
NLCS 2020 – Log File B

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1. Introduction

This NLCS_2020_LogFile_B presents the detailed technical specification for survey B of the NLCS 2020. As such, it is intended to be read in conjunction with

- NLCS_2020_Introduction (for general, high-level objectives and guidance) and
- NLCS_2020_LogFile_A (for qualitative and quantitative information)

In particular surveys A and B need to be filled consistently while recognising the general guidance of the introduction.

Submission need to be consistent between survey a survey A and the diversification exercise. For support on this please refer to NLCS_2020_Cross_Template Validation.

2. General tabs

The general tabs collect general information on the submission as well as the undertaking (GEN_INF), the segmentation of the LoBs (GEN_SEG) and an overview of the validation checks (GEN_VAL).

2.1. GEN_INF: General Information on Submission

Collection of general information for the exercise. This includes qualitative information related to the model set-up. This information will be used in the other tabs to differentiate between different model types. Data is defined such that it can be compared across all model types. However not all information will be requested to all undertakings. Information not to be filled in will be greyed out.

Furthermore, this information tab indicates which modelled region is considered in the data transmitted. **One excel file per geographical modelled region is expected to be transmitted plus one dedicated to the credit and suretyship business (QT_CS_) if relevant.**

This tab has two sub tables 01_01 that must be filled.

Table 1: GEN_INF_01_01

CODE	ITEM	INSTRUCTIONS
<i>Section: General submission information</i>		
R0010_C0010	Undertaking name -> as at YE 2020	The name of the undertaking at YE2020 (without legal suffixes like S.A., LTD., NV, A.S,...). For submissions prior to YE2020, please use the name at YE2020.
R0020_C0010	Undertaking identification code (Legal Entity Identifier - LEI) -> as at YE 2020	LEI code of the undertaking at YE2020. For submissions prior to YE2020, please use the LEI code at YE2020.
R0030_C0010	Reporting Reference Date	Reference date of the submitted data. Format DD/MM/YYYY
R0040_C0010	Submission date to NCA	Date when the template is sent to the NCA by the undertaking. Format DD/MM/YYYY.
R0050_C0010	Submission date to NLCS PG	Date when the template is sent to the NLCS PG by the NCA Format DD/MM/YYYY
R0060_C0010	Country of authorisation	Country of authorisation of the undertaking. Select the country from the closed list: <ul style="list-style-type: none"> - AT – Austria - BE – Belgium - BG – Bulgaria - HR – Croatia - CZ – Czech Republic - DK – Denmark - EE – Estonia - FI – Finland - FR – France - DE – Germany - EL – Greece - HU – Hungary - IS – Iceland - IE – Ireland - IT – Italy - LT – Lithuania - LI – Liechtenstein - LV – Latvia - LU – Luxembourg - MT – Malta

		<ul style="list-style-type: none"> - NL – Netherlands - NO – Norway - PL – Poland - PT – Portugal - RO – Romania - SK – Slovakia - SL – Slovenia - ES – Spain - SE – Sweden - UK – United Kingdom - XX – Other (Select this option if none of the above countries is suitable. Provide a comment in cell R0060_C0020)
R0060_C0020	Additional comment opportunity (as needed)	Field to provide comments for cell R0060_C0010.
R0070_C0010	Reporting YEAREND	Year of reporting date. Options from a closed list: <ul style="list-style-type: none"> - 2018 - 2019 - 2020
R0080_C0010	Undertaking name -> as at reporting year	The name of the undertaking at reporting date (without legal suffixes like S.A., LTD., NV, A.S,...) as defined in cell R0030_C0010.
R0090_C0010	Undertaking identification code (Legal Entity Identifier - LEI) -> as at reporting year	LEI code of the undertaking at reporting date as defined in cell R0030_C0010.
<i>Model set-up</i>		
R0100_C0010	Is inflation risk related to non-life liabilities modelled within market risk or within non-life underwriting risks? Please comment if another approach is followed.	Please choose from the options of the closed list how non-life inflation is modelled within your internal model <ul style="list-style-type: none"> - Market risk - Non-Life Underwriting risk - Other
R0100_C0020	Additional comment opportunity (as needed)	Field to provide comments for cell R0100_C0010
R0110_C0010	Are expenses modelled in a separate module or within Premium and reserve risks? Please comment if another approach is followed.	Please choose from the options of the closed list how expenses are modelled within your internal model: <ul style="list-style-type: none"> - Separate expense risk module - Within premium and reserve risk - Other
R0110_C0020	Additional comment opportunity (as needed)	Field to provide comments for cell R0110_C0010
R0120_C0010	Are non-life annuities modelled in Life Underwriting risks or within Non-Life Underwriting risks? Please comment if another approach is followed.	Please choose from the options of the closed list how non-life annuities are modelled within your internal model: <ul style="list-style-type: none"> - Life underwriting risk - Non-Life underwriting risk - Other
R0120_C0020	Additional comment opportunity (as needed)	Field to provide comments for cell R0120_C0010
R0130_C0010	Is the Non-Life model based on Underwriting Years or Accident Years? Please comment if another approach is followed.	Please choose from the options of the closed list how non-life underwriting risks are modelled within your internal model: <ul style="list-style-type: none"> - Accident years (based on the moment the claim occurred)

		<ul style="list-style-type: none"> - Underwriting years (based on the moment the policy was underwritten) - Other (e.g. if you model some lobbs at UY and other lobbs at AY please give details for each lob in R0140_C0020)
R0130_C0020	Additional comment opportunity (as needed)	Field to provide comments for cell R0130_C0010
R0140_C0010	Is this template focused on the split of Premium or Credit risk Credit & Suretyship across its different products and (standardised) geographies (QT_CS_) or is it focused on the split of Non-Life UW risk across Premium, Reserve and CAT risk across all S2LoBs and CatPerils across modelled geographies (all other sheets)?	<p>As indicated above, one template is asked per modelled geography for the Non-Life data relevant to all S2LoBs and CatPerils and a specific additional template is asked for Credit and Suretyship. Here we ask to specify in which case you are.</p> <p>Please choose from the options of the closed list what data is transmitted:</p> <ul style="list-style-type: none"> - Non-Life Underwriting risk (across all S2 LoBs, CatPerils and geographies) (Only tabs GEN_INF, GEN_VAL, QT_STAND_GROSS_, QT_AY_GROSS_, QT_UY_GROSS_, QT_STAND_NET_, QT_AY_NET_, QT_UY_NET_, QL_RP_ and QL_MOD_ need to be filled in) - Premium or Credit risk Credit & Suretyship (across products and geographies) (Only tabs GEN_INF, GEN_VAL, QT_CS_ need to be filled in)
R0140_C0020	Additional comment opportunity (as needed)	Field to provide comments for cell R0140_C0010
R0150_C0010	If the model considers different geographical regions, could you indicate which risk location is considered in this template? Please comment if another approach is followed.	<p>Country of authorisation of the undertaking. Select the country from the closed list:</p> <ul style="list-style-type: none"> - Austria - Belgium - Bulgaria - Croatia - Czech Republic - Denmark - Estonia - Finland - France - Germany - Greece - Hungary - Iceland - Ireland - Italy - Latvia - Liechtenstein - Lithuania - Luxembourg - Malta - Netherlands - Norway - Poland - Portugal - Romania - Slovakia - Slovenia - Spain - Sweden - United Kingdom - Switzerland

		<ul style="list-style-type: none"> - Canada - United States of America - Bermuda - Mexico - China - Japan - South Korea - Australia - Northern Europe - Western Europe - Eastern Europe - Southern Europe - Central and Western Asia - Eastern Asia - South and South-Eastern Asia - Oceania - Northern Africa - Southern Africa - Northern America excluding the United States of America - Caribbean and Central America - Eastern South America - Northern, southern and western South America - North-east United States of America - South-east United States of America - Mid-west United States of America - Western United States of America - Europe - Asia - Africa - North America - South America - World Wide
R0150_C0020	Risk location code	The modelled risk location indicated in cell R0150_C0010 is transformed in a unique identifier
R0150_C0030	Additional comment opportunity (as needed)	Field to provide comments for cell R0150_C0010 (e.g. if multiple risk locations are concerned)

2.1. GEN_VAL: General Validation Checks

Overview on the score of the submission with respect to the NLCS expectation horizon on data quality. Details on the validation checks performed can be found in the respective tabs of the submission.

In order to ease the submission process, validation checks are implemented in the survey with transparent formulas but are not documented. The participants are expected to review the outcomes of these checks.

Details on the validation checks performed can be found in the respective tabs of the submission.

However, participants remain responsible for the completion and quality of their submission.

Validation checks project the expectation of the NLCS PG towards the completion of the survey. Compliance with these expectations will be used in the context of quality-control and acceptance process of the submission.

Table 2: GEN_VAL_01_01

CODE	ITEM	INSTRUCTIONS
Errors: The general expectation is that these validations must be complied with. In exceptional circumstances however validations may be justified		
R0010/R0040	Undertaking comment	Comment on the outcome of the validation checks and provide a concise explanation.
R0020/R0050	NCA comment	Cell reserved to the NCA to provide further information on the provided comment.
R0030/R0060	NLCS PG comment	Cell reserved to the NLCS PG.

3. Quantitative tabs

These tabs (starting by QT_) collect quantitative information:

- QT_STAND_GROSS_ collects gross Non-Life simulation data and related statistical metrics in a standardised manner
- QT_AY_GROSS_ collects gross Non-Life simulation data and related statistical metrics for Per Accident Year models
- QT_UY_GROSS_ collects gross Non-Life simulation data and related statistical metrics for Per Underwriting Year models
- QT_STAND_NET_ collects net Non-Life simulation data and related statistical metrics in a standardised manner
- QT_AY_NET_ collects net Non-Life simulation data and related statistical metrics for Per Accident Year models
- QT_UY_NET_ collects net Non-Life simulation data and related statistical metrics for Per Underwriting Year models

The data should be consistent across the different tabs on a simulation by simulation basis and in terms of allocation to the S2 LoBs and geographies.

In the following quantitative tabs we are asking simulation data with Value under a Monte Carlo scenario; in general the templates should be filled in considering marginal distributions after application of the dependency structure. In this manner, for example, the total reserve risk distribution, will be a sum of the Lines of Business on a sim by sim basis.

This means very concretely that:

$$\begin{aligned}
 &22^{\text{nd}} \text{ Simulation Total reserve risk} = \\
 &\quad 22^{\text{nd}} \text{ Simulation reserve risk Medical expense insurance} + \\
 &\quad 22^{\text{nd}} \text{ Simulation reserve risk Income protection insurance} + \\
 &\quad \dots + \\
 &\quad 22^{\text{nd}} \text{ Simulation reserve risk Non-proportional property reinsurance}
 \end{aligned}$$

3.1. QT_STAND_GROSS_: Standardised Gross Simulation data

This tab provides simulation data related to the gross non-life underwriting risk broken down between Natural Catastrophe risks and Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT). For natural catastrophe risks a further split between the different perils is asked. Furthermore, for Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) a split between Solvency 2 Lines of Business ((S2LoB) as defined in Annex I of the Delegated Regulation) is requested and a further split between subrisks per Line of Business.

The simulation data is loaded automatically from the sheets related to Per Underwriting Year and Per Accident Year models.

Table 3: QT_STAND_GROSS_ overview

	Aggregate	Aggregate Non-Life Underwriting risk	Aggregate Health Underwriting risk
Statistical metrics	R0010-R0060_C0010	R0010-R0060_C0020-C0070	R0010-R0060_C0080-C0140
Simulation Data	R0070-R0130_C0010	R0070-R0130_C0020-C0070	R0070-R0130_C0080-C0140

	Natural Catastrophe risks (Split per Peril)	Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) (Split per S2LoB and per sub-risk)
Statistical metrics	R0010-R0060_C0150-C0210	R0010-R0060_C0220-C1050
Simulation Data	R0070-R0130_C0150-C0210	R0070-R0130_C0220-C1050

Table 4: QT_STAND_GROSS

CODE	ITEM	INSTRUCTIONS
Aggregate		
C0010	Total	Total Underwriting risk related to Non-Life and Health Liabilities. This column should equal the sum of the Aggregate Non-Life (C0020) and Aggregate Health risks (C0080) on a sim by sim basis (R0070-R0130)
Aggregate Non-Life		
C0020	Total Non-Life Underwriting risk	Total Non-Life Underwriting risk. This column should equal the sum of the sub-risk (C0030-C0070) on a sim by sim basis
C0030	Non-Life Reserve risk	Total Non-Life reserve risk (incl. Man-Made CAT). This column should equal the sum of the Reserve risk per S2LoB across all Non-Life LoBs on a sim by sim basis This subrisk is defined precisely below.
C0040	Non-Life Premium risk (incl. Man-Made CAT)	Total Non-Life Premium risk (incl. Man-Made CAT). This column should equal the sum of the Premium risk (incl. Man-Made CAT) risk per S2LoB across all Non-Life LoBs on a sim by sim basis This subrisk is defined precisely below.
C0050	Natural Catastrophe risk	This column should equal the Aggregate Natural Catastrophe risk (C0150) on a sim by sim basis
C0060	Overhead expense risk Non-Life Liabilities	Overhead expenses modelled on an aggregate level (across all S2LoBs) within the Non-Life underwriting risk related to Non-Life liabilities
C0070	Other Non-Life Underwriting risks	Other Non-Life Underwriting risks not captured in C0030-C0060
Aggregate Health		
C0080	Total Health Underwriting risk	Total Health Underwriting risk. This column should equal the sum of the sub-risk (C0090-C0140) on a sim by sim basis
C0090	Health NSLT Reserve risk	Total Health NSLT reserve risk. This column should equal the sum of the Reserve risk per S2LoB across all Health LoBs on a sim by sim basis This subrisk is defined precisely below.
C0100	Health NSLT Premium risk (incl. Man-Made CAT)	Total Health NSLT Premium risk (incl. Man-Made CAT). This column should equal the sum of the Premium risk (incl. Man-Made CAT) risk per S2LoB across all Health LoBs on a sim by sim basis This subrisk is defined precisely below.
C0110	Life Underwriting risks Health Liabilities	Life Underwriting risks Health Liabilities
C0120	Health Catastrophe risk	Health Catastrophe risk
C0130	Overhead expense risk Health NSLT Liabilities	Overhead expenses modelled on an aggregate level (across all S2LoBs) within the Non-Life underwriting risk related to Health NSLT liabilities
C0140	Other Health risks	Other Health risks (not included in C0090-C0130)

Natural Catastrophe risks		
C0150-C0210	Natural Catastrophe risk	Data for Natural Catastrophe risks split between Perils.
Natural Catastrophe risks split between perils		
C0150	Aggregate Natural Catastrophe risk	Total Natural Catastrophe risks across all CatPerils. This column should equal the sum of the Natural Catastrophe Perils on a sim by sim basis.
C0160	Windstorm	These categories are defined in article 120 of the Delegated Regulation.
C0170	Earthquake	
C0180	Flood	
C0190	Hail	
C0200	Subsidence	
C0210	Combination	
C0220	Other Natural Catastrophe perils	Other Natural Catastrophe perils modelled beyond the categories defined in article 120 of the Delegated Regulation
Non-Life and Healt-NLST premium and reserve risks (incl. Man-Made CAT)		
C0230-C1060	Non-Life and Healt-NLST premium and reserve risks (incl. Man-Made CAT)	Data for Non-Life and Healt-NLST premium and reserve risks (incl. Man-Made CAT) split between S2LoBs and sub-risks.
Split Non-Life and Healt-NLST premium and reserve risks (incl. Man-Made CAT) between sub-risks		
C0230, C0260, ..., C1040	Total	Total Non-Life and Healt-NLST premium and reserve risks (incl. Man-Made CAT) per S2LoB. This column should equal the sum of the subrisks per S2LoB on a sim by sim basis: <ul style="list-style-type: none"> - Reserve risk - Premium risk (including Man-Made CAT risk)
C0240, C0270, ..., C1050	Reserve risk	Reserve risk is the uncertainty related to past accident years
C0250, C0280, ..., C1060	Premium risk (including Man-Made CAT risk)	Premium risk is the uncertainty related to future accident years excluding natural catastrophe risks, but including man-made catastrophe risks
Split Non-Life and Healt-NLST premium and reserve risks (incl. Man-Made CAT) between Solvency 2 Lines of Business		
C0230 - C0250	Medical expense insurance (NL obligations)	Solvency 2 Lines of Business defined in line with Annex I of the Delegated Regulation
C0260 - C0280	Income protection insurance (NL obligations)	
C0290 - C0310	Workers' compensation insurance (NL obligations)	
C0320 - C0340	Motor vehicle liability insurance (NL obligations)	
C0350 - C0370	Other motor insurance (NL obligations)	
C0380 - C0400	Marine, aviation and transport insurance (NL obligations)	
C0410 - C0430	Fire and other damage to property insurance (NL obligations)	
C0440 - C0460	General liability insurance (NL obligations)	
C0470 - C0490	Credit and suretyship insurance (NL obligations)	
C0500 - C0520	Legal expenses insurance (NL obligations)	
C0530 - C0550	Assistance (NL obligations)	

C0560 - C0580	Miscellaneous financial loss (NL obligations)	
C0590 - C0610	Medical expense insurance (Proportional NL reinsurance)	
C0620 - C0640	Income protection insurance (Proportional NL reinsurance)	
C0650 - C0670	Workers' compensation insurance (Proportional NL reinsurance)	
C0680 - C0700	Motor vehicle liability insurance (Proportional NL reinsurance)	
C0710 - C0730	Other motor insurance (Proportional NL reinsurance)	
C0740 - C0760	Marine, aviation and transport insurance (Proportional NL reinsurance)	
C0770 - C0790	Fire and other damage to property insurance (Proportional NL reinsurance)	
C0800 - C0820	General liability insurance (Proportional NL reinsurance)	
C0830 - C0850	Credit and suretyship insurance (Proportional NL reinsurance)	
C0860 - C0880	Legal expenses insurance (Proportional NL reinsurance)	
C0890 - C0910	Assistance (Proportional NL reinsurance)	
C0920 - C0940	Miscellaneous financial loss (Proportional NL reinsurance)	
C0950 - C0970	Non-proportional health reinsurance	
C0980 - C1000	Non-proportional casualty reinsurance	
C1010 - C1030	Non-proportional marine, aviation and transport reinsurance	
C1040 - C1060	Non-proportional property reinsurance	
Statistical metrics		
R0010	Expected result at t=1, supposed to be the mean value of the distribution	Expected result at t=1 gross of reinsurance, supposed to be the mean value of the distribution. This should be consistent with the average value from the simulation data (R0070-R0130 (possibly expanded))
R0020	99.5% quantile of the distribution	99.5% quantile of the Profit and Loss distribution gross of reinsurance. This should be consistent with the relevant percentile from the simulation data (R0070-R0130 (possibly expanded))
R0030	Is the expected profit deducted for calculating the SCR	Please choose from the options of the closed list if the expected profit is deducted for calculating the SCR: - Yes - No
R0040	Is simulation data available?	Please choose from the options of the closed list if the simulation data is available: - Yes - No
R0050	Is the risk modelled in the Internal Model or the Standard Formula?	Please choose from the options of the closed list if the risk is modelled in the Internal Model or the Standard Formula: - Internal Model - Standard Formula

		- Other (e.g. part is in the Standard Formula and part in the Internal Model) If only part of a S2LoB, Peril or geographical region is modelled in the (partial) internal model and another part is considered under the standard formula, please fill in the internal model data.
R0060	Modelled Value-at-Risk (VaR) of the distribution	Modelled Value at Risk. This quantity should be in line with SCR definition the undertaking uses. The undertaking should deduct the expected profit in line with its own SCR definition and should apply a smoothing algorithm if relevant for the own SCR
Simulation Data		
R0070-R0130 (possibly expanded)	Simulation Data	Value under a Monte Carlo scenario of the Gross Profit & Loss of the internal model related to the relevant column without centering the distribution based on the Expected Profit. The number of rows should be extended to the number of simulation used in an official run. This data will be loaded automatically from the tabs QT_AY_GROSS_ and QT_UY_GROSS_.

3.2. QT_AY_GROSS_: Gross Simulation Data from Per Accident Year models

This tab provides simulation data related to the gross non-life underwriting risk broken down between Natural Catastrophe risks and Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT). For natural catastrophe risks a further split between the different perils is asked. Furthermore, for Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) a split between Solvency 2 Lines of Business ((S2LoB) as defined in Annex I of the Delegated Regulation) is requested and a further split between subrisks per Line of Business.

Table 5: QT_AY_GROSS_ overview

	Aggregate Non-Life Underwriting risk	Natural Catastrophe risks (Split per Peril)	Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) (Split per S2LoB and per sub-risk)
Statistical metrics	R0010-R0060_C0010-C0170	R0010-R0060_C0180-C0240	R0010-R0060_C0250-C3040
Simulation Data	R0070-R0130_C0010-C0170	R0070-R0130_C0180-C0240	R0070-R0130_C0250-C3040

Table 6: QT_AY_GROSS_

CODE	ITEM	INSTRUCTIONS
Aggregate		
C0010	Total	Total Underwriting risk related to Non-Life and Health Liabilities. This column should equal the sum of the sub-risks (C0020-C0170) on a sim by sim basis
C0020	Reserve risk	Total reserve risk. This column should equal the sum of the Reserve risk per S2LoB on a sim by sim basis (C0260, C0360, ..., C2960)

		This subrisk is defined precisely below.
C0030	Premium risk	Total premium risk. This column should equal the sum of the Premium risk per S2LoB on a sim by sim basis (C0270, C0370, ..., C2970) This subrisk is defined precisely below.
C0040	Man-Made CAT risk	Total Man-Made CAT risk. This column should equal the sum of the Man-Made CAT risk per S2LoB on a sim by sim basis (C0280, C0380, ..., C2980) This subrisk is defined precisely below.
C0050	Inflation risk from Reserve risk	Total Inflation risk from Reserve risk. This column should equal the sum of the Inflation risk from Reserve risk per S2LoB on a sim by sim basis (C0290, C0390, ..., C2990) This subrisk is defined precisely below.
C0060	Inflation risk from Premium risk	Total Inflation risk from Premium risk. This column should equal the sum of the Inflation risk from Premium risk per S2LoB on a sim by sim basis (C0300, C0400, ..., C3000) This subrisk is defined precisely below.
C0070	Expense risk from Reserve risk	Total Expense risk from Reserve risk. This column should equal the sum of the Expense risk from Reserve risk per S2LoB on a sim by sim basis (C0310, C0410, ..., C3010) This subrisk is defined precisely below.
C0080	Expense risk from Premium risk	Total Expense risk from Premium risk. This column should equal the sum of the Expense risk from Premium risk per S2LoB on a sim by sim basis (C0320, C0420, ..., C3020) This subrisk is defined precisely below.
C0090	Life UW risks from RBNS and IBNR Annuities	Total Life UW risks from RBNS and IBNR Annuities. This column should equal the sum of the Life UW risks from RBNS and IBNR Annuities per S2LoB on a sim by sim basis (C0330, C0430, ..., C3030) This subrisk is defined precisely below.
C0100	Life UW risks from UPR, BBNI and Future Annuities	Total Life UW risks from UPR, BBNI and Future Annuities. This column should equal the sum of the Life UW risks from UPR, BBNI and Future Annuities per S2LoB on a sim by sim basis (C0340, C0440, ..., C3040) This subrisk is defined precisely below.
C0110	Natural Catastrophe risk	This column should equal the Aggregate Natural Catastrophe risk (C0180) on a sim by sim basis
C0120	Overhead expense risk Non-Life Liabilities	Overhead expenses modelled on an aggregate level (across all S2LoBs) within the Non-Life underwriting risk related to Non-Life liabilities
C0130	Overhead expense risk Health NSLT Liabilities	Overhead expenses modelled on an aggregate level (across all S2LoBs) within the Non-Life underwriting risk related to Health NSLT liabilities
C0140	Other Non-Life Underwriting risks	Other Non-Life Underwriting risks not captured within the other subrisks (C0020-C0130)
C0150	Life Underwriting risks Health Liabilities	Life Underwriting risks related to Health Liabilities

C0160	Health Catastrophe risk	Health Catastrophe risks
C0170	Other Health risks	Other Non-Life Underwriting risks not captured within the other subrisks (C0020-C0160)
Natural Catastrophe risks		
C0180-C0240	Natural Catastrophe risk	Data for Natural Catastrophe risks split between Perils.
Natural Catastrophe risks split between perils		
C0180	Aggregate Natural Catastrophe risk	Total Natural Catastrophe risks across all CatPerils. This column should equal the sum of the Natural Catastrophe Perils on a sim by sim basis.
C0190	Windstorm	These categories are defined in article 120 of the Delegated Regulation.
C0200	Earthquake	
C0210	Flood	
C0220	Hail	
C0230	Subsidence	
C0240	Combination	A combination of the Perils above (C0190-C0230)
C0250	Other Natural Catastrophe perils	Other Natural Catastrophe perils modelled beyond the categories defined in article 120 of the Delegated Regulation
Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT)		
C0260-C3050	Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT)	Data for Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) split between S2LoBs and sub-risks.
Split Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) between sub-risks		
C0260, C0360, ..., C2960	Total	Total Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) per S2LoB. This column should equal the sum of the subrisks per S2LoB on a sim by sim basis: <ul style="list-style-type: none"> - Reserve risk - Premium risk - Man-Made CAT risk - Inflation risk from Reserve risk - Inflation risk from Premium risk - Expense risk from Reserve risk - Expense risk from Premium risk - Life UW risks from RBNS and IBNR Annuities - Life UW risks from UPR, BBNI and Future Annuities
C0270, C0370, ..., C2970	Reserve risk	Reserve risk is the uncertainty related to past accident years
C0280, C0380, ..., C2980	Premium risk	Premium risk is the uncertainty related to future accident years excluding catastrophe risks
C0290, C0390, ..., C2990	Man-Made CAT risk	Man-made catastrophe risk is the uncertainty related to future accident years for man-made catastrophes
C0300, C0400, ..., C3000	Inflation risk from Reserve risk	Inflation risk related to past accident years captured within market risk
C0310, C0410, ..., C3010	Inflation risk from Premium risk	Inflation risk related to future accident years captured within market risk
C0320, C0420, ..., C3020	Expense risk from Reserve risk	Expense risk related to past accident years in a separate expense risk module
C0330, C0430, ..., C3030	Expense risk from Premium risk	Expense risk related to future accident years in a separate expense risk module
C0340, C0440, ..., C3040	Life UW risks from RBNS and IBNR Annuities	Life Underwriting risks related to Non-Life annuities from past accident years not captured within the Non-Life module
C0350, C0450, ..., C3050	Life UW risks from UPR, BBNI and Future Annuities	Life Underwriting risks related to Non-Life annuities from future accident years not captured within the Non-Life module

Split Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) between Solvency 2 Lines of Business

C0260 - C0350	Medical expense insurance (NL obligations)	Solvency 2 Lines of Business defined in line with Annex I of the Delegated Regulation
C0360 - C0450	Income protection insurance (NL obligations)	
C0460 - C0550	Workers' compensation insurance (NL obligations)	
C0560 - C0650	Motor vehicle liability insurance (NL obligations)	
C0660 - C0750	Other motor insurance (NL obligations)	
C0760 - C0850	Marine, aviation and transport insurance (NL obligations)	
C0860 - C0950	Fire and other damage to property insurance (NL obligations)	
C0960 - C1050	General liability insurance (NL obligations)	
C1060 - C1150	Credit and suretyship insurance (NL obligations)	
C1160 - C1250	Legal expenses insurance (NL obligations)	
C1260 - C1350	Assistance (NL obligations)	
C1360 - C1450	Miscellaneous financial loss (NL obligations)	
C1460 - C1550	Medical expense insurance (Proportional NL reinsurance)	
C1560 - C1650	Income protection insurance (Proportional NL reinsurance)	
C1660 - C1750	Workers' compensation insurance (Proportional NL reinsurance)	
C1760 - C1850	Motor vehicle liability insurance (Proportional NL reinsurance)	
C1860 - C1950	Other motor insurance (Proportional NL reinsurance)	
C1960 - C2050	Marine, aviation and transport insurance (Proportional NL reinsurance)	
C2060 - C2150	Fire and other damage to property insurance (Proportional NL reinsurance)	
C2160 - C2250	General liability insurance (Proportional NL reinsurance)	
C2260 - C2350	Credit and suretyship insurance (Proportional NL reinsurance)	
C2360 - C2450	Legal expenses insurance (Proportional NL reinsurance)	
C2460 - C2550	Assistance (Proportional NL reinsurance)	
C2560 - C2650	Miscellaneous financial loss (Proportional NL reinsurance)	
C2660 - C2750	Non-proportional health reinsurance	
C2760 - C2850	Non-proportional casualty reinsurance	
C2860 - C2950	Non-proportional marine, aviation and transport reinsurance	
C2960 - C3050	Non-proportional property reinsurance	

<i>Statistical metrics</i>		
R0010	Expected result at t=1, supposed to be the mean value of the distribution	Expected result at t=1 gross of reinsurance, supposed to be the mean value of the distribution. This should be consistent with the average value from the simulation data (R0070-R0130 (possibly expanded))
R0020	99.5% quantile of the distribution	99.5% quantile of the Profit and Loss distribution gross of reinsurance. This should be consistent with the relevant percentile from the simulation data (R0070-R0130 (possibly expanded))
R0030	Is the expected profit deducted for calculating the SCR	Please choose from the options of the closed list if the expected profit is deducted for calculating the SCR: - Yes - No
R0040	Is simulation data available?	Please choose from the options of the closed list if the simulation data is available: - Yes - No
R0050	Is the risk modelled in the Internal Model or the Standard Formula?	Please choose from the options of the closed list if the risk is modelled in the Internal Model or the Standard Formula: - Internal Model - Standard Formula - Other (e.g. part is in the Standard Formula and part in the Internal Model) If only part of a S2LoB, Peril or geographical region is modelled in the (partial) internal model and another part is considered under the standard formula, please fill in the internal model data.
R0060	Modelled Value-at-Risk (VaR) of the distribution	Modelled Value at Risk. This quantity should be in line with SCR definition the undertaking uses. The undertaking should deduct the expected profit in line with its own SCR definition and should apply a smoothing algorithm if relevant for the own SCR
<i>Simulation Data</i>		
R0070-R0130	Simulation Data	Value under a Monte Carlo scenario of the Gross Profit & Loss of the internal model related to the relevant column without centering the distribution based on the Expected Profit. The number of rows should be extended to the number of simulation used in an official run.

3.3. QT_UY_GROSS_: Gross Simulation Data from Per Underwriting Year models

This tab provides simulation data related to the gross non-life underwriting risk broken down between Natural Catastrophe risks and Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT). For natural catastrophes a further split between the different perils is asked. Furthermore, for Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) a split between Solvency 2 Lines of Business ((S2LoB) as defined in Annex I of the Delegated Regulation) is requested and a further split between subrisks per Line of Business.

Table 7: QT_UY_GROSS_ overview

	Aggregate Non-Life Underwriting risk	Natural Catastrophe risks (Split per Peril)	Non-Life and Health-NLST premium and reserve risks (incl Man-Made CAT) (Split per S2LoB and per sub-risk)
Statistical metrics	R0010-R0060_C0010-C0210	R0010-R0060_C0220-C0280	R0010-R0060_C0290-C4200
Simulation Data	R0070-R0130_C0010-C0210	R0070-R0130_C0220-C0280	R0070-R0130_C0290-C4200

Table 8: QT_UY_GROSS_

CODE	ITEM	INSTRUCTIONS
<i>Aggregate</i>		
C0010	Total	Total Underwriting risk related to Non-Life and Health Liabilities. This column should equal the sum of the sub-risks (C0020-C0210) on a sim by sim basis
C0020	Earned Reserve risk	Total Earned Reserve risk. This column should equal the sum of the Earned Reserve risk per S2LoB on a sim by sim basis (C0300, C0440, ..., C04080) This subrisk is defined precisely below.
C0030	Unearned Reserve risk	Total Unearned Reserve risk. This column should equal the sum of the Unearned Reserve risk per S2LoB on a sim by sim basis (C0310, C0450, ..., C04090) This subrisk is defined precisely below.
C0040	Underwriting Non-CAT risk	Total Underwriting risk. This column should equal the sum of the Underwriting risk per S2LoB on a sim by sim basis (C0320, C0460, ..., C04100) This subrisk is defined precisely below.
C0050	Man-Made CAT risk	Total Man-Made CAT risk. This column should equal the sum of the Man-Made CAT risk per S2LoB on a sim by sim basis (C0330, C0470, ..., C04110) This subrisk is defined precisely below.
C0060	Inflation risk from Earned Reserve risk	Total Inflation risk from Earned Reserve risk. This column should equal the sum of the Inflation risk from Earned Reserve risk per S2LoB on a sim by sim basis (C0340, C0480, ..., C04120) This subrisk is defined precisely below.
C0070	Inflation risk from Unearned Reserve risk	Total Inflation risk from Unearned Reserve risk. This column should equal the sum of the Inflation risk from Unearned Reserve risk per S2LoB on a sim by sim basis (C0350, C0490, ..., C04130) This subrisk is defined precisely below.
C0080	Inflation risk from Underwriting Non-CAT risk	Total Inflation risk from Underwriting risk. This column should equal the sum of the Inflation risk from Underwriting risk per S2LoB on a sim by sim basis (C0360, C0500, ..., C04140) This subrisk is defined precisely below.
C0090	Expense risk from Earned Reserve risk	Total Expense risk from Earned Reserve risk. This column should equal the sum of the Expense risk from Earned Reserve risk per S2LoB on a sim by sim basis (C0370, C0510, ..., C04150)

		This subrisk is defined precisely below.
C0100	Expense risk from Unearned Reserve risk	Total Expense risk from Unearned Reserve risk. This column should equal the sum of the Expense risk from Unearned Reserve risk per S2LoB on a sim by sim basis (C0380, C0520, ..., C04160) This subrisk is defined precisely below.
C0110	Expense risk from Underwriting Non-CAT risk	Total Expense risk from Underwriting risk. This column should equal the sum of the Expense risk from Underwriting risk per S2LoB on a sim by sim basis (C0390, C0530, ..., C04170) This subrisk is defined precisely below.
C0120	Life UW risks from RBNS and IBNR Annuities	Total Life UW risks from RBNS and IBNR Annuities. This column should equal the sum of the Life UW risks from RBNS and IBNR Annuities per S2LoB on a sim by sim basis (C0400, C0540, ..., C04180) This subrisk is defined precisely below.
C0130	Life UW risks from UPR and BBNI Annuities	Total Life UW risks from UPR and BBNI Annuities. This column should equal the sum of the Life UW risks from UPR and BBNI Annuities per S2LoB on a sim by sim basis (C0410, C0550, ..., C04190) This subrisk is defined precisely below.
C0140	Life UW risks from Future Annuities (Non-CAT)	Total Life UW risks from Future Annuities. This column should equal the sum of the Life UW risks from Future Annuities per S2LoB on a sim by sim basis (C0420, C0560, ..., C04200) This subrisk is defined precisely below.
C0150	Natural Catastrophe risk	This column should equal the Aggregate Natural Catastrophe risk (C0220) on a sim by sim basis
C0160	Overhead expense risk Non-Life Liabilities	Overhead expenses modelled on an aggregate level (across all S2LoBs) within the Non-Life underwriting risk related to Non-Life liabilities
C0170	Overhead expense risk Health NSLT Liabilities	Overhead expenses modelled on an aggregate level (across all S2LoBs) within the Non-Life underwriting risk related to Health NSLT liabilities
C0180	Other Non-Life Underwriting risks	Other Non-Life Underwriting risks not captured within the other subrisks (C0020-C0170)
C0190	Life Underwriting risks Health Liabilities	Life Underwriting risks related to Health Liabilities
C0200	Health Catastrophe risk	Health Catastrophe risks
C0210	Other Health risks	Other Non-Life Underwriting risks not captured within the other subrisks (C0020-C0200)
Natural Catastrophe risks		
C0220-C0280	Natural Catastrophe risk	Data for Natural Catastrophe risks split between Perils.
Natural Catastrophe risks split between perils		
C0220	Aggregate Natural Catastrophe risk	Total Natural Catastrophe risks across all Cat Perils. This column should equal the sum of the Natural Catastrophe Perils on a sim by sim basis.
C0230	Windstorm	These categories are defined in article 120 of the Delegated Regulation.
C0240	Earthquake	
C0250	Flood	
C0260	Hail	

C0270	Subsidence	
C0280	Combination	A combination of the Perils above (C0230-C0270)
C0290	Other Natural Catastrophe perils	Other Natural Catastrophe perils modelled beyond the categories defined in article 120 of the Delegated Regulation
<i>Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT)</i>		
C0300-C4210	Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT)	Data for Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) split between S2LoBs and sub-risks.
<i>Split Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) between sub-risks</i>		
C0300, C0440, ..., C04080	Total	Total Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) per S2LoB. This column should equal the sum of the subrisks per S2LoB on a sim by sim basis: <ul style="list-style-type: none"> - Earned Reserve risk - Unearned Reserve risk - Underwriting risk - Man-Made CAT risk - Inflation risk from Earned Reserve risk - Inflation risk from Unearned Reserve risk - Inflation risk from Underwriting risk - Expense risk from Earned Reserve risk - Expense risk from Unearned Reserve risk - Expense risk from Underwriting risk - Life UW risks from RBNS and IBNR Annuities - Life UW risks from UPR and BBNI Annuities - Life UW risks from Future Annuities
C0310, C0450, ..., C04090	Earned Reserve risk	The risk around the balance sheet earned reserves or the uncertainty related to earned premium and the related claims and expenses which have already occurred in the past
C0320, C0460, ..., C04100	Unearned Reserve risk	The risk around the balance sheet unearned reserves or the uncertainty related to Unearned or BBNI premiums and the related claims and expenses which will occur in the future
C0330, C0470, ..., C04110	Underwriting Non-CAT risk	The risk around the proposed underwriting year or the uncertainty related to premiums beyond contract boundaries (typically 1 year premium volume) and the related claims and expenses which will occur in the future. Catastrophes are excluded from this risk.
C0340, C0480, ..., C04120	Man-Made CAT risk	Man-made catastrophe risk is the uncertainty related to future man-made catastrophes
C0350, C0490, ..., C04130	Inflation risk from Earned Reserve risk	Inflation risk related to earned reserves captured within market risk
C0360, C0500, ..., C04140	Inflation risk from Unearned Reserve risk	Inflation risk related to unearned reserves captured within market risk
C0370, C0510, ..., C04150	Inflation risk from Underwriting Non-CAT risk	Inflation risk related to future underwriting years captured within market risk
C0380, C0520, ..., C04160	Expense risk from Earned Reserve risk	Expense risk related to earned reserves in a separate expense risk module
C0390, C0530, ..., C04170	Expense risk from Unearned Reserve risk	Expense risk related to unearned reserves in a separate expense risk module
C0400, C0540, ..., C04180	Expense risk from Underwriting Non-CAT risk	Expense risk related to future underwriting years in a separate expense risk module
C0410, C0550, ..., C04190	Life UW risks from RBNS and IBNR Annuities	Life Underwriting risks related to earned reserves for Non-Life annuities not captured within the Non-Life module
C0420, C0560, ..., C04200	Life UW risks from UPR and BBNI Annuities	Life Underwriting risks related to unearned reserves for Non-Life annuities not captured within the Non-Life module

C0430, C0570, ..., C04210	Life UW risks from Future Annuities (Non-CAT)	Life Underwriting risks related to future underwriting years for Non-Life annuities not captured within the Non-Life module
<i>Split Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) between Solvency 2 Lines of Business</i>		
C0300 - C0430	Medical expense insurance (NL obligations)	Solvency 2 Lines of Business defined in line with Annex I of the Delegated Regulation
C0440 - C0570	Income protection insurance (NL obligations)	
C0580 - C0710	Workers' compensation insurance (NL obligations)	
C0720 - C0850	Motor vehicle liability insurance (NL obligations)	
C0860 - C0990	Other motor insurance (NL obligations)	
C1000 - C1130	Marine, aviation and transport insurance (NL obligations)	
C1140 - C1270	Fire and other damage to property insurance (NL obligations)	
C1280 - C1410	General liability insurance (NL obligations)	
C1420 - C1550	Credit and suretyship insurance (NL obligations)	
C1560 - C1690	Legal expenses insurance (NL obligations)	
C1700 - C1830	Assistance (NL obligations)	
C1840 - C1970	Miscellaneous financial loss (NL obligations)	
C1980 - C2110	Medical expense insurance (Proportional NL reinsurance)	
C2120 - C2250	Income protection insurance (Proportional NL reinsurance)	
C2260 - C2390	Workers' compensation insurance (Proportional NL reinsurance)	
C2400 - C2530	Motor vehicle liability insurance (Proportional NL reinsurance)	
C2540 - C2670	Other motor insurance (Proportional NL reinsurance)	
C2680 - C2810	Marine, aviation and transport insurance (Proportional NL reinsurance)	
C2820 - C2950	Fire and other damage to property insurance (Proportional NL reinsurance)	
C2960 - C3090	General liability insurance (Proportional NL reinsurance)	
C3100 - C3230	Credit and suretyship insurance (Proportional NL reinsurance)	
C3240 - C3370	Legal expenses insurance (Proportional NL reinsurance)	
C3380 - C3510	Assistance (Proportional NL reinsurance)	
C3520 - C3650	Miscellaneous financial loss (Proportional NL reinsurance)	
C3660 - C3790	Non-proportional health reinsurance	
C3800 - C3930	Non-proportional casualty reinsurance	

C3940 - C4070	Non-proportional marine, aviation and transport reinsurance	
C4080 - C4210	Non-proportional property reinsurance	
Statistical metrics		
R0010	Expected result at t=1, supposed to be the mean value of the distribution	Expected result at t=1 gross of reinsurance, supposed to be the mean value of the distribution. This should be consistent with the average value from the simulation data (R0070-R0130 (possibly expanded))
R0020	99.5% quantile of the distribution	99.5% quantile of the Profit and Loss distribution gross of reinsurance. This should be consistent with the relevant percentile from the simulation data (R0070-R0130 (possibly expanded))
R0030	Is the expected profit deducted for calculating the SCR	Please choose from the options of the closed list if the expected profit is deducted for calculating the SCR: - Yes - No
R0040	Is simulation data available?	Please choose from the options of the closed list if the simulation data is available: - Yes - No
R0050	Is the risk modelled in the Internal Model or the Standard Formula?	Please choose from the options of the closed list if the risk is modelled in the Internal Model or the Standard Formula: - Internal Model - Standard Formula - Other (e.g. part is in the Standard Formula and part in the Internal Model) If only part of a S2LoB, Peril or geographical region is modelled in the (partial) internal model and another part is considered under the standard formula, please fill in the internal model data.
R0060	Modelled Value-at-Risk (VaR) of the distribution	Modelled Value at Risk. This quantity should be in line with SCR definition the undertaking uses. The undertaking should deduct the expected profit in line with its own SCR definition and should apply a smoothing algorithm if relevant for the own SCR
Simulation Data		
R0070-R0130	Simulation Data	Value under a Monte Carlo scenario of the Gross Profit & Loss of the internal model related to the relevant column without centering the distribution based on the Expected Profit. The number of rows should be extended to the number of simulation used in an official run.

3.4. QT_STAND_NET_: Standardised Net Simulation data

This tab provides simulation data related to the net non-life underwriting risk broken down between Natural Catastrophe risks and Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT). For natural catastrophe risks a further split between the different perils is asked. Furthermore, for Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) a split between Solvency 2 Lines of Business ((S2LoB) as defined in Annex I of the Delegated Regulation) is requested and a further split between subrisks per Line of Business.

The simulation data is loaded automatically from the sheets related to Per Underwriting Year and Per Accident Year models.

Table 9: QT_STAND_NET_overview

	Aggregate	Aggregate Non-Life Underwriting risk	Aggregate Health Underwriting risk
Statistical metrics	R0010-R0060_C0010	R0010-R0060_C0020-C0070	R0010-R0060_C0080-C0140
Simulation Data	R0070-R0130_C0010	R0070-R0130_C0020-C0070	R0070-R0130_C0080-C0140

	Natural Catastrophe risks (Split per Peril)	Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) (Split per S2LoB and per sub-risk)
Statistical metrics	R0010-R0060_C0150-C0210	R0010-R0060_C0220-C1050
Simulation Data	R0070-R0130_C0150-C0210	R0070-R0130_C0220-C1050

Table 10: QT_STAND_NET_

CODE	ITEM	INSTRUCTIONS
Aggregate		
C0010	Total	Total Underwriting risk related to Non-Life and Health Liabilities. This column should equal the sum of the Aggregate Non-Life (C0020) and Aggregate Health risks (C0080) on a sim by sim basis (R0070-R0130)
Aggregate Non-Life		
C0020	Total Non-Life Underwriting risk	Total Non-Life Underwriting risk. This column should equal the sum of the sub-risk (C0030-C0070) on a sim by sim basis
C0030	Non-Life Reserve risk	Total Non-Life reserve risk (incl. Man-Made CAT). This column should equal the sum of the Reserve risk per S2LoB across all Non-Life LoBs on a sim by sim basis This subrisk is defined precisely below.
C0040	Non-Life Premium risk (incl. Man-Made CAT)	Total Non-Life Premium risk (incl. Man-Made CAT). This column should equal the sum of the Premium risk (incl. Man-Made CAT) risk per S2LoB across all Non-Life LoBs on a sim by sim basis This subrisk is defined precisely below.
C0050	Natural Catastrophe risk	This column should equal the Aggregate Natural Catastrophe risk (C0150) on a sim by sim basis
C0060	Overhead expense risk Non-Life Liabilities	Overhead expenses modelled on an aggregate level (across all S2LoBs) within the Non-Life underwriting risk related to Non-Life liabilities
C0070	Other Non-Life Underwriting risks	Other Non-Life Underwriting risks not captured in C0030-C0060
Aggregate Health		
C0080	Total Health Underwriting risk	Total Health Underwriting risk. This column should equal the sum of the sub-risk (C0090-C0140) on a sim by sim basis
C0090	Health NSLT Reserve risk	Total Health NSLT reserve risk. This column should equal the sum of the Reserve risk per S2LoB across all Health LoBs on a sim by sim basis This subrisk is defined precisely below.
C0100	Health NSLT Premium risk (incl. Man-Made CAT)	Total Health NSLT Premium risk (incl. Man-Made CAT). This column should equal the sum of the Premium risk (incl. Man-Made CAT) risk per S2LoB across all Health LoBs on a sim by sim basis

		This subrisk is defined precisely below.
C0110	Life Underwriting risks Health Liabilities	Life Underwriting risks Health Liabilities
C0120	Health Catastrophe risk	Health Catastrophe risk
C0130	Overhead expense risk Health NSLT Liabilities	Overhead expenses modelled on an aggregate level (across all S2LoBs) within the Non-Life underwriting risk related to Health NSLT liabilities
C0140	Other Health risks	Other Health risks (not included in C0090-C0130)
Natural Catastrophe risks		
C0150-C0210	Natural Catastrophe risk	Data for Natural Catastrophe risks split between Perils.
Natural Catastrophe risks split between perils		
C0150	Aggregate Natural Catastrophe risk	Total Natural Catastrophe risks across all CatPerils. This column should equal the sum of the Natural Catastrophe Perils on a sim by sim basis.
C0160	Windstorm	These categories are defined in article 120 of the Delegated Regulation.
C0170	Earthquake	
C0180	Flood	
C0190	Hail	
C0200	Subsidence	
C0210	Combination	A combination of the Perils above (C0160-C0200)
C0220	Other Natural Catastrophe perils	Other Natural Catastrophe perils modelled beyond the categories defined in article 120 of the Delegated Regulation
Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT)		
C0230-C1060	Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT)	Data for Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) split between S2LoBs and sub-risks.
Split Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) between sub-risks		
C0230, C0260, ..., C1040	Total	Total Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) per S2LoB. This column should equal the sum of the subrisks per S2LoB on a sim by sim basis: - Reserve risk - Premium risk (including Man-Made CAT risk)
C0240, C0270, ..., C1050	Reserve risk	Reserve risk is the uncertainty related to past accident years
C0250, C0280, ..., C1060	Premium risk (including Man-Made CAT risk)	Premium risk is the uncertainty related to future accident years excluding natural catastrophe risks, but including man-made catastrophe risks
Split Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) between Solvency 2 Lines of Business		
C0230 - C0250	Medical expense insurance (NL obligations)	Solvency 2 Lines of Business defined in line with Annex I of the Delegated Regulation
C0260 - C0280	Income protection insurance (NL obligations)	
C0290 - C0310	Workers' compensation insurance (NL obligations)	
C0320 - C0340	Motor vehicle liability insurance (NL obligations)	
C0350 - C0370	Other motor insurance (NL obligations)	
C0380 - C0400	Marine, aviation and transport insurance (NL obligations)	

C0410 - C0430	Fire and other damage to property insurance (NL obligations)	
C0440 - C0460	General liability insurance (NL obligations)	
C0470 - C0490	Credit and suretyship insurance (NL obligations)	
C0500 - C0520	Legal expenses insurance (NL obligations)	
C0530 - C0550	Assistance (NL obligations)	
C0560 - C0580	Miscellaneous financial loss (NL obligations)	
C0590 - C0610	Medical expense insurance (Proportional NL reinsurance)	
C0620 - C0640	Income protection insurance (Proportional NL reinsurance)	
C0650 - C0670	Workers' compensation insurance (Proportional NL reinsurance)	
C0680 - C0700	Motor vehicle liability insurance (Proportional NL reinsurance)	
C0710 - C0730	Other motor insurance (Proportional NL reinsurance)	
C0740 - C0760	Marine, aviation and transport insurance (Proportional NL reinsurance)	
C0770 - C0790	Fire and other damage to property insurance (Proportional NL reinsurance)	
C0800 - C0820	General liability insurance (Proportional NL reinsurance)	
C0830 - C0850	Credit and suretyship insurance (Proportional NL reinsurance)	
C0860 - C0880	Legal expenses insurance (Proportional NL reinsurance)	
C0890 - C0910	Assistance (Proportional NL reinsurance)	
C0920 - C0940	Miscellaneous financial loss (Proportional NL reinsurance)	
C0950 - C0970	Non-proportional health reinsurance	
C0980 - C1000	Non-proportional casualty reinsurance	
C1010 - C1030	Non-proportional marine, aviation and transport reinsurance	
C1040 - C1060	Non-proportional property reinsurance	
Statistical metrics		
R0010	Expected result at t=1, supposed to be the mean value of the distribution	Expected result at t=1 net of reinsurance, supposed to be the mean value of the distribution. This should be consistent with the average value from the simulation data (R0070-R0130 (possibly expanded))
R0020	99.5% quantile of the distribution	99.5% quantile of the Profit and Loss distribution net of reinsurance. This should be consistent with the relevant percentile from the simulation data (R0070-R0130 (possibly expanded))
R0030	Is the expected profit deducted for calculating the SCR	Please choose from the options of the closed list if the expected profit is deducted for calculating the SCR: - Yes - No

R0040	Is simulation data available?	Please choose from the options of the closed list if the simulation data is available: - Yes - No
R0050	Is the risk modelled in the Internal Model or the Standard Formula?	Please choose from the options of the closed list if the risk is modelled in the Internal Model or the Standard Formula: - Internal Model - Standard Formula - Other (e.g. part is in the Standard Formula and part in the Internal Model)
R0060	Modelled Value-at-Risk (VaR) of the distribution	Modelled Value at Risk. This quantity should be in line with SCR definition the undertaking uses. The undertaking should deduct the expected profit in line with its own SCR definition and should apply a smoothing algorithm if relevant for the own SCR
Simulation Data		
R0070-R0130 (possibly expanded)	Simulation Data	Value under a Monte Carlo scenario of the Net Profit & Loss of the internal model related to the relevant column without centering the distribution based on the Expected Profit. The number of rows should be extended to the number of simulation used in an official run. This data will be loaded automatically from the tabs <u>QT_AY_NET_</u> and <u>QT_UY_NET_</u> .

3.5. QT_AY_NET_: Net Simulation Data from Per Accident Year models

This tab provides simulation data related to the net non-life underwriting risk broken down between Natural Catastrophe risks and Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT). For natural catastrophe risks a further split between the different perils is asked. Furthermore, for Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) a split between Solvency 2 Lines of Business ((S2LoB) as defined in Annex I of the Delegated Regulation) is requested and a further split between subrisks per Line of Business.

Table 11: QT_AY_NET_ overview

	Aggregate Non-Life Underwriting risk	Natural Catastrophe risks (Split per Peril)	Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) (Split per S2LoB and per sub-risk)
Statistical metrics	R0010-R0060_C0010-C0170	R0010-R0060_C0180-C0240	R0010-R0060_C0250-C3040
Simulation Data	R0070-R0130_C0010-C0170	R0070-R0130_C0180-C0240	R0070-R0130_C0250-C3040

Table 12: QT_AY_NET_

CODE	ITEM	INSTRUCTIONS
<i>Aggregate</i>		

C0010	Total	Total Underwriting risk related to Non-Life and Health Liabilities. This column should equal the sum of the sub-risks (C0020-C0170) on a sim by sim basis
C0020	Reserve risk	Total reserve risk. This column should equal the sum of the Reserve risk per S2LoB on a sim by sim basis (C0260, C0360, ..., C2960) This subrisk is defined precisely below.
C0030	Premium risk	Total premium risk. This column should equal the sum of the Premium risk per S2LoB on a sim by sim basis (C0270, C0370, ..., C2970) This subrisk is defined precisely below.
C0040	Man-Made CAT risk	Total Man-Made CAT risk. This column should equal the sum of the Man-Made CAT risk per S2LoB on a sim by sim basis (C0280, C0380, ..., C2980) This subrisk is defined precisely below.
C0050	Inflation risk from Reserve risk	Total Inflation risk from Reserve risk. This column should equal the sum of the Inflation risk from Reserve risk per S2LoB on a sim by sim basis (C0290, C0390, ..., C2990) This subrisk is defined precisely below.
C0060	Inflation risk from Premium risk	Total Inflation risk from Premium risk. This column should equal the sum of the Inflation risk from Premium risk per S2LoB on a sim by sim basis (C0300, C0400, ..., C3000) This subrisk is defined precisely below.
C0070	Expense risk from Reserve risk	Total Expense risk from Reserve risk. This column should equal the sum of the Expense risk from Reserve risk per S2LoB on a sim by sim basis (C0310, C0410, ..., C3010) This subrisk is defined precisely below.
C0080	Expense risk from Premium risk	Total Expense risk from Premium risk. This column should equal the sum of the Expense risk from Premium risk per S2LoB on a sim by sim basis (C0320, C0420, ..., C3020) This subrisk is defined precisely below.
C0090	Life UW risks from RBNS and IBNR Annuities	Total Life UW risks from RBNS and IBNR Annuities. This column should equal the sum of the Life UW risks from RBNS and IBNR Annuities per S2LoB on a sim by sim basis (C0330, C0430, ..., C3030) This subrisk is defined precisely below.
C0100	Life UW risks from UPR, BBNI and Future Annuities	Total Life UW risks from UPR, BBNI and Future Annuities. This column should equal the sum of the Life UW risks from UPR, BBNI and Future Annuities per S2LoB on a sim by sim basis (C0340, C0440, ..., C3040) This subrisk is defined precisely below.
C0110	Natural Catastrophe risk	This column should equal the Aggregate Natural Catastrophe risk (C0180) on a sim by sim basis
C0120	Overhead expense risk Non-Life Liabilities	Overhead expenses modelled on an aggregate level (across all S2LoBs) within the Non-Life underwriting risk related to Non-Life liabilities

C0130	Overhead expense risk Health NSLT Liabilities	Overhead expenses modelled on an aggregate level (across all S2LoBs) within the Non-Life underwriting risk related to Health NSLT liabilities
C0140	Other Non-Life Underwriting risks	Other Non-Life Underwriting risks not captured within the other subrisks (C0020-C0130)
C0150	Life Underwriting risks Health Liabilities	Life Underwriting risks related to Health Liabilities
C0160	Health Catastrophe risk	Health Catastrophe risks
C0170	Other Health risks	Other Non-Life Underwriting risks not captured within the other subrisks (C0020-C0160)
Natural Catastrophe risks		
C0180-C0240	Natural Catastrophe risk	Data for Natural Catastrophe risks split between Perils.
Natural Catastrophe risks split between perils		
C0180	Aggregate Natural Catastrophe risk	Total Natural Catastrophe risks across all CatPerils. This column should equal the sum of the Natural Catastrophe Perils on a sim by sim basis.
C0190	Windstorm	These categories are defined in article 120 of the Delegated Regulation.
C0200	Earthquake	
C0210	Flood	
C0220	Hail	
C0230	Subsidence	
C0240	Combination	A combination of the Perils above (C0190-C0230)
C0250	Other Natural Catastrophe perils	Other Natural Catastrophe perils modelled beyond the categories defined in article 120 of the Delegated Regulation
Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT)		
C0260-C3050	Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT)	Data for Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) split between S2LoBs and sub-risks.
Split Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) between sub-risks		
C0260, C0360, ..., C2960	Total	Total Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) per S2LoB. This column should equal the sum of the subrisks per S2LoB on a sim by sim basis: <ul style="list-style-type: none"> - Reserve risk - Premium risk - Man-Made CAT risk - Inflation risk from Reserve risk - Inflation risk from Premium risk - Expense risk from Reserve risk - Expense risk from Premium risk - Life UW risks from RBNS and IBNR Annuities - Life UW risks from UPR, BBNI and Future Annuities
C0270, C0370, ..., C2970	Reserve risk	Reserve risk is the uncertainty related to past accident years
C0280, C0380, ..., C2980	Premium risk	Premium risk is the uncertainty related to future accident years excluding catastrophe risks
C0290, C0390, ..., C2990	Man-Made CAT risk	Man-made catastrophe risk is the uncertainty related to future accident years for man-made catastrophes
C0300, C0400, ..., C3000	Inflation risk from Reserve risk	Inflation risk related to past accident years captured within market risk
C0310, C0410, ..., C3010	Inflation risk from Premium risk	Inflation risk related to future accident years captured within market risk
C0320, C0420, ..., C3020	Expense risk from Reserve risk	Expense risk related to past accident years in a separate expense risk module

C0330, C0430, ..., C3030	Expense risk from Premium risk	Expense risk related to future accident years in a separate expense risk module
C03-40, C0440, ..., C3040	Life UW risks from RBNS and IBNR Annuities	Life Underwriting risks related to Non-Life annuities from past accident years not captured within the Non-Life module
C0350, C0450, ..., C3050	Life UW risks from UPR, BBNI and Future Annuities	Life Underwriting risks related to Non-Life annuities from future accident years not captured within the Non-Life module
<i>Split Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) between Solvency 2 Lines of Business</i>		
C0260 - C0350	Medical expense insurance (NL obligations)	Solvency 2 Lines of Business defined in line with Annex I of the Delegated Regulation
C0360 - C0450	Income protection insurance (NL obligations)	
C0460 - C0550	Workers' compensation insurance (NL obligations)	
C0560 - C0650	Motor vehicle liability insurance (NL obligations)	
C0660 - C0750	Other motor insurance (NL obligations)	
C0760 - C0850	Marine, aviation and transport insurance (NL obligations)	
C0860 - C0950	Fire and other damage to property insurance (NL obligations)	
C0960 - C1050	General liability insurance (NL obligations)	
C1060 - C1150	Credit and suretyship insurance (NL obligations)	
C1160 - C1250	Legal expenses insurance (NL obligations)	
C1260 - C1350	Assistance (NL obligations)	
C1360 - C1450	Miscellaneous financial loss (NL obligations)	
C1460 - C1550	Medical expense insurance (Proportional NL reinsurance)	
C1560 - C1650	Income protection insurance (Proportional NL reinsurance)	
C1660 - C1750	Workers' compensation insurance (Proportional NL reinsurance)	
C1760 - C1850	Motor vehicle liability insurance (Proportional NL reinsurance)	
C1860 - C1950	Other motor insurance (Proportional NL reinsurance)	
C1960 - C2050	Marine, aviation and transport insurance (Proportional NL reinsurance)	
C2060 - C2150	Fire and other damage to property insurance (Proportional NL reinsurance)	
C2160 - C2250	General liability insurance (Proportional NL reinsurance)	
C2260 - C2350	Credit and suretyship insurance (Proportional NL reinsurance)	
C2360 - C2450	Legal expenses insurance (Proportional NL reinsurance)	
C2460 - C2550	Assistance (Proportional NL reinsurance)	
C2560 - C2650	Miscellaneous financial loss (Proportional NL reinsurance)	

C2660 - C2750	Non-proportional health reinsurance	
C2760 - C2850	Non-proportional casualty reinsurance	
C2860 - C2950	Non-proportional marine, aviation and transport reinsurance	
C2960 - C3050	Non-proportional property reinsurance	
Statistical metrics		
R0010	Expected result at t=1, supposed to be the mean value of the distribution	Expected result at t=1 net of reinsurance, supposed to be the mean value of the distribution. This should be consistent with the average value from the simulation data (R0070-R0130 (possibly expanded))
R0020	99.5% quantile of the distribution	99.5% quantile of the Profit and Loss distribution net of reinsurance. This should be consistent with the relevant percentile from the simulation data (R0070-R0130 (possibly expanded))
R0030	Is the expected profit deducted for calculating the SCR	Please choose from the options of the closed list if the expected profit is deducted for calculating the SCR: - Yes - No
R0040	Is simulation data available?	Please choose from the options of the closed list if the simulation data is available: - Yes - No
R0050	Is the risk modelled in the Internal Model or the Standard Formula?	Please choose from the options of the closed list if the risk is modelled in the Internal Model or the Standard Formula: - Internal Model - Standard Formula - Other (e.g. part is in the Standard Formula and part in the Internal Model) If only part of a S2LoB, Peril or geographical region is modelled in the (partial) internal model and another part is considered under the standard formula, please fill in the internal model data.
R0060	Modelled Value-at-Risk (VaR) of the distribution	Modelled Value at Risk. This quantity should be in line with SCR definition the undertaking uses. The undertaking should deduct the expected profit in line with its own SCR definition and should apply a smoothing algorithm if relevant for the own SCR
Simulation Data		
R0070-R0130	Simulation Data	Value under a Monte Carlo scenario of the Net Profit & Loss of the internal model related to the relevant column without centering the distribution based on the Expected Profit. The number of rows should be extended to the number of simulation used in an official run.

3.6. QT_UY_NET_: Net Simulation Data from Per Underwriting Year models

This tab provides simulation data related to the net non-life underwriting risk broken down between Natural Catastrophe risks and Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT). For natural catastrophes a further split between the different perils is asked. Furthermore, for

Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) a split between Solvency 2 Lines of Business ((S2LoB) as defined in Annex I of the Delegated Regulation) is requested and a further split between subrisks per Line of Business.

Table 13: QT_UY_NET_overview

	Aggregate Non-Life Underwriting risk	Natural Catastrophe risks (Split per Peril)	Non-Life and Health-NLST premium and reserve risks (incl Man-Made CAT) (Split per S2LoB and per sub-risk)
Statistical metrics	R0010-R0060_C0010-C0210	R0010-R0060_C0220-C0280	R0010-R0060_C0290-C4200
Simulation Data	R0070-R0130_C0010-C0210	R0070-R0130_C0220-C0280	R0070-R0130_C0290-C4200

Table 14: QT_UY_NET

CODE	ITEM	INSTRUCTIONS
<i>Aggregate</i>		
C0010	Total	Total Underwriting risk related to Non-Life and Health Liabilities. This column should equal the sum of the sub-risks (C0020-C0210) on a sim by sim basis
C0020	Earned Reserve risk	Total Earned Reserve risk. This column should equal the sum of the Earned Reserve risk per S2LoB on a sim by sim basis (C0300, C0440, ..., C04080) This subrisk is defined precisely below.
C0030	Unearned Reserve risk	Total Unearned Reserve risk. This column should equal the sum of the Unearned Reserve risk per S2LoB on a sim by sim basis (C0310, C0450, ..., C04090) This subrisk is defined precisely below.
C0040	Underwriting Non-CAT risk	Total Underwriting risk. This column should equal the sum of the Underwriting risk per S2LoB on a sim by sim basis (C0320, C0460, ..., C04100) This subrisk is defined precisely below.
C0050	Man-Made CAT risk	Total Man-Made CAT risk. This column should equal the sum of the Man-Made CAT risk per S2LoB on a sim by sim basis (C0330, C0470, ..., C04110) This subrisk is defined precisely below.
C0060	Inflation risk from Earned Reserve risk	Total Inflation risk from Earned Reserve risk. This column should equal the sum of the Inflation risk from Earned Reserve risk per S2LoB on a sim by sim basis (C0340, C0480, ..., C04120) This subrisk is defined precisely below.
C0070	Inflation risk from Unearned Reserve risk	Total Inflation risk from Unearned Reserve risk. This column should equal the sum of the Inflation risk from Unearned Reserve risk per S2LoB on a sim by sim basis (C0350, C0490, ..., C04130) This subrisk is defined precisely below.
C0080	Inflation risk from Underwriting Non-CAT risk	Total Inflation risk from Underwriting risk. This column should equal the sum of the Inflation risk from Underwriting risk per S2LoB on a sim by sim basis (C0360, C0500, ..., C04140) This subrisk is defined precisely below.

C0090	Expense risk from Earned Reserve risk	Total Expense risk from Earned Reserve risk. This column should equal the sum of the Expense risk from Earned Reserve risk per S2LoB on a sim by sim basis (C0370, C0510, ..., C04150) This subrisk is defined precisely below.
C0100	Expense risk from Unearned Reserve risk	Total Expense risk from Unearned Reserve risk. This column should equal the sum of the Expense risk from Unearned Reserve risk per S2LoB on a sim by sim basis (C0380, C0520, ..., C04160) This subrisk is defined precisely below.
C0110	Expense risk from Underwriting Non-CAT risk	Total Expense risk from Underwriting risk. This column should equal the sum of the Expense risk from Underwriting risk per S2LoB on a sim by sim basis (C0390, C0530, ..., C04170) This subrisk is defined precisely below.
C0120	Life UW risks from RBNS and IBNR Annuities	Total Life UW risks from RBNS and IBNR Annuities. This column should equal the sum of the Life UW risks from RBNS and IBNR Annuities per S2LoB on a sim by sim basis (C0400, C0540, ..., C04180) This subrisk is defined precisely below.
C0130	Life UW risks from UPR and BBNI Annuities	Total Life UW risks from UPR and BBNI Annuities. This column should equal the sum of the Life UW risks from UPR and BBNI Annuities per S2LoB on a sim by sim basis (C0410, C0550, ..., C04190) This subrisk is defined precisely below.
C0140	Life UW risks from Future Annuities (Non-CAT)	Total Life UW risks from Future Annuities. This column should equal the sum of the Life UW risks from Future Annuities per S2LoB on a sim by sim basis (C0420, C0560, ..., C04200) This subrisk is defined precisely below.
C0150	Natural Catastrophe risk	This column should equal the Aggregate Natural Catastrophe risk (C0220) on a sim by sim basis
C0160	Overhead expense risk Non-Life Liabilities	Overhead expenses modelled on an aggregate level (across all S2LoBs) within the Non-Life underwriting risk related to Non-Life liabilities
C0170	Overhead expense risk Health NSLT Liabilities	Overhead expenses modelled on an aggregate level (across all S2LoBs) within the Non-Life underwriting risk related to Health NSLT liabilities
C0180	Other Non-Life Underwriting risks	Other Non-Life Underwriting risks not captured within the other subrisks (C0020-C0170)
C0190	Life Underwriting risks Health Liabilities	Life Underwriting risks related to Health Liabilities
C0200	Health Catastrophe risk	Health Catastrophe risks
C0210	Other Health risks	Other Non-Life Underwriting risks not captured within the other subrisks (C0020-C0200)
<i>Natural Catastrophe risks</i>		
C0220-C0280	Natural Catastrophe risk	Data for Natural Catastrophe risks split between Perils.
<i>Natural Catastrophe risks split between perils</i>		
C0220	Aggregate Natural Catastrophe risk	Total Natural Catastrophe risks across all Cat Perils. This column should equal the sum of the Natural Catastrophe Perils on a sim by sim basis.
C0230	Windstorm	

C0240	Earthquake	These categories are defined in article 120 of the Delegated Regulation.
C0250	Flood	
C0260	Hail	
C0270	Subsidence	
C0280	Combination	A combination of the Perils above (C0230-C0270)
C0290	Other Natural Catastrophe perils	Other Natural Catastrophe perils modelled beyond the categories defined in article 120 of the Delegated Regulation
Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT)		
C0300-C4210	Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT)	Data for Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) split between S2LoBs and sub-risks.
Split Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) between sub-risks		
C0300, C0440, ..., C04080	Total	Total Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) per S2LoB. This column should equal the sum of the subrisks per S2LoB on a sim by sim basis: <ul style="list-style-type: none"> - Earned Reserve risk - Unearned Reserve risk - Underwriting risk - Man-Made CAT risk - Inflation risk from Earned Reserve risk - Inflation risk from Unearned Reserve risk - Inflation risk from Underwriting risk - Expense risk from Earned Reserve risk - Expense risk from Unearned Reserve risk - Expense risk from Underwriting risk - Life UW risks from RBNS and IBNR Annuities - Life UW risks from UPR and BBNI Annuities - Life UW risks from Future Annuities
C0310, C0450, ..., C04090	Earned Reserve risk	The risk around the balance sheet earned reserves or the uncertainty related to earned premium and the related claims and expenses which have already occurred in the past
C0320, C0460, ..., C04100	Unearned Reserve risk	The risk around the balance sheet unearned reserves or the uncertainty related to Unearned or BBNI premiums and the related claims and expenses which will occur in the future
C0330, C0470, ..., C04110	Underwriting Non-CAT risk	The risk around the proposed underwriting year or the uncertainty related to premiums beyond contract boundaries (typically 1 year premium volume) and the related claims and expenses which will occur in the future. Catastrophes are excluded from this risk.
C0340, C0480, ..., C04120	Man-Made CAT risk	Man-made catastrophe risk is the uncertainty related to future man-made catastrophes
C0350, C0490, ..., C04130	Inflation risk from Earned Reserve risk	Inflation risk related to earned reserves captured within market risk
C0360, C0500, ..., C04140	Inflation risk from Unearned Reserve risk	Inflation risk related to unearned reserves captured within market risk
C0370, C0510, ..., C04150	Inflation risk from Underwriting Non-CAT risk	Inflation risk related to future underwriting years captured within market risk
C0380, C0520, ..., C04160	Expense risk from Earned Reserve risk	Expense risk related to earned reserves in a separate expense risk module
C0390, C0530, ..., C04170	Expense risk from Unearned Reserve risk	Expense risk related to unearned reserves in a separate expense risk module
C0400, C0540, ..., C04180	Expense risk from Underwriting Non-CAT risk	Expense risk related to future underwriting years in a separate expense risk module

C0410, C0550, ..., C04190	Life UW risks from RBNS and IBNR Annuities	Life Underwriting risks related to earned reserves for Non-Life annuities not captured within the Non-Life module
C0420, C0560, ..., C04200	Life UW risks from UPR and BBNI Annuities	Life Underwriting risks related to unearned reserves for Non-Life annuities not captured within the Non-Life module
C0430, C0570, ..., C04210	Life UW risks from Future Annuities (Non-CAT)	Life Underwriting risks related to future underwriting years for Non-Life annuities not captured within the Non-Life module
<i>Split Non-Life and Health-NLST premium and reserve risks (incl. Man-Made CAT) between Solvency 2 Lines of Business</i>		
C0300 - C0430	Medical expense insurance (NL obligations)	Solvency 2 Lines of Business defined in line with Annex I of the Delegated Regulation
C0440 - C0570	Income protection insurance (NL obligations)	
C0580 - C0710	Workers' compensation insurance (NL obligations)	
C0720 - C0850	Motor vehicle liability insurance (NL obligations)	
C0860 - C0990	Other motor insurance (NL obligations)	
C1000 - C1130	Marine, aviation and transport insurance (NL obligations)	
C1140 - C1270	Fire and other damage to property insurance (NL obligations)	
C1280 - C1410	General liability insurance (NL obligations)	
C1420 - C1550	Credit and suretyship insurance (NL obligations)	
C1560 - C1690	Legal expenses insurance (NL obligations)	
C1700 - C1830	Assistance (NL obligations)	
C1840 - C1970	Miscellaneous financial loss (NL obligations)	
C1980 - C2110	Medical expense insurance (Proportional NL reinsurance)	
C2120 - C2250	Income protection insurance (Proportional NL reinsurance)	
C2260 - C2390	Workers' compensation insurance (Proportional NL reinsurance)	
C2400 - C2530	Motor vehicle liability insurance (Proportional NL reinsurance)	
C2540 - C2670	Other motor insurance (Proportional NL reinsurance)	
C2680 - C2810	Marine, aviation and transport insurance (Proportional NL reinsurance)	
C2820 - C2950	Fire and other damage to property insurance (Proportional NL reinsurance)	
C2960 - C3090	General liability insurance (Proportional NL reinsurance)	
C3100 - C3230	Credit and suretyship insurance (Proportional NL reinsurance)	
C3240 - C3370	Legal expenses insurance (Proportional NL reinsurance)	
C3380 - C3510	Assistance (Proportional NL reinsurance)	
C3520 - C3650	Miscellaneous financial loss (Proportional NL reinsurance)	

C3660 - C3790	Non-proportional health reinsurance	
C3800 - C3930	Non-proportional casualty reinsurance	
C3940 - C4070	Non-proportional marine, aviation and transport reinsurance	
C4080 - C4210	Non-proportional property reinsurance	
Statistical metrics		
R0010	Expected result at t=1, supposed to be the mean value of the distribution	Expected result at t=1 net of reinsurance, supposed to be the mean value of the distribution. This should be consistent with the average value from the simulation data (R0070-R0130 (possibly expanded))
R0020	99.5% quantile of the distribution	99.5% quantile of the Profit and Loss distribution net of reinsurance. This should be consistent with the relevant percentile from the simulation data (R0070-R0130 (possibly expanded))
R0030	Is the expected profit deducted for calculating the SCR	Please choose from the options of the closed list if the expected profit is deducted for calculating the SCR: - Yes - No
R0040	Is simulation data available?	Please choose from the options of the closed list if the simulation data is available: - Yes - No
R0050	Is the risk modelled in the Internal Model or the Standard Formula?	Please choose from the options of the closed list if the risk is modelled in the Internal Model or the Standard Formula: - Internal Model - Standard Formula - Other (e.g. part is in the Standard Formula and part in the Internal Model) If only part of a S2LoB, Peril or geographical region is modelled in the (partial) internal model and another part is considered under the standard formula, please fill in the internal model data.
R0060	Modelled Value-at-Risk (VaR) of the distribution	Modelled Value at Risk. This quantity should be in line with SCR definition the undertaking uses. The undertaking should deduct the expected profit in line with its own SCR definition and should apply a smoothing algorithm if relevant for the own SCR
Simulation Data		
R0070-R0130	Simulation Data	Value under a Monte Carlo scenario of the Net Profit & Loss of the internal model related to the relevant column without centering the distribution based on the Expected Profit. The number of rows should be extended to the number of simulation used in an official run.

3.7. QT_CS_: Simulation Data for Credit & Suretyship Premium risk

This tab provides a simulation data related to credit losses or premium risk P&Ls related to the Credit & Suretyship S2LoB. A split is performed between products (i.e. trade credit insurance and suretyship)

and between geographical regions. Geographical regions are based on the location of the buyer since this is determinant for the risk due to e.g. insolvency legislation.

Table 15: QT_CS_overview

	Net of Reinsurance	Gross of Reinsurance Credit & Suretyship	Gross of Reinsurance Trade Credit Insurance	Gross of Reinsurance Suretyship
Statistical metrics	R0010-R0070_C0010	R0010-R0070_C0020	R0010-R0070_C0030-C0110	R0010-R0070_C0120-C0200
Simulation Data	R0080-R0140_C0010	R0080-R0140_C0020	R0080-R0140_C0030-C0110	R0080-R0140_C0120-C0200

Table 16: QT_CS_

CODE	ITEM	INSTRUCTIONS
<i>Net of Reinsurance Credit & Suretyship</i>		
C0010	Total	Total Net of Reinsurance Credit Losses for the entire Credit and Suretyship S2LoB
<i>Gross of Reinsurance Credit & Suretyship</i>		
C0020	Total	Total Gross of Reinsurance Credit Losses for the entire Credit and Suretyship S2LoB. This column should be the sum across the different products on a simby sim basis (C0030 and C0120)
<i>Gross of Reinsurance Trade Credit Insurance split between geographical regions</i>		
C0030	Total Trade Credit Insurance	Total Trade Credit Insurance Credit Loss or Premium risk P&L. This column should be the sum across the different geographical regions on a simby sim basis (C0040 - C0110)
C0040	Belgium	Trade Credit Insurance Credit Loss or Premium risk P&L per geographical region. The geography should be determined by the location of the buyer since this is the driver of the risk
C0050	France	
C0060	Germany - Austria	
C0070	United Kingdom	
C0080	Italy	
C0090	Spain	
C0100	Other Europe	
C0110	Rest of the World	
<i>Gross of Reinsurance Surety Insurance split between geographical regions</i>		
C0120	Total Suretyship Insurance	Total Suretyship Credit Loss or Premium risk P&L. This column should be the sum across the different geographical regions on a simby sim basis (C0130 - C0200)
C0130	Belgium	Suretyship Credit Loss or Premium risk P&L per geographical region. The geography should be determined by the location of the buyer since this is the driver of the risk.
C0140	France	
C0150	Germany - Austria	
C0160	United Kingdom	
C0170	Italy	
C0180	Spain	
C0190	Other Europe	
C0200	Rest of the World	
<i>Statistical metrics</i>		

R0010	Expected result at t=1, supposed to be the mean value of the distribution	Expected Credit Loss or Expected Result at t = 1, supposed to be the mean value of the distribution. This should be consistent with the average value from the simulation data (R0070-R0130 (possibly expanded))
R0020	Standard Deviation of the distribution	Standard Deviation of the distribution
R0030	99.5% quantile of the distribution	99.5% quantile of the distribution of Credit Losses or Premium risk P&Ls
R0040	Is the expected profit deducted for calculating the SCR	Please choose from the options of the closed list if the expected profit is deducted for calculating the SCR: - Yes - No
R0050	Is simulation data available?	Please choose from the options of the closed list if the simulation data is available: - Yes - No
R0060	Is the risk modelled in the Internal Model or the Standard Formula?	Please choose from the options of the closed list if the risk is modelled in the Internal Model or the Standard Formula: - Internal Model - Standard Formula - Other (e.g. part is in the Standard Formula and part in the Internal Model) If only part of a S2LoB, Peril or geographical region is modelled in the (partial) internal model and another part is considered under the standard formula, please fill in the internal model data.
R0070	Modelled Value-at-Risk (VaR) of the distribution	Modelled Value at Risk. This quantity should be in line with SCR definition the undertaking uses. The undertaking should deduct the expected profit in line with its own SCR definition and should apply a smoothing algorithm if relevant for the own SCR
Simulation Data		
R0080-R0140	Simulation Data	Value under a Monte Carlo scenario of the Credit Loss or Premium risk P&L of the internal model related to the relevant column without centering the distribution based on the Expected Credit Loss or Expected Premium risk Result. The number of rows should be extended to the number of simulation used in an official run.

4. Qualitative tabs (by S2LoB)

These tabs (starting by QL_) collect qualitative information:

- QL_RP_: Qualitative Information Drivers of correlation
- QL_MOD_: Qualitative information Dependency modelling

4.1. QL_RP_: Qualitative Information Drivers of correlation

This tab provides information about the drivers of correlation for different pairs of S2 lines of business for premium and reserve risks on a net of reinsurance basis. These drivers are elements which might impact multiple Lines of Business at once for Premium or Reserve risk and might cause simultaneous occurring losses would influence the final SCR. The drivers can be further explained by indicating if for a given driver the impact is expected to be High, Medium, Low or None.

Table 17: QT_RP_ overview

Drivers of correlation for Reserve risk	Drivers of correlation for Premium risk
06_01	06_02

Table 18: QT_RP_

CODE	ITEM	INSTRUCTIONS
<i>S2 Lines of Business</i>		
R0010	Motor vehicle liability insurance - Other motor insurance	Pairs of S2 Lines of business for which the drivers of correlation will be analysed
R0020	Motor vehicle liability insurance - Fire and other damage to property insurance	
R0030	Motor vehicle liability insurance - General liability insurance	
R0040	Motor vehicle liability insurance - Credit & Suretyship insurance	
R0050	Other motor insurance - Fire and other damage to property insurance	
R0060	Other motor insurance - General liability insurance	
R0070	Other motor insurance - Credit & Suretyship insurance	
R0080	Fire and other damage to property insurance - General liability insurance	
R0090	Fire and other damage to property insurance - Credit & Suretyship insurance	
R0100	General liability insurance - Credit & Suretyship insurance	
<i>Drivers of correlation</i>		
C0010	Legal risk	Legislative uncertainty can be common to multiple Lines of Business. For instance, changes in

		legislation or jurisprudence related to bodily injuries could impact both MTPL and GTPL.
C0020	(Non-NAT CAT) Event risk	Non-Natural Caastrophe events
C0030	Latent claims	Latent claims occurring in multiple Lines of Business can driver correlation
C0040	Underwriting cycle	Underwriting cycles can be drivers for correlation if the cycles of different Lines of Business are synchronized
C0050	Reserving cycle	Reserving cycles can be drivers for correlation if the cycles of different Lines of Business are synchronized
C0060	Economic cycle.	Claims Frequency, severity, premium income, expenses and claims development results can be influence by the economic cycle
C0070	Common inflation	Common inflation can influence similar Lines of Business
C0080	Other	Other drivers of correlation not included in (C0010-C0070)
C0090	Comment	Comments to further clarify the drivers of correlation
Materiality correlation driver		
R0010-R0200_ C0010-C0080	Materiality correlation driver	<p>Please choose from the options of the closed list to indicate how material the specific correlation driver (C0010-C0080) is for the pair of S2LoBs concerned (R0010-R0200) for reserve risk or premium risk (incl. man-made catastrophe risk):</p> <ul style="list-style-type: none"> - High – This correlation driver will strongly influence the combined movements between the 2 Solvency 2 Lines of Business. It will have a material impact leading to a high correlation. - Medium – This correlation driver will influence the combined movements between the 2 Solvency 2 Lines of Business in a medium manner. It is one of many drivers for a higher correlation setting or is the main driver for a medium correlation setting. - Low – This correlation driver will influence the combined movements between the 2 Solvency 2 Lines of Business in a low manner. It is one of many drivers for a medium correlation setting or is the main driver for a low correlation setting. - None – The correlation driver has no influence on the combined or joint movement of both Solvency 2 Lines of Business.

4.2. QL_MOD_: Qualitative Information Dependency modelling

This tab provides qualitative information about the methodology used for dependency modelling.

Table 19: QL_MOD_ overview

Dependencies, aggregation, and risk modelling	Complementary information to the quantitative data request
R0010-R0060_C0010-C0020	R0070-R0100_C0010-C0020

Table 20: QL_MOD_

CODE	ITEM	INSTRUCTIONS
<i>S2 Lines of Business</i>		
R0010 - R0030	<p>Within the Solvency 2 framework, undertakings have the freedom to set-up the model structure, as long as it is in line with the tests and standards as defined in the Directive. Therefore, different approaches are expected.</p> <p>The following aggregation approaches could be applicable at both top and lower level risks. See also the definition of these top risks under section III 'preliminary assumptions' in the technical specifications. If you apply the SF VaR CoVaR approach, including the SF correlations settings on the top level risks, then you can disregard Q5 and Q7.</p> <p>Bottom-up integration: The dependence structure is based on the simultaneous aggregation of all different risk-factors. Afterwards a stressed P&L is determined for each set of combined risk-factors. Non linear effects, or cross terms, are directly captured in a natural manner.</p> <p>Modular approach: The dependence structure is based on aggregation of SCRs or P&Ls of the different risks, similar to the standard-formula. The possible non-linear effects or cross-effects between risks are not directly captured since the model assumes "walls" exists between the different risks.</p> <p>Sideways integration: The dependence structure is based on the aggregation of different risk-factors and P&Ls based on multiple partial dependencies. Similar to bottom-up integration, possible non-linear effects or cross-effects between risks are often directly captured.</p>	
R0010_C0010	Please select and describe the aggregation approach applied between premium risk, reserve risk and catastrophe risk in the internal model.	Please choose from the options of the closed list what aggregation approach is applied between premium risk, reserve risk and catastrophe risk: <ul style="list-style-type: none"> - Bottom-up integration - Modular approach - Sideways integration
R0010_C0020	Additional comment opportunity (as needed)	Field to provide comments for cell R0010_C0010
R0020_C0010	Please select and describe the aggregation approach applied at lower level risks between Lines of Business in the internal model within premium and reserve risks.	Please choose from the options of the closed list what aggregation approach is applied at lower level risks between Lines of Business: <ul style="list-style-type: none"> - Bottom-up integration - Modular approach - Sideways integration

R0010_C0020	Additional comment opportunity (as needed)	Field to provide comments for cell R0020_C0010
R0030_C0010	Please select and describe the aggregation approach applied at lower level risks between NAT CAT perils in the internal model.	Please choose from the options of the closed list what aggregation approach is applied at lower level risks between NAT CAT perils : <ul style="list-style-type: none"> - Bottom-up integration - Modular approach - Sideways integration
R0030_C0020	Additional comment opportunity (as needed)	Field to provide comments for cell R0030_C0010
R0040 - R0060	<p>The following different dependence methods can be applicable, which come forward at different levels or branches of the aggregation tree:</p> <p>Var-Covar approach: A correlation matrix is used to aggregate SCRs as in the Standard Formula. Per pair of risks a single parameter will therefore define the dependence in the tail and the body of the distribution for positive and negative P&L movements.</p> <p>Copula: This is a structure which will distinguish between the different aspects of dependence. In essence, the appropriate copula can be chosen to specifically calibrate the different levels of dependence in the tail and in the body of the distribution and for positive and negative P&L movements. A lot more freedom exists to customize the dependence structure, but this is accompanied by mathematical complexity.</p> <p>Common risk-drivers: Common risk drivers can impact different risks. Underlying risks are identified and their interactions modelled. For instance if inflation is supposed to impact two lines of business, this will create a dependence between both.</p> <p>Sum: One could also simply sum the SCRs of single risks.</p>	
R0040_C0010	Please describe the dependency method (s) applied between premium, reserve and catastrophe risks in the internal model.	Please choose what dependency method(s) are applied between premium, reserve and catastrophe risks: <ul style="list-style-type: none"> - Var-Covar approach - Copula - Common risk-drivers - Sum - Other
R0040_C0020	Additional comment opportunity (as needed)	Field to provide comments for cell R0040_C0010
R0050_C0010	Please describe the dependency method (s) applied between Lines of Business in the internal model within premium and reserve risks.	Please choose from the options of the closed what the dependency method(s) are applied between Lines of Business in the internal model within premium and reserve risks.: <ul style="list-style-type: none"> - Var-Covar approach - Copula - Common risk-drivers - Sum - Other
R0050_C0020	Additional comment opportunity (as needed)	Field to provide comments for cell R0050_C0010
R0060_C0010	Please describe the dependency method (s) applied between NAT CAT perils in the internal model.	Please choose from the options of the closed list what dependency method(s) are applied between NAT CAT perils : <ul style="list-style-type: none"> - Var-Covar approach

		<ul style="list-style-type: none"> - Copula - Common risk-drivers - Sum - Other
R0060_C0020	Additional comment opportunity (as needed)	Field to provide comments for cell R0060_C0010
R0070_C0010	Simulation noise	In case the reported regulatory SCR does not reconcile with the SCR derived from the simulation data, was that caused by simulation noise? For instance, by re-simulating the scenarios entered in the sheet “standardized reporting”, or did you use simulations from your own aggregation runs?
R0080_C0010	Granularity standardized reporting	In case the granularity for the subrisks in the standardized reporting are not in line with your internal model: Are the differences sufficiently covered in the template? If not, please elaborate.
R0090_C0010	Approximations standardized reporting	Did you make approximations and/or assumptions to generate the data as provided in the standardized model reporting? If yes, please elaborate.
R0100_C0010	Data difficulties	What other challenges did you encounter when producing the data for the data request?