

## 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,reprID  
index=IDX\_opt\_pos\_REV\_U,UNIQUE,reprRev

[table:CustReplScheme:pledge\_details]

field=reprID,i8  
field=reprRev,i8  
field=reprAct,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,reprID  
index=IDX\_pledge\_details\_REV\_U,UNIQUE,reprRev

[table:CustReplScheme:money\_clearing\_sa]

field=reprID,i8  
field=reprRev,i8  
field=reprAct,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,reprID  
index=IDX\_money\_clearing\_sa\_REV\_U,UNIQUE,reprRev

## **FORTS\_DEALS\_REPL**

[table:CustReplScheme:multileg\_deal]

field=reprID,i8  
field=reprRev,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

+msgid=434  
replies=140,99,100

### **FORTS\_FUTCOMMON\_REPL**

[table:CustReplScheme:common]

field=reprID,i8  
field=reprRev,i8  
field=reprAct,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,reprID  
index=IDX\_common\_REV\_U,UNIQUE,reprRev

### **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=reprID,i8  
field=reprRev,i8  
field=reprAct,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,reprID  
index=IDX\_fut\_sess\_contents\_REV\_U,UNIQUE,reprRev

[table:CustReplScheme:fut\_vcb]

field=reprID,i8  
field=reprRev,i8  
field=reprAct,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,reprID  
index=IDX\_fut\_vcb\_REV\_U,UNIQUE,reprRev

[table:CustReplScheme:fut\_instruments]

field=reprID,i8  
field=reprRev,i8  
field=reprAct,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,reprID  
index=IDX\_fut\_instruments\_REV\_U,UNIQUE,reprRev

[table:CustReplScheme:dealer]

field=reprID,i8  
field=reprRev,i8  
field=reprAct,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,reprID  
index=IDX\_dealer\_REV\_U,UNIQUE,reprRev

[table:CustReplScheme:prohibition]

field=reprID,i8  
field=reprRev,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,reprID  
index=IDX\_orders\_log\_REV\_U,UNIQUE,reprRev

LocalTimeField=local\_stamp

[table:CustReplScheme:multileg\_orders\_log]

field=reprID,i8  
field=reprRev,i8  
field=reprAct,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,reprID  
index=IDX\_multileg\_orders\_log\_REV\_U,UNIQUE,reprRev

LocalTimeField=local\_stamp

[table:CustReplScheme:user\_deal]

field=reprID,i8  
field=reprRev,i8  
field=reprAct,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,reprID  
index=IDX\_user\_deal\_REV\_U,UNIQUE,reprRev

[table:CustReplScheme:user\_multileg\_deal]

field=reprID,i8  
field=reprRev,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,reprID  
index=IDX\_user\_multileg\_deal\_REV\_U,UNIQUE,reprRev

### **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=reprID,i8  
field=reprRev,i8  
field=reprAct,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,reprID  
index=IDX\_base\_contracts\_params\_REV\_U,UNIQUE,reprRev

[table:CustReplScheme:futures\_params]

field=reprID,i8  
field=reprRev,i8  
field=reprAct,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,reprID  
index=IDX\_futures\_params\_REV\_U,UNIQUE,reprRev

```
-[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,reprID  
index=IDX\_dealer\_REV\_U,UNIQUE,reprRev

-[table:CustReplScheme:common\_params]  
+[table:CustReplScheme:multileg\_dictionary]

field=reprID,i8  
field=reprRev,i8  
field=reprAct,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,reprID  
-index=IDX\_common\_params\_REV\_U,UNIQUE,reprRev  
+index=IDX\_multileg\_dictionary\_ID\_U,UNIQUE,reprID  
+index=IDX\_multileg\_dictionary\_REV\_U,UNIQUE,reprRev

-[table:CustReplScheme:option\_series\_params]  
+[table:CustReplScheme:common\_params]

field=reprID,i8  
field=reprRev,i8  
field=reprAct,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,reprID  
-index=IDX\_option\_series\_params\_REV\_U,UNIQUE,reprRev  
+index=IDX\_common\_params\_ID\_U,UNIQUE,reprID  
+index=IDX\_common\_params\_REV\_U,UNIQUE,reprRev

### **FORTS\_OPTCOMMON\_REPL**

[table:CustReplScheme:common]

field=reprID,i8  
field=reprRev,i8  
field=reprAct,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,reprID  
index=IDX\_common\_REV\_U,UNIQUE,reprRev

## 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,reprID  
index=IDX\_opt\_vcb\_REV\_U,UNIQUE,reprRev

[table:CustReplScheme:option\_series]

field=reprID,i8  
field=reprRev,i8  
field=reprAct,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,reprID  
index=IDX\_option\_series\_REV\_U,UNIQUE,reprRev

## **FORTS\_OPTTRADE\_REPL**

[table:CustReplScheme:orders\_log]

field=reprID,i8  
field=reprRev,i8  
field=reprAct,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,reprID  
index=IDX\_orders\_log\_REV\_U,UNIQUE,reprRev

LocalTimeField=local\_stamp

[table:CustReplScheme:user\_deal]

field=reprID,i8  
field=reprRev,i8  
field=reprAct,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,reprID  
index=IDX\_user\_deal\_REV\_U,UNIQUE,reprRev

### **FORTS\_FUTORDERBOOK\_REPL**

[table:CustReplScheme:orders]

field=reprID,i8  
field=reprRev,i8  
field=reprAct,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,reprID  
index=IDX\_orders\_REV\_U,UNIQUE,reprRev

### **FORTS\_VM\_REPL**

[table:CustReplScheme:fut\_vm]

field=reprID,i8  
field=reprRev,i8  
field=reprAct,i8  
field=isin\_id,i4  
~~field=sess\_id,i4~~  
field=client\_code,c7  
~~field=vm\_real,d16.5~~  
+field=vm,d16.5

index=IDX\_fut\_vm\_ID\_U,UNIQUE,reprID  
index=IDX\_fut\_vm\_REV\_U,UNIQUE,reprRev

[table:CustReplScheme:opt\_vm]  
field=reprID,i8  
field=reprRev,i8  
field=reprAct,i8  
field=isin\_id,i4  
~~field=sess\_id,i4~~  
field=client\_code,c7  
~~field=vm,d16.5~~  
~~field=vm\_real,d16.5~~

index=IDX\_opt\_vm\_ID\_U,UNIQUE,reprID  
index=IDX\_opt\_vm\_REV\_U,UNIQUE,reprRev

[table:CustReplScheme:fut\_vm\_sa]  
field=reprID,i8  
field=reprRev,i8  
field=reprAct,i8  
field=isin\_id,i4  
~~field=sess\_id,i4~~  
field=settlement\_account,c12  
~~field=vm,d26.2~~  
~~field=vm\_real,d26.2~~

index=IDX\_fut\_vm\_sa\_ID\_U,UNIQUE,reprID  
index=IDX\_fut\_vm\_sa\_REV\_U,UNIQUE,reprRev

[table:CustReplScheme:opt\_vm\_sa]  
field=reprID,i8  
field=reprRev,i8  
field=reprAct,i8  
field=isin\_id,i4  
~~field=sess\_id,i4~~  
field=settlement\_account,c12  
~~field=vm,d26.2~~  
~~field=vm\_real,d26.2~~

index=IDX\_opt\_vm\_sa\_ID\_U,UNIQUE,reprID  
index=IDX\_opt\_vm\_sa\_REV\_U,UNIQUE,reprRev