FORTS_CLR_REPL

[table:CustReplScheme:money_clearing]
field=replID,i8
field=replRev,i8
field=replAct,i8
field=client_code,c7
field=share,i1
field=amount_beg,d16.2
field=vm,d16.2
field=premium,d16.2
field=pay,d16.2
field=fee_fut,d16.2
field=fee_opt,d16.2
field=go,d16.2
field=amount_end,d21.2
field=free,d22.2
+field=asset_type,i1

index=IDX_money_clearing_ID_U,UNIQUE,replID
index=IDX_money_clearing_REV_U,UNIQUE,replRev

[table:CustReplScheme:fut_pos]
field=replID,i8
field=replRev,i8
field=replAct,i8
field=isin_id,i4
field=sess_id,i4
field=isin,c25
field=client_code,c7
field=account,i1
field=xpos_beg,i8
field=xpos_end,i8
field=vm,d16.2
field=fee,d16.2
field=accum_go,d16.2
field=fee_ex,d16.2
field=vat_ex,d16.2
field=fee_cc,d16.2
field=vat_cc,d16.2
+field=account_type,i1

index=IDX_fut_pos_ID_U,UNIQUE,replID
index=IDX_fut_pos_REV_U,UNIQUE,replRev

[table:CustReplScheme:opt_pos]
field=replID,i8
field=replRev,i8
field=replAct,i8
field=isin_id,i4
field=sess_id,i4
field=isin,c25
field=client_code,c7
field=account,i1
field=xpos_beg,i8
field=xpos_end,i8

```
                    field=vm,d16.2
                    field=fee,d16.2
                  field=fee_ex,d16.2
                  field=vat_ex,d16.2
                  field=fee_cc,d16.2
                  field=vat_cc,d16.2
                +field=account_type,i1

        index=IDX_opt_pos_ID_U,UNIQUE,replID
        index=IDX_opt_pos_REV_U,UNIQUE,replRev

        [table:CustReplScheme:pledge_details]
                    field=replID,i8
                    field=replRev,i8
                    field=replAct,i8
                 field=client_code,c7
                field=pledge_name,c10
              field=xamount_beg,d26.2
                   field=xpay,d26.2
                field=xamount,d26.2
                   field=rate,d16.5
          field=xamount_beg_money,d26.2
              field=xpay_money,d26.2
           field=xamount_money,d26.2
                -field=com_ensure,i1

     index=IDX_pledge_details_ID_U,UNIQUE,replID
    index=IDX_pledge_details_REV_U,UNIQUE,replRev

       [table:CustReplScheme:money_clearing_sa]
                    field=replID,i8
                    field=replRev,i8
                    field=replAct,i8
          field=settlement_account,c12
              field=amount_beg,d26.2
                    field=vm,d26.2
                field=premium,d26.2
                    field=pay,d26.2
                field=fee_fut,d26.2
                field=fee_opt,d26.2
                    field=go,d26.2
              field=amount_end,d26.2
                   field=free,d26.2
                +field=asset_type,i1

    index=IDX_money_clearing_sa_ID_U,UNIQUE,replID
   index=IDX_money_clearing_sa_REV_U,UNIQUE,replRev
```

FORTS_DEALS_REPL

```
        [table:CustReplScheme:multileg_deal]
                    field=replID,i8
                    field=replRev,i8
```

```
                    field=replAct,i8
                    field=sess_id,i4
                    field=isin_id,i4
                    field=id_deal,i8
                  field=id_ord_buy,i8
                  field=id_ord_sell,i8
                    field=xamount,i8
                    field=price,d16.5
                  field=rate_price,d16.5
                  field=swap_price,d16.5
             -field=buyback_amount,d16.2
                    field=moment,t
                  field=moment_ns,u8
                    field=nosystem,i1

     index=IDX_multileg_deal_ID_U,UNIQUE,replID
     index=IDX_multileg_deal_REV_U,UNIQUE,replRev
```

FORTS_FEE_REPL

```
        [table:CustReplScheme:adjusted_fee]
                    field=replID,i8
                    field=replRev,i8
                    field=replAct,i8
                    field=id_deal,i8
                    field=moment,t
                  field=moment_ns,u8
                  field=code_buy,c7
                  field=code_sell,c7
              field=initial_fee_buy,d26.2
              field=initial_fee_sell,d26.2
             field=adjusted_fee_buy,d26.2
             field=adjusted_fee_sell,d26.2
                   -field=id_repo,i8
               field=id_deal_multileg,i8

      index=IDX_adjusted_fee_ID_U,UNIQUE,replID
     index=IDX_adjusted_fee_REV_U,UNIQUE,replRev
```

P2Proxy
[dbscheme:message]

```
        [table:message:FutAddOrder]
           field=broker_code,c4,,""
                  field=isin,c25
               field=client_code,c3
                  field=type,i4
                  field=dir,i4
                  field=amount,i4
                  field=price,c17
```

```
field=comment,c20,,""
field=broker_to,c20,,""
field=ext_id,i4,,0
-field=du,i4,,0
field=date_exp,c8,,""
-field=hedge,i4,,0
field=dont_check_money,i4,,0
field=local_stamp,t
field=match_ref,c10,,""
field=ncc_request,i1,,0

LocalTimeField=local_stamp
request=1
-msgid=412
+msgid=423
replies=101,99,100

[table:message:FutDelUserOrders]
field=broker_code,c4,,""
field=buy_sell,i4
field=non_system,i4
field=code,c3
-field=code_vcb,c25
+field=base_contract_code,c25
field=ext_id,i4,,0
field=work_mode,i4,,11
field=isin,c25,,""
field=local_stamp,t

LocalTimeField=local_stamp
request=1
msgid=38
replies=103,99,100

+[table:message:ChangeClientMoney]
+field=broker_code,c4,,""
+field=mode,i4
+field=code,c3
+field=limit_money,c17,,"0"
+field=is_auto_update_limit,i4,,-1
+field=check_limit,i4,,1

+request=1
+msgid=425
+replies=104,99,100

[table:message:FutChangeBFMoney]
field=broker_code,c4,,""
field=mode,i4
field=code,c2
-field=limit_money,c17,,"0"
-field=limit_pledge,c17,,"0"
+field=limit_money,c17

request=1
-msgid=7
```

```
                    +msgid=440
                +replies=107,99,100

        +[table:message:ChangeBFMoney]
            +field=broker_code,c4,,""
                    +field=mode,i4
                    +field=code,c2
                +field=limit_money,c17

                    +request=1
                    +msgid=426
                replies=107,99,100

    [table:message:FutChangeClientProhibit]
            field=broker_code,c4,,""
                    field=mode,i4
                    field=code,c3
                -field=code_vcb,c25
            +field=base_contract_code,c25
                    field=isin,c25
                    field=state,i4,,0
                field=state_mask,i4,,3

                    request=1
                    msgid=15
                replies=115,99,100

    [table:message:FutAddMultiLegOrder]
            field=broker_code,c4,,""
                    field=sess_id,i4,,0
                    field=isin_id,i4
                field=client_code,c3
                    field=type,i4
                    field=dir,i4
                    field=amount,i4
                    -field=price,c17
                -field=rate_price,c17
                +field=swap_price,c17
                field=comment,c20,,""
                    -field=hedge,i4,,0
                field=broker_to,c20,,""
                    field=ext_id,i4,,0
                    -field=trust,i4,,0
                field=date_exp,c8,,""
                    -field=trade_mode,i4
            field=dont_check_money,i4,,0
                field=local_stamp,t
                field=match_ref,c10,,""
                field=ncc_request,i1,,0

        LocalTimeField=local_stamp
                    request=1
                    -msgid=415
                    +msgid=433
                replies=129,99,100
```

```
[table:message:FutExchangeBFMoney]
        field=broker_code,c4,,""
            field=mode,i4
          field=code_from,c2
           field=code_to,c2
       field=amount_money,c17
      -field=amount_pledge,c17

               request=1
               -msgid=35
               +msgid=439
           +replies=130,99,100

  +[table:message:ExchangeBFMoney]
       +field=broker_code,c4,,""
           +field=mode,i4
         +field=code_from,c2
          +field=code_to,c2
       +field=amount_money,c17

              +request=1
              +msgid=427
           replies=130,99,100

+[table:message:TransferClientPosition]
       +field=broker_code,c4,,""
          +field=code_from,c7
           +field=code_to,c7
            +field=isin,c25
           +field=amount,i8

              +request=1
              +msgid=430
          +replies=173,99,100

  +[table:message:FORTS_MSG173]
            +field=code,i4
         +field=message,c255

               +reply=1
              +msgid=173

  +[table:message:ChangeBFLimit]
       +field=broker_code,c4,,""
           +field=mode,i4
           +field=code,c2
        +field=limit_money,c17
         +field=check_limit,i4

              +request=1
              +msgid=428
          +replies=161,99,100

+[table:message:ChangeBFParameters]
       +field=broker_code,c4,,""
           +field=code_bf,c2
```

```
                          +field=margin_type,i4,,3
               +field=calendar_spread_margin_type,i4,,3
                     +field=num_clr_2delivery,i4,,0
                        +field=exp_weight,c17,,"0"
                          +field=go_ratio,c17,,"1"
                +field=check_limit_on_withdrawal,i4,,1
                    +field=limit_tied_to_money,i4,,1
                   +field=check_limit_for_orders,i4,,1
                      +field=no_fut_discount,i4,,0
                      +field=ics_margin_type,i4,,3

                              +request=1
                              +msgid=429
                          +replies=162,99,100


          -[table:message:FutChangeClientParameters]
      +[table:message:ChangeClientParametersNextSession]
                      field=broker_code,c4,,""
                            field=code,c3
              field=calendar_spread_margin_type,i4,,3
                    +field=ics_margin_type,i4,,3

                              request=1
                              -msgid=96
                              +msgid=432
                          replies=163,99,100


    -[table:message:FutChangeBFClientDefaultParameters]
       +[table:message:ChangeBFClientDefaultParameters]
                      field=broker_code,c4,,""
                           field=code_bf,c2
          -field=num_clr_2delivery_client_default,i4,,0
            -field=exp_weight_client_default,c17,,"0"
           -field=no_fut_discount_client_default,i4,,0
          +field=num_clr_2delivery_client_default,i4,,-1
            +field=exp_weight_client_default,c17,,""
          +field=no_fut_discount_client_default,i4,,-1

                              request=1
                              msgid=402
                          replies=602,99,100

                  [table:message:OptAddOrder]
                      field=broker_code,c4,,""
                            field=isin,c25
                         field=client_code,c3
                            field=type,i4
                            field=dir,i4
                           field=amount,i4
                           field=price,c17
                        field=comment,c20,,""
                        field=broker_to,c20,,""
                           field=ext_id,i4,,0
                             -field=du,i4,,0
```

```
                    field=check_limit,i4,,0
                    field=date_exp,c8,,""
                     -field=hedge,i4,,0
                 field=dont_check_money,i4,,0
                    field=local_stamp,t
                  field=match_ref,c10,,""
                  field=ncc_request,i1,,0

                LocalTimeField=local_stamp
                        request=1
                     -msgid=416
                     +msgid=424
                   replies=109,99,100

          [table:message:OptDelUserOrders]
               field=broker_code,c4,,""
                  field=buy_sell,i4
                field=non_system,i4
                   field=code,c3
                 -field=code_vcb,c25
              +field=base_contract_code,c25
                  field=ext_id,i4,,0
               field=work_mode,i4,,11
                  field=isin,c25,,""
                 field=local_stamp,t

                LocalTimeField=local_stamp
                        request=1
                      msgid=43
                   replies=111,99,100

          [table:message:OptChangeClientProhibit]
               field=broker_code,c4,,""
                   field=mode,i4
                   field=code,c3
                 -field=code_vcb,c25
              +field=base_contract_code,c25
                  field=isin,c25
                 field=state,i4,,0
               field=state_mask,i4,,8

                        request=1
                      msgid=17
                   replies=117,99,100

          [table:message:OptChangeRiskParameters]
               field=broker_code,c4,,""
                 field=client_code,c3
             field=num_clr_2delivery,i4,,0
        field=use_broker_num_clr_2delivery,i1,,0
               field=exp_weight,c4,,0
            field=use_broker_exp_weight,i1,,0
     +field=short_option_minimum_charge_ratio,c6,,""

                        request=1
                     -msgid=69
```

FORTS_FUTCOMMON_REPL

[table:CustReplScheme:common]
field=replID,i8
field=replRev,i8
field=replAct,i8
field=sess_id,i4
field=isin_id,i4
field=best_buy,d16.5
field=xamount_buy,i8
field=orders_buy_qty,i4
field=xorders_buy_amount,i8
field=best_sell,d16.5
field=xamount_sell,i8
field=orders_sell_qty,i4
field=xorders_sell_amount,i8
field=open_price,d16.5
field=close_price,d16.5
field=price,d16.5
field=trend,d16.5
field=xamount,i8
field=deal_time,t
field=deal_time_ns,u8
field=min_price,d16.5
field=max_price,d16.5
field=avr_price,d16.5
field=xcontr_count,i8
field=capital,d26.2
field=deal_count,i4
field=old_kotir,d16.5
+field=settlement_price_open,d16.5
field=xpos,i8
field=mod_time,t
field=mod_time_ns,u8
field=cur_kotir,d16.5
-field=cur_kotir_real,d16.5
+field=market_price,d16.5
field=local_time,t

index=IDX_common_ID_U,UNIQUE,replID
index=IDX_common_REV_U,UNIQUE,replRev

FORTS_FUTINFO_REPL

table=rates
table=fut_sess_contents
table=fut_vcb

table=fut_instruments
table=fut_bond_registry
table=dealer
table=sys_messages
table=prohibition
table=multileg_dict
table=fut_rejected_orders
table=fut_intercl_info
table=fut_bond_nkd
table=fut_bond_nominal
table=fut_bond_isin
table=user
table=usd_online
table=investor
table=fut_margin_type
table=fut_settlement_account
table=session
table=sma_master
table=sma_pre_trade_check
+table=clearing_members
table=sys_events

[table:CustReplScheme:fut_sess_contents]
field=replID,i8
field=replRev,i8
field=replAct,i8
field=sess_id,i4
field=isin_id,i4
field=short_isin,c25
field=isin,c25
field=name,c75
field=inst_term,i4
field=code_vcb,c25
field=limit_up,d16.5
field=limit_down,d16.5
field=old_kotir,d16.5
field=buy_deposit,d16.2
field=sell_deposit,d16.2
field=roundto,i4
field=min_step,d16.5
field=lot_volume,i4
field=step_price,d16.5
field=d_pg,t
field=is_spread,i1
-field=d_exp,t
+field=d_exp_start,t
field=is_percent,i1
field=percent_rate,d6.2
field=last_cl_quote,d16.5
field=signs,i4
field=is_trade_evening,i1
field=ticker,i4
field=state,i4
-field=price_dir,i1
field=multileg_type,i4
field=legs_qty,i4

```
field=step_price_clr,d16.5
field=step_price_interclr,d16.5
field=step_price_curr,d16.5
field=d_start,t
field=pctyield_coeff,d16.5
field=pctyield_total,d16.5
field=d_exp_end,t
-field=d_exp_start,t
+field=base_contract_code,c25
+field=settlement_price_open,d16.5
+field=settlement_price,d16.5
+field=last_trade_date,t

index=IDX_fut_sess_contents_ID_U,UNIQUE,replID
index=IDX_fut_sess_contents_REV_U,UNIQUE,replRev

[table:CustReplScheme:fut_vcb]
field=replID,i8
field=replRev,i8
field=replAct,i8
field=code_vcb,c25
field=name,c75
field=exec_type,c1
field=curr,c3
field=trade_scheme,c1
field=section,c50
field=rate_id,i4
field=base_contract_id,i4
field=SECCODE,c12
field=is_foreign,i1
+field=signs,i4
+field=base_contract_code,c25

index=IDX_fut_vcb_ID_U,UNIQUE,replID
index=IDX_fut_vcb_REV_U,UNIQUE,replRev

[table:CustReplScheme:fut_instruments]
field=replID,i8
field=replRev,i8
field=replAct,i8
field=isin_id,i4
field=short_isin,c25
field=isin,c25
field=name,c75
field=inst_term,i4
field=code_vcb,c25
field=old_kotir,d16.5
field=roundto,i4
field=min_step,d16.5
field=lot_volume,i4
field=step_price,d16.5
field=d_pg,t
field=is_spread,i1
field=d_exp,t
field=is_percent,i1
field=percent_rate,d6.2
```

field=last_cl_quote,d16.5
field=signs,i4
-field=price_dir,i1
field=multileg_type,i4
field=legs_qty,i4
field=step_price_clr,d16.5
field=step_price_interclr,d16.5
field=step_price_curr,d16.5
field=d_start,t
field=pctyield_coeff,d16.5
field=pctyield_total,d16.5
field=exec_name,c1
+field=base_contract_code,c25
+field=settlement_price_open,d16.5
+field=last_trade_date,t
+field=d_exp_start,t
+field=settlement_price,d16.5
+field=series_type,c1

index=IDX_fut_instruments_ID_U,UNIQUE,replID
index=IDX_fut_instruments_REV_U,UNIQUE,replRev

[table:CustReplScheme:dealer]
field=replID,i8
field=replRev,i8
field=replAct,i8
field=client_code,c7
field=name,c200
field=rts_code,c50
field=signs,i4
field=status,i4
field=transfer_code,c7
field=exp_weight,d3.2
field=num_clr_2delivery,i4
field=margin_type,i1
field=calendar_spread_margin_type,i1
field=num_clr_2delivery_client_default,i4
field=exp_weight_client_default,d3.2
field=go_ratio,d16.5
field=check_limit_on_withdrawal,i1
field=limit_tied_money,i1
field=limits_set,i1
field=no_fut_discount,i1
field=no_fut_discount_client_default,i1
field=firm_id,c12
field=tm_name,c200
+field=short_option_minimum_charge_ratio,d5.3
+field=ics_margin_type,i1
+field=coeff_im,d16.5

index=IDX_dealer_ID_U,UNIQUE,replID
index=IDX_dealer_REV_U,UNIQUE,replRev

[table:CustReplScheme:prohibition]
field=replID,i8
field=replRev,i8

```
                              field=replAct,i8
                              field=prohib_id,i4
                              field=client_code,c7
                              field=initiator,i4
                              field=section,c50
                              field=code_vcb,c25
                              field=isin_id,i4
                              field=priority,i4
                              field=group_mask,i8
                              field=type,i4
                              field=is_legacy,i4
                             +field=base_contract_code,c25

                    index=IDX_prohibition_ID_U,UNIQUE,replID
                    index=IDX_prohibition_REV_U,UNIQUE,replRev

                         [table:CustReplScheme:investor]
                              field=replID,i8
                              field=replRev,i8
                              field=replAct,i8
                              field=client_code,c7
                              field=name,c200
                              field=status,i4
                         field=calendar_spread_margin_type,i1
                             +field=is_blank,i4
                +field=short_option_minimum_charge_ratio,d5.3
                          +field=ics_margin_type,i1
                             +field=coeff_im,d16.5
                           +field=no_fut_discount,i1
                          +field=num_clr_2delivery,i4
                             +field=exp_weight,d3.2

                     index=IDX_investor_ID_U,UNIQUE,replID
                     index=IDX_investor_REV_U,UNIQUE,replRev

                    +[table:CustReplScheme:clearing_members]
                             +field=replID,i8
                             +field=replRev,i8
                             +field=replAct,i8
                             +field=code,c2
                           +field=lock_type,i1
                           +field=lock_date,t
                           +field=name,c200
                                   +
              +index=IDX_clearing_members_ID_U,UNIQUE,replID
             +index=IDX_clearing_members_REV_U,UNIQUE,replRev




                              FORTS_FUTTRADE_REPL

                        [table:CustReplScheme:orders_log]
                              field=replID,i8
                              field=replRev,i8
                              field=replAct,i8
```

```
                    field=id_ord,i8
                    field=sess_id,i4
                    field=isin_id,i4
                    field=xamount,i8
                 field=xamount_rest,i8
                    field=id_deal,i8
                    field=xstatus,i8
                    field=price,d16.5
                    field=moment,t
                  field=moment_ns,u8
                      field=dir,i1
                    field=action,i1
                 field=deal_price,d16.5
                 field=client_code,c7
                 field=login_from,c20
                  field=comment,c20
                   -field=hedge,i1
                    -field=trust,i1
                    field=ext_id,i4
                  field=broker_to,c7
                field=broker_to_rts,c7
               field=broker_from_rts,c7
                   field=date_exp,t
                    field=id_ord1,i8
                 field=local_stamp,t
                    field=aspref,i4

        index=IDX_orders_log_ID_U,UNIQUE,replID
       index=IDX_orders_log_REV_U,UNIQUE,replRev

             LocalTimeField=local_stamp

       [table:CustReplScheme:multileg_orders_log]
                    field=replID,i8
                    field=replRev,i8
                    field=replAct,i8
                    field=id_ord,i8
                    field=sess_id,i4
                    field=isin_id,i4
                    field=xamount,i8
                 field=xamount_rest,i8
                    field=id_deal,i8
                    field=xstatus,i8
                    field=price,d16.5
                    field=moment,t
                  field=moment_ns,u8
                      field=dir,i1
                    field=action,i1
                 field=deal_price,d16.5
                 field=rate_price,d16.5
                 field=swap_price,d16.5
                 field=client_code,c7
                 field=login_from,c20
                  field=comment,c20
                   -field=hedge,i1
                    -field=trust,i1
```

```
                    field=ext_id,i4
                   field=broker_to,c7
                 field=broker_to_rts,c7
                field=broker_from_rts,c7
                    field=date_exp,t
                    field=id_ord1,i8
                   field=local_stamp,t
                    field=aspref,i4

    index=IDX_multileg_orders_log_ID_U,UNIQUE,replID
    index=IDX_multileg_orders_log_REV_U,UNIQUE,replRev

                 LocalTimeField=local_stamp

              [table:CustReplScheme:user_deal]
                    field=replID,i8
                    field=replRev,i8
                    field=replAct,i8
                    field=sess_id,i4
                    field=isin_id,i4
                    field=id_deal,i8
                 field=id_deal_multileg,i8
                    field=id_repo,i8
                     field=xpos,i8
                   field=xamount,i8
                  field=id_ord_buy,i8
                  field=id_ord_sell,i8
                   field=price,d16.5
                    field=moment,t
                  field=moment_ns,u8
                   field=nosystem,i1
                 field=xstatus_buy,i8
                 field=xstatus_sell,i8
                  field=ext_id_buy,i4
                  field=ext_id_sell,i4
                   field=code_buy,c7
                   field=code_sell,c7
                 field=comment_buy,c20
                 field=comment_sell,c20
                  -field=trust_buy,i1
                  -field=trust_sell,i1
                  -field=hedge_buy,i1
                  -field=hedge_sell,i1
                  field=fee_buy,d26.2
                  field=fee_sell,d26.2
                   field=login_buy,c20
                   field=login_sell,c20
                  field=code_rts_buy,c7
                  field=code_rts_sell,c7

            index=IDX_user_deal_ID_U,UNIQUE,replID
            index=IDX_user_deal_REV_U,UNIQUE,replRev

           [table:CustReplScheme:user_multileg_deal]
                    field=replID,i8
                    field=replRev,i8
```

```
field=replAct,i8
field=sess_id,i4
field=isin_id,i4
field=isin_id_rd,i4
field=isin_id_rb,i4
-field=isin_id_repo,i4
field=duration,i4
field=id_deal,i8
field=id_deal_rd,i8
field=id_deal_rb,i8
field=id_ord_buy,i8
field=id_ord_sell,i8
field=xamount,i8
field=price,d16.5
field=rate_price,d16.5
field=swap_price,d16.5
-field=buyback_amount,d16.2
field=moment,t
field=moment_ns,u8
field=nosystem,i1
field=xstatus_buy,i8
field=xstatus_sell,i8
field=ext_id_buy,i4
field=ext_id_sell,i4
field=code_buy,c7
field=code_sell,c7
field=comment_buy,c20
field=comment_sell,c20
-field=trust_buy,i1
-field=trust_sell,i1
-field=hedge_buy,i1
-field=hedge_sell,i1
field=login_buy,c20
field=login_sell,c20
field=code_rts_buy,c7
field=code_rts_sell,c7

index=IDX_user_multileg_deal_ID_U,UNIQUE,replID
index=IDX_user_multileg_deal_REV_U,UNIQUE,replRev
```

FORTS_INFO_REPL

```
table=currency_params
table=base_contracts_params
table=futures_params
-table=virtual_futures_params
+table=option_series_params
table=options_params
table=investor
table=dealer
+table=multileg_dictionary
table=common_params
-table=option_series_params
```

table=sys_events

[table:CustReplScheme:base_contracts_params]
field=replID,i8
field=replRev,i8
field=replAct,i8
field=code_vcb,c25
field=code_mcs,c25
field=volat_num,i1
field=subrisk_step,f
field=is_percent,i1
field=has_options,i1
field=percent_rate,d16.5
-field=is_usd,i1
field=somc,f
field=msp_type,i1
field=currency_id,i4
field=spot_price,f
field=mr1,f
field=mr2,f
field=mr3,f
field=lk1,i8
field=lk2,i8
field=risk_points_n,i4
+field=window_size,f
+field=base_contract_code,c25

index=IDX_base_contracts_params_ID_U,UNIQUE,replID
index=IDX_base_contracts_params_REV_U,UNIQUE,replRev

[table:CustReplScheme:futures_params]
field=replID,i8
field=replRev,i8
field=replAct,i8
field=isin,c25
field=isin_id,i4
field=code_vcb,c25
field=settl_price,d16.5
field=spread_aspect,i1
field=subrisk,i1
field=step_price,f
field=exp_date,t
field=settl_price_real,d16.5
field=min_step,f
field=lot,i4
field=interest_rate_risk_up,f
field=interest_rate_risk_down,f
field=time_to_expiration,f
field=normalized_spot,f
+field=base_contract_code,c25
+field=risk_range_center,d16.5
+field=settlement_price,d16.5

index=IDX_futures_params_ID_U,UNIQUE,replID
index=IDX_futures_params_REV_U,UNIQUE,replRev

-[table:CustReplScheme:virtual_futures_params]
+[table:CustReplScheme:option_series_params]
field=replID,i8
field=replRev,i8
field=replAct,i8
-field=isin,c25
+field=small_name,c25
field=isin_base,c25
field=a,f
field=b,f
field=c,f
field=d,f
field=e,f
-field=exp_date,t
+field=expiration_date,t
field=use_null_volat,i1
field=s,f
field=strike_step,f
field=exp_clearings_sa,i4
field=exp_clearings_bf,i4
field=exp_clearings_cc,i4
field=volatility_risk,f
field=volatility_risk_mismatch,f
field=time_to_expiration,f
+field=option_series_id,i4
+field=underlying_id,i4

-index=IDX_virtual_futures_params_ID_U,UNIQUE,replID
-index=IDX_virtual_futures_params_REV_U,UNIQUE,replRev
+index=IDX_option_series_params_ID_U,UNIQUE,replID
+index=IDX_option_series_params_REV_U,UNIQUE,replRev

[table:CustReplScheme:investor]
field=replID,i8
field=replRev,i8
field=replAct,i8
field=client_code,c7
field=calendar_spread_margin_type,i1
-field=n_clr_2delivery,i4
+field=num_clr_2delivery,i4
field=exp_weight,d3.2
field=go_ratio,d16.5
field=no_fut_discount,i1
+field=short_option_minimum_charge_ratio,d5.3
+field=ics_margin_type,i1
+field=is_blank,i4
+field=coeff_im,d16.5

index=IDX_investor_ID_U,UNIQUE,replID
index=IDX_investor_REV_U,UNIQUE,replRev

[table:CustReplScheme:dealer]
field=replID,i8
field=replRev,i8
field=replAct,i8

```
                    field=client_code,c7
                    field=margin_type,i1
          field=calendar_spread_margin_type,i1
            field=check_limit_on_withdrawal,i1
                  field=limit_tied_money,i1
                  field=num_clr_2delivery,i4
                    field=exp_weight,d3.2
                    field=go_ratio,d16.5
                  field=no_fut_discount,i1
          field=num_clr_2delivery_client_default,i4
            field=exp_weight_client_default,d3.2
            field=no_fut_discount_client_default,i1
         +field=short_option_minimum_charge_ratio,d5.3
                 +field=ics_margin_type,i1
                    +field=coeff_im,d16.5

             index=IDX_dealer_ID_U,UNIQUE,replID
             index=IDX_dealer_REV_U,UNIQUE,replRev

           -[table:CustReplScheme:common_params]
           +[table:CustReplScheme:multileg_dictionary]
                     field=replID,i8
                     field=replRev,i8
                     field=replAct,i8
                   -field=common_rev,i4
                    -field=edge_coeff,f
                     +field=isin_id,i4
                   +field=isin_id_leg,i4
                   +field=leg_order_no,i1

       -index=IDX_common_params_ID_U,UNIQUE,replID
      -index=IDX_common_params_REV_U,UNIQUE,replRev
      +index=IDX_multileg_dictionary_ID_U,UNIQUE,replID
     +index=IDX_multileg_dictionary_REV_U,UNIQUE,replRev

          -[table:CustReplScheme:option_series_params]
            +[table:CustReplScheme:common_params]
                     field=replID,i8
                     field=replRev,i8
                     field=replAct,i8
                   -field=small_name,c25
                    -field=isin_base,c25
                        -field=a,f
                        -field=b,f
                        -field=c,f
                        -field=d,f
                        -field=e,f
                  -field=expiration_date,t
                   -field=use_null_volat,i1
                        -field=s,f
                    -field=strike_step,f
                  -field=exp_clearings_sa,i4
                  -field=exp_clearings_bf,i4
                  -field=exp_clearings_cc,i4
                   -field=volatility_risk,f
              -field=volatility_risk_mismatch,f
```

-field=time_to_expiration,f
-field=option_series_id,i4
-field=underlying_id,i4
+field=common_rev,i4
+field=edge_coeff,f

-index=IDX_option_series_params_ID_U,UNIQUE,replID
-index=IDX_option_series_params_REV_U,UNIQUE,replRev
+index=IDX_common_params_ID_U,UNIQUE,replID
+index=IDX_common_params_REV_U,UNIQUE,replRev

FORTS_OPTCOMMON_REPL

[table:CustReplScheme:common]
field=replID,i8
field=replRev,i8
field=replAct,i8
field=sess_id,i4
field=isin_id,i4
field=best_buy,d16.5
field=xamount_buy,i8
field=orders_buy_qty,i4
field=xorders_buy_amount,i8
field=best_sell,d16.5
field=xamount_sell,i8
field=orders_sell_qty,i4
field=xorders_sell_amount,i8
field=open_price,d16.5
field=close_price,d16.5
field=price,d16.5
field=trend,d16.5
field=xamount,i8
field=deal_time,t
field=deal_time_ns,u8
field=min_price,d16.5
field=max_price,d16.5
field=avr_price,d16.5
field=xcontr_count,i8
field=capital,d26.2
field=deal_count,i4
field=old_kotir,d16.5
+field=settlement_price_open,d16.5
field=xpos,i8
field=mod_time,t
field=mod_time_ns,u8
field=local_time,t

index=IDX_common_ID_U,UNIQUE,replID
index=IDX_common_REV_U,UNIQUE,replRev

FORTS_OPTINFO_REPL

[table:CustReplScheme:opt_sess_contents]
field=replID,i8
field=replRev,i8
field=replAct,i8
field=sess_id,i4
field=isin_id,i4
field=isin,c25
field=short_isin,c25
field=name,c75
field=code_vcb,c25
field=fut_isin_id,i4
field=old_kotir,d16.5
field=bgo_c,d16.2
field=bgo_nc,d16.2
field=europe,i1
field=put,i1
field=strike,d16.5
field=roundto,i4
field=min_step,d16.5
field=lot_volume,i4
field=step_price,d16.5
field=d_pg,t
field=d_exec_beg,t
field=d_exec_end,t
field=signs,i4
field=last_cl_quote,d16.5
field=bgo_buy,d16.2
field=base_isin_id,i4
field=option_series_id,i4
field=d_start,t
+field=base_contract_code,c25
+field=settlement_price_open,d16.5
+field=base_im_covered_sell,d16.2
+field=base_im_sell,d16.2
+field=last_trade_date,t
+field=base_im_buy,d16.2
+field=settlement_price,d16.5

index=IDX_opt_sess_contents_ID_U,UNIQUE,replID
index=IDX_opt_sess_contents_REV_U,UNIQUE,replRev

[table:CustReplScheme:opt_vcb]
field=replID,i8
field=replRev,i8
field=replAct,i8
field=code_vcb,c25
field=name,c75
field=exec_type,c1
field=curr,c3
field=trade_scheme,c1
field=rate_id,i4
field=base_contract_id,i4
+field=base_contract_code,c25

```
                    index=IDX_opt_vcb_ID_U,UNIQUE,replID
                    index=IDX_opt_vcb_REV_U,UNIQUE,replRev


                    [table:CustReplScheme:option_series]
                            field=replID,i8
                            field=replRev,i8
                            field=replAct,i8
                            field=series_id,i4
                          field=underlying_id,i4
                        field=base_contract_id,i4
                         field=expiration_date,t
                    field=expiration_anchor_date,t
                      field=days_to_expiration,i4
                      field=years_to_expiration,f
                          field=series_type,c1
                          field=small_name,c25
                             field=A,d20.15
                             field=B,d20.15
                             field=C,d20.15
                             field=D,d20.15
                             field=E,d20.15
                             field=S,d20.15
                         field=strike_step,d16.5
                         field=use_null_volat,i1
                            field=sub_risk,i1
                          field=volat_min,d20.15
                          field=volat_max,d20.15
                          field=volatility_risk,f
                    field=volatility_mismatch_risk,f
                            +field=signs,i4

                  index=IDX_option_series_ID_U,UNIQUE,replID
                  index=IDX_option_series_REV_U,UNIQUE,replRev




                         FORTS_OPTTRADE_REPL

                    [table:CustReplScheme:orders_log]
                            field=replID,i8
                            field=replRev,i8
                            field=replAct,i8
                            field=id_ord,i8
                            field=sess_id,i4
                            field=isin_id,i4
                           field=xamount,i8
                         field=xamount_rest,i8
                            field=id_deal,i8
                           field=xstatus,i8
                           field=price,d16.5
                           field=moment,t
                          field=moment_ns,u8
                             field=dir,i1
```

```
field=action,i1
field=deal_price,d16.5
field=client_code,c7
field=login_from,c20
field=comment,c20
-field=hedge,i1
-field=trust,i1
field=ext_id,i4
field=broker_to,c7
field=broker_to_rts,c7
field=broker_from_rts,c7
field=date_exp,t
field=id_ord1,i8
field=local_stamp,t
field=aspref,i4

index=IDX_orders_log_ID_U,UNIQUE,replID
index=IDX_orders_log_REV_U,UNIQUE,replRev

LocalTimeField=local_stamp

[table:CustReplScheme:user_deal]
field=replID,i8
field=replRev,i8
field=replAct,i8
field=sess_id,i4
field=isin_id,i4
field=id_deal,i8
field=id_deal_multileg,i8
field=xpos,i8
field=xamount,i8
field=id_ord_buy,i8
field=id_ord_sell,i8
field=price,d16.5
field=moment,t
field=moment_ns,u8
field=nosystem,i1
field=xstatus_buy,i8
field=xstatus_sell,i8
field=ext_id_buy,i4
field=ext_id_sell,i4
field=code_buy,c7
field=code_sell,c7
field=comment_buy,c20
field=comment_sell,c20
-field=trust_buy,i1
-field=trust_sell,i1
-field=hedge_buy,i1
-field=hedge_sell,i1
field=fee_buy,d26.2
field=fee_sell,d26.2
field=login_buy,c20
field=login_sell,c20
field=code_rts_buy,c7
field=code_rts_sell,c7
```

index=IDX_user_deal_ID_U,UNIQUE,replID
index=IDX_user_deal_REV_U,UNIQUE,replRev

FORTS_FUTORDERBOOK_REPL

[table:CustReplScheme:orders]
field=replID,i8
field=replRev,i8
field=replAct,i8
field=id_ord,i8
field=sess_id,i4
field=client_code,c7
field=moment,t
field=moment_ns,u8
field=xstatus,i8
field=action,i1
field=isin_id,i4
field=dir,i1
field=price,d16.5
field=xamount,i8
field=xamount_rest,i8
field=comment,c20
-field=hedge,i1
-field=trust,i1
field=ext_id,i4
field=login_from,c20
field=broker_to,c7
field=broker_to_rts,c7
field=date_exp,t
field=id_ord1,i8
field=broker_from_rts,c7
field=aspref,i4
field=init_moment,t
field=xinit_amount,i8

index=IDX_orders_ID_U,UNIQUE,replID
index=IDX_orders_REV_U,UNIQUE,replRev

FORTS_VM_REPL

[table:CustReplScheme:fut_vm]
field=replID,i8
field=replRev,i8
field=replAct,i8
field=isin_id,i4
-field=sess_id,i4
field=client_code,c7
+field=sess_id,i4
field=vm,d16.5
-field=vm_real,d16.5

```
                    index=IDX_fut_vm_ID_U,UNIQUE,replID
                    index=IDX_fut_vm_REV_U,UNIQUE,replRev

                    [table:CustReplScheme:opt_vm]
                              field=replID,i8
                              field=replRev,i8
                              field=replAct,i8
                              field=isin_id,i4
                             -field=sess_id,i4
                             field=client_code,c7
                              +field=sess_id,i4
                               field=vm,d16.5
                             -field=vm_real,d16.5

                    index=IDX_opt_vm_ID_U,UNIQUE,replID
                    index=IDX_opt_vm_REV_U,UNIQUE,replRev

                    [table:CustReplScheme:fut_vm_sa]
                              field=replID,i8
                              field=replRev,i8
                              field=replAct,i8
                              field=isin_id,i4
                             -field=sess_id,i4
                       field=settlement_account,c12
                              +field=sess_id,i4
                               field=vm,d26.2
                             -field=vm_real,d26.2

                  index=IDX_fut_vm_sa_ID_U,UNIQUE,replID
                  index=IDX_fut_vm_sa_REV_U,UNIQUE,replRev

                    [table:CustReplScheme:opt_vm_sa]
                              field=replID,i8
                              field=replRev,i8
                              field=replAct,i8
                              field=isin_id,i4
                             -field=sess_id,i4
                       field=settlement_account,c12
                              +field=sess_id,i4
                               field=vm,d26.2
                             -field=vm_real,d26.2

                  index=IDX_opt_vm_sa_ID_U,UNIQUE,replID
                  index=IDX_opt_vm_sa_REV_U,UNIQUE,replRev
```