn.h, SphSPCriteria.h, SphSPGenericCriteria.h

2.2.b Back Office Preference Change

Issue Number: 55179

The **Accounting** drop-down list in the **Extraction Specific Reporting Dates** frame on the **Back Office** tab of the **Preferences** window has been removed.

Book Affected: Administration Guide

Files affected: RiskEn.rc

2.3 Collateral Management

2.3.a Detailed Cash Balance Report

Issue Number: 50485

Cash flows were not displayed if the **Detailed Cash Balance** report was generated for CFDs. This applies only to CFDs created with the Advanced CFD module.

Files affected: SphCollateral.dll, SphPortfolio.dll

2.3.b User Comments Right

Issue Number: 53163

The user right, User Comments CMA, was renamed to User Comments.

Book Affected: Collateral Management Guide

Files affected: SophisBasicData.dll

2.3.c Securities Report Column Name

Issue Number: 54522

As of this release, the first column of the **Main** tab of the Securities Report is labelled **Instrument**.

Files affected: SphCollateral.dll

2.3.d Display Refresh of Single Instrument

Issue Number: 54689

The performance of the refresh command of the **Securities Report** window for a single instrument has been improved.

Files affected: SphCollateral.dll, SphCollateralGUI.dll

2.3.e Notional Column in Securities Report

Issue Number: 50740

The column **Notional** has been added to all the tabs of the **Securities Report** window. This column displays the notional of bond instruments.

Files affected: SphCollateral.dll

2.3.f Collateral Agreement Blotter Columns

Issue Number: 54543, 53919, 53318, 53970

The following enhancements were made to the **Collateral Management Agreement** blotter:

- The first column, which had no title in previous releases, was renamed **Hierarchy**.
- The existing **Contract Name** column has been removed.
- The contract name is now displayed in the **Hierarchy** column below the grouping criteria folders.

Files affected: SphCollateralGUI.dll

2.3.g Corporate Action Command in Securities Report

Issue Number: 54412

As of this release, it is possible to access the **Corporate Actions** window for the selected instrument, using the **Corporate Action** command on the context menu of the **Securities Report** window.

Files affected: SphCollateralGUI.dll

2.3.h Margin Call Warning

Issue Number: 46832

A warning message is now displayed if a margin call is performed on a position and either of the following conditions are true:

- The margin call is performed between the trade date and value date of a partial return.
- The margin call is performed after the trade date of a total return.

The warning message indicates that there is an unsettled partial or total return ticket on the corresponding position.

Note This enhancement is only applicable for securities vs. cash per contract and securities vs. securities per contract stock loans.

Files affected: SphCollateralGUI.dll

2.3.i Context Menu Commands in Explanation Tabs

Issue Number: 54405

The following commands have been added to the context menu on the explanation tabs of the **Securities Report** window:

- **Cancel and create again**
- **Collateral/Repo Spread Modification**
- **Commission Modification**
- **Duplicate**
- **Maturity Modification**
- **Partial Return**
- **Roll**
- **Spot Modification**

Files affected: SphCollateralGUI.dll

2.3.j Report Date in Securities Report

Issue Number: 54395

As of this release, the report date in the **Date** text box on the **Securities Report Parameters** dialog box always displays the current date.

Files affected: SphCollateralGUI.dll

2.3.k Principal Spot Update

Issue Number: 54574

The value in the **Principal Spot** column of the **Stock Loan and Repo Mgt** window is now updated if the reporting date is changed using the **Change Reporting Date** function.

Files affected: SphCollateralGUI.dll

2.3.l Switching Tabs in the Securities Report

Issue Number: 50808

It is now possible to use the Tab key on your keyboard to switch between tabs on the **Securities Report** window.

Files affected: SophisInterface.dll, SphRiskTools.dll, SphCollateralGUI.dll

2.3.m Columns in Securities Report

Issue Number: 55263

The following columns have been added to the **Securities Report** window in this release:

- **Next Adjustment Date** — the next adjustment date after the report date + 1.
- **Next Adjustment Type** — the adjustment type for the next adjustment date.
- **Next Corporate Action Type** — the corporate action type for the next adjustment.
- **Next Record Date** — the next dividend record date after the report date.
- **Next Coupon Value** — the next coupon value corresponding to the next ex-coupon date.

Files affected: SphCollateral.dll, Sophis.dll, SphCollateralGUI.dll

2.3.n CFD Tab Changes in Agreements

Issue Number: 50116

The following changes have been made to the **CFD** tab of the **Collateral Agreement** window:

- The scroll bar has been removed from the **Dividend rebates** list box.
- The radio button has been removed from the **Floating Rate** drop-down list.

Book Affected: Advanced CFD Guide

Files affected: SphCollateral.dll, SphCollateralGUI.dll

2.3.o Collateral Cash Transfer Window

Issue Number: 50121

The following changes have been made to the **Transfer To/From Collateral Cash** window:

- The following text boxes can now be edited:
  - **Transfer Date**
  - **Value Date**
- The **Collateral Value** and **Credit Risk** dynamic fields have been removed.

Book Affected: Advanced CFD Guide

Files affected: SphCollateralGUI.dll

2.3.p Securities Report Error Text

Issue Number: 51249

The text of Oracle error messages for invalid SQL queries in the **Securities Report** has been improved.

Files affected: SphCollateral.dll

2.3.q Sorting by Column in Agreement Window

Issue Number: 51098

It is no longer possible to sort by column in the following list boxes on both the **Principal Stocks** and **Collateral Stocks** tabs of the **Collateral Agreement** window:

- The **General Rules for Allotment** list box.
- The **Index / Basket** list box.

Files affected: SphCollateral.dll

2.3.r Date in Stock Loan and Repo Contract Management Window

Issue Number: 52860

The current date is now displayed in the title bar of the **Stock Loan and Repo contract management** window.

Book Affected: Advanced Stock Loan Guide

Files affected: SphCollateralGUI.dll

2.3.s Change Report Date Dialog

Issue Number: 52105

The title of the dialog that opens if the **Change Reporting Date** button is clicked on the following windows has been changed:

- **Stock Loan and Repo Mgt** window
- **Detailed Limits Report** window

In previous releases, the title was the name of the corresponding agreement. It has now been changed to **Change Report Date**.

Book Affected: Collateral Management Guide, Advanced Stock Loan Guide

Files affected: SphCollateralGUI.dll

2.3.t Deals from Securities Report

Issue Number: 53705, 55894

As of this release, the last counterparty specified in the **Stock Loan Template Selector** window is used as the default counterparty if a **Lend/Borrow** operation is performed from the **Securities Report** window.

Book Affected: Collateral Management Guide

Files affected: SphCollateralGUI.dll

2.3.u New Views for Securities Report

Issue Number: 53322

The following views have been added to the **View** drop-down list in the **Securities Report** window:

- **Counterparty** — Displays data by counterparty.
- **Entity** — Displays data by entity.
- **Entity/Counterparty** — Displays data by entity, then by counterparty.

Book Affected: Collateral Management Guide

Files affected: SphCollateral.dll

2.3.v Generation Time in the Securities Report

Issue Number: 50801

As of this release, the generation time of the **Securities Report** window is not updated if only one line of the report is updated. You can update the report only for a selected line by clicking the **Only Selected** button in the **Confirmation** dialog box.

Files affected: SphCollateralGUI.dll

2.3.w Limits Calculation Window Instances

Issue Number: 54387

You can now open more than one instance of the **Collateral Limits Calculation** window from the context menu of the third parties window.

Files affected: SphCollateralGUI.dll

2.3.x Cash-Rounding Automatic Tickets

Issue Number: 53514

You can now define the business event of the cash-rounding ticket generated if a corporate action is performed on a basket swap. The **TRS CA Rounding Coupon** drop-down list has been added to the **Corporate Actions** tab of the **Back Office Parameters** window to enable you to define the business event.

Note If a value is not selected from the **TRS CA Rounding Coupon** drop-down list, the default business event is **Coupon**.

Book Affected: Back Office Guide, Instrument Reference Guide

Files affected: SphBOKernelGUI.dll, SphBOKernel.dll, SphRiskEn.dll, SphFinance.dll

2.3.y Date Type Handling in Collateral and Stock Loan Reports

Issue Number: 56695, 56696

The following enhancements have been made in order to improve date type handling in collateral management:

- The **Type** dynamic field has been added to the following reports:
  - **Collateral Limits Calculation**
  - **Collateral Pool Report**
  - **Stock Loan and Repo Mgmt**
  - **Detailed Limits Report**

  This field displays the date type specified in the **Stock Loan** tab of the **Preferences** window.
- The **Stock Loan and Repo Mgmt Date Type** drop-down list has been added to the **Stock Loan** tab of the **Preferences** window. This list enables you to specify which deals should be taken into account when calculating the collateral risk indicator in the collateral management. The following values are available:
  - **Value Date** — takes deals into account based on the value date.
  - **Real Settlement Date** — takes deals into account based on the date from the received instruction. This is the default value.

Note The **Stock Loan and Repo Mgmt Date Type** drop-down list replaces the **SL and Repo Mgmt** drop-down list in the **Back Office** tab of the **Preferences** window has been removed. The **SL and Repo Mgmt** drop-down list has been removed.

- The following values have been added or renamed in the **Limits Calculation Date Type** drop-down list on the **Stock Loan** tab of the **Preferences** window:
  - **Value Date** — takes deals into account based on the value date.
  - **Real Settlement Date** — takes deals into account based on the date from the received instruction. This is the default value.
  - **Trade Date** — takes deals into account based on the trade date.
  - **Value Date+Pending Collateral** — takes deals into account based on the value date + the pending collateral.

Note The **Limits Calculation Date Type** drop-down list replaces the **Limits** drop-down list in the **Back Office** tab of the **Preferences** window has been removed. The **Limits** drop-down list has been removed.list has been removed.

- The **Accounting** drop-down list has been removed from the **Back Office** tab of the **Preferences** window.

Book Affected: Collateral Management Guide, Advanced Stock Loan Guide, Administration Guide

Files affected: Sophis.dll, SphAPI.dll, SphBasicDataGUI.dll, SphPortfolioGUI.dll, SphPreference.h

2.3.z Country Column in Securities Report

Issue Number: 53324

The **Country** column has been added to the following windows:

- **Securities Report**
- **Collateral Scheduler**

The **Country** column displays the country of the security.

The **Securities Collateral Country** column has been added to the following windows:

- **Detailed Limits Report**
- **Stock Loan and Repo Mgmt**

The **Securities Collateral Country** column displays the country of the securities collateral.

Book Affected: Collateral Management Guide, Advanced Stock Loan Guide

Files affected: SphBOKernel.dll, SphBasicDataGUI.dll, SphCollateral.dll

2.3.aa Contract Management from the Securities Report

Issue Number: 52029

The dialog box that is displayed if a **Stock Loan / Repo: Manage Contract** operation is performed on more than one stock loan or repo position is now displayed if the operation is performed from the **Securities Report** window.

Files affected: SphCollateralGUI.dll

2.3.ab CFD Quantity in Securities Report

Issue Number: 53312

The **Quantity CFD** column in the **Securities Report** window has been removed.

Book Affected: Collateral Management Guide

Files affected: SphSecuritiesExtraction.h SphCollateral.dll

2.3.ac Short Book Filter in Securities Report

Issue Number: 50741

The **Short Book** option has been added to the list of filters in the **Filter** drop-down list of the **Securities Report** window. This option filters securities using the following criteria:

1. The securities are filtered if at least one of the portfolios in the report is short.
2. All sub-folders of each security that matches the first criteria are also filtered.

Book Affected: Collateral Management Guide

Files affected: SphCollateralGUI.dll

2.4 Commodities

2.4.a Precious Metals in Detailed Cash-Balance Report

Issue Number: 42328

Precious metal values in the **Detailed Cash Balance Report** are now displayed with the number of decimal places specified by the **Round** drop-down list on the currency window.

Files affected: SphPortfolioGUI.dll

2.4.b Greeks of Packages of Precious Metals

Issue Number: 54153

Vega Market, **Vanna**, and **Volga** values are now displayed in the **Portfolio** window for packages of precious metals.

Files affected: Sophis.dll

2.4.c Column Configuration of VolMatrix in Delta/Maturity Analysis

Issue Number: 53276

The **Maturity** column is now the first column displayed in the **Delta Vol Matrix** window by default.

Files affected: SphPortfolioAnalysisGUI.dll, SphPortfolioGUI.dll

2.4.d OTC-Cleared Options

Issue Number: 56679

Options with an OTC-cleared swap as the underlying instrument now behave in the same way as options on standard commodity swaps.

Files affected: Sophis.dll, SphPortfolio.dll

2.5 Configuration

2.5.a Floating Spread Rate Column

Issue Number: 53660

The **Floating Spread Rate** column of the **Portfolio** window has been moved from the **BasketSwap(advanced)** column grouping to the **SF Finance** column grouping.

Note The **BasketSwap(advanced)** column grouping has been removed.

Book Affected: Portfolio Management Guide

Files affected: SphPortfolio.dll

2.5.b Delay Before Password

Issue Number: 34220

The time limit for the **Delay before Password** preference on the **General** tab of the **Preferences** dialog box has been increased from 120 minutes to 32767 minutes.

Files affected: Sophis.dll, SphBasicDataGUI.dll

2.6 Dashboard

2.6.a Automatic Refresh

Issue Number: 54244

The **Refresh each** drop-down list on the **General** tab of the **Configuration** dialog box has been replaced with the **Refresh each** spin box.

The **Refresh each** spin box enables you to specify the frequency that data is refreshed in the Dashboard. The refresh frequency in the **Refresh each** spin box is defined in the hh:mm:ss time format.

Book Affected: Dashboard User Guide

Files affected: SophisDashboard.dll

2.7 Database

2.7.a MNEMO TITRES Index

Issue Number: 54098

The **`SophisBasicData.sql`** script now creates an index on the `MNEMO` column of the `TITRES` database table to improve performance.

Files affected: SophisBasicData.sql

2.7.b Oracle Connection Management

Issue Number: 47859

You can now configure Oracle connection management in RISQUE using the Kill process. If the Kill process is enabled, and RISQUE is disconnected from an Oracle database, the **`SphRisque.exe`** process performs the following:

- Terminates the **`EXCEL.exe`** process. In some circumstances, it fails to terminate the **`EXCEL.exe`** process and it remains, in the **Windows Task Manager** window, as a zombie process.
- Attempts to terminate itself using the **`TASKKILL`** command. If the **`TASKKILL`** command fails to terminate the **`SphRisque.exe`** process, it attempts to terminate itself using the **`ProcessKill`** command.

The following parameter has been added the **`risk.ini`** file to configure how Sophis servers manage a disconnection from an Oracle database:

```
DATABASE]
onDisconnect =
```

Book Affected: Installation Guide

Files affected: SDBC.dll, SphAPI.dll, SphRiskTools.dll

2.7.c SphPortfolio.sql Performance

Issue Number: 56983

The **`SphPortfolio.sql`** upgrade script has been optimised to improve performance.

Files affected: SphPortfolio.sql

2.7.d Market Data Migration Scripts

Issue Number: 54591

The following scripts have been merged into a new script named **`AllMarketDataMigration.sql`** to improve performance:

- **`CorrelationAuditDataMigration.ext`**
- **`DividendAuditDataMigration.ext`**
- **`RateCurvesAuditDataMigration.ext`**
- **`RepoCurvesAuditDataMigration.ext`**
- **`VolatilityAuditDataMigration.ext`**

Book Affected: Installation Guide

Files affected: AllMarketDataMigration.sql

2.7.e Startup Database Queries

Issue Number: 52633

Database queries executed as part of the RISQUE startup process have been optimised to improve performance.

Files affected: SophisBasicData.dll

2.8 Documentation

2.8.a Command Line

Issue Number: 51476

The description of the `-L` command-line parameter has been updated in the *RISQUE from the Command Line* chapter of the *Administration Guide*.

Files affected: Administration Guide

2.8.b Oracle Permissions Required for Upgrade

Issue Number: 48057

The *Database Configuration* chapter of the *Installation Guide* has been updated to include the permissions required by the RISQUE schema owner-user and the user performing the database upgrade.

Book Affected: Installation Guide

2.8.c Automatic Computing Preference

Issue Number: 56400

The documentation of the **Automatic Computing** drop-down list on the **General** tab of the **Preferences** dialog box has been updated in the *Preferences* chapter of the *Administration Guide*.

Book Affected: Administration Guide

2.9 Instruments

2.9.a Link to Collateral Agreement

Issue Number: 54359

The **Agreement Name** link has been added to the **AGREEMENT** frame of the **Stock Loan / Repo Input** window. Click the **Agreement Name** link to open the **Collateral Agreement** window for that agreement.

Files affected: RiskEn.dll, SphPortfolioGUI.dll

2.9.b Quantities Adjustment for Stock Loan Baskets

Issue Number: 54360

In previous releases, a percentage of the quantity was used to adjust the quantities in the **Deals on Basket** window for stock loans booked on a basket. As of this release, to adjust the quantities in the **Deals on Basket** window for stock loans booked on a basket, a factor of the current quantity is used.

To adjust the quantity in the **Deals on Basket** window using the new method, the following has been modified:

- The **Quantities Percentage Adjustment** text box has been renamed to **Quantities Adjustment**.
- To adjust the quantities in the **Quantities Adjustment** text box, enter the factor by which you want to multiply the quantity.

  For example, to double the quantity, enter 2. This multiplies the quantity by a factor of 2. To halve the quantity, enter 0.5. The default value is 1, which corresponds to 1x the current quantity.

Files affected: Sophis.dll, SophisBasicData.dll, SophisInterface.dll, SphBasicDataGUI.dll, SphAPI.dll, SphPortfolioGUI.dll

2.9.c Cap/Floor Window Strike(%) Text Box

Issue Number: 50883

It is now possible to enter values to 12 decimal places in the **Strike (%)** text box in the **Option** frame of the **Cap/Floor** window.

Files affected: SophisBasicData.dll, SphBasicDataGUI.dll

2.9.d Default Yield Curve of Notionnel Futures and Convertible Bonds

Issue Number: 54915

It is now possible to calculate the forward price of the underlying bond of a notionnel future or convertible bond using the yield curve of the currency of the underlying bond. Previously, the forward price was calculated using the yield curve of the underlying bond. The following global preference has been added to the `RISKPREF` table:

`FORWARD_COMPOUND_FAMILY`

The default value is false which defines that the forward price is calculated using the yield curve of the currency of the underlying bond.

Book Affected: Administration Guide

Files affected: Sophis.dll

2.9.e Interest-Only and Principal-Only Asset-Backed Securities

Issue Number: 53726

The following two items, **ABS IO** and **ABS PO,** have been added to the **Model** drop-down list in the **Bond** window for asset-backed securities:

- **ABS IO** — the holder receives all of the interest cash flows and none of the principal. The default risk is related only to non-payment of coupons. Only coupon automatic tickets are generated.
- **ABS PO** — the holder receives any scheduled or unscheduled payments of principal and none of the interest. The default risk is related only to defaults on the principal payments. Only prepayment and exercise automatic tickets are generated.

Book Affected: Instrument Reference Guide, Portfolio Management Guide

Files affected: Sophis.dll, SphPortfolio.dll, SphABSBond.h

2.9.f Market for ASCOT Convertible Bonds

Issue Number: 51621

The **Market** drop-down list has been added to the **Convertible Bond Option** window for ASCOT convertible bonds. This drop-down list defines the delivery parameters of the ASCOT as specified in the selected market.

Files affected: SophisCB.dll

2.10 Interface

2.10.a Tooltips for Preferences

Issue Number: 56698

Tooltips have been added to the parameters on the following tabs of the **Preferences** dialog box:

- **Stock Loan**
- **Back Office**

These tooltips provide information on the effect of setting these parameters.

Files affected: SophisBasicDataGUI.dll

2.10.b Swaps Window Switch Legs Button

Issue Number: 56592

The **Switch Legs** button in the **Swap parameters** frame on the **General** tab of the **Swap** window has been moved between the **Receiving leg payoff** and **Paying leg payoff** frames and the **Switch Legs** label has been replaced with an icon.

Figure 2-1 shows the **Switch Legs** button:

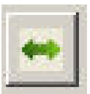


Figure 2-1 Switch Legs button

Book Affected: Instrument Reference Guide

Files affected: SphBasicDataGui.dll, SphRisque.exe

2.10.c Movement Identifier in the Fast Search

Issue Number: 55786

As of this release, the position identifier is included in searches from the **Fast Search** window. You can display the position in the **Portfolio** window by double-clicking it in the search results.

Files affected: SphPortfolioGUI.dll, SphGuiCommon.dll, SphQueryBuilder.dll, SphRisque.exe

2.11 Log Files

2.11.a Improved Log Messages for Position Underlyings

Issue Number: 51722

As of this release, the messages written to the log file for limits calculated during the End of Day procedure have been improved. These messages provide information on the underlying, positions, and portfolios calculated by the End of Day procedure.

Files affected: SophisLimits.dll

2.12 Performance

2.12.a IR Delta Analysis (Swap) Portfolio Analysis

Issue Number: 49631

The performance of the **IR Delta Analysis (Swap)** portfolio analysis has been improved. Prior to this release, the analysis was calculated for positions that were not linked to the specified yield curve.

As of this release, only positions that are linked to the specified yield curve are calculated.

Files affected: SphPortfolio.dll

2.13 Portfolios

2.13.a Modify Contract

Issue Number: 54760

It is now possible to modify several properties of a stock loan contract in one window. To do this, the **Modify Contract** command has been added to the context menu of stock loan positions in the **Portfolio** window. Clicking **Modify Contract** opens the **Modify Contract** window, as shown in figure 2-2:

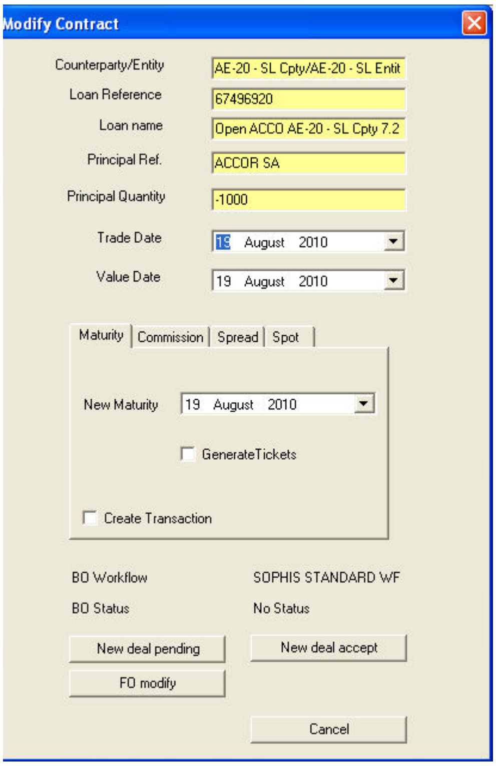


Figure 2-2 Modify Contract window

In the **Modify Contract** window, you can modify the following properties of the stock loan contract:

- Maturity date
- Commission rate
- Spread
- Spot price

Book Affected: Advanced Stock Loan Guide

Files affected: SphStockLoanGUI.dll, SphCollateral.dll, SphCollateralGUI.dll

2.13.b Available Mirror Rules

Issue Number: 54082

The list of available mirror rules in the **Mirror Rules** drop-down list on the **Deal Input** window is now automatically updated if the following conditions are true:

- Changes are made to the parameters of a deal in the **Deal Input** window.
- These changes affect which mirror rules are matched in the **Mirror Rules Selector**.

If the list of available mirror rules changes because of a change to one of the deal parameters, the first matching mirror rule from the **Mirror Rules Selector** appears as the selected mirror rule in the **Mirror Rules** drop-down list.

Files affected: Sophis.dll, SphPortfolioGUI.dll

2.13.c No Mirroring Option

Issue Number: 54081

The following enhancements have been made to selecting a mirror rule from the **Mirror Rules** drop-down list on the **Deal Input** window:

- If no mirror rules in the **Mirror Rules Selector** match the parameters of a deal, **No Mirroring** is the only mirror rule available in the **Mirror Rules** drop-down list on the **Deal Input** window.
- If a rule in the **Mirror Rules Selector** does match the parameters of a deal, the **No Mirroring** option is not available in the **Mirror Rules** drop-down list, unless it has been specifically defined as a rule in the **Mirror Rules Selector.**

Files affected: Sophis.dll, SphPortfolioGUI.dll

2.13.d Price of Shares in Dynamic P&L Freeze

Issue Number: 53074

The last price of shares is now used in the dynamic P&L freeze regardless of the setting of the **Result in Theoretical Value** check box on the **Profit and loss** tab of the **Preferences** dialog box. This is consistent with the standard P&L calculation of shares.

Files affected: Sophis.dll

2.13.e Portfolio Context Menu Order for Stock Loan Positions

Issue Number: 54725

The commands in the context menu for stock loan positions in the **Portfolio** window have been re-ordered. Commands that pertain to stock loan modifications are grouped together. The group is as follows:

- **Cancel and Create Again**
- **Collateral/Repo Spread Modification**
- **Commission Modification**
- **Duplicate**
- **Maturity Modification**
- **Modify Contract**
- **Partial Return**
- **Roll**
- **Show Current Contract**
- **Stock Loan / Repo: Manage Contract**

Files affected: SphPortfolioGUI.dll, SphCollateralGUI.dll, SphTreasuryGUI.dll

2.13.f Incorrect SF Realized Spread Value

Issue Number: 53156

The value in the **SF Realized Spread** column in the **Portfolio** window was incorrect for stock loan positions. This error occurred because the accrued spread was incorrectly taken into account in addition to the realised spread.

Files affected: SphCollateral.dll

2.13.g Credit Default Swap Blotter

Issue Number: 55881

The item **Floating Rate Payer (Seller)** in the drop-down list in the **Buyer/Seller** column of the **Credit Default Swap Blotter** has been renamed to **Protection Payer (Seller).**

Files affected: RiskResources.txt

2.13.h Basis Swap Portfolio Window Columns

Issue Number: 42205

The following columns of the **Portfolio** window are now populated for forex basis swaps:

- **SF Realized Spread**
- **SF Realized Interest Rate**
- **SF Realized Total Interest**
- **SF Accrued Spread**
- **SF Accrued Interest Rate**
- **SF Accrued Total Interest**
- **SF Unrealized Spread**
- **SF Unrealized IR Fixing**
- **SF Unrealized Settlement Lag**
- **SF Value Spread**
- **SF Value Interest Rate**
- **SF Value Total Interest Rate**

Book Affected: Portfolio Management Guide

Files affected: SphCollateral.dll, SphPortfolio.dll

2.13.i Portfolios Loading on Coherency Channel

Issue Number: 54769

A new global preference, `TryNotToLoadInstrument` has been added to the `RISKPREF` database table. The `TryNotToLoadInstrument` global preference enables you to prevent new positions being loaded in portfolios if multiple instances of RISQUE are connected to a coherency channel. The following options are available:

- `1` — if the same portfolio is loaded in two or more instances of RISQUE and one instance creates a deal on an instrument that was not previously booked in the portfolio, the new position is displayed but not loaded in the other instances of RISQUE. Calculating (F9) must be performed on the portfolio to load and correctly calculate the results of the portfolio.

Note The **Basket Auto Computing** check box on the **General** tab of the **Preferences** dialog box must be cleared otherwise the default behaviour of the `TryNotToLoadInstrument` global preference is enabled.

- `0` — if the same portfolio is loaded in two or more instances of RISQUE and one instance creates a deal on an instrument that was not previously booked in the portfolio, the new position is loaded in the other instances of RISQUE. Reporting (F8) correctly calculates the results of the portfolio.

Note The default value is 0. This is the previous behaviour of RISQUE.

Book Affected: Administration Guide

Files affected: Sophis.dll, SophisBasicData.dll, SphPortfolio.dll, SphAPI.dll

2.13.j Loading Stock Loan and Repo Contract Management

Issue Number: 52025

The **Cancel** and **Cancel All** buttons in the dialog box that was displayed if a **Stock Loan / Repo: Manage Contract** operation was performed on more than one stock loan or repo position have been renamed to **No** and **No to All**.

Files affected: SphCollateralGUI.dll, SophisInterface.dll

2.13.k Currency Colours in Parametric VaR Breakdown Explanation

Issue Number: 54577

The values in the **Breakdown Explanation** window of the parametric VaR analysis are now displayed in the colour defined for the currency of the value.

Files affected: SophisParametricVARGUI.dll, SophisParametricVAR.dll

2.13.l Vega Notional Outstanding Column

Issue Number: 52249

The **Th. Vega Notional Outstanding** portfolio column has been added. This column displays the theoretical vega notional outstanding.

The column is calculated as follows:

```
= Outstanding vega notional * current implied
volatility / initial implied volatility
```

The initial implied volatility used for this equation is calculated as follows:

- For variance swaps, the initial volatility is the square root of the fixed rate.
- For volatility swaps the initial volatility is the fixed rate.

Note This column is null for gamma and correlation swaps.

Book Affected: Portfolio Management Guide

Files affected: SphPortfolio.dll

2.14 Pricing

2.14.a Accrued Computation Modes

Issue Number: 50251

A new drop-down list, **Valuation type**, has been added to the **Swap parameters** frame of the **Swap** window. The **Valuation type** drop-down list enables you to define how swaps are priced. The following options are available:

- **See preferences** — the swap is priced as specified by the **Lending & Borrowing Rediscount** check box on the **Profit and loss** tab on the **Preferences** dialog box.
- **In present value** — the swap is priced using the present value of the swap.
- **In accounting value** — the swap is priced in accrued.

Book Affected: Instrument Reference Guide

Files affected: Sophis.dll, SphFinance.dll, SphPortfolio.dll, SophisBasicData.dll, SphBasicDataGui.dll, SphPortfolioGUI.dll, instrument.xsd, sphBasketSwap.h, SphSwapEnums.h

2.15 Reporting Module

2.15.a Usability of Source Data Tab

Issue Number: 52792, 52793, 52791

The **Source Data** tab of the following report sources was updated for layout and usability:

- **Nostro Management**
- **Securities Report**
- **Collateral Pool Report**

Files affected: SphTreasuryGUI.dll, SphCollateralGUI.dll

2.15.b Style Sheet for Bulk Generation

Issue Number: 37760

You can now specify a Crystal Report or XSL style sheet in the **`risk.ini`** file for the bulk generation of reports. You can set the style sheet in the section defined for the report with the new parameter, `transformationFileFullName`.

Book Affected: Reporting Module User Guide

Files affected: SophisReporting.dll

2.15.c Binding the Position ID of Stock Loan and Repo Contract

Issue Number: 52920

You can now bind the **Position ID** text box on the **Source Data** tab of the **Stock Loan and Repo Contract** source to a portfolio using the FOLIO_ID keyword.

Files affected: SphCollateral.dll

2.16 User Rights

2.16.a Restricting Access to Worksheets

Issue Number: 34366

You can now restrict modifications to worksheets in the **User Rights Table** window. You can do this by creating a user right in the **User Rights Table** window and then setting the access rights to it in the user rights dialog box.

For more information, see the *RISQUE Administration Guide*.

Book Affected: Administration Guide

Files affected: SphBasicData.dll, SophisInterface.dll, SphCommodities.dll, SphCommoditiesGUI.dll, SphExcelWorksheet.dll, Risk.xla

2.16.b Collateral Pool Report

Issue Number: 53173

The type of the **Collateral Pool Report** user right in the **Collateral Management** tab in the user properties window has been changed from **Read**/**Write**/**No access**, to **Yes**/**No**.

Book Affected: Collateral Management Guide

Files affected: SophisBasicData.dll, SphCollateralGUI.dll

2.16.c Securities Report User Right

Issue Number: 57081

The **Sec. BO SCP** user right in the **Securities BO** tab of the users window has been renamed to **Sec. BO Securities Projection**.

Book Affected: Back Office User Guide

Files affected: SophisBasicData.dll

Chapter 3 Server Changes in 5.3.6.3

This chapter describes the changes made to the RISQUE 5.3.6.3 API that affect the Sophis servers. These changes were made for the following servers:

- *Upgrading to 5.3.6.3 on page 338*
- Calculation Server
  - *Corrected Bugs in the Calculation Server on page 338*
- Data Service
  - *Corrected Bugs in the Data Service on page 339*
  - *Enhancements in the Data Service on page 341*
- DRT Server
  - *Corrected Bugs in the DRT Server on page 342*
- Integration Service
  - *Corrected Bugs in the Integration Service on page 342*
- Memory Cache Server
  - *Corrected Bugs in the Memory Cache Server on page 343*
- Compliance Service
  - *Corrected Bugs in Compliance Service on page 344*
  - *Enhancements in Compliance Service on page 344*
- Rich Market Adapter
  - *Enhancements in Rich Market Adapter on page 345*

3.1 Upgraded Servers

The following servers were upgraded in this release:

- Calculation Server
- Compliance Server
- Back Office Services

- Rich Market Adapter
- Core Services
- Data Service and sources
- Memory Cache Server
- Integration Service - Websphere
- Risk Management Module

3.2 Upgrading to 5.3.6.3

3.2.a LM-X v3.2 Mandatory Upgrade

Issue Number: 55569

As of this release, LM-X v2.31 is no longer supported. You must install LM-X v3.2. See the *LM-X v3.2 Release Notes* and the third-party documentation for instructions on upgrading.

Files affected: LMInterface.dll, LMXWrapper.dll

3.3 Corrected Bugs in the Calculation Server

3.3.a MTM Spread and the Calculation Server

Issue Number: 43176

The **MTM Spread** portfolio column was not populated for positions on bonds defined with the **MtoM + MtoM Greeks** pricing model if the portfolio was calculated using the Calculation Server.

Files affected: Sophis.dll

3.3.b Packet Size

Issue Number: 49857, 51047

RISQUE behaved unpredictably if the following occurred:

1 The Calculation Server was configured with the `scenarioResultsMaxSize` parameter set to a value other than -1.

   This parameter defines the size of the packets sent from the Calculation Server. This parameter is defined in the `[Calculator]` section in **`Calculator.ini`**.

2 The **Risk Matrix** analysis was calculated by the Calculation Server.

3 The calculation was cancelled.

4 The **Risk Matrix** analysis was recalculated by the Calculation Server by the same client or by any other client connected to the Calculation Server.

Files affected: SphPortfolio.dll

3.3.c Analysis Grids

Issue Number: 52262

Changes to the following parameters in the **Preferences** window were not used by the Calculation Server:

- The **Vol** drop-down list in the **Grid for Bucket Analysis** frame on the **Volatility** tab.
- The following drop-down lists in the **Grids for Bucket Analysis** frame on the **Rho** tab:
  - **Rho**
  - **Reset**

Note These settings are used by the Calculation Server to calculate greeks in fast P&L calculations.

Files affected: Sophis.dll, SphPortfolio.dll

3.4 Corrected Bugs in the Data Service

3.4.a Dividends Conflict-Management Error

Issue Number: 51147

The Data Service Scheduler did not generate a conflict if the following conditions were true:

1 An update was performed on instruments with either the MarkIT Source Server or the SophisXML Source Server.

2 The dividends of instruments were updated.

3 The historical data of dividends was different to the data retrieved by the Source Server.

Files affected: SophisDataTypeEngine.dll

3.4.b Universal Reference Error

Issue Number: 54212

It was not possible for the Data Service to create instruments with a universal reference other than TICKER for requests received from the RMA.

To enable the Data Service to update instruments with alternative universal references, you must execute the following SQL statement:

```
update DS_SOURCE_SELECTOR SET EXTERNALREFTYPES='UNIVERSALREFERENCES;'
where RANK=5;
```

This SQL statement updates the `RANK=5` row in the `DS_SOURCE_SELECTOR` database table with the universal references specified in the `EXTERNALREFTYPES` field.

For example, to update the `DS_SOURCE_SELECTOR` database table with the ISIN and TICKER universal references, execute the following SQL statement:

```
DS_SOURCE_SELECTOR SET EXTERNALREFTYPES='ISIN;TICKER;' where RANK=5
```

Files affected: SophisDataService.dll SophisDataServiceGUI.dll SophisDataTypeEngine.dl

3.4.c Updating ABS with Data Service

Issue Number: 56336

Asset-backed security pool factors were not updated if the data was updated by the Data Service. This occurred only if the XML file generated by the Data Service contained pool factor values and notional repayment values.

As of this release, an Data Service can be used to import pool factors XML if the import file contains the following:

- Only the pool factor values.
- Only the notional repayment values.
- Both pool factor and notional repayment values.

Files affected: Sophis.dll

3.5 Enhancements in the Data Service

3.5.a Updating Sectors

Issue Number: 56451, 47865

Sectors can now be updated by Reuters DataScope Select source using only the sector code. Previously, the following values were required to update a sector:

- The name of the sector.
- The path of the sector in RISQUE.

Previously if an update was performed on an instrument and the instrument sector code was included in the update, a new sector was created even if the sector code was already in the database.

Files affected: Sophis.dll

3.5.b ABS IO and ABS PO Bond Updates

Issue Number: 53189

The Bloomberg API Source Server can now update the following types of bonds:

- ABS interest-only bonds (ABS IO)
- ABS principal-only bonds (ABS PO)

Note This enhancement is valid for users with the following installations:

- Data Service 5.3.6.3
- Bloomberg FTP Source Server 5.3.X.7
- RISQUE 5.3.6.3

Files affected: SophisDataTypeEngine.dll

3.6 Corrected Bugs in the DRT Server

3.6.a Tickers Not Unsubscribed for Listed Markets

Issue Number: 56646

Tickers for listed markets were not unsubscribed in the DRT Server unless the client connection was closed and then reconnected. This error occurred because RISQUE sent more than one subscription request to the DRT Server, but only one unsubscribe request.

Files affected: SphRiskTools.dll

3.6.b Open Price for Real-Time Quotations

Issue Number: 50089

The open price was not populated in RISQUE by the DRT Server.

Files affected: Sophis.dll

3.7 Corrected Bugs in the Integration Service

3.7.a Yield Curve Axes

Issue Number: 54280

The upper scale of yield curve axes were reset to 0 if the yield curves were imported with the Integration Service. The curve was not displayed unless the scale was changed manually.

Files affected: SphBasicData.dll

3.7.b Integration Service Third-Party Error

Issue Number: 53649

An error message was displayed if the Integration Service was used to create a third party.

Files affected: SphBackOfficeOTC.dll, Sophis.dll

3.7.c Integration Service Mirroring Error

Issue Number: 53746

An error occurred if a mirroring rule was applied to a deal using the Integration Service.

Files affected: SphAPI.dll, SphPortfolioGUI.dll, SphRisque.exe

3.8 Corrected Bugs in the Memory Cache Server

3.8.a Portfolio Extractions

Issue Number: 47549

Positions in portfolio extractions were not cached by the Memory Cache Server.

Files affected: SphPortfolio.dll

3.8.b Raw Data Size

Issue Number: 55882

The value in the **Raw Data Size** column of the **Memory Cache Server Information** window was displayed as 0 for the position cache.

Files affected: SophisCache.dll

3.8.c Average Price

Issue Number: 53757

The **Average Price** column was incorrect for positions that included deleted trades if the Memory Cache Server was connected to RISQUE. This occurred because the Memory Cache Server did not recalculate the average price for a position if a trade was deleted.

As of this release, the Memory Cache Server periodically recalculates the average price if a trade is deleted. For more information, see the *Memory Cache Server Installation Guide*.

Files affected: SphPortfolio.dll

3.9 Corrected Bugs in Compliance Service

3.9.a Compliance Extraction with no Criteria

Issue Number: 53167

Values were not displayed correctly in the **Underlying** column on the **Rules** window if the following conditions were true:

- The **Browse the Underlyings as Folders** check box was selected on the **Rule builder** window.
- No criteria were defined for the portfolio extraction selected from the **Portfolio extraction** drop-down list on the **Rule builder** window.

Files affected: Sophis.dll

3.10 Enhancements in Compliance Service

3.10.a Forex Exposure Compliance

Issue Number: 50854

It is now possible to select a currency in the **Underlying** column of the **Rules for** window.

Note The **Underlying** column is only displayed if the **Browse the Underlyings as Folders** check box is selected on the **Rules Builder** window.

Files affected: Sophis.dll

3.11 Enhancements in Rich Market Adapter

3.11.a Instrument References

Issue Number: 56120

A new attribute, `checkIfDefined`, can now be specified for the reference of the underlying instrument of a deal. This attribute only applies if the `modifiable` attribute of the `reference` element is set to `UniquePrioritary`. The `checkIfDefined` attribute can be set to one of the following:

- `false` — if the specified reference is incorrect, the deal is created if the instrument is correctly identified by the first reference in the `instrument` element.
- `true` — the deal is only created if the reference specified is correct.

The default setting is `false`.

Files affected: Sophis.dll, instrument.xsd

Chapter 4 Toolkit Changes in 5.3.6.3

This chapter describes the toolkit changes in RISQUE 5.3.6.3. These changes were made in the following areas:

- *Corrected Bugs on page 347*
- *Enhancements on page 348*
- *.NET on page 351*
- *RiskCOM on page 351*
- *Additions and Alterations on page 352*

Important You need to recompile your Toolkit projects against the new API.

4.1 Corrected Bugs

4.1.a GetCodeWithExternalRef Null-Pointer Error

Issue Number: 53327

In some instances the following method incorrectly returned a null pointer:

```
CSMInstrument.GetCodeWithExternalRef("ExternRef")
```

Files affected: SphAPI.dll

4.1.b Warning Message for Clauses

Issue Number: 52631

A message prompting the user to save the instrument was displayed if the following conditions were true:

- A clause was created in the toolkit.
- The clause was added to an instrument.
- The instrument was opened in the instrument definition window and closed without modification.

Files affected: Sophis.dll, SphInstrument.h

4.1.c Cap-and-Floor Models

Issue Number: 52529

An error occurred if the following conditions were true:

1. A new tab that included cap-and-floor models was added to the **Cap and Floor** window by a toolkit project.
2. A new model was added by a toolkit project.
3. The new model was selected on this tab.

Files affected: SphBasicDataGUI.dll

4.2 Enhancements

4.2.a Insert Worksheet User Right

Issue Number: 47357

It is now possible to manage whether or not users can access the **Insert Worksheet** command on the **Edit** menu by defining a toolkit user-right and implementing the following function in a toolkit dynamic-link library (DLL):

```
SOPHIS_COMMODITY bool (*HasAccessForInsertWorksheet)(long nUserId)
```

Files affected: SphRisque.exe, SphCommodities.dll

4.2.b Global Margin Call Window

Issue Number: 51936

It is now possible to customise the **Global Margin Call** window using the toolkit.

Files affected: SphCollateralGUI.dll

4.2.c Custom Names for Stock Loans and Repos

Issue Number: 54539

It is now possible to define a custom name for stock loan and repo instruments and positions using the `CSRLoanAndRepo::CreateInstrumentName()` method in the toolkit.

Files affected: SphCollateral.dll, SphCollateralGUI.dll, Sophis.dll, SphBasicData.dll, SphBasicDataGUI.dll, SphPortfolioGUI.dll, SphStockLoanName.h

4.2.d Method to Compute All In Rate Change

Issue Number: 51128

The method double `CSRLoanAndRepo::CalculateCommissionFromAllInRate(double allInRate)` has been added to **`CSRLoanAndRepo.h`**. This method calculates the commission rate if the all-in rate for stock loans has been modified.

Note This method is also available in the .NET toolkit as `System::Double sophis::instrument::CSMLoanAndRepo::CalculateCommissionFromAllInRate(System::Double allInRate)`:

Files affected: Sophis.dll, SophisBasicData.dll, SphLoanAndRepo.h

4.2.e Stock Loan Basket Depositaries

Issue Number: 55752

It is now possible to manage depositaries from stock loans booked on baskets using the toolkit.

Files affected: SphCollateral.dll, SphPortfolioGUI.dll, SphStockLoanBookingAction.h

4.2.f SaveConfirmationOverloader Class

Issue Number: 55703

The `SaveConfirmationOverloader` class of the **`SphConfirmationDialog.h`** file is now available in the .NET toolkit.

Files affected: SphDotNetToolkitGUI.dll

4.2.g Moving Tickets

Issue Number: 45485

The **`SphMoveTicketAction.h`** header file has been added in this release. This file defines classes used to create hooks that are called if the **Move Tickets** command in the **Edit** menu is used. It also defines the `INITIALISE_MOVE_TICKET_ACTION` macro which registers actions that have been specified in the `CSRMoveTicketAction` class.

Files affected: SphBOKernelGUI.dll, SphPortfolioGUI.dll, SphMoveTicketAction.h

4.2.h CSMMULTICURRENCYBASKET Class

Issue Number: 53384

You can now set the conversion type, computation type, and volatility-computation type of multi-currency baskets using the `CSRMultiCurrencyBasket` class. The following were added to the C++ `CSRMultiCurrencyBasket` class:

- `bool SetMCBasketConversionType(eMCBasketConversionType conversion);`
- `bool SetMCBasketComputationType(eMCBasketComputationType computation);`
- `bool SetMCBasketVolatilityComputationType(eMCBasketVolatilityComputationType volComputation);`

The following were added to the equivalent C# `CSMMultiCurrencyBasket` class:

- `bool SetMMCBasketConversionType(eMMCBasketConversionType conversion);`
- `bool SetMMCBasketComputationType(eMMCBasketComputationType computation);`
- `bool SetMMCBasketVolatilityComputationType(eMMCBasketVolatilityComputationType volComputation);`

Files affected: SphMultiCurrencyBasket.h, SphFinance.dll

4.2.i GetExtraUnderlyingCondition

Issue Number: 52868

As of this release, all types of underlying instruments can be filtered by overriding the `CSRSecuritiesExtraction::GetExtraUnderlyingCondition` function. In previous versions, shares, bonds, and convertible bonds were filtered by default and you could only filter other instruments in addition to these instruments.

Files affected: SphSecuritiesExtraction.h SphCollateral.dll

4.3 .NET

4.3.a CSMTransferTrade

Issue Number: 56848

The classes available in `CSRTransferTrade` are now available in the .NET Toolkit in `CSMTransferTrade`. These classes allow you to transmit events.

Files affected: SophisDotNetToolkit.dll

4.4 RiskCOM

4.4.a GetFixing and GetNthFlow Methods

Issue Number: 55602

The following methods were incorrect or not available:

- `GetFixing`
- `GetFixing1`
- `GetNthFlow1`
- `GetNthFlow2`
- `GetNthFlow3`
- `GetNthFlow4`
- `GetNthFlow5`
- `GetNthFlow6`
- `GetNthFlow7`
- `GetNthFlow8`
- `GetNthFlow9`

4.5 Additions and Alterations

Changes were made in the following namespaces:

- *sophis on page 352*
- *backoffice_cash on page 352*
- *backoffice_kernel on page 353*1
- *backoffice_otc on page 354*
- *collateral on page 354*
- *commodity on page 358*
- *finance on page 358*
- *gui on page 359*
- *instrument on page 359*
- *market_data on page 360*
- *portfolio on page 360*
- *tools on page 361*

4.5.a sophis

SphPreference.h

The following has been added to `enum eLimitsCalculationDateType` in this release:

- `dtRealSettlementDate`

The following have been removed `fromclass SOPHIS_FIT CSRPreference` in this release:

- `static bool GetUpdateQuantitiesPc();`
- `static void SetUpdateQuantitiesPc(bool s);`

The following have been added to `class SOPHIS_FIT CSRPreference` in this release:

- `static eLimitsCalculationDateType GetStockLoanRepoDateType();`
- `static void SetStockLoanRepoDateType(eLimitsCalculationDateType dt);`

4.5.b backoffice_cash

The following header files have been added in this release:

- **`CSSPDataEngineBase.h`**
- **`SphSPCColumn.h`**
- **`SphSPCCriteria.h`**
- **`SphSPCGenericCriteria.h`**
- **`SphSPReport.h`**
- **`SphSPReportFactory.h`**

- **SphSPReportResultHier.h**
- **SphSPView.h**

CSSCPDataEngineBase.h

The following has been added to `class AmtData` in this release:

- `static const char * __CLASS__;`

CSSCPSettings.h

The following have been added to `class SOPHIS_BO_CASH CSSCPSettings` in this release:

- `_STL::string GetViewName() const{return viewName;}`
- `void SetViewName(const _STL::string& view){viewName = view;}`
- `bool GetFillDates() const{return fFillDates;}`
- `void SetFillDates(bool filldates){fFillDates = filldates;}`
- `bool GetIgnoreDates() const{return fIgnorePast;}`
- `void SetIgnoreDates(bool ignoredates){fIgnorePast = ignoredates;}`
- `static _STL::string FormatMacDate(long date);`

4.5.c backoffice_kernel

SphCorporateAction.h

The following has been added to `enum type` in this release:

- `item_swap_ca_rounding_coupon`

The following has been changed in `enum type` in this release:

- `_NUMBER_OF_TYPE_CORPORATE_ACTION_ = item_cfd_transfer_margin_call`
  has been changed to
  `_NUMBER_OF_TYPE_CORPORATE_ACTION_ = item_swap_ca_rounding_coupon`

SphThirdPartyEnums.h

The following has been added to `enum eThirdPartySite` in this release:

- `tptNotDefined = 0`

4.5.d backoffice_otc

SphBOTemplateFactory.h

The following have been changed in this release:

- `_STL::vector<long> NoGenerateRows;`
  has been changed to
  `_STL::map<long, long> NoGenerateRows;`
- `void FindRows(long &noRow);`
  has been changed to
  `void FindNoGenerateRows();`
- `virtual bool CanBeGenerated(const SSGeneratedTemplate &current, const long noRow);`
  has been changed to
  `virtual bool CanBeGenerated(const SSGeneratedTemplate &current);`

SphMessage.h

The following has been added to `class CSRMessageEngine` in this release:

- `mutable char docNotes[BO_OTC_MESSAGE_SIZE_NOTES];`

SphMessageEngine.h

The following has been added to `struct SSUpdateDocItems` in this release:

- `char docNotes[256];`

4.5.e collateral

The following header files have been added in this release:

- **SphStockLoanBookingAction.h**
- **SphStockLoanName.h**

SphCFDForecastHelper.h

The following has been added to `class SOPHIS_COLLATERAL CSRCFDForecastHelper` in this release:

- `bool TodayForecast(bool div_on, bool alert_on, bool ost_on, bool generateCorpAction, long fFolio);`

SphCFDResult.h

The following has been changed in class SOPHIS_COLLATERAL CSRCFDResult in this release:

- `const CSRLBAgreement *lba, long calculationDate, long ccy = 0);`

  has been changed to

  `const CSRLBAgreement *lba, long calculationDate, long ccy = 0, _STL::map<long/*ccy*/,double/*CashNotGeneratedYet*/>* _cashNotGeneratedYetPerCcyMap = NULL);`

SphCollateralEnums.h

The following enums have been added to `enum eLOIndicators` in this release:

- `eloiRecordDate`
- `eloiCouponValue`

SphGlobalMarginCallDialog.h

The following have been added to `class SOPHIS_COLLATERAL_GUI CSRGlobalMarginCallDialogCreator` in this release:

- `virtual gui::CSRColumnExplDialog* new_ColumnExplDialog() = 0;`
- `virtual CSRUserEditInfo* new_UserEditInfo() = 0;`
- `virtual const CSRStockLoanResult& GetParentLine() const = 0;`
- `virtual CSRGlobalMarginCallDialogCreator * Clone() const = 0`
- `typedef tools::CSRPrototype<CSRGlobalMarginCallDialogCreator, const char*, tools::less_char_star> prototype;`
- `static prototype& GetPrototype();`
- `virtual void SetValues(const CSRStockLoanResult* parentLine, const CSRLBAgreementPtr& lba, long date) const = 0;`

The following has been removed from `class SOPHIS_COLLATERAL_GUI CSRGlobalMarginCallDialogCreator` in this release:

- `CSRGlobalMarginCallDialogCreator(const CSRStockLoanResult& parentLine, const CSRLBAgreementPtr& lba, long date = 0);`

The following classes have been added in this release:

- `class CSRStockLoanResult`
- `class SOPHIS_COLLATERAL_GUI CSRGlobalMarginCallDialogCreatorDefault`

The following have been made mutable in this release:

- `const CSRStockLoanResult& fParentLine;`
- `const CSRLBAgreementPtr& fLBA;`
- `long fCcy;`
- `CSRLbaType::eLbaType fType;`
- `long fDate;`

The following has been changed in `class SOPHIS_COLLATERAL_GUI CSRGlobalMarginCallDialog` in this release:

- `static void GlobalMarginCallDialog(CSRGlobalMarginCallDialogCreator& creator);`

  has been changed to

  `static void GlobalMarginCallDialog(const CSRGlobalMarginCallDialogCreator& creator);`

The following have been added in `class SOPHIS_COLLATERAL_GUI CSRGlobalMarginCallDialog` in this release:

- `virtual void BeforeSaveEvent(_STL::map<long, void *> &lines) const { return;};`
- `virtual void AfterSaveEvent() const { return;} ;`
- `virtual void SaveExceptionEvent(int curLine) const { return;} ;`
- `friend class CSRGlobalMarginCallDialogCreatorDefault;`

The following class has been added in this release:

- `class SOPHIS_COLLATERAL_GUI CSRGlobalMarginCallRegister`

SphSecuritiesReport.h

The following class has been added in this release:

- `class CSRSecuritiesReportDialog;`

The following have been added to `class SOPHIS_COLLATERAL CSRSecuritiesReport` in this release:

- `friend class CSRSecuritiesReportDialog;`
- `const void RemoveResults() const;`
- `const void AddResultsExtra(const SCriteriaKey& criteriaKey, SSecuritiesReportView * view) const;`
- `mutable _STL::set<long> fSicovamList;`

SphSecuritiesReportCriteria.h

The following has been added to `class SOPHIS_COLLATERAL CSRSecuritiesReportCriteria` in this release:

- `bool IsNotExpandable() const;`

SphSecuritiesReportResult.h

The following have been added to `class SOPHIS_COLLATERAL CSRSecuritiesReportResultHier` in this release:

- `bool IsNotExpandable() const;`
- `void GetCriteriaKey(CSRSecuritiesReportCriteriaKey& criteriaKey) const;`

The following have been changed in `class SOPHIS_COLLATERAL CSRSecuritiesReportResultHier` in this release:

- `virtual long GetPositionId() const { return 0; }`
  has been changed to
  `virtual long GetPositionId() const;`
- `virtual long GetCounterParty() const { return 0; }`
  has been changed to
  `virtual long GetCounterParty() const;`
- `virtual long GetEntity() const { return 0; }`
  has been changed to
  `virtual long GetEntity() const;`

The following has been added to `struct SOPHIS_COLLATERAL SSecuritiesReportView` in this release:

- `_STL::set<long> fSicovamList;`

SphStockLoanContract.h

The following has been added to `class SOPHIS_COLLATERAL CSRStockLoanContract` in this release:

- `static CptyEntityList GetCptyEntityList(long mvtident);`
- `static long GetConvention(long mvtident);`

SphStockLoanResult.h

The following has been changed in `class SOPHIS_COLLATERAL CSRStockLoanResult` in this release:

- ```
  #ifndef GCC_XML
  _STL::set<long> GetVirtualCashPoolMvts() const { return
  fVirtualCashPoolMvts;}
  void InsertVirtualCashPoolMvts(_STL::set<long>::iterator
  first,_STL::set<long>::iterator last)
  {fVirtualCashPoolMvts.insert(first, last);}
  #endif
  ```
  has been changed to:
  ```

- `const _STL::set<long>& GetVirtualCashPoolMvts() const { return fVirtualCashPoolMvts;}`

  `void InsertVirtualCashPoolMvts(const _STL::set<long>& ids) {fVirtualCashPoolMvts.insert(ids.begin(), ids.end());}`

SphStockLoanContractEventDialog.h

The following has been added to `class SOPHIS_COLLATERAL_GUI CSRStockLoanContractExplDialog` in this release:

- `void SortContracts(void** orderedList, int size);`
- `friend class CSRStockLoanContractExplList;`

4.5.f commodity

SphCommodity.h

The following has been changed in `class SOPHIS_COMMODITY CSRCommodity` in this release:

- `static void RetrieveCommodityCodesFromInstrument(long lInstrumentCode, _STL::set<long> &outCommoCodes);`

  has been changed to

  `static void RetrieveCommodityCodesFromInstrument(long lInstrumentCode, _STL::set<long> &outCommoCodes, bool bWithInstrumentLoading = true);`

4.5.g finance

SphABSBond.h

The following has been added to `class SOPHIS_FIT CSRABSBond` in this release:

- `virtual double GetAccruedCoupon(long pariPassuDate, long accruedCouponDate) const;`

  ```
  enum eABSType{
  eatPassthrough = 0,
  eatIO,
  eatPO};
  ```
- `eABSType GetABSType() const;`
- `void SetABSType(eABSType absType);`
- `eABSType fABSType;`

SphMultiCurrencyBasket.h

The following has been added to `class SOPHIS_FINANCE CSRMultiCurrencyBasket` in this release:

- `bool SetMCBasketConversionType(eMCBasketConversionType conversion);`
- `bool SetMCBasketComputationType(eMCBasketComputationType computation);`
- `bool SetMCBasketVolatilityComputationType(eMCBasketVolatilityComputationType volComputation);`

4.5.h gui

SphTransactionDialog.h

The following has been changed in `enum eDealInputID` for this release:

- `eDILastItem= eDIDepositaryButton + 17;`
  has been changed to
- `eDILastItem= eDIDepositaryButton + 21`

4.5.i instrument

SphBond.h

The following have been added to `class SOPHIS_FIT CSRBond` in this release:

- `ePaymentGapType GetCouponSettlementLagType() const;`
- `void SetCouponSettlementLagType(ePaymentGapType lagType);`
- `int GetCouponSettlementLag() const;`
- `void SetCouponSettlementLag(int lag);`
- `friend class sophis::finance::CSRABSBond;`

SphInstrument.h

The following have been added in this release:

- `static const CSRInstrument * GetOneInstance(long instrument_id);`
- `void AddClause(CSRClause *clause,bool setModified);`

The following has been added to `CSRInstrument` in this release:

- `static void UnloadInstrument(long instrumentCode);`

SphLoanAndRepo.h

The following has been added to `class SOPHIS_FIT CSRLoanAndRepo` in this release:

- `double CalculateCommissionFromAllInRate(double allInRate);`

SphSwapEnumns.h

The following enum has been added in this release:

- ```
  enum eValuationType{
  vtAccordingToPref,
  vtInPresentValue,
  vtInAccountingValue};
  ```

4.5.j market_data

SphVolatility.h

The following was added to `class SOPHIS_FIT CSRVolatilityComputation` in this release:

- `const int GetVersion() const;`

SphYieldCurve.h

The following was added to `class SOPHIS_FIT CSRYieldCurve` in this release:

- `const _STL::pair<long, int> GetVolatilityVersion() const;`
- `void SetVolatilityVersion(_STL::pair<long, int> version);`
- `_STL::pair<long, int>fVolatilityVersion;`

4.5.k portfolio

The following header file has been added in this release:

- **`SphMoveTicketAction.h`**

SphXmlDealHelper.h

The following has been added to `class SOPHIS_PORTFOLIO_GUI CSRXmlDealHelper` in this release:

- `bool CreateDealFromXmlString(const _STL::string &str, long folioId);`
  ```

4.5.l tools

The following header files have been added in this release:

- **SphReportBase.h**
- **SphReportCriteria.h**
- **SphReportCriteriaKey.h**
- **SphReportCriteriaKeyBuilder.h**
- **SphReportData.h**
- **SphReportFactoryBase.h**

Part 5: RISQUE 5.3.6.4

Released: 15 February, 2010

This part contains the following:

- ▷The corrections in this version
- ▷The enhancements in this version
- ▷The toolkit changes in this version

Chapter 1 Corrected Bugs in 5.3.6.4

This chapter describes the bugs fixed in RISQUE 5.3.6.4. These fixes were made in the following areas:

1.1 Merged Versions

The following versions are merged in this release:

- 5.3.2.20
- 5.3.4.23
- 5.3.5.12

1.2 Accounting

1.2.a Posting for External Fund Series

Issue Number: 58526

Account postings for trades on fund series were generated with the Position ID of the inception fund instead of the series. This resulted in the generation of incorrect unrealised P&L amounts for account postings.

Files affected: SphPortfolio.dll, SphAccounting.dll, SophisFundBase.dll

1.3 Back Office

1.3.a Audit of Payments and Confirmations

Issue Number: 57981

An Oracle error occurred if an attempt was made to display the audit history window of a confirmation or payment message.

Files affected: SphBO_OTC_GUI.dll

1.4 Coherency

1.4.a Portfolio not in Entry Spot List Moved

Issue Number: 51286, 56421

All portfolios in the entry spot list of a user were incorrectly loaded if the following conditions occurred:

1. Some portfolios were not loaded for the user.
2. A second user on the same coherency channel moved a portfolio that was not in the entry spot list of the first user into a portfolio that was in the entry spot list of the first user.

Files affected: SphAPI.dll, SphPortfolio.dll, SphPortfolioGUI.dll, SphRiskTools.dll

1.5 Collateral Management

1.5.a Cash Margin Call with Mark Spot

Issue Number: 58556

The proposed values for a cash margin call's **Cash Amount**, **Net Amount** and **Rounded Amount** were incorrect if one of the following was changed:

- **Underlying Price**
- **Collateral Price**
- **Mark Spot**

Files affected: SphCollateralGUI.dll

1.5.b Deleting Collateral Agreements

Issue Number: 58069

An error message was displayed if a Collateral Agreement was deleted. The error did not affect the deletion.

Files affected: SphCollateral.dll

1.5.c Partial Return Fees

Issue Number: 57624

RISQUE behaved unpredictably if the following occurred:

1 The **Fees Partial Return** drop-down list on the **Fees and Interest** tab of the **Collateral Agreement** window was set to a value other than **None**.

2 A partial return was performed on any repo contract type.

Files affected: SphCollateralGUI.dll

1.5.d Partial Return Setting

Issue Number: 58477

RISQUE behaved unpredictably if a partial return was performed after changing and saving the Partial Return settings in the following tabs of the **Collateral Agreement Settings** window:

- **Fees and Interest**
- **Principal Stock**

Files affected: SphCollateral.dll

1.6 Commodities

1.6.a Rolling Period in Commodity Index Delta Analysis

Issue Number: 57200

The delta value displayed in the **Commodity Index Delta Analysis** window for the first future in an excess return or total return index was incorrect just after a rolling period. This issue occurred if the index was booked during the rolling period.

Files affected: SphCommodities.dll

1.6.b Fixing Price of LME Futures

Issue Number: 57308

The fixing price of the underlying LME commodity of an LME future in a commodity index was used instead of the fixing price of the future if the calculation date of the index was set to a date in the past.

Note As of this release, the fixing price of the underlying commodity is only used if no fixing price is defined for an LME future.

Files affected: SphCommodities.dll

1.6.c Portfolios Values Affected by the Commodity Index Delta Analysis

Issue Number: 58608

The values displayed in the **Portfolio** window for a deal on a GSCI excess return or total return index were incorrect if the **Commodity Index Delta Analysis** was performed on the portfolio.

Files affected: SphCommodities.dll

1.6.d Rolling Futures in Commodity Index Delta Analysis

Issue Number: 58025

The delta values of rolling futures were not displayed correctly in the **Commodity Index Delta Analysis** if the analysis was performed on a date that was not during the rolling period.

Files affected: SphCommodities.dll

1.7 Database

1.7.a Duplicate Queries

Issue Number: 58506

The following SQL queries were included twice in the **`SphPortfolio.sql`** script:

- `ALTER TABLE opcvmforreporting DROP CONSTRAINT opcvmforreporting`
- `DROP INDEX opcvmforreporting`

Files affected: SphPortfolio.sql

1.8 End of Year

1.8.a LME Future Maturity-Date Before End of Year Procedure

Issue Number: 55681

The End of Year procedure incorrectly included closed LME future positions and generated a **Coupon reversal** ticket if the maturity date of the future was before the start date of the End of Year procedure.

Files affected: SphPortfolio.dll

1.8.b LME Future Maturity-Date After End of Year Procedure

Issue Number: 55683

The End of Year procedure incorrectly generated a second **P&L Sold** ticket for closed LME future positions if the maturity date of the future was after the start date of the End of Year procedure.

Files affected: SphPortfolio.dll

1.8.c LME Futures with Different Currency

Issue Number: 55687

The End of Year procedure incorrectly generated the following tickets for open LME future positions if the future was in a different currency than the underlying LME:

- Two **P&L Sold** tickets.
- **Financing reversal** ticket.
- **Balance** ticket.

As of this release, the End of Year procedure generates the following tickets for open LME future positions:

- **Balance** ticket.
- **Coupon reversal** ticket.

Files affected: SphPortfolio.dll

1.8.d Financing Reversal Tickets

Issue Number: 57900

Financing reversal tickets were not taken into account in the **Balance** portfolio after the End of Year procedure was run.

Files affected: SphPortfolio.dll

1.8.e End of Year Detailed Cash Balance

Issue Number: 37519

The cash flows were incorrect for positions in the **Detailed Cash Balance** window if the End of Year procedure was run and the following conditions were true:

- The trade date of the deal was before the End of Year date.
- The settlement date of the deal was after the End of Year date.

Files affected: SphPortfolio.dll

1.8.f Balance in the Detailed Cash Balance Report

Issue Number: 56881

The values in the **Balance** column of the **Detailed Cash Balance** report were incorrect for all dates after the End of Year date if the End of Year procedure was run.

This occurred if the `FORCELOAD` column of the `HISTOMVTS` table was set to 1 during the End of Year procedure. If the `FORCELOAD` column was set to 1, deals were loaded in the **Portfolio** window, but not loaded in the **Detailed Cash Balance** report. This caused the values in the **Balance** column to be incorrect.

Files affected: SphPortfolio.dll

1.9 Funds

1.9.a Historic Correlations

Issue Number: 58063

An internal error occurred if the **Extraction** list of the **Historic correlations** window was updated for a portfolio that contained positions on funds. This only occurred if the `FilterHistoCorrelUnderlyings` global preference was set to 1.

Files affected: SphFundBase.dll

1.10 Instruments

1.10.a Total Return Swap Decrease Nominal

Issue Number: 57654

An error occurred for total return swap (TRS) positions if the following conditions were true:

- The model of the TRS instrument was set to **Nominal Increase**.
- A decrease nominal deal was created by right-clicking the TRS position in the **Portfolio** window and clicking the **Decrease Nominal** command on the context menu.
- The decrease nominal deal was modified.

Files affected: SphPortfolioGUI.dll

1.10.b Basket Adjustment

Issue Number: 55327

An automatic ticket was not generated for the interest rate coupon for a basket adjustment of a basket swap if the following conditions were true:

- The frequency of both legs was final.
- The fixing frequency of the underlying interest rate was daily.
- The basket adjustment was performed before the reset date.

Files affected: SphFinance.dll

1.11 Portfolios

1.11.a FX Deals Window

Issue Number: 56429

The following issues occurred in the **FX Deals** window:

- The value selected in the **Calculation Type** drop-down list was not saved if a value other than **Absolute Forward Add Point** was selected.
- It was possible to select the **Non Deliverable Forward** value from the **Deal Type** drop-down list if no date was entered in the **Forward Date** text box.

Files affected: SphPortfolioGUI.dll

1.11.b Parametric VaR

Issue Number: 57984

The values used for historic volatilities and correlations in the parametric VaR analysis for futures were incorrectly quoted as 100 minus the last price. This only occurred if the `OldFutureHistoVol` global preference was set to 0.

Note These values were correct for interest-rate futures and DI futures.

Files affected: Sophis.dll

1.11.c Dynamic P&L Freeze

Issue Number: 51289

The calendar defined by the `dynamicPnlFreeze.calendar` parameter in the **`risk.ini`** file was not used by the dynamic P&L freeze.

Files affected: SphPortfolio.dll

1.12 Pricing

1.12.a Total Return Swap with Arbitrage

Issue Number: 53075

The arbitrage parity and proportion were not taken into account for total return swap (TRS) pricing if the following conditions were true:

- The underlying basket of the TRS contained an equity with an arbitrage rule.
- The **Underlying Type** check box in the **Arbitrage** window of the arbitrage rule was selected.

Files affected: SphFinance.dll, SphBasicDataGUI.dll

Chapter 2 Enhancements in 5.3.6.4

This chapter describes the enhancements made in RISQUE 5.3.6.4. These enhancements were made in the following areas:

- *Collateral Management on page 375*
- *Commodities on page 375*
- *Documentation on page 377*
- *Instruments on page 377*

2.1 Collateral Management

2.1.a Stock Loan Contracts Start Date

Issue Number: 55054

In previous releases, stock loan contracts sharing the same position link ID but with a start date greater than the current date were not loaded into the **Stock Loan and Repo contract management** window.

As of this release, all contracts sharing the same position link ID are loaded, regardless of the start date.

Files affected: SphCollateral.dll, SphCollateralGUI.dll

2.2 Commodities

2.2.a Intraday Roll of Excess Return and Total Return Indexes

Issue Number: 57740

It is now possible to base the composition of excess return and total return indexes on the weights of the following day if a fixing price is defined for both the index and the GSCI spot. This is the default behaviour.

A new window, **Commodity Index Roll**, displays all excess return and total return indexes with their defined prices and specifies which composition is used.

Figure 2-1 shows the **Commodity Index Roll** window:

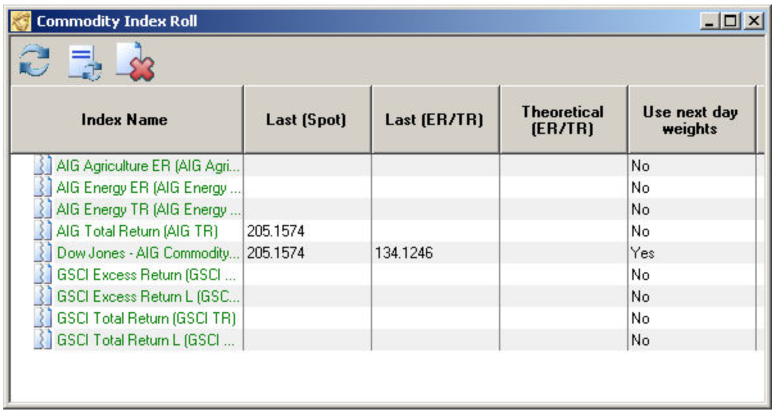


Figure 2-1 Commodity Index Roll window

Note A new global preference, `DISABLE_CommoIndex_IntradayRoll`, enables you to disable the rolling of the composition of indexes to the following day. This preference has the following settings:

- `0` — the rolling of the composition of indexes to the following day is possible. This is the default value.
- `1` — the rolling of the composition of indexes to the following day is not possible.

Book Affected: Instrument Reference Guide, Administration Guide

Files affected: SphCommodities.dll

2.2.b Booking Excess Return or Total Return Indexes on a Bank Holiday

Issue Number: 57742

It is now possible to create deals on commodity excess return or total return index derivatives on a bank holiday.

Files affected: SphCommodities.dll, SphCommoditiesGUI.dll

2.3 Documentation

2.3.a Table Header for Account Entity Properties

Issue Number: 53487

The table headers in the description of the account entity properties window were updated.

Book Affected: Back Office User Guide

2.3.b Repo/Maturity Scenario

Issue Number: 48909

The description of the Repo/Maturity Scenario has been updated.

Book Affected: Portfolio Management Guide

2.3.c OldFutureHistoVol

Issue Number: 58597

The description of the `OldFutureHistoVol` global preference has been updated.

Book Affected: Administration Guide

2.4 Instruments

2.4.a Value Date for Basket Swaps

Issue Number: 56681

The following enhancements have been made to the **Basket Creation** dialog box:

- A new check box, **Edit Value Date**, has been added. Selecting this check box displays the new **Value Date** text box.
- A new text box, **Value Date**, has been added. This text box enables you to modify the value date of the underlying basket. By default, this is set to the start date of the first floating cash flow of the swap.

Book Affected: Instrument Reference Guide

Files affected: SphBasicDataGui.dll, SphFinance.dll

Chapter 3 Server Changes in 5.3.6.4

This chapter describes the changes made to the RISQUE API that affect the Sophis servers. These changes were made for the following servers:

- Back Office Services
  - *Corrected Bugs in Back Office Services on page 380*
- Data Service
  - *Corrected Bugs in Data Service on page 380*
- Transaction Service
  - *Enhancements in Transaction Service on page 380*

3.1 Upgraded Servers

The following servers were upgraded in this release:

- Back Office Services
- Core Services
- Integration Service
- Integration Service - Websphere
- Transaction Server

3.2 Corrected Bugs in Back Office Services

3.2.a Reconciliation Report Processing

Issue Number: 46012

The XML file used by the reconciliation process, **`sophis_external_clearer_valid.xml`**, was not processed correctly and the import failed. A message was logged stating that the file was technically valid but lacked a specific combination of fields required by the BOWS server.

As of this release, a message is logged regarding the success or failure of the import.

Files affected: BOWSServerClient.dll

3.3 Corrected Bugs in Data Service

3.3.a Volatility Curve Update

Issue Number: 46410

All user-defined volatility curves were deleted if the Data Service updated the Result volatility curve. As of this release, by default, no curves are deleted and the Data Service updates the Result volatility curve only.

To use the previous behaviour and delete all user-defined curves during each update, add the following to the Core Services **`Global.ini`** configuration file:

```
[DATASERVICE]
ClearExistingVolatilityCurves = 1
```

Files affected: SphBasicDataGUI.dll, Sophis.dll

3.4 Enhancements in Transaction Service

3.4.a Deal Mirroring

Issue Number: 52906

Mirror rules are now applied to deals created by the Market Adapter.

Files affected: Sophis.dll

Chapter 4 Toolkit Changes in 5.3.6.4

This chapter describes the toolkit changes in RISQUE 5.3.6.4. These changes were made in the following areas:

- *Corrected Bugs on page 381*
- *Additions and Alterations on page 382*

Important You do not need to recompile your Toolkit projects against the new API.

4.1 Corrected Bugs

4.1.a CSRTransferTrade

Issue Number: 49081

The following Oracle error message was displayed if toolkit projects called the method `CSMTransferTrade.LaunchAutomaticTicket(CSMTransactionVector vector)`:

```
Table or View does not exist.
```

This occurred because the method attempted to access the `AUTO_MVT` table instead of the `MVT_AUTO` table.

Files affected: SphPortfolioGUI.dll, SphPortfolio.dll

4.2 Additions and Alterations

Changes were made in the following namespaces:

- *static_data on page 382*

4.2.a static_data

SphMarket.h

The following has been added to `virtual long GetDividendSettlementDate(long record_date, eDistributionRightType distributionType) const;` in this release:

- `double GetQuotationUnitFactor() const;`

SphMarketEnums.h

The following has been added to `enum eQuotationUnitType` in this release:

- `quThousandth`

Part 6: RISQUE 5.3.6.5

SOPHIS

Released: 01 April, 2010

This part contains the following:

▷The corrections in this version

▷The enhancements in this version

▷The toolkit changes in this version

Chapter 1 Corrected Bugs in 5.3.6.5

This chapter describes the bugs fixed in RISQUE 5.3.6.5. These fixes were made in the following areas:

1.1 Accounting

1.1.a Empty P&L Engine Rules

Issue Number: 60535

A warning was written to the log file if an empty P&L engine rule was processed for an entity defined with a stop rule enabled. This affected the performance of the P&L engine.

As of this release, this warning is not generated if an empty P&L engine rule is processed.

Files affected: SphAccounting.dll

1.2 Back Office

1.2.a Sorting Time

Issue Number: 58485

Sorting performance was slow in the **Main** tab of the **Securities Report** window if all the columns were displayed. As of this release, the performance has been improved.

Files affected: SphCollateral.dll, SphCollateralGUI.dll

1.2.b Number of Settlement Instructions

Issue Number: 61204

Using the FOUREYES module, the number of settlement instructions displayed in the third parties dialog box was limited to 100. As of this release, there is no limit on the number of settlement instructions displayed.

This affects the following tabs of the third parties dialog box:

- Settlement Instructions
- Document Generation

Files affected: SphBOKernel.dll

1.2.c Revaluation Amount Type

Issue Number: 58966

The **Revaluation** amount type of account P&L rules used the current mark P&L rule if the Prices Date was set to a day in the past.

As of this release, you can define parameters that determine the date used by the accounting engines for the following:

- Mark P&L rules
- Market Categories
- Pricer Categories

If the date is defined for one of these, the rule or category defined on the specified date is used by the accounting engines.

These parameters are defined as follows in the `[PARAMETERS]` section of the **`risk.ini`** file:

```
[PARAMETERS]
MarkPnLRuleSetDate = dd/mm/yyyy
InstrumentCategoryDate = dd/mm/yyyy
MarketCategoryDate = dd/mm/yyyy
```

These parameters set the date as follows:

- `MarkPnLRuleSetDate` — defines the date for mark P&L rules.
- `MarketCategoryDate` — defines the date for market categories.
- `InstrumentCategoryDate` — defines the date for pricer categories.

Book Affected: Installation Guide

Files affected: SphRiskTools.dll, SphAPI.dll

1.2.d Internal Error in Personal Blotter

Issue Number: 61974

An internal error was generated in the Personal Blotter if the following conditions were true:

- An attempt was made to send more than one instruction.
- The security workflow event type was set to External
- Auto Send was set to Yes.

Files affected: SphBO_CASH_GUI.dll

1.3 Collateral Management

1.3.a Threshold and Margin Calls

Issue Number: 58943

The threshold values affected the sign of the proposed margin call value and were not correctly taken into account by the global risk calculations.

Files affected: SphCollateralGUI.dll, SphCollateral.dll, SphCollateralGUI.txt

1.3.b Collateral Limit Explanation Type

Issue Number: 61413

The **Type** label of the **Collateral Limit Explanation** window displayed the value defined in the **Stock Loan and Repo Mgmt Date Type** drop-down list instead of the **Limits Calculation Date Type** drop-down list of the **Stock Loan** tab on the **Preferences** dialog.

Files affected: SphCollateralGUI.dll

1.3.c Global Margin Calls

Issue Number: 58604

The global margin call was not performed on the last entry of the selected line in the **Security Loan and Repo Mgmt** window. It was performed for all other entries in the selected line.

Files affected: SphCollateralGUI.dll

1.3.d Collateral Depositary Update

Issue Number: 57684

If the collateral instrument was changed in the **Stock Loan Input** dialog the following drop-down lists of the **Collateral Back Office** frame were not updated to reflect the change:

- **Depositary**
- **Depositary of Counterparty**
- **SM/DT**
- **Payment Method**

This issue occurred for security vs security per contract deals.

Files affected: SphPortfolioGUI.dll

1.3.e Sorting in the Securities Report

Issue Number: 58494

Sorting was not saved in the **Securities Report** window if the following occurred:

1. The information was sorted by clicking column headers in the window.
2. The view was changed in the **View** drop-down list.

Files affected: SphCollateral.dll, SphCollateralGUI.dll

1.3.f Partial Return Tab Order

Issue Number: 30078

The tab order of the Partial Return window was incorrect. The cursor remained on the **Collateralised Spot** text box if Tab or Shift+Tab was pressed.

Files affected: SphCollateralGUI.dll

1.3.g Deleting Securities Report Filters

Issue Number: 58441

The following database error occurred if an attempt was made to delete a filter from the **SQL Filter Edit** window:

```
ORACLE returned error code #911 while executing SQL request named
"CSRContainerDealList::Read".
```

The **SQL Filter Edit** window is launched from the **Securities Report** window.

Files affected: SphCollateralGUI.dll

1.3.h Stock Loan Expiry Tickets

Issue Number: 58678

Stock loan expiry tickets were generated after a maturity modification was performed, regardless of whether the **Generate Ticket** check box in the **Maturity Modification** window was selected. This occurred if the maturity modification was performed from the **Stock Loan and Repo contract management** window.

Files affected: SphCollateral.dll, SphCollateralGUI.dll

1.3.i Real Settlement Date

Issue Number: 57180

The **Securities Report** displayed all deals with settlement instructions if the type was set to **Real Settlement Date** in the **Securities Report Parameters** dialog box. As of this release, only deals with the settlement method set to **N/A** or **XXX** are displayed in the **Securities Report**.

Files affected: SphCollateral.dll

1.3.j Fees Partial Return

Issue Number: 57641

The **Coupon** business event was incorrectly applied to automatic tickets generated for fees partial returns for stock loans. This occurred for stock loans defined with the **Fees Partial Return** drop-down list set to **commission/interest** on the **Fees and Billing** tab of the **Collateral Agreement** window.

As of this release, these tickets are generated with the **Commission** business event.

Files affected: SphCollateralGUI.dll

1.3.k Counterparty Name Missing from Modify Contract Window

Issue Number: 57299

The counterparty name was missing from the **Counterparty/Entity** text box in the **Modify Contract** window for stock loans. The text box displayed the entity name twice, as opposed to both the counterparty name and the entity name.

Files affected: SphCollateralGUI.dll

1.3.l Global Margin Call Total Line

Issue Number: 58562

The values in the **TOTAL** line of the **Security vs Cash Global Cash Margin Call** window were incorrect if the setting of the **Use Rounded Margin Call** check box was changed.

Files affected: SphCollateralGUI.dll

1.3.m CFD Third Parties in Stock Loan Template Selector

Issue Number: 46525

Third parties specific to CFD agreements were displayed in the **Stock Loan Template Selector** if the Advanced CFD module was enabled.

Files affected: SphCollateral.dll

1.3.n Short Positions in the Securities Report

Issue Number: 58733

Short positions were not displayed in the Securities Report window if the following conditions were true:

- The **Filter** drop-down list was set to short.
- The root portfolio of the position was not short.

Files affected: SphCollateral.dll, SphCollateralGUI.dll

1.3.o Copy from Spot Schedule

Issue Number: 57552

It was not possible to copy the spot schedule from the **Fee Mark for Collateral Agreement** window.

Files affected: SphCollateralGUI.dll

1.3.p Relative Dates in the Securities Report

Issue Number: 57506, 57504

Relative dates entered in the following locations were not generated correctly:

- In the **Securities Report Parameters** dialog box.
- The **Source Data** tab of the **Report Template** window of the Reporting Module for a **Securities Report** source.

Files affected: SphCollateral.dll, SphCollateralGUI.dll

1.3.q Short Positions in the Securities Report

Issue Number: 58478

The **Securities Report** window was empty if the following were true:

- The **Short** value was selected from the **Filter** drop-down list in the **Securities Report** window.
- A list of entry points was defined for the user.

Files affected: SphCollateral.dll, SphCollateralGUI.dll

1.3.r Securities Report

Issue Number: 58365

As of this release, instruments that are part of a stock loan and have a total quantity of zero are displayed on the **Main** tab of the **Securities Report** window.

Files affected: SphCollateralGUI.dll, SphCollateral.dll

1.3.s Partial Return Quantity

Issue Number: 59617

Data was not displayed in the **Partial Return Quantity** column of the **Security vs Cash Global Cash Margin Call** window.

Files affected: SphCollateralGUI.dll

1.3.t Stock Loan Modifications

Issue Number: 57573

An error was displayed if one of the following modifications were made to stock loan deals:

- **Collateral/Repo Spread Modification**
- **Commission Modification**
- **Maturity Modification**

This occurred if an exception, such as a workflow error exception, occurred for the applicable workflow rule. If an exception occurred, the modification window was closed and the modification was not performed.

As of this release, the applicable modification window remains open and modification can be changed.

Files affected: SphCollateralGUI.dll

1.3.u Stock Loan Deal with Existing Deal

Issue Number: 60968

The back office status of stock loan deals displayed on the **Stock Loan / Repo Input** window was incorrect if the following conditions were true:

1. An attempt deal was made made to book a deal on a stock loan with an operation name that already exists in the database.
2. The **Composition** button was clicked on the **Stock Loan / Repo Input** window, and the **Deals on Baskets** window was displayed.

3 The **Deals on Baskets** window was closed.

Files affected: SphPortfolioGUI.dll

1.3.v Incorrect Options Displayed in Context Menus

Issue Number: 61159

The context menus displayed for the **Portfolio** and **Securities Report** tabs differed if the **User Comments Portfolio** user right in the **FO Portfolio** tab of the user's window was set to **No access**. In the **Portfolio** context menu, the **User Comment** and **External Operation Reference** options were not available, while in the **Securities Report** context menu these options were available.

Files affected: SphCollateralGUI.dll

1.3.w Deals on Stock Loan Templates

Issue Number: 58450

An error message was displayed if the following occurred:

1 A stock loan template was displayed in the **Stock Loan / Repo Input** window.

2 The **Principal Ccy** option button of the template was selected.

3 The deal was accepted.

Files affected: SphPortfolioGUI.dll

1.3.x Forex Between Principal and Billing Values

Issue Number: 54097

The **Forex Between Principal and Billing** values contained in the data copied from the **Daily Commission Explanation** window of a stock loan or repo contract were actually the **End Date** values of the contract

Files affected: SphCollateral.dll

1.3.y No Call in Detailed Limits Report Window

Issue Number: 61532

EXPECT CALL was displayed for the **Call** value on the header of the **Detailed Limits Report** window if the **Net Margin Call** value was zero.

Files affected: SphCollateral.dll

1.3.z Excluded Securities in Stock Loan and Repo Mgmt Window

Issue Number: 58610

Securities in the **Security Pool** folder of the **Stock Loan and Repo Mgmt** window were not displayed in red if the security could not be used as collateral. A security cannot be used as collateral if the **Excluded** column is set to **Yes** on the **Collateral Stocks** tab of the **Collateral Management Parameters** window.

Files affected: SphCollateralGUI.dll

1.3.aa Bond Repo Closing Automatic Ticket for Collateral

Issue Number: 58401

The closing automatic ticket for the collateral position of a bond repo deal was deleted if the following occurred:

1. A forecast was launched for the repo expiry date and automatic tickets were generated for the repo position and the collateral position.
2. The automatic tickets were not transmitted.
3. A forecast was launched again after the expiry date of the bond repo position.

Files affected: SphPortfolio.dll

1.3.ab Deals on Basket Downward Copy

Issue Number: 61503

Downward copy was not performed correctly in the **Deals On Basket** window of a stock loan. The **Deals On Basket** window is displayed by clicking the **Composition** button on the **Stock Loan / Repo Input** window.

Files affected: SphPortfolioGUI.dll

1.3.ac Modify Contract Information

Issue Number: 56707

The **BO Workflow** and **BO Status** informational labels were not present on the Modify Contract dialog box.

Files affected: SphCollateralGUI.dll, SphStockLoanGUI.dll

1.3.ad Spread Modification

Issue Number: 61195

It was not possible to change the spread value of a stock loan to a negative value using the **Modify Contract** or the **Stock Loan and Repo contract management** windows.

Files affected: SphStockLoanGUI.dll

1.3.ae Filtered Agreements in the Collateral Limits Calculation Window

Issue Number: 61136

Some agreements that were not displayed in the **Collateral Management Agreements** window were incorrectly displayed in the **Collateral Limits Calculation** window if agreements were grouped by model on the **Collateral Management Agreements** window. The **Collateral Limits Calculation** window is displayed by clicking the **Limit Calculation on Agreements shown** button on the **Collateral Limits Calculation** window.

Files affected: SphCollateralGUI.dll

1.3.af Stock Loan Maturity Date Modification

Issue Number: 60620

The business event applied to the closing ticket of a stock loan was the event selected from the **Roll Expiry** drop-down list on the **Stock Loan** tab of the **Back Office Parameters** window instead of the event selected from the **Expiry** drop-down list. This issue occurred if the maturity date of the stock loan was modified in one of the following ways:

- The **Maturity Modification** dialog box was displayed from the **Stock Loan and Repo contract management** window and the date in the **Maturity Date** text box was changed.
- A new date was selected from the **New Maturity** drop-down list on the **Modify Contract** window with the **Create Transaction** check box selected.

Files affected: SphCollateral.dll

1.3.ag Stock Loan Start or Trade Date

Issue Number: 59230

It was possible to accept a deal if the **Start Date** value or the **Trade Date** value in the **Stock Loan/Repo Input** window were not defined.

Files affected: SphPortfolioGUI.dll

1.3.ah Generate Ticket Checkbox

Issue Number: 59343

If the Maturity Modification dialog box was reopened, the Generate Ticket checkbox was displayed as selected even if it was not selected for the initial modification. As of this release, if the Maturity Modification ticket is reopened, the Generate Ticket check box is disabled and cleared.

Files affected: SphCollateralGUI.dll

1.3.ai Automatic Mirroring Rule Selection

Issue Number: 57921

In previous releases, the **Mirroring Rule** for the **Stock Loan/Repo Input** window was not updated based on the selections made in the window. As of this release, the **Mirroring Rule** is updated based on the values chosen in **Allotment**, **Currency** and **Market** fields on the **Stock Loan/Repo Input** window.

Files affected: SophisPortfolioGUI.dll

1.3.aj Error for Baskets with Zero Quantities

Issue Number: 58271

A position link error was displayed if a Stock Loan was created using a template with a basket which had one or more quantities equal to zero. As of this release, this error is not displayed.

Files affected: SphPortfolioGUI.dll

1.3.ak Cash Pool Reconciliations

Issue Number: 58431

An Oracle error was displayed if a virtual position was opened from the Cash Pool window. This occurred if the cash pool had more than 1,000 positions linked to it. The query responsible for opening the position has been optimised.

Files affected: SphPortfolio.sql, Sophis.dll

1.3.al Forex Value not Displayed for Different Currencies

Issue Number: 57315

The forex value was not displayed in the **Spot** tab of the **Modify Contract** window. This was when using different currencies for principal and collateral in the **Stock Loan vs Sec Contract** window. This occurred if the commission type was set to **Fixed Price with Revisal Spot** and a deal was accepted.

Files affected: SphCollateralGUI.dll

1.3.am Security Margin Call Ticket Window

Issue Number: 57750

In previous releases, security margin call tickets were opened in the standard **Deal Input** window. As of this release, they are opened in the **Security Margin Call** window. To open the tickets in the standard **Deal Input** window, press the Alt key and double-click on the ticket.

Files affected: SphCollateralGUI.dll

1.3.an Modify Contract Event

Issue Number: 57916

Kernel event buttons were incorrectly displayed on the **Modify Contract** window if a modify contract command was performed on a stock loan deal.

Files affected: SphCollateralGUI.dll

1.4 Commodities

1.4.a Theoretical Value of Commodity Basket MNP

Issue Number: 61209

The theoretical value of commodity baskets defined with the **Commodity Basket MNP** model was incorrect.

Files affected: SphCommodities.dll

1.4.b Commodity Swap Floating Automatic Tickets

Issue Number: 60522

Automatic tickets were incorrectly generated for floating legs of commodity swaps and commodity Asian options.

As of this release, automatic tickets are only generated for floating legs of commodity swaps and Asian options on and after the flow forecast date if the following conditions are true:

- The current date is before the payment date.
- The current date plus the balance days is after the payment date.

Files affected: SphPortfolio.dll

1.5 Database

1.5.a Duplicate Entries in INDENTRICTAUX2

Issue Number: 57407

Duplicate yield curve points were saved in the `INDENTRICTAUX2` table. This caused an inconsistency within the yield curve definition.

As of this release, these duplicate entries are removed by the **`SophisBasicData.sql`** which is run as part of the database upgrade. It removes duplicate yield curve points from the `INDENTRICTAUX2` table and saves them in the `IDENTRICTAUX2_57407_`*`systemdate`* table. This script also adds a unique constraint to the `INDENTRICTAUX2` table.

When this script is run, the first RIC for a point is kept and all other RICs are deleted. After these RICs are deleted, a unique constraint is added to the table to prevent duplicate entries.

Important You must review the contents of the `INDENTRICTAUX2` table before running this script to ensure that the correct RIC points are kept.

Book Affected: Administration Guide

Files affected: SphCollateralGUI.dll

1.6 Documentation

1.6.a -O Command-Line Parameter

Issue Number: 61402

The –O command line parameter has been removed from the table of command-line parameters in the *RISQUE from the Command Line* chapter of the *Administration Guide*. This parameter has been deprecated.

Book Affected: Administration Guide

Files affected: SphCollateralGUI.dll

1.7 End of Year

1.7.a Incorrect Treasury Computation

Issue Number: 58430, 49852

Treasury computation took the trade date into account instead of the payment date if the trade date was later than the payment date. This error only occurred for balance tickets generated from the End of Year procedure.

Files affected: SphPortfolio.dll

1.8 Instruments

1.8.a Depositary for Repos

Issue Number: 57221

The default depositary that was displayed in the **Depositary** drop-down list on the **Stock Loan / Repo Input** window for repos was taken from the last depositary stored in the memory cache. As of this release, the default depositary is specified as **XXX**.

Files affected: SphPortfolioGUI.dll

1.8.b New Monte Carlo Meta Model

Issue Number: 48892

An internal error was displayed if the **Detailed Cash Balance** window was opened for a position on an option that was defined with the New Monte Carlo metamodel.

Files affected: SophisMontecarlo.dll

1.8.c Corporate Action Automatic-Ticket Deletion

Issue Number: 56759

Basket swap automatic tickets were not generated if the following occurred:

1. A forecast was launched and automatic tickets were generated.
2. A merger or demerger corporate action was performed on an instrument that was part of the composition of a basket swap.
3. The corporate action entry was deleted from the **Underlying history** frame of the **Basket Swap** tab.
4. A forecast was launched again.

Files affected: SphListedMarket.dll, SphFinance.dll

1.8.d Stock Loan Commission

Issue Number: 58809

The forex rate from the beginning of the commission period was used for **Fee Mark**, **Fixed Price with Revisable Spot**, and **Set Price** stock loan commissions if the billing currency was different than the currency of the stock loan. This occurred if the cash pool frequency was set to **Plain end of month**.

Files affected: Sophis.dll

1.8.e Currency of Corporate Action Price

Issue Number: 57179

The price of the automatic ticket of a corporate action was incorrectly displayed in the currency of the total return swap if the following conditions were true:

- The currency of the underlying share was different from the currency of the total return swap.
- The **Payment to counterparty** option button was selected in the **Dividend payment rules** frame on the **Advanced** tab of the **Swap** window of the total return swap.

- The **Dividend currency** option button was selected in the **Dividend payment rules** frame on the **Advanced** tab of the **Swap** window of the total return swap.

Files affected: SphFinance.dll

1.8.f Asset-Backed Securities Pool Factors

Issue Number: 59052

The current pool factor was not taken into account for the calculation of the coupons of asset-backed securities.

Files affected: Sophis.dll, SphFinance.dll

1.8.g Dividend Splits for Swaps

Issue Number: 44157

Dividends defined in the **Dividends** window of shares were incorrectly taken into account for the calculation of realised returns.

As of this release dividends defined by corporate actions are used for the calculation of realised returns. Dividends from the dividend table are used for computation of future variance.

This applies to the following swap types:

- Variance swaps
- Volatility swaps
- Correlation swaps

Files affected: SphFinance.dll

1.9 Interface

1.9.a Stock Loan Module Date Fields

Issue Number: 58697

The **Bank Holiday** dialog box is now displayed if you enter a non-working day in any stock loan text box that accepts dates.

Files affected: SphCollateral.dll, SphCollateralGUI.dll, SphStockLoanGUI.dll

1.10 Market Data

1.10.a Breakdown List

Issue Number: 57291

The following issues were fixed for breakdown lists:

- It was possible to add instruments to a breakdown list if the instrument currency was different from the list's currency.
- It was possible to add duplicate instruments to a breakdown list.

As of this release, a message is displayed in both of these instances.

Files affected: SophisBasicDataGUI.dll

1.11 Performance

1.11.a Prices Date

Issue Number: 58606

The performance of RISQUE was effected if the prices date was changed with the **Correlations** check box selected on the **Prices Date** dialog box.

Files affected: SophisBasicData.dll

1.11.b Fast Search Performance

Issue Number: 58528

The performance of **Fast Search** has been improved for users with an entry spot list defined in the **Users** window.

Files affected: SphQueryBuilder.dll, SphRisque.exe

1.12 Portfolios

1.12.a Cash Per Currency Parameters Dialog

Issue Number: 58127

The settings on the **Cash Per Currency Parameters** dialog box were not saved when RISQUE was closed.

Files affected: SophisAssetManagement.dll, SophisAssetManagementGUI.dll, SophisAMTools.dll

1.12.b Mark P&L Rules for Fund Series in Extractions

Issue Number: 59532

Mark P&L rules were not taken into account by fund series positions in extractions. As a result, the **Asset Value** portfolio column was incorrect for these positions.

Files affected: SophisFundBase.dll

1.12.c Cash Flows for Repos in the Detailed Cash Balance Report

Issue Number: 57068

The commission and accrued interest of repo positions were incorrectly displayed after the maturity date of the repo instrument in the **Detailed Cash Balance** report. This occurred only if the frequency of the repo instrument was set to **Final**.

Files affected: SphCollateral.dll

1.12.d Incorrect Sign for Basket Swap Tickets

Issue Number: 57808

The sign was incorrect for counterparty payment tickets for merger and demerger adjustments on shares in basket swap instruments. For example, if the adjustment was a merger that included a payment amount of 100, the amount of the ticket for this payment was generated as -100.

This occurred only if the **Payment to counterparty** radio button was selected in the **Dividend payment rules** frame on the **Advanced** tab of the **Swap** window.

Files affected: SphCollateral.dll

1.12.e Total Return Swap Modification Ticket for Demerger

Issue Number: 56634

Modification tickets were regenerated for total return swap if the following occurred:

1. A demerger corporate action was defined for an underlying share of the basket swap.
2. A forecast was performed that generated a modification automatic ticket.
3. The modification automatic ticket was transmitted for the corporate action on the TRS.
4. An additional forecast was performed.

Files affected: SphListedMarket.dll, SphFinance.dll

1.12.f Total Return Swap Ticket for Split

Issue Number: 56888

The value of the modification automatic ticket generated for a total return swap was not rounded if a split corporate action with rounding defined was performed on the underlying of the swap. The modification ticket for the underlying was correctly rounded.

Files affected: SphFinance.dll

1.12.g Total Return Swap Basket Adjustment Window

Issue Number: 56900

It was not possible to open the **Basket Adjustment** window for a total return swap if a corporate action was defined on the reset date of the swap and the corresponding instrument modification ticket had been already transmitted for the total return swap.

Files affected: SphBasicDataGui.dll

1.12.h Basket Swap Interface

Issue Number: 57298

The **Underlying History** frame of the **Basket Swap** tab on the **Swap** window for total return swaps was not refreshed if the **Refresh** button was clicked and a corporate action modification ticket was transmitted for the total return swap with the **Swap** window was open.

Files affected: SphFinance.dll, SphBasicDataGui.dll

1.12.i Missing Operator for Stock Loans

Issue Number: 57287

No value was displayed in the **Operator** column of the `Movement` window for coupon and commission stock loan tickets if the following conditions were true:

- The billing frequency of the stock loan was set to final.
- A maturity modification was performed on the stock loan using today's date as the maturity date.

Files affected: SphPortfolio.dll

1.12.j Historic Volatility in the Parametric VaR Analysis

Issue Number: 58187

The historic volatility was calculated incorrectly for bonds in the **Parametric VaR** analysis. This occurred if the following were true:

- The bond was quoted as a rate.
- The last price was not defined for the bond.
- A market lag was defined on the bond's market.

Files affected: Sophis.dll

1.12.k Equity Fixing Tickets

Issue Number: 57714

The fixing price was incorrect in equity fixing tickets generated for baskets swaps defined with a reset and a split defined on the same day. If this occurred, the folder on the **Basket Swap** tab for the original corporate action was overwritten by a folder for the reset.

As of this release, a reset folder is added to the **Basket Swap** tab even if both the corporate action and reset were done on the same day.

Files affected: SphFinance.dll

1.12.l Adjusted End Dates for Interest-Rate Swap Blotters

Issue Number: 58124

The end dates of interest-rate swaps were adjusted for swaps created using relative dates in the following blotters:

- **Interest Rate Swap Blotter**
- **Interest Rate Swap** one-deal blotter

- **Tenor Basis Swap Blotter**
- **Tenor Basis Swap** one-deal blotter

This caused a difference between the end date of the swap and the end date used to calibrate the yield curve.

As of this release, the end date of interest-rate swaps created in these blotters is not adjusted.

Files affected: SphPortfolioGUI.dll

1.12.m Net Price for Bond Future Positions

Issue Number: 60793

The value of the **Net Price** column of expiry tickets for bond futures were incorrect in the **Movement** window if the following were true:

- The Prices Date was set to the maturity of the future.
- The contract size of the bond was set to 1.

Files affected: SphPortfolio.dll, SphFinance.dll

1.12.n Forecasts with Large Number of Portfolios

Issue Number: 61867, 54229

An Oracle error occurred and alerts were not generated if an attempt was made to generate a forecast with user alerts enabled for a user with access rights to more than 1000 portfolios. This occurred if user alerts were generated by batch process or in the RISQUE user interface.

Files affected: SphPortfolio.dll

1.12.o Cash Collateral FX Column

Issue Number: 59889

The value in the **Cash Collateral FX** column on the **Stock Loan and Repo Mgmt** window and the **Detailed Limits Report** was incorrect for stock loans if the reporting date was changed in the **Change Report Date** dialog box to a date other than the current date.

Files affected: SphCollateral.dll

1.12.p Calculating Commodity Indexes

Issue Number: 58682

Calculating (F9) was not performed correctly on portfolios that contained a commodity index.

Files affected: SphCommodities.dll

1.12.q Risk Matrix Maturity Analyses with Cox Pricing

Issue Number: 44222

Theta was incorrect for options if the following occurred:

- The analysis was run on options on the maturity date of the option.
- The option was defined with the **Average Cox** or **Simple Cox** pricing models.

Files affected: SphFinance.dll, Sophis.dll

1.12.r Option with Performance Payoff

Issue Number: 51280

The net amount of **Cash Payment** automatic tickets was incorrect for options defined with performance payoff.

Files affected: SphPortfolio.dll

1.12.s Basket-Swap Corporate Action Cancellation Tickets

Issue Number: 57123

Cancellation tickets were incorrectly generated if corporate actions were deleted in the underlying shares of a total return basket swap. This occurred if the corporate action automatic ticket had already been transmitted for the relevant corporate action.

Files affected: SphBasicData.dll

1.12.t Delta Cash and Gamma Cash

Issue Number: 58215

Delta cash and gamma cash values were not displayed in the **Portfolio** window for forex options.

Files affected: Sophis.dll, SphPortfolio.dll

1.13 Pricing

1.13.a Future Variance

Issue Number: 56953

The future variance value of volatility swaps was incorrect on bank holiday dates.

Files affected: SphFinance.dll

1.13.b Interpolated Rate for Basket Swap Broken Flows

Issue Number: 57983

The interpolated rate used to calculate the **Break Funding Fees** dynamic text box in the **Basket Adjustment** window incorrectly used the tenor instead of the broken period.

Files affected: SophisFinance.dll, SophisPortfolio.dll

1.14 XML

1.14.a XML Copy of FX Deal Dialog

Issue Number: 58862

Forex swap deals were created incorrectly if they were created by performing an XML copy and paste into the **Portfolio** window.

Files affected: Sophis.dll, SphPortfolioGUI.dll

Chapter 2 Enhancements in 5.3.6.5

This chapter describes the enhancements made in RISQUE 5.3.6.5. These enhancements were made in the following areas:

2.1 Back Office

2.1.a Group By Custodian

Issue Number: 58369

It is now possible to group securities positions by the NOSTRO2 custodian in the **Securities Projections** report.

Files affected: SphBackofficeCash.dll, Sph_BO_Cash_GUI.dll, BOWSServerClient.dll

2.1.b Group By Clearer

Issue Number: 58368

The **Clearer** group-by criteria has been renamed **Depositary** in the **Securities Projections** report.

Files affected: SphBackofficeCash.dll

2.2 Coherency

2.2.a Coherency Channel Disconnection

Issue Number: 59114

As of this release, users are notified if the coherency channel connection is lost.

A new parameter, `forceCloseOnDisconnection`, has been added to the `[SECConnection]` section of the **`Risk.ini`** file. This setting enables the user to specify how RISQUE behaves if the coherency connection is lost.

This parameter has the following settings:

- `true` — if coherency is lost, the RISQUE status bar turns red, the following message is displayed, and the user is prompted to quit RISQUE.

  ```
  Coherency connection lost
  ```

- `false` — if coherency is lost, the RISQUE status bar turns red, the following message is displayed, and the user is prompted to quit RISQUE or to continue without coherency:

  ```
  Coherency connection lost
  ```

  If the user chooses to continue and the coherency channel connection is re-established, the RISQUE status bar message is displayed in orange and the following message is displayed:

  ```
  Risque needs to be restarted to keep data consistent
  ```

Files affected: SphRiskTools.dll, SphRisque.exe, SphRiskEn.dll

2.3 Collateral Management

2.3.a Security Margin Call Value Date

Issue Number: 57611

A new global preference is added in this release, `IgnoreSecMarginCallMarketConvention`. This preference has the following values:

- `0` — the security margin call uses the market convention for the value date. This is the default value.
- `1` — the security margin call uses the trade date as the value date.

Files affected: SphCollateralGUI.dll

2.3.b Editing the Spot Value for Margin Calls

Issue Number: 58304

In previous releases, if the **Mark Spot** checkbox on the **Margin Call** tab of the **Collateral Agreement** window was cleared, it was not possible to edit the spot value for margin calls. As of this release, it is possible to edit the spot value and calculate the margin call even if the **Mark Spot** check box is cleared.

Files affected: SphCollateralGUI.dll

2.3.c Hourglass Indicator for Securities Report

Issue Number: 58481

As of this release, an hourglass is displayed if the view is changed in the **Main** tab of the **Securities Report** window.

Files affected: SphCollateralGUI.dll

2.3.d Modify Contract in Securities Report

Issue Number: 58469

As of this release, the **Modify Contract** command is available in the context menu for positions on the **Explanation** tab of the **Securities Report** window.

Book Affected: Collateral Management Guide

Files affected: SphCollateralGUI.dll

2.3.e Securities Report Projections Shortcut

Issue Number: 50807

As of this release, the **Projections** tab for a position can be opened by pressing the plus key on the numeric keypad.

Files affected: SophisInterface.dll, SphRiskTools.dll, SphCollateralGUI.dll

2.3.f Reference Column for the Securities Report

Issue Number: 59217

As of this release, the **Reference** column has been added to the **Main** tab of the **Securities Report**. The column displays the security reference.

Book Affected: Collateral Management Guide

Files affected: SphCollateral.dll

2.3.g Stock Loan Portfolio Extraction Criteria

Issue Number: 61102

It is now possible to select the following criteria from the **Criterion** drop-down list on the **Extraction Criteria** dialog box if the Advanced Stock Loan module is enabled:

- **Maturity (Stock Loan and Repo) –** specifies that positions are grouped in the extraction by the stock loan maturity date.
- **Expiry date (Stock Loan and Repo) –** specifies that positions are grouped in the extraction by the stock loan expiry date.

Book Affected: Portfolio Management Guide

Files affected: SphCollateral.dll

2.3.h Securities Report

Issue Number: 58365

As of this release, instruments with a quantity of zero are displayed in the **Securities Report** window.

Files affected: SophisBasicDataGUI.dll

2.3.i Notional in the Securities Report

Issue Number: 57000

As of this release, the number of decimals in the **Notional** column of the **Securities Report** window is determined by the value defined in the **Price** text box on the **Display** tab of the **Preferences** window.

Files affected: SphCollateral.dll, SphCollateralGUI.dll

2.3.j Securities Projection

Issue Number: 56828

The following changes have been made to the **Securities Projections** window:

- The **Theo** column has been renamed **Theoretical Quantity**.
- The **Explanation1** and **Explanation2** windows have been renamed **Detailed Explanation**. The instrument and date range is also displayed in the window title.

Files affected: SphBO_Cash_GUI.dll

2.3.k Collateral Limit Calculation Report

Issue Number: 57043

The date for which the **Collateral Limit Calculation** report is generated is now displayed in the report header. This date is defined by the value chosen from the **Limits Calculation Date Type** drop-down list on the **Stock loan** tab of the **Preferences** window.

Files affected: SphCollateralGUI.dll

2.3.l Detailed Limits Report

Issue Number: 59162, 59158

The following changes were made to the **Detailed Limits** report:

- The **Securities Collateral Nominal** column has been renamed **Nominal**.
- The **Maturity** column now displays the maturity of the underlying, if it is applicable.

Files affected: SphCollateralGUI.dll

2.3.m New Contract Type

Issue Number: 57951

A new contract type, **Cash vs Dedicated Security Pool** is added in this release. This enables the creation of repos with securities which are locked into the contract. That is, the securities are not available as collateral to any other Stock Loan or Repo instruments.

To create a Cash vs Dedicated Security Pool, do the following:

1. Create a repo and define the **Collateral Type** as **Stocks** and the **Contract Type** as **Dedicated Pool**.
2. Define the remaining fields as required and accept the deal.
3. Open the **Stock Loan and Repo Management** window.
4. Add the securities to the repo using the Securities Margin Call. Each security added to the dedicated pool is nested beneath the repo in the **Stock Loan and Repo Management** window.

   It is also possible to substitute collateral using the **Collateral Substitution** dialog box.

2.3.n Automatic Spot Price Update for Fee Mark

Issue Number: 57279

A new check box, **Automatic feeding of Fee Mark**, has been added to the **Margin Call** tab of the **Collateral Agreement** window. Selecting this check box updates **New Fee Mark** column of the **Fee Mark** window for the spot schedule and the collateral agreement with the spot price of the margin call.

Book Affected: Collateral Management Guide

Files affected: SphCollateralGUI.dll, SphCollateral.dll, SphCollateral.sql

2.3.o New Fees Columns

Issue Number: 57400

The following columns have been added to the **Stock Loan and Repo Management** window:

- **Minimum Commission Fees** — displays the amount defined in the **Minimum** text box for the relevant stock loan or repo deal.
- **Sum of commissions Paid** — displays the total amount of fees already paid.

Book Affected: Collateral Management Guide

Files affected: SphCollateral.dll, SphCollateralGUI.dll, Sophis.dll, SphPortfolioGUI.dll

2.4 Log Files

2.4.a Expiry Date of Future Predates EOY

Issue Number: 60393

The following message is now only logged if the verbosity is set to debug:

```
Expiry date of future predates EOY
```

Files affected: SphPortfolio.dll

2.5 Instruments

2.5.a OldEqSwapCashFlow Global Preference

Issue Number: 60358

The global preference `OldEqSwapCashFlow` has been reactivated.

This preference has the following settings:

- 0 — dividends that are scheduled after the ex-div date are included in the theoretical price of equity swaps. This is the default.
- 1— dividends that are scheduled after the ex-div date are not included in the theoretical price of equity swaps.

Note This preference is only applied if the calculation date is between the ex-div date and the dividend payment date.

Files affected: SphFinance.dll

2.5.b Basket Swap Deal Upfront Fees

Issue Number: 58380

The following changes have been made on the **Basket Swap Booking** window:

- The **Upfront Fees** text box is now set to 0 by default. Prior to this release, this text box displayed the theoretical price of the swap. This field is only used if a fee is charged for the swap.
- A new dynamic field, **Theoretical Upfront Fees**, has been added. This field displays the theoretical price of the swap, taking the spread specified in the **Basket Swap Booking** window into account. This field has a value only if the **Valuation Type** drop-down list of the **Swap Parameters** tab of the **Swaps** window is set to **In present value**.

Note If the **See Preferences** value is selected from the **Valuation Type** drop-down list on the **Swap Parameters** tab of the **Swaps** window, the value in the **Theoretical Upfront Fees** field is dependent on the setting in the preference **Lending & Borrowing Rediscount** in the **Profit and Loss** tab of the **Preferences** dialog.

Book Affected: Instrument Reference Guide

Files affected: SphPortfolioGUI.dll

2.5.c Decimal Places Of Hedge Booking Price

Issue Number: 57629

The number of decimal places of the value displayed in the **Price** column on the **Hedge Booking** window of a basket swap is now defined by the **Price** text box on the **Display** tab of the **Preferences** dialog box.

Files affected: SphPortfolioGUI.dll

2.5.d Div % Column of Basket Adjustment Swap

Issue Number: 58867

As of this release, the decimal precision of the **Div %** column on the **Basket Adjustment Swap** window can be defined. The global preference `BasketSwapSpreadAccuracy` has been added to the `RISKPREF` database table to define the minimum number of decimals displayed in this column.

Any decimal amount that has less precision than the defined amount is rounded up to the amount. For example, if the preference is set to 3 and 1.27 is entered in the **Div %** column, this amount displayed is 1.270. Any amount entered in the **Div %** column with three or more decimals is not rounded.

The maximum decimals allowed in the column is 10. The default setting is 2.

Files affected: SphBasicDataGui.dll

2.6 Performance

2.6.a Auxiliary Ledger

Issue Number: 58587

An index has been added to the database table `ACCOUNT_POSTING` to improve the performance of the auxiliary ledger.

Files affected: SophisAccounting.sql

2.6.b Loading Last Prices

Issue Number: 58046

It is now possible to disable history loading optimisation. To disable this database optimisation, execute the following SQL command:

```
exec LAST_SPOTS_PKG.modify_history('STOP', 'table_name')
```

If this optimisation is disabled, prices are not loaded from the `GLAS`*`table_name`* table.

Book Affected: Installation Guide

Files affected: optimize_history_startup.sql

2.6.c P&L Engine Analyses

Issue Number: 57993

The performance of the P&L engine analyses has been improved.

Files affected: SphAccounting.dll

2.7 Portfolios

2.7.a Multiple Positions on Basket Swaps

Issue Number: 58510

The global preference `TRS_Single_Trade` has been added to the RISKPREF database table to define whether TRS deals can be booked on different positions with different spreads. This specifies that the last or theoretical price saved in the database is used for the calculation of P&L.

In previous releases, the P&L calculation always calculated the theoretical price instead of using the price stored in the database. This calculation is not necessary for single positions on a total return basket swap. However, if you book multiple positions on a single TRS, the theoretical must be calculated separately for each position.

This preference also effects Prices Date behaviour. The preference **Result in Theoretical Value** in the **Profit and Loss** tab of the **Preferences** dialog box defines which saved value is used for total return swaps. If this check box is selected, the saved theoretical price is used, if it is cleared, the saved last price is used.

In addition, this preference effects the **Realized Reversal** automatic ticket generated by the End of Year procedure for positions on basket total return swaps. If this preference is set to 1, the End of Year procedure uses the stored values for the calculation of the **Realized Reversal** automatic ticket.

The preference `TRS_Single_Trade` has the following settings:

- 1 — if you limit the booking of total return swaps to one position for each swap, you can set this preference to 1 to specify that the End of Year procedure and Prices Date uses the last price or theoretical values saved in the database. The price of the TRS will be the last price or the theoretical stored in the database for the TRS instrument. The value is dependent on the preference **Result in Theoretical Value** in the **Profit and Loss** tab of the **Preferences** dialog box.

- 0 — if you wish to allow more than one position for total return basket swaps, set this preference to 0. Each position on a total return swap is calculated individually. If you use this setting, you cannot use Prices Date functionality for basket swap theoretical prices. The Prices Date uses the last stored price for P&L calculations. The **Result in Theoretical Value** check box on the **Profit and Loss** tab of the **Preferences** window must be selected to enable this behaviour.

Book Affected: Administration Guide

Files affected: SphPortfolio.dll

2.8 Reporting Module

2.8.a Global Collateral Limit Report Source

Issue Number: 54160

As of this release, the **Global Collateral Limit** report source has been added to the Reporting Module.

Book Affected: Reporting Module User Guide

Files affected: SphCollateral.dll, SphCollateralGUI.dll

2.8.b Stock Loan and Repo

Issue Number: 57089

The following items have been added to the **Date Type** drop-down list in the **Source Data** frame in the **Report Template** window for the **Stock Loan and Repo** and **Stock Loan and Repo Contract** sources:

- **Value Date** — takes deals into account based on the value date.
- **Real Settlement Date** — takes deals into account based on the date from the received instruction.

The following items have been removed:

- **Use Provisional Date**
- **Use Real Settlement Date**
- **Use Settle Date Stock Loan Only**

Book Affected: Reporting Module User Guide

Files affected: SophisBasicDataGUI.dll

Chapter 3 Server Changes in 5.3.6.5

This chapter describes the changes made to the RISQUE API that affect the Sophis servers. These changes were made for the following servers:

- Calculation Server
  - *Corrected Bugs in Calculation Server on page 419*
- Integration Service
  - *Corrected Bugs in Integration Service on page 420*
- Memory Cache Server
  - *Corrected Bugs in Memory Cache Server on page 420*

3.1 Upgraded Servers

The following servers were upgraded in this release:

- Core Services
- Integration Service with Websphere
- Instrument Service
- Back Office Services

3.2 Corrected Bugs in Calculation Server

3.2.a Yield Curves Used in the End of Day Procedure

Issue Number: 61545, 54759

The yield curve defined by the preferences for the Calculation Server was used to calculate the End of Day procedure instead of the curve defined by the End of Day preferences.

As of this release, the yield curve of the End of Day procedure is always used by the Calculation Server to calculate the End of Day procedure.

Files affected: MultisiteEODService.dll

3.3 Corrected Bugs in Integration Service

3.3.a Calculating Broker Fees

Issue Number: 61372

Fees were not calculated for trades imported by the Integration Service even though the trade had a correctly configured broker.

Files affected: Sophis.dll

3.4 Corrected Bugs in Memory Cache Server

3.4.a Consolidations

Issue Number: 55875

The portfolio header of consolidations was not cached by Memory Cache Server.

Note Coherency events for changes to consolidations are not processed by the Memory Cache Server. If you add or delete a consolidation, you must restart the Memory Cache Server.

Files affected: SphPortfolio.dll

3.4.b Securities Report

Issue Number: 54727

The **Securities Report** report is now updated automatically if the Memory Cache Server is connected to RISQUE.

Files affected: SphCollateral.dll, SphCollateralGUI.dll

Chapter 4 Toolkit Changes in 5.3.6.5

This chapter describes the toolkit changes in RISQUE 5.3.6.5. These changes were made in the following areas:

- *Corrected Bugs on page 421*
- *Enhancements on page 422*
- *Additions and Alterations on page 423*

Important You do not need to recompile your Toolkit projects against the new API.

4.1 Corrected Bugs

4.1.a CSRThirdPartyCode

Issue Number: 56617

Text boxes in toolkit projects that implement the `CSRThirdPartyCode` class incorrectly displayed a drop-down list with the elements of the `CSRInstrumentCode` class. This occurred only if `CSRInstrumentCode` was implemented by the same window.

Files affected: Sophis.dll

4.1.b CreateStockLoanContractName with Basket Composition

Issue Number: 60837

The names of instruments in the **Deals on Baskets Composition** window were not updated if the names of the stock loan underlying instrument was changed by a toolkit project that used the `CreateStockLoanContractName` class.

Files affected: SphPortfolioGUI.dll

4.1.c Toolkit Method for Stock Loan / Repo Input

Issue Number: 57979

The following error occurred if `CSRLoanAndRepoDialog::UpdateThirdMenus()` was used to refresh the depositary in the **Stock Loan / Repo Input** window:

```
Internal Error on Item Cmde
```

Files affected: SphPortfolioGUI.dll

4.1.d CSRPositionExtOpRefCache::GetInstance

Issue Number: 59105

It was not possible to modify the names of stock loan basket components with toolkit projects using the `CSRPositionExtOpRefCache::GetInstance` method.

Files affected: SphPortfolioGUI.dll, SphBOKernel.dll, SphPositionExtOpRefCache.h

4.2 Enhancements

4.2.a Stock Loan-specific Classes

Issue Number: 57627

As of this release, new classes have been added which set the depositary to a value other than the default as the Stock Loan-specific windows are opened. The following are the classes and the windows which call them:

- `CSRSpecificTransDlgPartialReturn` — **Partial Return**.
- `CSRSecuritiesMarginCallGui (IDD_SECURITIES_MARGINCALL)` — **Securities Margin Call**.

- `CSRSecuritiesCollateralSubstitutionGUI (IDD_COLLATERAL_SUBSTITUTION)` — **Collateral Substitution**.
- `CSRSecCollatSubstPoolGUI (IDD_COLLATERAL_SUBSTITUTION_POOL)` — **Collateral Substitution Pool.**

Files affected: SphPortfolioGUI.dll, SphCollateralGUI.dll, SphPaymentMthdGUI.h

4.2.b Stock Loan and Repo Trades in XML

Issue Number: 55770

It is now possible to set the depositary of Stock Loan and Repo XML trades using the toolkit.

Files affected: Sophis.dll, SphCollateral.dll, SphCollateralGUI.dll

4.3 Additions and Alterations

Changes were made in the following namespaces:

- *backoffice_cash on page 423*
- *backoffice_kernel on page 424*
- *collateral on page 424*
- *instrument on page 425*
- *portfolio on page 426*

4.3.a backoffice_cash

CSSPDataEngineBase.h

The following were added in this release:

- `memset(fCustodian, 0, 41);`
- `har    fCustodian[INSTR_STR_LEN];`
- `typedef _STL::map<long, MapStringMapLongToIndex_t >`

SphSPGenericCriteria.h

The following were added in this release:

- `class SOPHIS_BO_CASH IDStorage`
- `class SOPHIS_BO_CASH CSRSPCustodian : public CSRSPCriteria`

SphSPReportResultHier.h

The following was added in this release:

- `virtual _STL::string GetCustodian() const;`

4.3.b backoffice_kernel

SphPositionExtOpRefCache.h

The following was added in this release:

- `void SetExtOpRef(long posIdent, const char *extOpRef, sophis::tools::CSREventVector & messages, bool overloadIfExisting = true);`

4.3.c collateral

SphCollateralEnums.h

The following was added in this release:

- `cmTypeSecPoolCashContract,`

SphCollateralEnvironment.h

The following was added in this release:

- `gui::CSRCustomMenu* new_ConventionMenu`

SphGlobalMarginCallDialog.h

The following was added in this release:

- `virtual double GetNetAmountTotal(long lineNumber){return 0.0;}`
- `virtual void SetNetAmountTotal(long lineNumber, long value){}`

SphLBAgreement.h

The following was added in this release:

- `bool IsAutomaticFeeding() const;`
- `void SetAutomaticFeeding(const bool val);`

SphLbaType.h

The following was added in this release:

- `eCashVsSecPoolContract,`

SphLimitResult.h

The following was added in this release:

- `double GetNetMarginCallInRefCcy() const;`

SphSecuritiesReport.h

The following was added in this release:

- `const CSRSecuritiesReportResultHier* SortResult(const CSRSecuritiesReportCriteriaKey& criteriaKey, long sicovam, int field, bool reverse) const;`

SphSecuritiesReportResult.h

The following was added in this release:

- `bool IsLowerField(const CSRSecuritiesReportResult& result1, const CSRSecuritiesReportResult& result2, int fieldId, bool reverse) const;`
- `_STL::string GetReference() const;`
- `void SortField(int fieldId, bool reverse = false);`
- `class SOPHIS_COLLATERAL CompareField`

SphStockLoanResult.h

The following was added in this release:

- `double GetTotalCommissionPaid() const;`
- `double GetNetMarginCallInRefCcy() const;`

4.3.d instrument

SphLoanAQndRepo.h

The following was added in this release:

- `slpDedicatedPool`

4.3.e portfolio

The following were added in this release:

- SphPaymentMthdGUI.h
- SphPaymentMthdGUIOverloader.h

Part 7: RISQUE 5.3.6.6

Released: 16 April, 2010

This part contains the following:

▷The corrections in this version

▷The enhancements in this version

▷The toolkit changes in this version

Chapter 1 Corrected Bugs in 5.3.6.6

This chapter describes the bugs fixed in RISQUE 5.3.6.6. These fixes were made in the following areas:

- *Back Office on page 429*
- *Database on page 431*
- *Documentation on page 431*
- *Portfolios on page 432*
- *XML on page 437*

1.1 Back Office

1.1.a Generated Posting Error

Issue Number: 60235

A HOLD account posting with an error was generated if the following occurred:

1. A new deal was created that generated instructions with account postings.
2. The new deal was dragged-and-dropped from its initial portfolio to another portfolio.
3. The initial portfolio was deleted.
4. The instruction was settled.

As a result, the HOLD account settlement posting was displayed in the **Account Posting** window with the following error:

```
Error: No Accounting Book defined
```

Files affected: SphBO_CASH_GUI.dll

1.1.b Generation Time for Securities Projections

Issue Number: 57373

The generation time in the **Generation time** dynamic field of the **Securities Projections** window was incorrect. The generation time reflected the time to build the view of the report instead of the time required to retrieve the data.

Files affected: SophisBasicData.dll, SphBackOfficeCash.dll

1.1.c Incorrect Settled Quantity

Issue Number: 58421

The settled quantity in the **Settled** column of the **Explanation 1** window was incorrect if the settlement instruction effective date was outside the date range specified in the **Securities Projection** report.

Files affected: SphBackOfficeCash.dll, SphBO_Cash_GUI.dll

1.1.d Detailed Instruction Explanations

Issue Number: 61860

It was not possible to view an instruction in the **Details of instruction** window if the instruction did not have a corresponding NOSTRO account number.

Files affected: SphBO_Cash_GUI.dll

1.1.e Securities Report Explanation Closing Balance

Issue Number: 61861

The **Closing balance** values in the **Explanation 2** window were incorrect if a corresponding instruction had been cancelled and then regenerated. As of this release, instructions with a cancelled status are excluded from the explanation.

Files affected: SphBO_Cash_GUI.dll

1.2 Database

1.2.a optimize_history_startup.sql Error

Issue Number: 61726

The following error occurred if the **`optimize_history_startup.sql`** script was executed:

```
COMMENT ON TABLE last_spots_dates  IS 'Defines the loading dates
properties for
optimized last loading at startup';
*
ERROR at line 16:
ORA-06550: line 16, column 1:
PLS-00103: Encountered the symbol "COMMENT"
```

Files affected: optimize_history_startup.sql

1.3 Documentation

1.3.a Group By Information for Securities Projections

Issue Number: 62008

The criteria by which information in the **Securities Projections** window could be grouped was missing from the description of the **Group By** button in the *Securities Projections* chapter in the *RISQUE Back Office User Guide*.

Book Affected: Back Office User Guide

1.3.b Future and Forward Correlation Factor

Issue Number: 55838

The **Future/Forward correlation factor** text box was missing from the description of the currency window in the *Currencies* chapter of the *RISQUE Administration Guide*.

Book Affected: Administration Guide

1.3.c LastReportingDate

Issue Number: 59026

The description of the `LastReportingDate` global preference of the `RISKPREF` database table was incorrect in the *Global Preferences* chapter of the *RISQUE Administration Guide*.

Book Affected: Administration Guide

1.3.d IR Hedge (Delta Swap) Analysis

Issue Number: 55027, 55032

The following parameters were missing from the description of the **Interest Rate Hedge** dialog box for the **IR Hedge (Delta Swap)** analysis:

- **Detailed Results**
- **Result in Analysis Currency**
- **Ignore Swap Und. Fixing**

The **Interest Rate Hedge** dialog box is described in the *Running IR Delta Swap analysis* section of the *IR Delta Analysis* chapter of the *RISQUE Portfolio Management Guide*.

Book Affected: Portfolio Management Guide

1.4 Portfolios

1.4.a TryNoToLoadInstrument Preference and Repo Deals

Issue Number: 57556

The database query to load a repo was incorrectly executed if the following conditions were true:

- The `TryNoToLoadInstrument` global preference was set to `1`.
- Another user on the same coherency channel created a deal on the repo.
- The repo was not loaded for either user.
- The deal was created in a portfolio that was in the entry spot list of both users.

Note As of this release, the `TryNoToLoadInstrument` global preference has been removed and a `TryNoToLoadInstrument` parameter has been added to the **`risk.ini`** file. For more information, see *TryNoToLoadInstrument Set in Risk.ini on page 439*.

Files affected: Sophis.dll, SphCollateral.dll, SphRiskTools.dll

1.4.b TryNoToLoadInstrument Preference and Commodity Swap Deals

Issue Number: 57415

The database query to load a commodity swap was incorrectly executed if the following conditions were true:

- The `TryNoToLoadInstrument` global preference was set to `1`.
- Another user on the same coherency channel created a deal on the commodity swap.
- The commodity swap was not loaded for either user.
- The deal was created in a portfolio that was in the entry spot list of both users.

Note As of this release, the `TryNoToLoadInstrument` global preference has been removed and a `TryNoToLoadInstrument` parameter has been added to the **`risk.ini`** file. For more information, see *TryNoToLoadInstrument Set in Risk.ini on page 439*.

Files affected: Sophis.dll, SphAPI.dll

1.4.c TryNoToLoadInstrument Preference and Commodity Basket Deals

Issue Number: 57559

The database query to load a commodity basket was incorrectly executed if the following conditions were true:

- The `TryNoToLoadInstrument` global preference was set to `1`.
- Another user on the same coherency channel created a deal on the commodity basket.
- The commodity basket was not loaded for either user.
- The deal was created in a portfolio that was in the entry spot list of both users.

Note As of this release, the `TryNoToLoadInstrument` global preference has been removed and a `TryNoToLoadInstrument` parameter has been added to the **`risk.ini`** file. For more information, see *TryNoToLoadInstrument Set in Risk.ini on page 439*.

Files affected: Sophis.dll, SphAPI.dll

1.4.d TryNoToLoadInstrument Preference and Commodity Index Deals

Issue Number: 57560

The database query to load a commodity index was incorrectly executed if the following conditions were true:

- The `TryNoToLoadInstrument` global preference was set to `1`.
- Another user on the same coherency channel created a deal on the commodity index.

- The commodity index was not loaded for either user.
- The deal was created in a portfolio that was in the entry spot list of both users.

Note As of this release, the `TryNoToLoadInstrument` global preference has been removed and a `TryNoToLoadInstrument` parameter has been added to the **risk.ini** file. For more information, see *TryNoToLoadInstrument Set in Risk.ini on page 439*.

Files affected: Sophis.dll, SphAPI.dll

1.4.e TryNoToLoadInstrument Preference and Stock Loan Deals

Issue Number: 57268

The database query to load a stock loan was incorrectly executed if the following conditions were true:

- The `TryNoToLoadInstrument` global preference was set to `1`.
- Another user on the same coherency channel created a deal on the stock loan.
- The stock loan was not loaded for either user.
- The deal was created in a portfolio that was in the entry spot list of both users.

Note As of this release, the `TryNoToLoadInstrument` global preference has been removed and a `TryNoToLoadInstrument` parameter has been added to the **risk.ini** file. For more information, see *TryNoToLoadInstrument Set in Risk.ini on page 439*.

Files affected: Sophis.dll, SphCollateral.dll, SphRiskTools.dll

1.4.f TryNoToLoadInstrument Preference and Commodity Deals

Issue Number: 57558

The database query to load a commodity was incorrectly executed if the following conditions were true:

- The `TryNoToLoadInstrument` global preference was set to `1`.
- Another user on the same coherency channel created a deal on the commodity.
- The commodity was not loaded for either user.
- The deal was created in a portfolio that was in the entry spot list of both users.

Note As of this release, the `TryNoToLoadInstrument` global preference has been removed and a `TryNoToLoadInstrument` parameter has been added to the **risk.ini** file. For more information, see *TryNoToLoadInstrument Set in Risk.ini on page 439*.

Files affected: Sophis.dll, SphAPI.dll

1.4.g TryNoToLoadInstrument Preference and CFD Deals

Issue Number: 57437

The database query to load a CFD was incorrectly executed if the following conditions were true:

- The `TryNoToLoadInstrument` global preference was set to `1`.
- Another user on the same coherency channel created a deal on the CFD.
- The CFD was not loaded for either user.
- The deal was created in a portfolio that was in the entry spot list of both users.

Note As of this release, the `TryNoToLoadInstrument` global preference has been removed and a `TryNoToLoadInstrument` parameter has been added to the **risk.ini** file. For more information, see *TryNoToLoadInstrument Set in Risk.ini on page 439*.

Files affected: Sophis.dll, SphAPI.dll

1.4.h TryNoToLoadInstrument Preference and Standard Option Deals

Issue Number: 61945

The database query to load a standard option was incorrectly executed if the following conditions were true:

- The `TryNoToLoadInstrument` global preference was set to `1`.
- Another user on the same coherency channel created a deal on the standard option.
- The standard option was not loaded for either user.
- The deal was created in a portfolio that was in the entry spot list of both users.

Note As of this release, the `TryNoToLoadInstrument` global preference has been removed and a `TryNoToLoadInstrument` parameter has been added to the **risk.ini** file. For more information, see *TryNoToLoadInstrument Set in Risk.ini on page 439*.

Files affected: Sophis.dll, SphAPI.dll

1.4.i TryNoToLoadInstrument Preference and Interest Rate Swap Deals

Issue Number: 61966

The database query to load an interest rate swap was incorrectly executed if the following conditions were true:

- The `TryNoToLoadInstrument` global preference was set to `1`.
- Another user on the same coherency channel created a deal on the interest rate swap.
- The interest rate swap was not loaded for either user.
- The deal was created in a portfolio that was in the entry spot list of both users.

Note As of this release, the `TryNoToLoadInstrument` global preference has been removed and a `TryNoToLoadInstrument` parameter has been added to the **`risk.ini`** file. For more information, see *TryNoToLoadInstrument Set in Risk.ini on page 439*.

Files affected: Sophis.dll, SphAPI.dll

1.4.j Incorrect Sign for SF Realized Dividend

Issue Number: 58282

The sign in the **SF Realized Dividend** column of the **Portfolio** window was incorrect for stock loan positions if the stock loan dividend payment was redistributed.

Files affected: SphCollateral.dll

1.4.k SF Accrued Total Interest Rate Column

Issue Number: 58276

The **SF Accrued Total Interest Rate** column of the **Portfolio** window was not calculated for debt instruments.

Files affected: SphCollateral.dll, Sophis.dll

1.4.l SF Realized Total Interest Rate Column

Issue Number: 58278

The **SF Realized Total Interest Rate** column of the **Portfolio** window was not calculated for debt instruments.

Files affected: SphCollateral.dll

1.4.m Listed Option Quotas in Portfolio Analysis

Issue Number: 62021

The following analyses did not take the listed market quotity into account:

- **FXVolMatrix/Maturity**
- **Vega Maturity/Spot**
- **VolMatrix in Delta/Maturity**

Files affected: SphPortfolio.dll

1.4.n Forex in the Unrealized Fx Column of the Portfolio WIndow

Issue Number: 60958

The **Unrealized Fx** column of the **Portfolio** window did not take changes in the forex into account if the following occurred:

- Dynamic P&L was enabled.
- An alternate currency was enabled.
- Historical prices existed for the alternate currencies.

Files affected: SphPortfolio.dll

1.5 XML

1.5.a XML Copy of Forex Swap

Issue Number: 58662

Third parties were not defined for the forward leg of forex deals created by performing an XML copy and paste of a forex swap.

Files affected: Sophis.dll

Chapter 2 Enhancements in 5.3.6.6

This chapter describes the enhancements made in RISQUE 5.3.6.6. These enhancements were made in the following areas:

- *Documentation Errata on page 439*
- *Back Office on page 440*
- *Configuration on page 441*
- *Documentation on page 442*
- *Portfolios on page 443*

2.1 Documentation Errata

The enhancements described in this section were delivered with RISQUE 5.3.6.5 but were not documented. The files affected listed in this section may not be delivered with this release but were all delivered with RISQUE 5.3.6.5.

2.1.a TryNoToLoadInstrument Set in Risk.ini

Issue Number: 58189

The `TryNoToLoadInstrument` global preference has been removed from the `RISKPREF` database table. As of this release, to prevent new positions from being loaded in portfolios if multiple instances of RISQUE are connected to a coherency channel, set the `TryNoToLoadInstrument` parameter in the `API` section of the **`risk.ini`** file to `true`.

Book Affected: Installation Guide

Files affected: Sophis.dll, Sophis.sql

2.1.b TryNoToLoadInstrument Positions in the Portfolio Window

Issue Number: 58210

Positions are now displayed in italics in the **Portfolio** window if the underlying instrument is not loaded when the `TryNoToLoadInstrument` parameter is set to true in the **`risk.ini`** file.

Book Affected: Installation Guide

Files affected: SphPortfolio.dll

2.2 Back Office

2.2.a Depositary of the Counterparty for Kernel Workflow

Issue Number: 51093

The **Depositary of Counterparty** column has been added to the **Kernel Workflow Selector** window.

Book Affected: Back Office User Guide

Files affected: Sophis.dll, SphBOKernel.dll, SphBOKernel.sql, SphBOKernelGUI.dll

2.2.b Depositary of the Counterparty for Securities Workflow

Issue Number: 51095

The **Depositary of Counterparty** column has been added to the **Securities Workflow Selector** window.

Book Affected: Back Office User Guide

Files affected: SphBackOfficeCash.dll, SphBO_Cash_GUI.dll

2.2.c Period Type on the Securities Projections Filter

Issue Number: 46249

The **Period Type** dynamic field has been removed from the **Securities Projections** filter window.

Book Affected: Back Office User Guide

Files affected: RiskEn.dll, SphBO_Cash_GUI.dll

2.2.d Multiple Securities Projection Instances

Issue Number: 57047

It is now possible to open more than one instance of the **Securities Projection** window if the criteria specified in the **Criterion** and **Criterion Details** lists on the **Securities Projections** filter window differs from those defined in the first instance.

Files affected: SphBackOfficeCash.dll, SphBO_Cash_GUI.dll

2.2.e Securities Projections Ignore Past Option

Issue Number: 61863

The **Ignore Past** check box in the **Securities Projections** filter window has been removed. To ignore instructions prior to a specified date in the **Securities Projections** report, the **SP Begin Date** text box has been added to the **CFD** tab of the **Back Office Parameters** window. All instructions prior to the date specified in this text box are ignored by the **Securities Projections** report.

Book Affected: Back Office User Guide

Files affected: SphBO_Cash_GUI.dll, RiskEn.dll, SphBOKernelGUI.dll, SphBOKernel.dll, SphBOKernel.sql

2.3 Configuration

2.3.a Local Backup License with License Server

Issue Number: 54135

A locally stored backup license file can now be specified in the **risk.ini** file. This provides protection against interruptions occurring if the connection to the LM-X license server is lost.

The parameter `backupPath` in the `[Licensing]` section of the **risk.ini** file is used to specify the backup license, as follows:

```
[Licensing]
serverPath = server1%6200
backupPath = LocalBackup.lic
```

Where `server1%6200` is the license server name and `LocalBackup.lic` is the local backup license file.

If the local backup license file is stored in a directory other than the directory containing the **SophisRisque.exe** file, specify the file path in the parameter definition, as follows:

```
[Licensing]
serverPath = server1%6200
backupPath = D:\sophis_v5.3.6.0\Risque5366\Licenses\LocalBackup.lic
```

Book Affected: Installation Guide, LM-X Installation Guide

Files affected: SphAPI.dll, RiskResources.txt, LMInterface.dll, LMXWrapper.dll, Risk.ini

2.4 Documentation

2.4.a Breakdown Instruments

Issue Number: 55838

Asset-backed security bonds have been added to the list of valid instruments in breakdown lists.

Book Affected: Administration Guide

2.4.b Interest Rate Swap One Deal Blotter

Issue Number: 56205

The following note has been added to the *Interest Rate Swap* section of the *One Deal Blotters* chapter of the *Portfolio Management Guide*:

Important It is not possible to create an interest-rate swap on a currency if the rate type is set to **Monetary** for the long rate of the currency’s default yield curve.

Book Affected: Portfolio Management Guide

2.5 Portfolios

2.5.a Depositary of the Counterparty

Issue Number: 51094

The **Depositary of Counterparty** column has been added to the **Mirror Rules Selector** window.

Book Affected: Portfolio Management Guide

Files affected: SphPortfolioGUI.dll, SphPortfolio.dll, SphPortfolio.sql, SphPortfolioGUI.txt

2.5.b Dividend Posting for SF Realized Dividend

Issue Number: 58780

In previous releases, only the redistributed dividend ticket was taken into account in the **SF Realized Dividend** column of the **Portfolio** window for stock loan positions. As of this release, both the dividend ticket and the redistributed dividend ticket are taken into account, even if counterparty for the dividend payment is different from the trade counterparty.

Note The dividend ticket amount is not taken into account in the **SF Realized Dividend** column for extractions by counterparty.

Files affected: SphCollateral.dll

Chapter 3 Server Changes in 5.3.6.6

This chapter describes the changes made to the RISQUE API that affect the Sophis servers. These changes were made for the following servers:

- Calculation Server
    - *Enhancements in Calculation Server on page 445*
- Integration Service
    - *Corrected Bugs in Integration Service on page 446*
- LM-X Server
    - *Corrected Bugs in LM-X Server on page 446*
    - *Enhancements in LM-X Server on page 447*

3.1 Upgraded Servers

The following servers were upgraded in this release:

- Core Services
- Integration Service

3.2 Enhancements in Calculation Server

3.2.a Theoretical Value

Issue Number: 62016

As of this release, details of theoretical value calculations performed by the Calculation Server are written to the RISQUE and Calculation Server log files.

These details are logged in the following format:

```
[timestamp] : CSRInstrument::GetCalculationData() : Theoretical value for
instrument instrument_reference theoretical_value
```

For example, the following details are written to the log file for an instrument with a reference code of 67200426:

```
[01/01/20-09:45:30:990] : CSRInstrument::GetCalculationData() :
Theoretical value for instrument 67200426 150.45638
```

These details appear in the log files if the log level is set to `verbose`.

Files affected: Sophis.dll

3.3 Corrected Bugs in Integration Service

3.3.a Calculating Broker Fees

Issue Number: 61372

Fees were not calculated for trades imported by the Integration Service even though the trade had a correctly configured broker.

Files affected: Sophis.dll

3.4 Corrected Bugs in LM-X Server

3.4.a Client Connection to License Server

Issue Number: 61846

RISQUE closed unexpectedly if the connection to the LM-X license server was lost.

As of this release, a warning message is displayed if the connection to the license server is interrupted.

Files affected: LMInterface.dll

3.5 Enhancements in LM-X Server

3.5.a Local Backup License Parameter with License Server

Issue Number: 54135

A locally stored backup license file can now be specified for any client or server that uses a license. This provides protection against interruptions occurring if the connection to the LM-X license server is lost.

The parameter `backupPath` in the `[Licensing]` section of the configuration file is used to specify the backup license, as follows:

```
[Licensing]
serverPath = server1%6200
backupPath = LocalBackup.lic
```

Where `server1%6200` is the license server name and **`LocalBackup.lic`** is the local backup license file.

If the local backup license file is stored in a directory other than the directory containing the **`SophisRisque.exe`** file, specify the file path in the parameter definition, as follows:

```
[Licensing]
serverPath = server1%6200
backupPath = D:\sophis_v5.3.6.0\Risque5366\Licenses\LocalBackup.lic
```

Book Affected: Installation Guide, LM-X Installation Guide

Files affected: SphAPI.dll, RiskResources.txt, LMInterface.dll, LMXWrapper.dll

Chapter 4 Toolkit Changes in 5.3.6.6

This chapter describes the toolkit changes in RISQUE 5.3.6.6. These changes were made in the following areas:

- *Additions and Alterations on page 449*

Important You do not need to recompile your Toolkit projects against the new API.

4.1 Additions and Alterations

Changes were made in the following namespaces:

- *backoffice_cash on page 449*

4.1.a backoffice_cash

CSSCPSettings.h

The following were added:

- `void SetCpty(const _STL::vector<long>& cpty);`
- `void SetEnty(const _STL::vector<long>& enty);`
- `void SetDepo(const _STL::vector<long>& depo);`
- `long GetIgnoreDateBefore() const{return fIgnoreDate;}`
- `void SetIgnoreDateBefore(long date){fIgnoreDate = date;}`
- `_STL::vector<long> fCptyFilter;`
- `_STL::vector<long> fEntityFilter;`
- `_STL::vector<long> fDepoFilter;`
- `long fIgnoreDate;`

Part 8: RISQUE 5.3.6.7

SOPHIS

Released: 08 June, 2010

This part contains the following:

▷The corrections in this version

▷The enhancements in this version

▷The toolkit changes in this version

Chapter 1 Corrected Bugs in 5.3.6.7

This chapter describes the bugs fixed in RISQUE 5.3.6.7. These fixes were made in the following areas:

1.1 Accounting

1.1.a Accounting Book Portfolios Inheritance

Issue Number: 53135

The error message **No Accounting Book defined** was displayed by the Trade Engine because deals did not inherit accounting rules. This occurred if the entry spot of a user was a child portfolio of the portfolio on which the accounting rule was defined.

Files affected: SphAccounting.dll

1.2 Back Office

1.2.a Moved Validated Positions

Issue Number: 62088

A position was incorrectly saved in its original portfolio if the following occurred:

1. The **Portfolio** window and a back office blotter window were both displayed.
2. The real-time link was de-activated in the blotter window.
3. A deal was created in the **Portfolio** window.
4. The **Update Data** button on the blotter window toolbar was clicked.

   The new deal was displayed in the blotter window.
5. The new position was moved to a different portfolio by dragging-and-dropping it in the **Portfolio** window.
6. The deal was validated in the blotter window.

Files affected: SphBOKernelGUI.dll

1.3 Collateral Management

1.3.a Dividends of a Stock Loan on a Share

Issue Number: 58952

Dividends that occurred between the trade date and the start date of a stock loan on a share were incorrectly taken into account if the start date of the stock loan was a date in the future.

As of this release, only dividends that occur between the start date and the end date of the stock loan are taken into account.

Files affected: SphCollateral.dll

1.4 Commodities

1.4.a Theta of Asian Options

Issue Number: 62193

The theta value of a commodity asian option with several cash flows was incorrect on the day before the payment date of a cash flow if the **Include Coupon** check box was selected on the **Theta** tab of the **Preferences** dialog box.

Files affected: SphCommodities.dll

1.5 Documentation

1.5.a autoShift and autoShiftSize

Issue Number: 62823

The descriptions of the `autoShift` and `autoShiftSize` parameters of the **`risk.ini`** file were incorrect in the *Configuration* chapter of the *RISQUE Installation Guide*.

Book Affected: Installation Guide

1.6 Instruments

1.6.a Basket Swap Adjustment Coupon

Issue Number: 63095

The following issues occurred for basket swap adjustments booked with the same value date as the date that the basket was created:

- The value of the IR coupon generated by forecasts was incorrect.
- The **IR Coupon** value displayed on the **Basket Swap** and **Swap Explanation** tabs on the **Swap** window was incorrect.

Files affected: SphFinance.dll

1.6.b Delta of Multicurrency Basket Options

Issue Number: 62287

No delta values were calculated for the basket components on the expiry date of an option on a multicurrency basket if the option used the Cliquet model.

Files affected: SphFinance.dll

1.7 Portfolios

1.7.a Result Variation Yield Curve Point Activated or De-activated

Issue Number: 57864

The **Day effect** and **Rate effect** columns on the **Result Delta** window did not display zero if the following occurred:

1. A point on a yield curve was disabled.
2. A deal was created on an instrument that used the yield curve.
3. The End of Day process was launched on the portfolio containing the new position.
4. Result Variation was launched immediately after the End of Day process.

Files affected: SophisBasicData.dll

1.7.b Multiple Currencies in Fast P&L Calculations

Issue Number: 62682, 62240

The P&L was calculated incorrectly in fast P&L calculations for interest-rate swaps. This occurred because the rho sensitivity was calculated in the currency of the paying leg of the swap.

This issue also occurred for vega sensitivities on instruments with two currencies. In this case, the vega was calculated in the currency of the underlying.

Files affected: Sphportfolio.dll

1.7.c Values for Positions in the Consolidation Portfolio View

Issue Number: 63393

The values displayed for positions in the following columns in the consolidation portfolio view were incorrect:

- **Underlying contract size**.
- **Convexity**.
- **Global Convexity**.
- **Gamma** and all columns based on **Gamma**.
- **Delta** and all columns based on **Delta**.
- **Rho** and all columns based on **Rho**.
- **Delta P&L**.
- **Global Delta P&L**.
- **Beta**.
- **Theta** and all columns based on **Theta**.

Note The values for positions in the **Global Delta** and **Global curr. global** columns were also not displayed in the colour defined for the currency of the underlying. This issue occurred in the underlying and consolidation portfolio views.

Files affected: SphPortfolio.dll, SphPortfolioGUI.dll

1.7.d Greeks of Expired Equity Options

Issue Number: 61994

The Greek values of expired equity options were not calculated correct if the option was priced with a model other than B&S. As of this release, all calculations are performed using the B&S model on and after the expiry date of the option.

Files affected: SphFinance.dll

1.7.e Result Variation Day Effect and Rate Effect

Issue Number: 61978

In certain circumstances, values in the **Day effect** and **Rate effect** columns on the **Result Delta** window incorrectly took rate curves that were equal to zero into account.

Files affected: Sophis.dll, SphPortfolio.dll, SphPortfolioGUI.dll

1.7.f Instrument Definition Effect and Day Effect

Issue Number: 61961

The following issues occurred for the **Instr. definition effect** and **Day Effect** columns of the **Result Delta** window:

- The value of the **Instr. definition effect** was incorrect. This occurred because the number of securities was taken into account to calculate this effect. As of this release, the **Instr. definition effect** column displays the change in the asset value of the share before and after modifying the share.
- The **Day Effect** columns took the value of the **Instr. definition effect** column into account.

Files affected: Sophis.dll, SphPortfolio.dll

1.7.g Theta for Bonds

Issue Number: 63655

The theta was incorrect for bonds in the **Portfolio** window if the `OLD_CREDIT_WAY_FOR_BOND` global preference was set to 1. As of this release, this setting of `OLD_CREDIT_WAY_FOR_BOND` has been deprecated.

Files affected: Sophis.dll

Chapter 2 Enhancements in 5.3.6.7

This chapter describes the enhancements made in RISQUE 5.3.6.7. These enhancements were made in the following areas:

- *Back Office on page 459*
- *Collateral Management on page 460*

2.1 Back Office

2.1.a P&L Engine

Issue Number: 62012

The performance of the P&L engine has been improved. In previous releases, the cache for the account postings criteria was not enabled because it did not support toolkit columns defined for the **Account Names** window.

Files affected: SphBOKernel.dll, SphAccounting.dll

2.2 Collateral Management

2.2.a Cash Transaction SM/DT and Payment Method

Issue Number: 63000

The following changes have been made for the settlement method/delivery type and payment method values for all cash margin calls and commission and interest remuneration automatic tickets for stock Loan and repo transactions:

- The SM/DT is set to **NA/NA**.
- The payment method of cash transactions is now the first matching settlement instruction of the counterparty with **Workflow** and **Delivery Type** set to **N/A** and **Account Type** set to **Cash** or **Both** on the third party window. If no matching settlement instruction is found, the payment method is set to **XXX**.

Files affected: SphCollateral.dll

Chapter 3 Server Changes in 5.3.6.7

This chapter describes the changes made to the RISQUE API that affect the Sophis servers. These changes were made for the following servers:

- Back Office Services
  - *Corrected Bugs in the Back Office Services on page 461*
- Integration Service
  - *Corrected Bugs in the Integration Service on page 462*

3.1 Upgraded Servers

The following servers were upgraded in this release:

- Back Office Services
- Core Services
- Instrument Service
- Integration Service for Websphere
- Risk Management Module

3.2 Corrected Bugs in the Back Office Services

3.2.a Oracle Error with BOWS

Issue Number: 61836

An Oracle error was generated if more than 250 instructions were sent to the BOWS simultaneously.

Files affected: BOWSServerClient.dll, SmlServerClient.dll, SphInxNetting.dll, SphBackOfficeCash.dll, SphBO_CASH_GUI.dll

3.3 Corrected Bugs in the Integration Service

3.3.a Setting Net Amount to Zero

Issue Number: 37581

It was not possible to set the net amount of a trade to zero using the Integration Service. The default value was used instead.

Files affected: Sophis.dll

Chapter 4 Toolkit Changes in 5.3.6.7

This chapter describes the toolkit changes in RISQUE 5.3.6.7. These changes were made in the following areas:

- *Corrected Bugs on page 463*

Important You do not need to recompile your Toolkit projects against the new API.

4.1 Corrected Bugs

4.1.a CSRPosition:GetTransaction

Issue Number: 58399

The `CSRPosition:GetTransaction` method did not return the list of movements for a position.

Files affected: SphAccounting.dll

4.1.b CSMEvent on 64-bit Platforms

Issue Number: 63577

It was not possible to use the method `CSMEvent.Add(int32 tag, int64 aLongLong)` on 64-bit platforms.

As of this release, a new method, `sophis.compatibility64.CSMEventTools.Add`, enables you to manage events with 64-bit parameters on 64-bit platforms.

Files affected: SphDotNetToolkit.dll

Part 9: RISQUE 5.3.6.8

SOPHIS

Released: 11 June, 2010

This part contains the following:

▷The corrections in this version

▷The enhancements in this version

▷The changes to the RISQUE API that affect the Sophis servers

▷The toolkit changes in this version

Chapter 1 Corrected Bugs in 5.3.6.8

This chapter describes the bugs fixed in RISQUE 5.3.6.8. These fixes were made in the following areas:

1.1 Accounting

1.1.a Trade Postings Without Currency

Issue Number: 55599

Postings were displayed without a currency in the **Account Postings** window if the trades were processed with the Integration Service.

Files affected: Sophis.dll

1.1.b Amortisation Selector Priority

Issue Number: 58862

The priority of rules in the **Amortisation Selector** window was ignored. Amortisation rules were applied to positions in the order in which the rules were created and not the priority defined in the **Amortisation Selector** window.

Files affected: SphPortfolio.dll

1.2 Instruments

1.2.a Deleting Ratings

Issue Number: 60842

It was not possible to delete ratings from shares.

Files affected: SphBasicDataGui.dll

1.3 Portfolios

1.3.a Lookthrough Extraction on Forex Forwards

Issue Number: 63137

The P&L values of a lookthrough extraction on a portfolio containing a position on a forex forward was incorrect if the following occurred:

- The **Result without Financing** check box was selected on the **Profit and loss** tab on the **Preferences** dialog box.
- One of the following values was selected from the **Accounting Lag** drop-down list on the **Profit and loss** tab on the **Preferences** dialog box:
  - **FILE**
  - **MFD**
  - **FD**

Files affected: SphPortfolio.dll

1.3.b End of Day Date

Issue Number: 65786

The date on which the End of Day procedure was last performed was incorrect in the **Result Delta** window.

Files affected: Sophis.dll

1.4 Pricing

1.4.a Bonds with Static Spread

Issue Number: 65700

The price was incorrect for bonds with a spread value defined for the **Static Spread** spread type.

Files affected: Sophis.dll

Chapter 2 Enhancements in 5.3.6.8

This chapter describes the enhancements made in RISQUE 5.3.6.8. These enhancements were made in the following areas:

- *Portfolios on page 471*

2.1 Portfolios

2.1.a Positions in Locked Portfolios in Result Variation

Issue Number: 62222

Positions are now included in the XML file generated for the results of P&L attribution if they were created in a locked parent portfolio. In previous versions, these positions were not included if the parent portfolio contained locked portfolios.

As of this release, these positions are included in the P&L attribution XML file if the parent portfolio contains either locked or unlocked sub-portfolios.

Files affected: SphPortfolio.dll, SphPortfolioGUI.dll

Chapter 3 Server Changes in 5.3.6.8

This chapter describes the changes made to the RISQUE API that affect the Sophis servers. These changes were made for the following servers:

- Data Service
  - *Enhancements in the Data Service Server on page 473*

3.1 Upgraded Servers

The following servers were upgraded in this release:

- Core Services
- Integration Service for Websphere

3.2 Enhancements in the Data Service Server

3.2.a Dividends Auto Conflict Handling

Issue Number: 57913

Dividend conflicts are now automatically accepted if the **Automatic Conflict Handling** check box is selected in the **Scheduled Instruments** window and if the following parameter is set to `true` in the `[DataRetrieverService]` section of the **`DataRetrieverServer.ini`** file:

```
forceUpdateDividends=true
```

If the `forceUpdateDividends` parameter is set to `false`, conflict handling works as before and all dividend conflicts must be accepted manually.

Files affected: SophisDataTypeEngine.dll, SophisDataServiceGUI.dll

Chapter 4 Toolkit Changes in 5.3.6.8

There were no changes to the toolkit in RISQUE 5.3.6.8.

Important You do not need to recompile your Toolkit projects against the new API.

Part 10: RISQUE 5.3.6.9

SOPHIS

Released: 12 July, 2010

This part contains the following:

▷The corrections in this version

▷The enhancements in this version

▷The changes to the RISQUE API that affect the Sophis servers

▷The toolkit changes in this version

Chapter 1 Corrected Bugs in 5.3.6.9

This chapter describes the bugs fixed in RISQUE 5.3.6.9. These fixes were made in the following areas:

- *Documentation on page 479*
- *Performance on page 479*
- *Portfolios on page 480*
- *XML on page 480*

1.1 Documentation

1.1.a Day Effect P&L Attribution Column

Issue Number: 61969

The definition of the **Day Effect** P&L Attribution column in the *P&L Attribution* chapter of the *Portfolio Management Guide* was incorrect.

Book Affected: Portfolio Management Guide

1.2 Performance

1.2.a Portfolio Reporting

Issue Number: 63482

The performance of portfolio reporting (F8) was reduced because RISQUE unnecessarily executed `CSRCommodity::RetrieveCommodityCodesFromInstrument` for every instrument.

Files affected: SphCommodities.dll

1.3 Portfolios

1.3.a Instrument Modification Effect for Packages in Packages

Issue Number: 63914

The values of the **Instrument Modification Effect** column of the **Result Delta** window were incorrect for packages within packages. This occurred if the composition of the package within the package was modified. This modification was not taken into account in the **Instrument Modification Effect** column.

As of this release, the `FOLIO_HIER` database table has been added.

Files affected: SphPortfolio.dll, SophisBasicData.dll, Sophis.dll, SophisPortfolioGUI.dll, SphPortfolio.sql

1.4 XML

1.4.a Detailed Correlation Maturity Analysis

Issue Number: 65687

The correlation values of derivatives were incorrect in the XML generated by an XML copy-and-paste operation on the results of a **Detailed Correlation Maturity** analysis. The values displayed for underlying instruments were correct.

Files affected: SphPortfolio.dll

Chapter 2 Enhancements in 5.3.6.9

This chapter describes the enhancements made in RISQUE 5.3.6.9. These enhancements were made in the following areas:

- *Performance on page 481*

2.1 Performance

2.1.a Balance Engine

Issue Number: 66369

The performance of the Balance engine has been improved.

Files affected: Sophis.dll, SophisAPI.dll

Chapter 3 Server Changes in 5.3.6.9

This chapter describes the changes made to the RISQUE API that affect the Sophis servers. There were no changes made in this release.

Chapter 4 Toolkit Changes in 5.3.6.9

This chapter describes the toolkit changes in RISQUE 5.3.6.9. These were no changes to the toolkit in this release.

Part 11: RISQUE 5.3.6.10

SOPHIS

Released: 03 September, 2010

This part contains the following:

▷The corrections in this version

▷The enhancements in this version

▷The changes to the RISQUE API that affect the Sophis servers

▷The toolkit changes in this version

Chapter 1 Corrected Bugs in 5.3.6.10

This chapter describes the bugs fixed in RISQUE 5.3.6.10. These fixes were made in the following areas:

1.1 Merged Versions

The bugs and enhancements from the following versions have been merged in 5.3.6.10:

- 5.3.5.17
- 5.3.4.25
- 5.3.3.19
- 5.3.2.23

1.2 Collateral Management

1.2.a CFD Report Spelling Error

Issue Number: 62252

The name of the **Initial Margin** column on the **CFD Report** window was spelled incorrectly.

Files affected: SphCollateral.dll

1.2.b Tri-Party Name Not Saved

Issue Number: 63549

The value selected from the **Name** drop-down list in the **Tri Party** frame on the **General** tab on the **Collateral Agreements** window was not saved if the corresponding collateral agreement was saved.

Files affected: SphCollateral.dll

1.2.c Payment Offset Warning Message

Issue Number: 64610

An incorrect warning message was displayed if the value in the **Day After Offset** text box in the **Commission** frame on the **Fees and Interest** tab on the **Collateral Agreement** window was greater than the value in the **Payment Offset** text box in the **Collateral Remuneration** frame.

Files affected: SphCollateral.dll

1.2.d Dividend Rebate Columns

Issue Number: 60444

Data was not displayed in the **Dividend Rebate Settled** and **Dividend Rebate Unsettled** columns on the **CFD Report** window if the following occurred:

1. A CFD with a share as the underlying instrument was booked.
2. An automatic ticket was generated and transmitted for a dividend on the share.

Files affected: SphCollateral.dll

1.2.e Commission Modification on Repos

Issue Number: 64661

It was possible to perform a commission modification on a repo from the context menu on the **Stock Loan and Repo contract management** window. As of this release, the **Commission Modification** command is not available for repo deals.

Files affected: SphCollateralGUI.dll

1.2.f Modifying CFD Templates from the Input Window

Issue Number: 61722

CFD templates were permanently modified if they were modified for a single deal from the **Contract for Difference input** window.

As of this release, the **OK** button has been added to the **Contract for difference** template window. Clicking the **OK** button saves modifications to the template for only the current deal.

Important If you click the **Save** button on the **Contract for difference** template window, the template is permanently saved.

Note The **OK** button is only displayed if the **Contract for Difference** template window is opened by clicking the **Template** link on the **Contract for Difference input** window.

Book Affected: Advanced CFD User Guide

Files affected: SphPortfolioGUI.dll, SphBasicDataGui.dll, SophisInterface.dll, SphRiskEn.dll

1.2.g Securities Report Effect on the Portfolio Window

Issue Number: 66929

The **Portfolio** window was not displayed correctly if deals were updated in the **Securities Report** window. This occurred due to a memory-management issue.

Files affected: SphCollateral.dll, SphCollateralGUI.dll

1.2.h Commission Modification on CFDs

Issue Number: 61916

The following issues occurred if the context menu on the **Portfolio** window was displayed on a CFD deal:

- It was possible to perform a commission modification on a CFD from the context menu.
- The **Modify Contract** window did not open if the **Modify Contract** command was clicked.

Note This issue did not occur for CFDs created with the Advanced CFD module enabled.

As of this release, the **Commission Modification** and **Modify Contract** commands are not available for CFD deals.

Files affected: SphCollateralGUI.dll

1.2.i Incorrect Realized in CFD Report

Issue Number: 62484

The values in the **Realized Settled** and **Realized Unsettled** columns on the **CFD Report** window were incorrect if the following occurred:

1. Two or more CFD deals were created with **Immediately with Cashpool** selected in the **Realized** drop-down list on the **Contract for difference** template window.
2. The cash pool tickets was generated and transmitted.

Files affected: SphCollateral.dll

1.2.j Receivable Coupon in CFD Report

Issue Number: 62544

The value in the **Receivable Coupon** column on the **CFD Report** was not displayed if the following occurred:

1. A CFD was booked on a share.
2. Future dividends on the share were entered into the **Dividends** window with the date on or after the ex-div date before the dividend date.

Files affected: SphCollateral.dll

1.2.k Collateral Agreement Name Not Updated

Issue Number: 65425

The collateral agreement name was not updated in the **Name** text box in the **New Contract Agreement** frame on the **Duplicate** window for stock loan deals if the name of the deal's corresponding agreement was changed and saved in the **Collateral Management Agreements** window.

Files affected: SphCollateral.dll

1.2.l Preference for Cash Margin Call

Issue Number: 65228

It was possible to perform cash margin calls on CFDs if the **Cash Margin Call** user right on the **Collateral Management** tab on the user rights window was set to **No**.

Files affected: SphCollateralGUI.dll

1.2.m Forex Rate on Modify Contract Window

Issue Number: 64209

The value in the **FX Rate** text box on the **Spot** tab on the **Modify Contract** window was incorrect. This occurred because the forex rate calculation used an inverted forex order. For example, the calculation used a USD/EUR forex order instead of EUR/USD.

Files affected: SphCollateral.dll, SphStockLoanGUI.dll

1.2.n Incorrect Margin Values in CFD Report

Issue Number: 63891

The values in the **Initial Margin** and **Variation Margin** columns on the **CFD Report** window were not zero for closed positions.

Files affected: SphCollateral.dll

1.2.o Rounding Error in Global Margin Call Window

Issue Number: 64175

The values on the **Total** line on all global margin call windows were incorrectly rounded to the nearest whole number if the **Precision Type** column on the **Margin Call Rounding Preference** list on the **Margin Call** tab on the **Collateral Agreement** window was not set to **Nearest**.

The values in the following columns were affected:

- **Margin Call**
- **Cash Amount**
- **Margin Call Value**

Files affected: SphCollateralGUI.dll, SphGlobalMarginCallDialog.h

1.2.p Incorrect Free Cash Amount

Issue Number: 61546

The value in the **Free Cash Deposit** dynamic field on the **CFD Report** window was incorrectly multiplied by the haircut.

Files affected: SphCollateral.dll

1.2.q Incorrect Asset Value Sign

Issue Number: 61552

The value in the **Underlying Asset Value** column on the **CFD Report** window was negative if the value in the **Number of Securities** column was negative. As of this release, the value in the **Underlying Asset Value** column is always positive.

Files affected: SphCollateral.dll

1.2.r Cross-Currency CFD Values

Issue Number: 63682

The sum of values was multiplied twice by the forex rate in the following columns on the **CFD Report** window for cross-currency CFDs:

- **Interest Accrued**
- **Interest Settled**

Files affected: SphCollateral.dll

1.2.s Crediting the Free Cash Account

Issue Number: 61959

The following issues occurred if the free cash account for sell-side CFDs was credited:

- The following warning message was displayed:

  Not Enough Cash in the Free Cash for this transfer

- It was not possible to accept the deal in the **Debit/Credit Free Cash Pool** window.

Files affected: SphCollateralGUI.dll

1.2.t CFD Report Exposure

Issue Number: 66571

The value in the **Net Exposure** dynamic field on the **CFD Report** window was not zero after the margin call automatic ticket had been transmitted at reset for the agreement. This occurred because the forecast calculation estimated the interest amount until the reset date. As a result, collateral cash margin call tickets were incorrect.

Files affected: SophisCollateral.dll

1.2.u Incorrect Equity Unrealized in CFD Report

Issue Number: 60514

The value in the **Equity Unrealized** column on the **CFD Report** window was incorrect if one of the following occurred:

- Calculating (F9) was not performed on the portfolio.
- Calculating (F9) was performed and market data was subsequently modified.

Files affected: Sophis.dll, SphCollateral.dll

1.2.v Payment Offset for CFDs

Issue Number: 56948

The **Payment Offset** specified in the **Contract for difference** template window was not taken into account in the **CFD Report** window for CFDs with the **Realized** payment rule set to **Immediately**. As a result, on the day the realised ticket was generated, the realised amount was incorrectly considered settled and displayed in the **Realized Settled** column of the **CFD Report** window.

Files affected: Sophis.dll, SphCollateral.dll

1.2.w CFD Report Exposure Not Updated

Issue Number: 62251

The **Exposure** dynamic field on the **CFD Report** window did take paid funding cost tickets into account if the following occurred:

1. A CFD deal was booked.
2. The prices date was set to the reset date.
3. The **CFD Report** window was opened.
4. The funding cost ticket was transmitted.

As a result, the **Interest Settled** and **Total Interest** columns on the **CFD Report** window were incorrect.

Files affected: SphCollateral.dll

1.2.x Coherency for Stock Loan and Repo Mgt Window

Issue Number: 63787

Coherency events were incorrectly applied to the **Stock Loan and Repo Mgt** window. The following is an example:

1. A stock loan deal was booked.
2. The **Stock Loan and Repo Mgt** window was opened.
3. The stock loan was moved in the **Portfolio** window to another portfolio.
4. A margin call was performed on the stock loan from the **Stock Loan and Repo Mgt** window.

   As a result, the margin call was stored with the same MTVIDENT in the previous location of the stock loan in the **Portfolio** window.

Files affected: SphCollateral.dll

1.2.y Excluded Indicator

Issue Number: 63213

Deals with the **Excluded** criteria in the **Indicator Name** column on the **Collateral Indicator Selector** were not excluded from the **Global Limits Calculation** window.

Files affected: SphCollateral.dll

1.2.z Suggested Margin Call Amount

Issue Number: 62431

The suggested margin call amount in the **Cash Amount** text box on the **Cash Margin Call** window was incorrect. This occurred because the forex was incorrectly applied.

Files affected: SphCollateralGUI.dll

1.2.aa Position Close Date for Pool Deals

Issue Number: 65620

Positions under the **Security Pool** line on the **Stock Loan and Repo Mgt** window were displayed for cash vs. security pool and cash vs. dedicated security pool repo deals if the positions were closed before the date in the **Position Close Date** text box on the **Stock Loan** tab on the **Preferences** window.

Files affected: SphCollateral.dll

1.2.ab Securities Report Projection Tab Not Updated

Issue Number: 65866

Data on the **Projection** tab on the **Securities Report** window was not updated if the following occurred:

- The **Projection** tab was opened on a share.
- The report date was modified on the **Main** tab on the **Securities Report** window.

Files affected: SphCollateral.dll

1.2.ac Estimated Value Date on Securities Report

Issue Number: 66319

The following errors occurred if **Estimated Value Date** was selected from the **Type** drop-down list on the **Securities Report Parameters** window:

- The stock loan instrument was displayed on the **Securities Report** window, instead of the underlying share or bond.
- Stock loan quantities were not displayed if an instrument was specified as a filter in the **Filter** drop-down list on the **Securities Report Parameters** window.

Files affected: SphCollateral.dll

1.2.ad Haircut for Dedicated Security Pool Repos

Issue Number: 64520

The haircut value was taken into account in the **Collateralised Spot** text box on the **Stock Loan / Repo Input** window for cash vs. dedicated security pool repos if the following occurred:

1. A haircut was defined on the corresponding agreement for the repo template.
2. A repo deal that was not a cash vs. dedicated security pool repo was created using the template.
3. The deal was changed to a cash vs. dedicated security pool repo.

Files affected: SphPortfolioGUI.dll

1.2.ae CFD Issues

Issue Number: 66359

The following issues occurred for CFD deals:

- The **Transaction Fees** header on the **CFD Report** window displayed the incorrect sign.
- The amount in the **Net Amount** text box on the **Contract for Difference Input** window was zero if fees were paid up front.
- Fees were not paid as part of the notional if fees were in the average price.
- Fees in the **CFD Report** window were displayed in the agreement currency instead of the CFD currency for cross-currency CFDs.

Files affected: SphCollateral.dll, SphCollateralGUI.dll

1.2.af Number of Securities in CFD Report

Issue Number: 62109

The **Number of Securities** column in the **CFD Report** window was empty before the payment date if there was a lag between the trade date and the payment date.

As a result, the values in the following columns on the **CFD Report** window were incorrect:

- **Asset Value**
- **CFD Notional**
- **Margin Rate**
- **Initial Margin**

Files affected: SphCollateral.dll

1.2.ag Incorrect Spread for Cash Pool Remuneration

Issue Number: 62217

The interest calculation on cash pool collateral for CFDs was incorrect if a CFD deal was created and short and long spreads were defined in the **Cash Pool Remuneration** list on the **Margin Call** tab on the **Collateral Agreement** window.

This occurred because the incorrect spread was used for the long deal on a sell-side agreement and for the short deal on a buy-side agreement.

Files affected: SphCollateral.dll

1.2.ah Interest Payment Lag

Issue Number: 63665

The payment offset defined in the **Payment Offset** text box in the **Collateral Remuneration** frame on the **Fees and Interests** tab on the **Collateral Agreement** window was incorrectly applied to CFD interest tickets.

Files affected: Sophis.dll, SphPortfolio.dll

1.2.ai Forward Stock Loan Interest and Commission

Issue Number: 65480

The commission and interest on collateral were calculated incorrectly for stock loans with a start date in the future.

Files affected: Sophis.dll, SphCollateral.dll

1.2.aj Free Cash Automatic Tickets

Issue Number: 61240

Free cash tickets were only generated for CFDs with a negative exposure. As of this release, these tickets are generated if the exposure is positive or negative and is greater than the threshold limit. If this is not the case, a collateral cash margin call ticket is generated if cash and time sufficiency checks allow.

The following enhancements have been made to the **Free Cash Account** frame on the **CFD** tab of the **Collateral Agreement** window:

- The **Threshold** text box has been renamed **Collateral Transfer Threshold**.
- The **Frequency** drop-down list has been removed.

  The frequency of the free cash account now corresponds to the **Cash Pool Remuneration Frequency** drop-down list on the **Margin Call** tab of **Collateral Agreement** window.

Book Affected: Advanced CFD User Guide

Files affected: SphCollateral.dll, SphCollateralGUI.dll, SphPortfolio.dll, Sophis.dll, SophisAPI.dll

1.2.ak CFD Income Increasing After Position Closed

Issue Number: 65051

Income continued to accrue for closed CFD positions if the **Realized** drop-down list in the **Payment** frame on the **Contract for difference** template window was set to one of the following:

- **At Reset**
- **At Reset (Cashpool rate)**

Files affected: Sophis.dll

1.2.al Margin Values After CFD Partial Close

Issue Number: 62291

The **Initial Margin** and **Variation Margin** columns on the **CFD Report** window were incorrect if the share price of the CFD was modified before a partial close was performed.

Files affected: SphCollateral.dll

1.2.am CFDs with Fees Not in the Average Price

Issue Number: 58979

The value in the **Result** dynamic field on the **Portfolio** window was incorrect for CFDs if the **With Fees** check box was cleared on the **Contract for difference** template window. This occurred because the fees were affected by the preferences specified in the **Broker Fees**, **Market Fees**, and **Counterparty Fees** drop-down lists on the **Profit and loss** tab on the **Preferences** window.

As of this release, changes in behaviour occur if the following conditions are true:

- The **Transaction Fees** drop-down list in the **Performance Payment Rules** frame on the **Contract for difference** template window are not set to either **In the average price only** or **In the average price and notional**.
- The following are selected from either the **Broker Fees**, **Market Fees**, or **Counterparty Fees** drop-down lists on the **Profit and loss** tab on the **Preferences** window:
  - **Included in average price**
  - **Without fees**

The behaviour is as follows:

- **Included in average price** — since the CFD template specifies that fees are not included in the average price, the fees are taken into account in the **Income** column on the **Portfolio** window. This is then taken into account by the P&L result.
- **Without fees** — the fees are not taken into account in the P&L result.

Files affected: Sophis.dll, SphPortfolio.dll, SophisRisque.exe

1.2.an Incorrect Sign on Interest in CFD Report

Issue Number: 60211

The sign was incorrect in the following columns on the **CFD Report** window:

- **Interest Accrued**
- **Interest Settled**

Files affected: SphPortfolio.dll, SphCollateral.dll, SphCollateralGUI.dll

1.2.ao Realised Not Displayed in Cash Balance

Issue Number: 63763

The realised cash flow was not displayed in the **Detailed Cash Balance** window if a CFD was created on a template with the **Realized** drop-down list on the **Contract for difference** window set to **Immediately** or **Immediately with Cashpool**.

Files affected: SphCollateral.dll, SphPortfolio.dll

1.2.ap Closed Positions in Securities Report

Issue Number: 66532

Positions were not displayed in the **Securities Report** window if the following occurred:

- The global preference `SecuritiesReportShowZeroInstruments` was set to 1.
- The position was associated with a stock loan deal or collateral.
- The quantity of the position was zero.

Files affected: SphCollateral.dll

1.2.aq Warning for Maturity Date

Issue Number: 61033

It was possible to perform a maturity modification with a trade date after the maturity date. As of this release, the following warning message is displayed if the trade date is after the maturity date:

Trade Date is after Maturity Date

Files affected: SphCollateral.dll, SphCollateralGUI.dll, SphStockLoanGUI.dll

1.2.ar Repo Cash Deals in the Stock Loan and Repo Management Window

Issue Number: 69291

Repo cash deals were not displayed in the **Stock Loan and Repo Management** window if the following occurred:

- **Real Settlement Date** was selected from the **Stock Loan and Repo Mgmt Date Type** drop-down list on the **Stock loan** tab on the **Preferences** dialog box.
- The deal was partially settled.

Files affected: Sophis.dll, SphPortfolio.dll

1.3 Commodities

1.3.a Commodity Index Delta Analysis on Intraday Roll Indexes

Issue Number: 60723

The values displayed in the **Commodity Index Delta Analysis** were incorrect if the composition of the index was rolled to the following day.

Files affected: SphCommodities.dll

1.3.b Forex Offset of MNP Baskets

Issue Number: 61451

The forex offset of a component of the underlying commodity basket of a swap was not calculated correctly if the following occurred:

- The swap was in a different currency than the commodity component.
- The **FX M unit.** and **FX N unit.** drop-down lists were set to **Work. days** on the **Basket Composition** window of the commodity basket.
- The first day of the month was not a working day.

Files affected: SphCommodities.dll

1.3.c LME Listed Option Underlying

Issue Number: 62157

The values displayed in the **UNDERLYING** frame on the **Standard Option** window were incorrect for LME listed options.

Files affected: SphCommodities.dll

1.3.d Crossed Gamma of a Quanto Option on a Commodity Index

Issue Number: 65755

The crossed gamma value was incorrect for quanto options on commodity indexes. This issue occurred because the crossed gamma between the index and the forex pair was calculated as well as the crossed gamma between the components of the index and the forex pair.

Files affected: SphCommodities.dll

1.3.e Load Worksheet Created by Another User

Issue Number: 59817

It was not possible to display a worksheet by clicking the **Load WS** button on the **Commodity** window if the user had not opened the worksheet before.

Files affected: SphCommoditiesGUI.dll

1.3.f Automatic Ticket Quantity Of Listed Put Option

Issue Number: 66954

The quantity of the automatic ticket generated for the future purchase of a listed put option was incorrect. This issue occurred because the quantity was multiplied by the contract size.

Files affected: SphListedMarket.dll

1.3.g Commodity Future Listed Options

Issue Number: 58603

The date used in the name of commodity future listed options was incorrect. As of this release, the date defined in the **Listed Market** window is used.

Files affected: SphListedMarket.dll

1.3.h LME Future Exercise Ticket Payment Date

Issue Number: 56785

The payment date of the exercise automatic ticket generated for an LME future on a listed option was the expiry date of the listed option instead of the payment date of the future.

Files affected: SphListedMarket.dll

1.4 Database

1.4.a SophisBasicData.sql Duplicates

Issue Number: 66733

The following SQL commands were duplicated in the **`SophisBasicData.sql`** script:

- `ALTER TABLE TS_EXECUTIONS_AUDIT ADD ExecKey NUMBER DEFAULT 0 NOT NULL`
- `ALTER TABLE TS_EXECUTIONS_AUDIT ADD REFMVTBACK NUMBER DEFAULT 0 NOT NULL`
- `comment on column TS_EXECUTIONS_AUDIT.REFMVTBACK is 'The MVTBACK key'`
- `comment on column TS_EXECUTIONS_AUDIT.ExecKey is 'The key of the execution in TS_EXECUTIONS'`
- `ALTER TABLE TS_EXECUTIONS DROP PRIMARY KEY`
- `ALTER TABLE TS_EXECUTIONS ADD REFMVTBACK NUMBER DEFAULT 0 NOT NULL`
- `comment on column TS_EXECUTIONS.REFMVTBACK is 'The MVTBACK key'`
- `CREATE INDEX TS_EXECUTIONS_INDEX1 on TS_EXECUTIONS(ExecutionId, LastStatus)`

Files affected: SophisBasicData.sql

1.4.b Invalid Identifier

Issue Number: 58893

The following command was not executed by the **`SphPortfolio.sql`** script:

```
create index I_AUDIT_MVT_DTMOD on AUDIT_MVT(datemodif);
```

This issue occurred because the identifier of the command was invalid.

Files affected: SphPortfolio.sql

1.5 Documentation

1.5.a Basket Swaps Filtered by Drop-down List Description

Issue Number: 68146

The description of the **Filtered by** drop-down list in the *Filtering the Underlying History Frame* section in the *Basket Swaps Tab* chapter of the *Instrument Reference Guide* was incorrect.

As of this release, the description states that all of the basket components of a synthetic reset adjustment are displayed if **Updated Only** is selected from the **Filtered by** drop-down list.

Book Affected: Instrument Reference Guide

1.5.b Modification of Modifiable Fields Table Text

Issue Number: 67824

The description of the **Modifiable Fields** column on the **Kernel Workflow Definitions** window in the *Kernel Workflows* chapter of the *Back Office User Guide* was incorrect.

It is now correctly described that the **FO Fields** value in the **Modifiable Fields** column specifies that users can modify the **FO Remarks** field and not the **BO Remarks** field on the **Deal Input** window.

Book Affected: Back Office User Guide

1.5.c Instrument Modification Rule Correction

Issue Number: 66253

The following sentence has been modified in the *Deleting Instrument Modification Types* section of the *Instrument Modification Workflow* chapter of the *RISQUE Back Office User Guide*:

- The rule is crossed out with a red line in the list.

This sentence has been changed to:

- The instrument modification type is crossed out with a red line in the list.

Book Affected: Back Office User Guide

1.5.d Deleting Business Events

Issue Number: 65822

The *Deleting Business Events* section of the *Business Events and Allotments* chapter of the *RISQUE Back Office User Guide* has been updated to include a description of deleting business events that are used in a deal.

Book Affected: Back Office User Guide

1.5.e Day Effect P&L Attribution Formula

Issue Number: 61969

The **Day Effect** P&L attribution formula in the *P&L Attribution* chapter in the *Portfolio Management Guide* was incorrect.

Book Affected: Portfolio Management Guide

1.6 Instruments

1.6.a Accrued Payment Type Adjustment

Issue Number: 63434

The value **Added** was displayed in the **Modification type** column and no value was displayed in the **Quantity** column on the **Basket Swap** tab on the **Swap** window if the following occurred:

1. The following adjustments were made in the **Basket Adjustment** window to a component in the basket:
   - The value in the **Quantity** column was changed to zero.
   - The value in the **Fixing** column was modified.
   - The **No Accrued Payment Type** value was selected from the **Accrued Payment Type** drop-down list.
2. A second adjustment was made to a different component in the basket and the **No Accrued Payment Type** value was selected from the **Accrued Payment Type** drop-down list.

Files affected: SphFinance.dll

1.6.b Basket Swap Merger and Demerger Ticket Transmission Error

Issue Number: 61778

An Oracle error occurred if the following occurred:

1. Merger and demerger corporate actions were performed on different shares within the same basket in a total return swap.
2. Tickets for the corporate actions were simultaneously transmitted.

Files affected: SphFinance.dll

1.6.c Basket Swap Trade Date

Issue Number: 65251

The value displayed in the **Trade Date** column on the **Basket Swap** tab on the **Swap** window was incorrect if the following occurred:

- The **Daily** value was selected from the **Frequency** drop-down list in the **Reset** frame on the **General** tab on the **Swap** window.
- The value displayed in the **Coupon Type** column on the **Basket Swap** tab on the **Swap** window was either **Reset Generated** or **Rate Payment**.

Files affected: SphFinance.dll

1.6.d Truncated Accrued Payment Type Control Name

Issue Number: 62136

The full text of the **Accrued Payment Type** control name was not displayed on the **Basket Adjustment Settings** frame on the **Basket Adjustment** window.

Book Affected: Instrument Reference Guide

Files affected: SphBasicDataGui.dll

1.6.e Modifying the Notional of a Bond in a Basket

Issue Number: 61634

It was not possible to modify the notional of a bond that was a component of a basket if the basket was the underlying of a stock loan.

Files affected: SphPortfolioGUI.dll

1.6.f Audit Comparison of Stock Loan Templates

Issue Number: 64171

In some instances, controls that were not modified were displayed in red if an audit was performed on a modified stock loan template.

Files affected: SphBasicDataGui.dll

1.6.g Audit Error for Stock Loans

Issue Number: 63544

In some instances, the **SM/DT** drop-down list on the **Stock Loan Input** window was not marked as modified if an audit was performed.

Files affected: SphPortfolioGUI.dll

1.6.h CFD Deal Creation Issue

Issue Number: 47209

It was not possible to create a CFD deal if the **Quantity** text box value was entered before the **Underlying Ref** text box value on the **Contract for Difference input** window.

Files affected: SphPortfolioGUI.dll

1.6.i Bond Pricing for Stock Loans

Issue Number: 66622

The pricing of a bond was incorrect if the following occurred:

- The bond was the principal of a stock loan.
- The pricing type was set to **MtM Greeks MtM** in the **Pricing Type** drop-down list on the **Calculation** tab on the **Bond** window.
- The calculation date was earlier than the start date.

This occurred because the last price of the bond was not in percentage in the pricing calculation. As of this release, the last price of the bond is in percentage, and interest is calculated from the start date instead of the calculation date.

Files affected: Sophis.dll

1.6.j Changing Market Way on Existing Forex Pairs

Issue Number: 68465

An error message was displayed and RISQUE behaved unpredictably if the market way was changed for existing forex pairs.

The following error message was displayed:

```
Error (CSRInstrument::Clone() has to be overloaded)
```

This occurred only if the following parameter was defined in the `[API]` section of the **`Risk.ini`** file:

```
TryNoToLoadInstrument = true
```

Files affected: Sophis.dll

1.6.k Basket Adjustment Currency Order

Issue Number: 54446

The order defined in the **Currency Order** column on the **Forex Fixings** frame on the **Basket Adjustment** window was not saved if it was not the market way.

Files affected: SphBasicDataGui.dll, SphFinance.dll, SphPortfolioGUI.dll, SphFinance.sql

1.6.l Incorrect Underlying for CFDs

Issue Number: 59891

The **Underlying Ref.** text box on the **Contract for Difference Input** window was uneditable if the underlying was changed after the template was selected for the deal. This occurred if a basic CFD template with a defined underlying was used to create the deal.

As of this release, the **Underlying Ref.** text box is editable if the value is changed.

Files affected: SophisPortfolioGUI.dll

1.6.m Treasury with Modified Following Day Accounting Lag

Issue Number: 57774

The treasury amount was capitalised on the day preceding non-business days if the following occurred:

- **MFD** was selected from the **Accounting Lag** drop-down list on the **Profit and loss** tab on the **Preferences** window.
- The global preference `DoNotCapitalizeTreasury` was set to 0.

For example, the treasury was capitalised on Fridays if these preferences were specified.

As of this release, the treasury is not capitalised for any days if these settings are specified.

Files affected: SphPortfolio.dll

1.7 Interface

1.7.a Saving Column Configurations

Issue Number: 64293

It was not possible to save column configurations for the following windows:

- **Collateral Management Agreements**
- **Stock Loan and Repo Mgt**
- **Securities Report**

Files affected: UserSettings.xsd, UserSettings.cs, SphCollateralGUI.dll

1.8 Listed Markets

1.8.a Instrument Market Ownership Value Effect on CFDs

Issue Number: 61411

Dividend tickets for CFDs were treated as if they were stock loan dividend tickets if the following occurred:

- The **Ownership** drop-down list in the **Instruments** frame on the new market window was set to **At Delivery**.
- The **Dividend Rebate** drop-down list in the **Payment Rules** frame on the **Contract for difference** template window was set to **Immediately**.
- A payment offset was defined in the **Payment Offset** text box in the **Payment Rules** frame on the **Contract for difference** template window.

Files affected: SphListedMarket.dll

1.8.b Average Option Current Date Fixings

Issue Number: 67143, 64240

The current day’s fixing values were not automatically populated in the **Option** window for Asian and average options. As of this release, if first is selected as the fixing type for the option, the value saved in the **First** column of the **History** table is used to populate the fixing for the current day. A fixing ticket is not generated for the fixing if first is defined as the fixing type.

The fixings are not populated in the option definition window for the current day if the fixing type is high, low, or last. For these types, fixing tickets are generated if a forecast is performed.

Files affected: SophisBasicData.dll, SphFinance.dll

1.9 Log Files

1.9.a CompleteLineOperation

Issue Number: 67125

`CompleteLineOperation()` logs were incorrectly written to the log file if the verbosity level was set to **Business Error** in the **Log Verbosity** drop-down in the **General** tab of the **Preferences** window. As of this release, `CompleteLineOperation()` logs are only written to the log file if the **Log Verbosity** is set to **Debug**.

Files affected: SophisInterface.dll

1.9.b decodeRightType and RetrieveCommodityCodesFromInstrument

Issue Number: 65900

The following messages were logged in the log files if the verbosity level was set to `verbose`:

- `CSAcces::decodeRightType()`
- `CSRCommodity::RetrieveCommodityCodesFromInstrument()`

As of this release, these messages are only logged if the verbosity level is set to `debug` or higher.

Files affected: SophisBasicData.dll

1.10 Portfolios

1.10.a Risk Matrix Theta Values

Issue Number: 63517

Zero was displayed for all dates in the **Risk Matrix** analysis if the following occurred:

- The **Apply these Preferences to Risk Matrix** check box on the **Theta** tab on the **Preferences** dialog box was selected.
- The **Theta** check box was selected on the **Simulation Parameters** dialog box.
- **Maturity** was selected from either the **X-Axis** or **Y-Axis** drop-down list on the **Simulation Parameters** dialog box.

Files affected: SphPortfolio.dll

1.10.b Receivable Coupon Value

Issue Number: 65812

The value in the **Receivable Coupons** column on the **Portfolio** window for CFD positions did not take the dividend ratio into account.

Files affected: SphCollateral.dll, SphPortfolio.dll, SphReportingInput.h

1.10.c Dynamic P&L for Floors

Issue Number: 66258

The value of the **Result (MTD)** dynamic P&L column was incorrect for positions on floor instruments.

Files affected: Sophis.dll

1.10.d IR Fixing Diary

Issue Number: 61754

Debt instruments created in the **IR Fixing Diary** were not saved to the portfolio defined by the `fundingbookingfolio` global preference.

Files affected: SophisPortfolioGUI.dll

1.10.e Historic Correlations

Issue Number: 66671

Data from risk sources was not updated correctly if the risk source was not displayed by scrolling the list of risk sources in the **Historic Correlations** window. As a result, the generated correlation file was incorrect.

Files affected: SophisHistoricCorrelations.dll

1.10.f SF Unrealized Spread Value

Issue Number: 66670

It was necessary to perform a reporting (F8) operation on the **Portfolio** window in order to display the correct value in the **SF Unrealized Spread** column after RISQUE was started. This occurred if the **Do not Load all Portfolios** check box was cleared on the **General** tab on the **Preferences** window.

Files affected: SphCollateral.dll

1.10.g Incorrect Ticket Window

Issue Number: 65081

The **Securities Margin Call** window was incorrectly displayed if a split or free ticket was double-clicked from the **Movement** window of a stock loan.

Files affected: SphCollateralGUI.dll

1.10.h Roll Function for Repos

Issue Number: 64149

The **Roll** command on the context menu of a cash vs. dedicated pool repo position in the **Portfolio** window did not work as expected.

Files affected: SphPortfolioGUI.dll

1.10.i SQL Extraction with Entry Spot List

Issue Number: 66422

Performance was reduced if an extraction defined with an SQL query that referenced the `REFCON` or `MVTIDENT` columns of the `HISTOMVTS` database table was launched by a user with a defined entry spot list. This issue occurred because the SQL query generated by the extraction referenced the `OPCVMFORREPORTING` database table.

Files affected: SphPortfolio.dll

1.10.j Payment Lag Applied to Trade Date

Issue Number: 63663

The realised payment lag defined in the **Realized** drop-down list in the **Payment Performance Rules** frame on the **Contract for difference** template window was incorrectly applied to the funding cost tickets. As a result, the funding cost ticket was incorrect.

Files affected: SphPortfolio.dll

1.10.k Stock Loan Automatic Tickets

Issue Number: 60208

The following errors occurred in the **Automatic Trades** window for some stock loan tickets:

- A display error occurred in the **Instrument Reference** column.
- The instrument type in the **Hierarchy** column was empty.
- The following error message was displayed if an XML copy operation was performed:

```
Internal Error on MFC Message
```

Files affected: SphPortfolio.dll

1.10.l CFD Performance Automatic Tickets

Issue Number: 61556

The **Value Date** text box on the **CFD Margin Call** window for CFD performance automatic tickets could not be edited.

Also, as of this release, the **CFD Margin Call** window has now been renamed **CFD Performance**.

Book Affected: Collateral Management Guide

Files affected: SphCollateralGUI.dll

1.10.m Net Amount in CFD Performance Automatic Ticket

Issue Number: 61557

The value of the unrealised cash flow in the **Net Amount** text box on the **CFD Margin Call** window for CFD performance automatic tickets was not updated if the spot price was modified.

Files affected: Sophis.dll

1.10.n Incorrect SM/DT and Payment Method

Issue Number: 66419

The values displayed in the **SM/DT** and **Payment Method** drop-down lists on the **Deal Input** window for existing stock loans were not the current values specified in the deal. The values from the first line of the **SSI** drop-down list were displayed instead.

Files affected: SphBasicDataGui.dll, SphCollateralGUI.dll, SphPortfolioGUI.dll

1.10.o Incorrect Net Amount for CFDs

Issue Number: 63857

The value in the **Net Amount** text box on the **Deal Input** window for CFDs was set to zero if the funding cost ticket was modified on the final reset date.

Files affected: SphPortfolio.dll

1.10.p Dividend Automatic Ticket

Issue Number: 65826

The forex spot was not taken into account for dividend automatic tickets if the dividend was paid in a currency other than the currency of the share.

Files affected: SphPortfolio.dll

1.10.q Basket Booking Error

Issue Number: 66830

The following errors were displayed if a stock loan was created with a basket underlying where the quantity was 0.00 in the basket composition:

- **Error creating the basket position link.**
- **ORA-0001: violation de contrainte unique.**

Files affected: SphPortfolioGUI.dll

1.10.r Incorrect Values for CFD Report

Issue Number: 59502

The values in the following controls on the **CFD Report** window were incorrect if the **P&L in Monetary Unit** check box on the **Display** tab on the **Preferences** window was cleared:

- The **Average Price** column.
- The **Last** column.
- All dynamic fields on the header of the **CFD Report** window.

Files affected: SphCollateralGUI.dll

1.10.s Back Office Business Events in Deal Input Window

Issue Number: 58967

The **CFD Fee Spread** text box and the **Margin Rate** dynamic field on the **Contract for Difference Input** window were not automatically populated with information from the corresponding CFD agreement if the global preference `CFD_NO_BE_AUTO` was set to 1.

Files affected: SphPortfolioGUI.dll, SphPortfolio.sql

1.10.t Incorrect SM/DT and Payment Method for Cash Tickets

Issue Number: 65801

The **SM/DT** and **Payment Method** drop-down lists did not display **XXX** on the **Deal Input** window for stock-loan cash tickets. This occurred because the **Automatic Trades** window replaced **XXX** values in the deal with values from the first matching settlement instructions line on the **Settlement Instructions** tab on the third party properties window.

Files affected: SphPortfolio.dll, SphPortfolioGUI.dll

1.10.u Result Variation Price with Yesterday's Credit Risk

Issue Number: 67769

The value of the **Price with yesterday's credit risk** column in the **Result Variation** window was calculated incorrectly with the current day’s pricing data.

Files affected: Sophis.dll

1.10.v Tax Credit Table with Corporate Action

Issue Number: 50984

The following issues occurred if a volatility update ticket was transmitted for a corporate action on a share:

- The tax credit database table was incorrectly updated.
- The **Tax credit** window displayed no data for the share.

As of this release, only the volatility table is updated if a volatility update ticket is transmitted for a corporate action on a share.

Files affected: SphPortfolioGUI.dll, SophisBasicData.dll

1.10.w Collateral Amount on Stock Loan Deals

Issue Number: 61766

The rounded security quantity was not used to calculate the value of the **Collat. Amount** column in the **Deals on Basket** window for stock loans.

Files affected: SphPortfolioGUI.dll

1.10.x Virtual Forex Trade for CFDs

Issue Number: 61478

Virtual forex deals were created for a CFD deal if the following occurred:

- The CFD agreement currency was different from the template and underlying currencies.
- The template and underlying currencies were the same.
- Fees were defined for the CFD deal.

Files affected: Sophis.dll, SophisFinance.dll, SophisPortfolio.dll, SphCollateral.dll, SophisPortfolioGUI.dll, SphCollateralGUI.dll

1.10.y Incorrect Spread After CFD Position Closed

Issue Number: 62833

The incorrect spread was applied to CFD positions if the deal was closed.

Files affected: SphPortfolioGUI.dll

1.10.z Basket Swaps in the IR Fixing Diary

Issue Number: 58929

Rates manually fixed in the **Basket Swap** window were not displayed in the IR Fixing Diary analysis for positions on the basket swap.

Files affected: Sophis.dll

1.10.aa Large Line Picking Quantity

Issue Number: 67818

An error was displayed if a value larger than 2,147,483,648 was calculated for the **Quantity** dynamic field on the **Line Picking** window.

Files affected: SphLinePicking.dll, Sophis.dll, SphPortfolio.dll, SphAccounting.dll, SphBOKernelGUI.dll

1.10.ab Extraction Window Header

Issue Number: 66301

The values displayed on the header of an extraction window were not updated if the following occurred:

1. The market data or definition of an underlying instrument were modified.
2. Calculating (F9) was performed.

Files affected: SphPortfolio.dll

1.11 Pricing

1.11.a Historic Table for Interest-Rate Swaps

Issue Number: 62897

The incorrect fixing rate was used to price interest-rate swaps if the historic table was changed from the default table to another table.

Files affected: SophisBasicData.dll

1.11.b Cliquet Compo Forward Start Options

Issue Number: 65849

The forex rate was not taken into account for compo average options defined with a forward start date and the **Cliquet** model if any of the following occurred:

- The forward start date was the current date.
- A fixing was entered on the current date.

Files affected: SphFinance.dll

1.12 XML

1.12.a Global Collateral Limits Reporting Source

Issue Number: 63175

The `<reporting:date>` XML field did not contain the default date if the following occurred:

- The **Reporting Date** text box on the **Source Data** tab on the **Global Collateral Limits** report source was blank.
- An XML copy-and-paste procedure was performed.

Files affected: SphCollateral.dll

Chapter 2 Enhancements in 5.3.6.10

This chapter describes the enhancements made in RISQUE 5.3.6.10. These enhancements were made in the following areas:

2.1 Back Office

2.1.a Business Events for CFD Forecast Events

Issue Number: 61559

The following drop-down lists have been added to the **CFD** tab on the **Back Office Parameters** window:

- **Performance**
- **Funding Fees**
- **Dividends**

These are located in the new **Forecast Business Events** frame and are used to define business events for forecast events on CFD positions.

Book Affected: Advanced CFD User Guide, Back Office User Guide

Files affected: SphBOKernel.dll, SphPortfolio.dll, SphCollateral.dll, SphListedMarket.dll, SphBOKernelGUI.dll

2.1.b Cash Pool Back Office Parameters

Issue Number: 66450

The following enhancements have been made to the **CFD** tab on the **Back Office Parameters** window:

- The **Cash Pool Business Events** frame has been added.
  This frame contains drop-down lists that enables you to specify business events for cash pool trades.
- The **P&L to Cash Pool** drop-down list has been added in the **Cash Pool Business Events** frame.
- The following drop-down lists have been moved from the **Purchase/Sell Business Events** frame to the **Cash Pool Business Events** frame:
  - **Debit/Credit Free Cash**
  - **Transfer Free Cash**

Book Affected: Advanced CFD User Guide, Back Office User Guide

Files affected: SphPortfolio.dll, SphCollateral.dll, SphCollateralGUI.dll. Sophis.dll

2.2 Collateral Management

2.2.a Width of Threshold Text Field

Issue Number: 50002

The width of the **Exposure Threshold** text box on the **CFD** tab of the **Collateral Agreement** window has been lengthened to accommodate large values.

Files affected: SphCollateralGUI.dll

2.2.b Cash Pool Monitor End Date

Issue Number: 64241

The current date is now the default date in the **End Date** text box on the **Cash Pool Monitor Parameters** window.

Files affected: SphCollateralGUI.dll

2.2.c Margin Rate for CFD Agreements

Issue Number: 61160

The **Margin Rate** column has been added to the **Principal Stocks** tab on the **Collateral Agreement** window for CFDs. The margin rate is expressed in percent, with a default value of 0. It is used to calculate the initial margin and variation margin for the **CFD Report**.

Important **Margin Rate** only applies to CFD Agreements, and replaces the **Hedging %** column. For all other agreements, the **Hedging %** column remains.

Book Affected: Collateral Management Guide

Files affected: SphPortfolioGUI.dll, SphCollateral.dll

2.2.d Initial Margin Percentage Sign

Issue Number: 43761

A percentage sign is now displayed next to the **Margin Rate** dynamic field on the **Contract for Difference input** window.

Book Affected: Advanced CFD User Guide

Files affected: SphRiskEn.dll, SphPortfolioGUI.dll

2.2.e CFD Warning Message

Issue Number: 62061

The warning message displayed if an invalid reference is entered in the **Template Reference** text box on the **Default Templates** list on the **Collateral Agreement** window has been improved.

Files affected: SphCollateral.dll

2.2.f CFD Report Configuration Sets

Issue Number: 61564

The following enhancements have been made to the **CFD Report** window column configuration:

- The following pre-defined column configuration sets for the **CFD Report** window have been added to the **Configuration** drop-down list:
  - **Credit Risk Indicators**
  - **Equity Performance**
  - **Fees and Interests**
- The column configuration of an open **CFD Report** window is saved if the window is closed.

Book Affected: Advanced CFD User Guide

Files affected: SphCollateralGUI.dll

2.2.g CFD Template Window Interface Change

Issue Number: 61586, 68559

The following changes have been made on the **Contract for difference** template window:

- The **Interest** frame has been added. This frame contains the following controls:
  - **IR Index** drop-down list — specifies the rate index used to compute interest. Clicking the **IR Index** link opens the **Rate** window for that index.
  - **Payment Frequency** — specifies the reset frequency.
- The **Payment Rules** frame has been renamed to **Performance Payment Rules**.

  The following controls in the **Performance Payment Rules** frame have been changed:
  - The **Frequency** drop-down list has been renamed **Payment Frequency**.
  - The **Unrealized** drop-down list has been renamed **Notional Reset**.
  - **Dividend Rebate** drop-down list has been renamed **Dividend**.

- The **With Broker Fees** drop-down list in the **Av. Price Computation** frame has been renamed **Transaction Fees**. The following option has been added to the drop-down list:
  - **In Average Price Only** — specifies that fees are deducted from only the average price.

  The **Transaction Fees** drop-down list has been moved from the **Av. Price Computation** frame to the **Performance Payment Rules** frame.
- The **Av. Price Computation** frame has been removed.

Book Affected: Advanced CFD User Guide

Files affected: Sophis.dll, SophisBasicData.dll, SphBasicDataGui.dll, SphRiskEn.dll, RiskResources.txt

2.2.h Column Name Changes in CFD Report

Issue Number: 61566

The following columns on the **CFD Report** window have been renamed:

- **Accrued Dividend Rebate** has been renamed **Accrued Dividend**.
- **Asset Value** has been renamed **Underlying Asset Value**.
- **Cash Deposit Amount** has been renamed **Cash Deposit Settled**.
- **Cash Deposit Haircut** has been renamed **Cash Pool Haircut**.
- **CFD/Cash Pool/Free Cash Currency** has been renamed **Currency**.
- **CFD Result** has been renamed **Result**.
- **Collateral** has been renamed **Collateral Sent**.
- **Cpty Fees** has been renamed **Counterparty Fees**.
- **Dividend Rebate Rate** has been renamed **Dividend Distributed Rate**.
- **Dividend Rebate Settled** has been renamed **Realized Dividend Settled**.
- **Dividend Rebate Unsettled** has been renamed **Realized Dividend Unsettled**.
- **Equity Unrealized** has been renamed **Unrealized Performance**.
- **Forex** has been renamed **Forex (Ccy vs Agreement Ccy)**.
- **Interest Accrued** has been renamed **Accrued Interest**.
- **Interest Paid Today** has been renamed **Daily Accrued Interest**.
- **Interest Settled** has been renamed **Realized Interest Settled**.
- **Last** has been renamed **Underlying MtM Price**.
- **Position Id** has been renamed **Position Ident**.
- **Realized** has been renamed **Realized Performance**.
- **Realized Settled** has been renamed **Realized Performance Settled**.
- **Realized Unsettled** has been renamed **Realized Performance Unsettled**.
- **Receivable Coupon** has been renamed **Accrued Dividend**.

The following column has been removed from the **CFD Report**:

- **Total Fees**

The following columns have been added to the **CFD Report**:

- **Balance**
- **Cash Deposit Unsettled**
- **Dividend Distributed Rate**
- **Fees in average price**
- **Forex (Ccy vs Underlying ccy)**
- **CFD Notional**
- **Realized Dividend**
- **Realized Interest Unsettled**
- **Underlying Sector**
- **Underlying ISIN**
- **Underlying Reference**

Book Affected: Advanced CFD User Guide

Files affected: SphCollateral.dll, SphCollateralGUI.dll

2.2.i Payment Frequency Options

Issue Number: 65855

The following enhancements have been made to the **Payment Frequency** drop-down list in the **Interest** frame on the **Contract for difference** template window:

- It is no longer possible to select **Final** from the drop-down list.
- **Plain end of month** is the default value in the drop-down list.

Book Affected: Advanced CFD User Guide

Files affected: SphBasicDataGui.dll, SophisBasicData.dll

2.2.j CFD Payment Offset

Issue Number: 64757

The **Payment Offset** drop-down list and **Payment Offset** text box have been added in the **Performance Payment Rules** frame on the **Contract for difference** template window. These enables you to specify the payment lag type and duration for CFDs.

Book Affected: Advanced CFD User Guide

Files affected: SphRiskEn.dll, SphBasicDataGui.dll, SphPortfolioGUI.dll, Sophis.dll, RiskResources.txt, SphPortfolio.dll

2.2.k Default Amount for CFD Margin Call

Issue Number: 58970

The following enhancements have been made to the **Cash Margin Call** window for CFDs:

- The **Cash Amount** text box is populated with a default margin call amount equal to the current exposure on the CFD agreement, regardless of the result of the sufficiency check.
- The **Credit Risk** dynamic field displays the exposure value.

Book Affected: Advanced CFD User Guide

Files affected: SphCollateralGUI.dll

2.2.l Generate Tickets for Maturity Modification

Issue Number: 61658

The **Generate Tickets** check box has been added on the **Maturity** tab on the **Modify Contract** window. This specifies whether tickets are generated upon saving the maturity modification.

Note The **Generate Tickets** check box is disabled if the specified maturity date is in the future.

Book Affected: Advanced Stock Loan Guide

Files affected: SphCollateralGUI.dll, SphStockLoanGUI.dll

2.2.m Long and Short Distributed Dividend Rate

Issue Number: 61194

The **Distributed Dividend Rate (Long)** and **Distributed Dividend Rate (Short)** text boxes have been added to the **Contract for Difference input** window. This enables you to do the following:

- Specify long or short distributed dividend rates at the deal input level.
- Change from the long rate to the short rate during the CFD life cycle.

Book Affected: Advanced CFD User Guide

Files affected: SphListedMarket.dll SophisBasicData.dll SphPortfolioGUI.dll, SophisPortfolioGUI.dll

2.2.n CFD Report Indicators

Issue Number: 63815

The dynamic fields on the header on the **CFD Report** window have been reorganised.

The following dynamic fields have been added:

- **Report View —** displays the entity on which the report is based and whether the CFD agreement is buy-side or sell-side.
- **Date —** displays the report date.
- **Generated —** displays the time and date on which the report was generated.
- **MtM Method —** the mark-to-market method used in calculations.
- **Agreement Currency** — specifies the agreement currency.
- **CFD Performance** — displays the CFD result linked to underlying performance, including dividends.
- **CFD & Collat Interests** —displays the P&L linked to total interest on the CFD notional plus the total interest on the collateral.
- **Free Cash Interest** — displays the free cash interest amount.
- **Transaction Fees —** displays the sum of market fees, broker fees, and counterparty fees.

The following dynamic fields have been renamed:

- **Free Cash** has been renamed **Free Cash Deposit**.
- **Exposure** has been renamed **Net Exposure**.
- **Collateral** has been renamed **Collateral Sent**.
- **Total Unrealized** has been renamed **MtM Exposure.**

The following dynamic field has been removed:

- **Asset Value**

The following change has been made to dynamic field titles that require a currency indicator:

- **[Ccy]** has been removed from the dynamic field names. Instead, currency colours are used to indicate the currency.

Book Affected: Advanced CFD User Guide

Files affected: SphCollateral.dll, SphCollateralGUI.rc, SphCFDResult.h, SphCollateralGUI.dll

2.2.o Warning for Maturity Modification Removed

Issue Number: 62257

The following warning message is no longer displayed if maturity modifications are performed on stock loan positions that contain ticket events in the future:

Maturity Modification must be after all current Stock Loan events

Note The warning message is still displayed if the stock loan ticket events affect the number of securities.

Files affected: SphCollateral.dll, SphCollateralGUI.dll

2.2.p Net Margin Call Indicator

Issue Number: 68327

The **Net Margin Call** dynamic field has been removed from the header on the **Collateral Limit Explanation** window.

Book Affected: Collateral Management Guide

Files affected: SphCollateralGUI.dll

2.2.q Counterparty and Entity Criteria in the Securities Report

Issue Number: 61834

In previous releases, selecting **Counterparty** or **Entity** in the **View** drop-down list on the **Securities Report** window resulted in long lists of counterparties and entities displayed per position. This occurred for positions that involved only securities, such as shares and bonds.

As of this release, **(Book)** has replaced the list of counterparties and entities for positions that involve only securities.

Figure 2-1 shows **(Book)** lines per position using the **Counterparty** view:

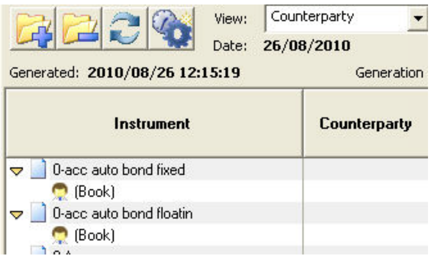


Figure 2-1 (Book) line in the Securities Report

Important This enhancement does not apply to stock loan and repo deals in the **Securities Report** window.

Book Affected: Collateral Management Guide

Files affected: SphCollateral.dll

2.2.r Future Cash Flows in the Cash Balance

Issue Number: 65245

Only CFD cash flows with a trade date up to and including the current date are now displayed in the **Cash Balance** window.

Files affected: SphCollateral.dll

2.2.s Threshold Computation

Issue Number: 62055

The threshold for the net exposure is now calculated according to the following formula:

```
If Exposure > 0 then the threshold applied = - Min(Counterparty Threshold,
Exposure)

Else the threshold applied = Min(Entity Threshold, abs(Exposure))
```

Files affected: SphCollateralGUI.txt, SophisLimits.dll, SphCollateral.dll, SphCollateralGUI.dll

2.2.t CFD Interest Rates

Issue Number: 66248

CFD fees are now calculated using the interest rate characteristics as they are defined for the CFD. In previous releases, the term, rate type, convention adjustment term, leveraging mode term, and frequency term were hard-coded.

As of this release, a data integrity warning message is displayed if a rate is not a daily rate and a data integrity error message is displayed if capitalisation mode is not handled.

Files affected: Sophis.dll, SphCollateral.dll

2.2.u Real Settlement Date

Issue Number: 64650

The following changes have been made to real settlement date:

- The performance of the **Stock Loan and Repo Mgt** window if the real settlement date is used has been improved.
- The following changes apply to the **Stock Loan and Repo Mgt** window, the **Portfolio** window, forecasts, and the **Collateral Limits Calculation** window:
  - For netted instructions the real settled quantity is now displayed for the real settlement date. In previous releases, the average quantity per netted deal was displayed.
  - The full amount of FOP securities vs. cash per contract and repo cash is paid on the value date. The real settlement date setting has no effect on repo transactions booked using delivery versus payment (DVP). As a result, the borrowed cash amount is paid in full on the value date.
- Reports and forecasts launched for the real settlement date now use the estimated settlement date of the latest instruction as the estimated settlement date of free of payment (FOP) or DVP securities and DVP cash. If no estimated settlement date is defined for the latest instruction, or if the defined estimated settlement date is before the current prices date, the day after the current prices date is used. Reports and forecasts assume that all unsettled securities are settled on the estimated settlement date.
- The **Real Settlement Date Stock Loan Only** value in the **Dates In Reporting** drop-down list on the **Back office** tab on the **Preferences** dialog box now has the same affect as the **Real Settlement Date** value.

Files affected: Sophis.dll, SphPortfolio.dll

2.3 Commodities

2.3.a Peak and Off-peak Decomposition Power Delivery Loads

Issue Number: 66558

It is now possible to define peak and off-peak decomposition delivery loads for power commodities. The following new delivery loads can be specified for a power commodity:

- **5x16** – for delivering power Monday to Friday between 7am and 11pm.
- **2x24 5x8** – for delivering power for all hours of Saturday and Sunday and Monday to Friday between 11pm and 7am.
- **7x24** – for delivering power for all hours of every day of the week.

If a commodity uses peak and off-peak decomposition delivery loads, it is possible to define **5x16** prices and **2x24 5x8** prices in the commodity worksheet. The **7x24** prices are calculated as the sum of the **5x16** and **2x24 5x8** prices.

Book Affected: Administration Guide, Instrument Reference Guide

Files affected: SphCommodities.dll

2.4 Database

2.4.a MVT_AUTO Index

Issue Number: 68501

An index has been created for the `MVT_AUTO` database table to improve the performance of automatic tickets generated for packages.

Files affected: SophisBasicData.sql

2.4.b Define Script Execution Time

Issue Number: 57254

It is now possible to define the length of time that the following scripts run:

- **`ContinueCorrelationAuditDataMigration.ext`**
- **`ContinueDividendAuditDataMigration.ext`**
- **`ContinueRateCurvesAuditDataMigration.ext`**
- **`ContinueRepoCurvesAuditDataMigration.ext`**
- **`ContinueVolatilityAuditDataMigration.ext`**

To specify the length of time in hours that a script runs for, edit the `RUNHOURS NUMBER` parameter in the script. This parameter is set `0.1` hours, or six minutes, by default. After the specified length of time elapses, the script terminates.

Files affected: ContinueCorrelationAuditDataMigration.ext, ContinueDividendAuditDataMigration.ext, ContinueRateCurvesAuditDataMigration.ext, ContinueRepoCurvesAuditDataMigration.ext, ContinueVolatilityAuditDataMigration.ext

2.5 Documentation

2.5.a Back Office User Rights

Issue Number: 41486

Descriptions of the Back Office user rights have been moved from the *Back Office User Guide* to the *Administration Guide*.

Book Affected: Administration Guide

2.5.b Instrument Modification P&L Attribution Formula

Issue Number: 67500

The Instrument Modification Effect P&L attribution formula has been added to the *P&L Attribution* chapter in the *Portfolio Management Guide*.

Book Affected: Portfolio Management Guide

2.6 Instruments

2.6.a Price Return Swaps

Issue Number: 53616

Price return swaps are now supported. They are defined in the **Swap** window.

The following features have been added to support price return swaps:

- A new model, **Price Return Swap**, has been added to the **Model** drop-down list in the **Swap** window.
- Two columns, **MtM Fixing** and **Adj. Fixing** have been added to the **Basket Creation** and **Basket Adjustment** windows for entering mark-to-market and negotiated prices for the swap underlying.
- The **PRS Funding Type** frame has been added to the **Advanced** tab on the **Swaps** window. The following funding types are available:
    - **Adjusted fixing** — the funding notional is based on the equity performance,

adjusted for dividends.

- **Mark-to-market fixing** — the funding notional is based on the mark-to-market fixing and is consistent with the stock hedge price.

- A new item, **Price Return Swap**, has been added to the **Swaps** menu on the **Portfolio** window. Selecting this item opens the **Swap** window with the destination portfolio defined for the position.

Book Affected: Instrument Reference Guide, Portfolio Management Guide

Files affected: SphFinance.dll, SophisBasicData.dll, SphBasicDataGui.dll, Sophis.dll, SphPortfolio.dll, SphPortfolioGUI.dll

2.6.b Basket Swap Tab Enhancements

Issue Number: 68560

The following enhancements have been made to the columns of the **Underlying history** frame on the **Basket Swap** tab on the **Swap** window:

- The **IR Coupon** column has been renamed **Total interest Coupon**.
- The following columns have been added:
  - **Total IR value**
  - **Total spread value**
  - **Interest unpaid w/o financing**
  - **Tot. IR val financing**
  - **Tot. IR val w/o financing**
- A new value is displayed in the **Value Date** column for the first header row that contains today's date in the **Underlying history** frame. The new value is the sum of the **Trade Date** plus the payment gap defined in the **Advanced** tab on the **Swap** window.

Book Affected: Instrument Reference Guide

Files affected: SphFinance.dll, SphPortfolio.dll, SphBasicDataGui.dll, SphPortfolioGUI.dll

2.6.c Flow Truncation Date

Issue Number: 55613

The **Relative Trunc. Date** text box has been added to the **General** tab on the **Swap** window. This text box defines the flow truncation date for basket and price return swaps.

Book Affected: Instrument Reference Guide

Files affected: instrument.xsd, Sophis.dll, SophisBasicData.dll, SphBasicDataGui.dll, SphFinance.dll

2.6.d Basket Swap Spread Column

Issue Number: 63855

A new column, **Spread**, has been added to the **Basket Creation** window and the **Basket Adjustment** window. This column defines the percentage spread per basket component.

Book Affected: Instrument Reference Guide

Files affected: SphBasicDataGui.dll, SphFinance.dll, SphFinance.sql

2.6.e Spread per Component in Basket Swap Model

Issue Number: 62677

The following enhancements have been made to the basket swap model:

- The following columns have been added to the **Basket Creation** and **Basket Adjustment** windows:
  - **Spread** — defines the percentage spread per basket component.
  - **Srp. Reset** — defines whether or not previous spreads are applied to the basket component.
- The following columns have been added to the **Basket Swap** tab on the **Swap** window:
  - **Spread Reset**
  - **Spread Fixing**
  - **Average Spread**
  - **Notional financing**
  - **IR Coupon financing**
  - **Interest unpaid financing**
  - **Tot. int. val financing**
  - **Tot. int. val no financing**

Book Affected: Instrument Reference Guide

Files affected: SphFinance.dll, SphPortfolio.dll, SophisBasicData.dll, SphBasicDataGui.dll, SphPortfolioGUI.dll

2.6.f TRS Reporting Methods

Issue Number: 64448

The **Reporting Method** drop-down list has been added to the **Advanced** tab on the **Swap** window. This allows you to select from one of the following TRS reporting methods:

- WAP
- FIFO
- LIFO

Book Affected: Instrument Reference Guide

Files affected: SophisBasicDataGUI.dll, SophisBasicData.dll, Sophis.dll

2.6.g Principal Reference Instruments

Issue Number: 61740

Stock loan and repo instruments are no longer displayed in the **Principal Ref.** drop-down list on the **Stock Loan Input** and **Securities Margin Call** windows.

Files affected: SphBasicDataGui.dll

2.6.h Notional in CFD Currency

Issue Number: 66362

The value in the **Notional** text box on the **Contract for Difference input** window is now displayed in the CFD currency instead of the underlying currency for cross-currency CFDs.

Files affected: SphPortfolioGUI.dll

2.6.i CFDs on Indices

Issue Number: 42423

It is now possible to choose an index from the auto-completion list in the **Ref. Instrument** text box on the **Contract for Difference Input** window.

Files affected: SphBasicDataGui.dll

2.6.j Naming Convention for CFDs

Issue Number: 66364

The naming convention for CFD instruments has been changed. The new convention is as follows:

CFD name = <name of the underlying> + **CFD** + <CFD currency>

Note The CFD currency is only used in the naming convention if the CFD is a cross-currency CFD.

For example, a CFD deal in Japanese Yen created with a Euro share, SHARECA1, as the underlying is displayed in the **Portfolio** window as follows:

SHARECA1 CFD JPY

Files affected: SphBasicDataGui.dll

2.7 Interest Rates

2.7.a Long and Short Floating Rate Calculations

Issue Number: 55311

It is now possible to specify both the long and short rates using a single interest rate and to define a rate that can be used as a spread between two different rates.

To do this, the following enhancements have been made to the **Rate** window:

- The **Short Index** drop-down list has been added to the **Advanced** frame. This enables you to select a short rate whose fixing is used if deals are short.

Note The data used for the short rate comes from the HISTORIQUE database table.

- The fixing in the **Reference** text box in the **Rate Definition** frame is now used if deals are long.

This enhancement has an effect on the following

- Nostro Management — you can define different funding rates on cash balances. For more information, see the *RISQUE Back Office User Guide*.
- CFDs — you can define short and long rates for CFD trades, particularly cross-over trades. For more information, see the *RISQUE Advanced CFD User Guide*.
- Cash Pool Collateral — you can define short and long rates for cash pool collateral stock loan trades. For more information, see the *RISQUE Collateral Management Guide*.

Book Affected: Administration Guide, Back Office User Guide, Advanced CFD User Guide, Advanced Stock Loan Guide

Sophis.dll, SphFinance.dll, SophisBasicData.dll, SphBasicDataGui.dll

2.8 Interface

2.8.a CFD Template

Issue Number: 65832

The alignment of controls in the **Contract for difference** template window has been improved.

Book Affected: Advanced CFD User Guide

Files affected: SphRiskEn.dll

2.8.b Dividend Distributed Rate for CFDs

Issue Number: 61162

The **Dividend Distributed Rate** text box is now always displayed on the **Contract for Difference input** window, regardless of whether there is a dividend on the underlying.

Book Affected: Advanced CFD User Guide

Files affected: SphPortfolioGUI.dll

2.9 Performance

2.9.a Detailed Cash Balance with Bucket Sets

Issue Number: 68401

The performance of the **Detailed Cash Balance** report on extractions has been improved. This enhancement affects bucket extractions with the **Keep Position Ident** check box selected on the **Extraction Criteria** dialog box.

Files affected: Sophis.dll

2.10 Portfolios

2.10.a Checking Crossed Barriers

Issue Number: 53286

It is now possible to check for crossed barriers for positions on barrier options. The **Check Barriers** command has been added to the context menu if you right-click on a position containing an option with a barrier defined.

If you click the **Check Barriers** command, a forecast is performed and the **Crossed barriers** window is displaying, showing any crossed dates, levels, and barrier type.

Figure 2-2 shows the **Crossed barriers** window:

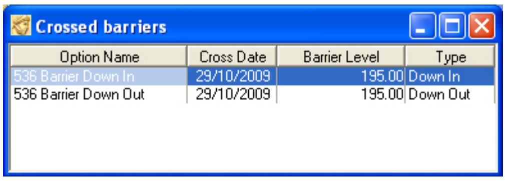


Figure 2-2 Crossed barriers window

Book Affected: Portfolio Management Guide

Files affected: SphPortfolioGUI.dll

2.10.b Automatic Tickets Gross Amount

Issue Number: 68250

The **Gross Amount** column has been added to the **Automatic Tickets** window.

Book Affected: Portfolio Management Guide

Files affected: SphPortfolio.dll

2.10.c CFD Performance Ticket

Issue Number: 68621

The following changes have been made to the **CFD Performance** window:

- The **CFD Performance** window has been renamed **CFD P&L to Cashpool**.
- The **Spot** and **Quantity** text boxes have been removed.
- The **Realized & Dividends** frame has been renamed **CFD Cash flows transferred to cash pool**.

- The **Value Date** column has been removed from the **CFD Cash flows transferred to cash pool** table.
- The default value for the **Depositary** drop-down list is **XXX**.

Book Affected: Advanced CFD User Guide

Files affected: SphCollateralGUI.dll, SphPortfolioGUI.dll

2.10.d Margin Call Tickets for CFDs

Issue Number: 60840

Margin call tickets are now generated if the exposure is not zero for the agreement, regardless of the sign of the exposure and the **Buy/Sell Side** setting. After the ticket is generated, the exposure is reset to zero.

In previous releases, margin call automatic tickets for margin calls on CFDs were not generated if the forecast was launched.

Files affected: Sophis.dll, SphCollateral.dll, SophisAPI.dll, SphPortfolio.dll, SphCollateralGUI.dll, SphListedMarket.dll, SphCollateral.dll

2.11 Reporting Module

2.11.a Basket Swap History Report Source

Issue Number: 63061

The following report sources have been added in this release:

- **Basket Swap History** – includes data for total return swaps defined with the **Basket Swap** model.

Book Affected: Reporting Module User Guide

Files affected: SphPortfolio.dll, SphPortfolioGUI.dll

2.12 XML

2.12.a Basket Adjustments

Issue Number: 62740

Basket adjustments can now be specified in the XML input.

Files affected: Sophis.dll, SphFinance.dll, SophisPortfolioGUI.dll

2.12.b Basket Fixing

Issue Number: 62742

Basket fixing can now be specified in the XML input.

Files affected: Sophis.dll, SphFinance.dll, SophisPortfolioGUI.dll

2.12.c Basket Spread Modification

Issue Number: 62741

The spread value can now be modified in the XML at trade level.

Files affected: Sophis.dll, SphFinance.dll, SophisPortfolioGUI.dll

2.12.d Basket Spread per Component

Issue Number: 64433

The spread per component for basket swaps can now be specified in the XML input.

Files affected: instrument.xsd, SphFinance.dll

2.12.e Adjustment to Basket Spread per Component

Issue Number: 64437

Adjusted fixings for price return swaps can now be specified in the XML input.

Files affected: instrument.xsd, SphFinance.dll, Sophis.dll

2.12.f Currency Order

Issue Number: 64438

The currency order can now be specified in the XML input.

Files affected: SphFinance.dll

2.12.g TRS Reporting Method and PRS Funding Type

Issue Number: 64434

The total return swap reporting method and price return swap funding type can now be specified in the XML input.

Files affected: instrument.xsd, Sophis.dll, SphBasicDataGui.dll

2.12.h Swap Deals

Issue Number: 51651

The spread value for swaps can now be specified at trade level in the XML input.

Files affected: Sophis.dll, SphFinance.dll, SophisPortfolioGUI.dll

Chapter 3 Server Changes in 5.3.6.10

This chapter describes the changes made to the RISQUE API that affect the Sophis servers. These changes were made for the following servers:

- Calculation Server
  - *Corrected Bugs in the Calculation Server on page 544*
- Integration Service
  - *Corrected Bugs in Integration Service on page 544*
  - *Enhancements in Integration Service on page 545*
- Risk Management Module
  - *Corrected Bugs in the Risk Management Module on page 546*
  - *Enhancements in the Risk Management Module on page 547*

3.1 Upgraded Servers

The following servers were upgraded in this release:

- Core Services
- Integration Service for Websphere
- Memory Cache Server

3.2 Corrected Bugs in the Calculation Server

3.2.a P&L Attribution Rate Effect with Calculation Server

Issue Number: 67388

The **P&L Attribution** rate effect value was incorrect if the following occurred:

- The Calculation Server was used.
- The site defined for the Calculation Server was different than the site defined in the **Site** text box on the **Display** tab on the **Preferences** dialog box.

As of this release, Calculation Server uses the site defined for the RISQUE user.

Files affected: Sophis.dll

3.3 Corrected Bugs in Integration Service

3.3.a Exporting and Importing Trades Using XML

Issue Number: 62497

The **Net Amount** text box on the **Deal Input** window was incorrectly displayed as negative if the following occurred:

- A trade was created in the Integration Service where the values in the **Quantity** and **Price** text boxes on the **Deal Input** window were negative.
- The trade was then reimported.

Files affected: Sophis.dll

3.3.b Forex Swap Forward Leg Third Parties

Issue Number: 67030

The forward leg `counterparty`, `broker` and `Depositary` XML element contents were null if a forex swap was created using the Integration Service.

Files affected: Sophis.dll

3.3.c Integration Service Paying Leg

Issue Number: 57967

It was not possible to edit the value in the **Accrued Amount** text box for the paying leg on the **Deal Input** window. This occurred if a trade was created either by an XML copy-and-paste operation or by using the Integration Service.

As of this release, the `payingAmount2` and `receivingAmount2` elements have been added to **`trade.xsd`**. This enables you to edit the **Accrued Amount** text box value.

- If receiving leg accrued coupon > 0:

  `payingAmount` = receiving accrued coupon

  `receivingAmount` = 0
- If receiving leg accrued coupon <= 0:

  `payingAmount` = 0

  `receivingAmount` = receiving accrued coupon
- If paying leg accrued coupon > 0 (only for swaps):

  `payingAmount2` = 0

  `receivingAmount2` = paying accrued coupon
- If paying leg accrued coupon <= 0 (only for swaps):

  `payingAmount2` = paying accrued coupon

  `receivingAmount2` = 0

Files affected: trade.xsd, Sophis.dll

3.4 Enhancements in Integration Service

3.4.a Basket Swap Values Update

Issue Number: 67721

Only instrument changes can now be specified in the input XML, instead of the entire instrument, if a basket adjustment is performed on a basket swap instrument.

Book Affected: Integration Service User Guide

Files affected: instrument.xsd, SphFinance.dll, Sophis.dll

3.4.b BO Remarks Element

Issue Number: 66136

There is now an optional element called boComment in **trade.xsd**. This element contains the contents of the **BO Remarks** text box on the **Deal Input** window.

Files affected: Sophis.dll, trade.xsd

3.4.c Support for TRS Lifecycle

Issue Number: 56457

Total return swap and price return swap adjustment and expiry can now be specified in the XML.

Book Affected: Integration Service User Guide

Files affected: instrument.xsd, trade.xsd

3.4.d underlyerAdjustmentDataFlavour Element

Issue Number: 67781, 67782

A new XML element, underlyerAdjustmentDataFlavour, has been added. The options for this element are as follows:

- DeleteLast — specifies that the latest basket adjustment performed on a basket swap is deleted.
- NewByDifference — specifies that the total stock quantity is recalculated if the contents of the openUnits element is modified in the input XML.

Book Affected: Integration Service User Guide

Files affected: instrument.xsd, SphFinance.dll, Sophis.dll

3.5 Corrected Bugs in the Risk Management Module

3.5.a Movement Delta New for Moved Positions

Issue Number: 66992

The **Movement Delta New** value in the **Movement Delta PnL Attribution** scenario was incorrect for a position if the following occurred:

- The position was created before the End of Year procedure was run.
- The position was moved from one portfolio to another.

This issue occurred because all deals were taken into account instead of only the deals with a trade date after the End of Year date.

Files affected: SphPortfolio.dll

3.6 Enhancements in the Risk Management Module

3.6.a Movement Delta P&L Attribution

Issue Number: 67394

The performance of the **Movement Delta P&L Attribution** scenario has been improved.

Files affected: SphPortfolio.dll

Chapter 4 Toolkit Changes in 5.3.6.10

This chapter describes the toolkit changes in RISQUE 5.3.6.10. These changes were made in the following areas:

- *Corrected Bugs on page 549*
- *Enhancements on page 550*
- *Additions and Alterations on page 550*

Important You must recompile your Toolkit projects against the new API.

4.1 Corrected Bugs

4.1.a Depository Identifier

Issue Number: 66002

The identifier of the depository was incorrectly set to zero if the **Deal Input** dialog box was displayed. This issue occurred because the **Depository** drop-down list was duplicated by the toolkit.

Files affected: SphPortfolioGUI.dll

4.2 Enhancements

4.2.a Updating the SM/DT and Payment Method

Issue Number: 63738

The **SM/DT** and **Payment Method** drop-down lists on the **Stock Loan / Repo Input** window can now be updated from the `ISRPaymentMthdGuiDepositary` object.

Files affected: SphPortfolioGUI.dll, Sophis.dll, SphPaymentMthdGUIOverloader.h

4.2.b CSRStockLoanResultColumn::GetStockLoanCell

Issue Number: 62662

The following data is now returned when the method `CSRStockLoanResultColumn::GetStockLoanCell` is called:

- Reporting date
- Update time
- Stock loan agreement

Files affected: SphCollateral.dll, SphCollateralGUI.dll, SphStockLoanResultColumn.h

4.3 Additions and Alterations

Changes were made in the following namespaces:

- *collateral on page 551*
- *commodity on page 553*
- *finance on page 553*
- *gui on page 556*
- *instrument on page 556*
- *portfolio on page 557*
- *static_data on page 558*
- *sophis on page 558*

4.3.a collateral

SphCFDReportingAPI.h

The following were added to the struct `CFDReportIndicatorDetails`:

- `long fDefaultCollateralLastMarginDate`
- `double fDefaultCollateralBalance`

The following were added:

- `long GetDefaultCollateralLastMarginDate() const`
- `double GetDefaultCollateralBalance() const`
- `long fDefaultCollateralLastMarginDate`
- `double fDefaultCollateralBalance`

SphCFDResult.h

The following were changed:

- `void Compute`

The following were added:

- `double fCFDFolioResult`
- `double fCFDFolioBalance`
- `double fForexUnderlyingToLBA`
- `double fForexCFDtoLBA`
- `bool fFeesInAveragePrice`
- `double fTransactionFees`
- `double fCFDPerformance`
- `double fBalance`
- `double fCFDNotional`
- `double fInterestUnsettled`
- `double fFeesUnsettled`
- `double fCashDepositUnsettled`
- `double fInterestYesterday`
- `double fInterestPaidToday`
- `double GetCFDNotional() const { return fCFDNotional; }`
- `bool IsFeesInAveragePrice() const { return fFeesInAveragePrice; }`
- `double GetInterestYesterday() const { return fInterestYesterday;}`
- `double GetInterestPaidToday() const { return fInterestPaidToday;}`
- `double GetForexUnderlyingToLBA() const { return fForexUnderlyingToLBA; }`
- `double GetForexCFDtoLBA() const { return fForexCFDtoLBA; }`
- `double GetOneDayAccruedInterest() const;`
- `double GetBalance() const { return fBalance; }`

- double GetCashDepositUnsettled() const { return fCashDepositUnsettled; }
- double GetTotalInterest() const { return fInterestSettled + fInterestAccrued + fInterestUnsettled + fTotalFees; }
- double GetInterestUnsettled() const
- double GetCFDFolioResult() const { return fCFDFolioResult; }
- double GetCFDFolioBalance() const { return fCFDFolioBalance; }
- double GetMtMExposure()
- double GetTransactionFees() const { return fTransactionFees; }
- double GetCFDPerformance() const { return fCFDPerformance; }
- long GetReportingDate() const { return fReportingDate; }
- double GetMtMExposureHdr(const CSRCFDResult *parent = NULL)
- double GetCFDPerformanceHdr(const CSRCFDResult *parent= NULL)
- double GetCFDAndCollatInterestHdr(const CSRCFDResult *parent = NULL)
- double GetTransactionFeesHdr(const CSRCFDResult *parent = NULL)
- double GetFreeCashInterestHdr(const CSRCFDResult *parent = NULL)

The following were removed:

- double fForexValue
- double fForexCFD
- double fCashFromNotYetGeneratedCashpoolTicket
- double GetForexValue() const { return fForexValue; }
- double GetCFDForexValue() const { return fForexCFD; }
- double GetTotalInterest() const { return fInterestSettled + fInterestAccrued; }
- double GetCashFromNotYetGeneratedCashpoolTicket() const
- double GetTotalUnrealized()
- double GetTotalUnrealizedHdr(const CSRCFDResult *parent = NULL)

SphGlobalMarginCallDialog.h

The following were changed:

- virtual void SetMarginCallValue
- virtual void SetMarginCallInCollatCcy
- virtual void SetNetAmountTotal

SphCollateralLimitResult.h

The following was removed:

- double GetNetMarginCallInRefCcy() const

SphStockLoanResult.h

The following was removed:

- `double GetNetMarginCallInRefCcy() const`

SphStockLoanResultColumn.h

The following was added:

- `class SOPHIS_COLLATERAL ISRStockLoanResultExtra`

4.3.b commodity

SphGSCIIndex.h

The following was added:

- `virtual bool HasAFormulaForSpot() const`

4.3.c finance

The following were added to this namespace:

- **SphPriceReturnSwap.h**

SphBasketSwap.h

The following were added:

- `struct SOPHIS_FINANCE IncreaseDecreseForReporting`
- `static double GetForexInToBasketCcyOrder(double fixing_value, long ccy, long refccy, sophis::instrument::eForexOrder forexOrder)`
- `double fSpread`
- `long fForexOrder`
- `double fDisplayFxFixing`
- `double  fAdj_fixing`
- `long  fSpread_Adj`
- `mutable double fSpotInSwapCurrency`
- `mutable double fAdjSpotInSwapCurrency`
- `enum eTRSReportingMethod`
- `eTRSReportingMethod GetReportingMethod() const`
- `void SetReportingMethod (eTRSReportingMethod reportingMethod)`
- `sophis::instrument::ePRSFundingType GetPRSFundingType() const`
- `void SetPRSFundingType(sophis::instrument::ePRSFundingType fundingType)`

- `virtual void UpdateFromDescription(const tools::dataModel::DataSet& dataSet)`
- `virtual void GetDescription(tools::dataModel::DataSet& dataSet) const`
- `virtual void AdjustBasketFromDescription(const tools::dataModel::DataSet& legDataSet)`
- `virtual bool IsBasketSwapSpreadModification`
- `bool fIsPriceReturnSwap`

The following were removed:

- `class SOPHIS_FINANCE CSRNominalRedeemed`
- `mutable double fSpotInSwapCurrency`
- `double fFx_fixing`
- `void init`
- `bool fIsResetDate`
- `long fInterestDayCount`
- `double fInterestFixing`
- `virtual void UpdateBasketFromDescription(const tools::dataModel::DataSet& legDataSet)`
- `virtual void UpdateImportedBasketSwapTransaction(sophis::portfolio::CSRTransaction& tr) const`
- `virtual bool IsBasketSwapInitialTransaction(const sophis::portfolio::CSRTransaction& tr) const`

The following were added to the struct `SOPHIS_FINANCE ChangeCompositionOutput`:

- `bool canBeDeleted(bool resetData)`
- `double fNewNotionalForFinancing`
- `double fNewAverageSpread`
- `IncreaseDecreseForReporting fNotionalMgt`

The following was removed from the struct `SOPHIS_FINANCE ChangeCompositionOutput`:

- `double fRedeemedNotional`

The following were changed:

- `void ChangeComposition`
- `double GetNotional`
- `void  GetForwardPrice`
- `struct SOPHIS_FINANCE DetailledCalculationMap : public DetailledCalculationWithAddedData, public BasketAdjustmentData, public _STL::map<long,DetailledCalculationWithAddedData>`
- `virtual void UpdateImportedBasketSwapTransaction`
- `virtual bool IsBasketSwapInitialTransaction`
- `bool CADone`

The following were added to the struct `SOPHIS_FINANCE ChangeCompositionOutputMap : public ComponentDetails::ChangeCompositionOutput,public _STL::map<long,ComponentDetails::ChangeCompositionOutput>`:

- `void CleanForNextStep`

The following were added to the struct `SOPHIS_FINANCE DetailledCalculation`:

- `double fAveragePriceMtM`
- `double fNotionalEq`
- `double fAvgSpreadEq`
- `double fNotionalFina`
- `double fRealizedPaidSpreadEq`
- `double fRealizedPaidFloatingEq`
- `double fRealizedUnpaidSpreadEq`
- `double fRealizedUnpaidFloatingEq`
- `double fAccruedSpreadEq`
- `double fAccruedFloatingEq`
- `double fSpreadDiscountedEq`
- `double fFloatedDiscountedEq`
- `double fRealizedPaidSpreadFina`
- `double fRealizedPaidFloatingFina`
- `double fRealizedUnpaidSpreadFina`
- `double fRealizedUnpaidFloatingFina`
- `double fAccruedSpreadFina`
- `double fAccruedFloatingFina`
- `double fSpreadDiscountedFina`
- `double fFloatedDiscountedFina`
- `double fSpreadFinancingEq`
- `double fFloatingFinancingEq`
- `double fSpreadFinancingFina`
- `double fFloatingFinancingFina`

The following were removed from the struct `SOPHIS_FINANCE DetailledCalculation`:

- `double fCurrentNotional`
- `double fRealizedPaidSpread`
- `double fRealizedPaidFloating`
- `double fRealizedUnpaidSpread`
- `double fRealizedUnpaidFloating`
- `double fAccruedSpread`
- `double fAccruedFloating`
- `double fSpreadDiscounted`
- `double fFloatedDiscounted`

- double fSpreadFinancing
- double fFloatingFinancing

The following were added to the struct SOPHIS_FINANCE DetailledCalculationWithAddedData : public DetailledCalculation:

- double fAdjFixing
- bool fIsSpreadResetted
- double fSpread
- long fInterestDayCount

The following were removed from the struct struct SOPHIS_FINANCE DetailledCalculationWithAddedData : public DetailledCalculation:

- void init(const DetailledCalculation &term, const BasketAdjustmentData& adjData)
- bool fIsResetDate
- long fInterestDayCount
- double fInterestFixing

4.3.d gui

SphInstrumentDialog.h

The following were changed from private to public:

- TDlog **fDlog2
- sophis::market_data::SSYieldCurve *(*newSSYieldCurve)(TDlog **)

4.3.e instrument

SphForexSpot.h

The following was added:

- virtual CSRInstrument* Clone() const

SphLoanAndRepo.h

The following were added to the enum eCFDCalculationMethod:

- ccmUnrealizedOnResetNoNotional
- ccmFeesNoNotionalAveragePriceInReset
- ccmFeesNoNotionalResetWithPayNoReal
- ccmFeesNoNotionalAveragePriceInResetCashpool
- ccmFeesNoNotionalOnlyWhenShort
- ccmFeesNoNotionalRealizedAtReset

- `ccmFeesNoNotionalNoResetNoRealized`
- `ccmFeesNoNotionalRealizedAtResetCashpool`

The following was added:

- `double GetDividendRate`

SphSwap.h

The following was added:

- `virtual bool IsPriceReturnSwap() const`

SphSwapEnums.h

The following was added:

- `enum ePRSFundingType`

4.3.f portfolio

SphGenericTradeBlotter.h

The following was added:

- `int GetDefaultBookingEntity() const`

SphPaymentMthdGUI.h

The following were changed:

- `void InitPaymentMethodItems`
- `void OnDepositaryAction`
- `void OnDepositaryOfCounterpartyAction`
- `void UpdateDepositaryOfCounterpartyMenu`
- `void UpdateSMDTMenu`
- `MenuHandle GetSMDTMenu`

SphPaymentMthdGuiUserOverloader.h

The following was changed:

- `virtual void Override`

SphScenarioGroup.h

`class CSRScenarioGroup : public CSRScenario` was changed to `class SOPHIS_PORTFOLIO CSRScenarioGroup : public CSRScenario`.

4.3.g static_data

SphInterestRate.h

The following were added to struct `SSCouponCalculation`:

- `bool fShortNotional`
- `SOPHIS_FIT SSCouponCalculation`

The following was added:

- `bool SetShortIndex`

4.3.h sophis

SphUserRightsEnum.h

The following were added to the enum `eAccessRightType`:

- `arEditDelayBeforePassword`
- `arCustomizeMenusAndToolbars`

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Symbols

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