

Data migration

-
-
-
- updated_at + id
- 3.1
- 3.2
- 3.3
- 3.4
- 3.5
 - 3.5.1
 - 3.5.2
 - 3.5.3
 - 3.5.4
 - 3.5.5
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- check list
-
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- open account
- data migration
- switch to pay_core
-
-

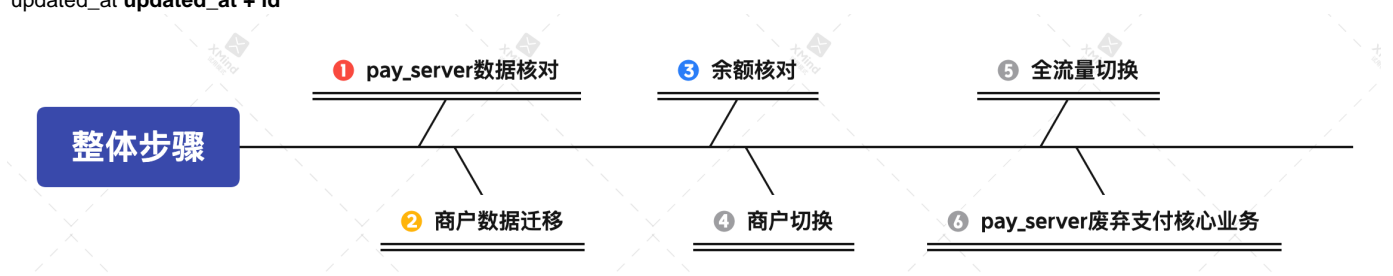
- 1
- 2
- 3

updated_at + id

3.1

~~updated_at updated_at + id~~

updated_at updated_at + id



1. ~~pay_server~~ pay_server pay_server
2. pay_server pay_core pay_account_core
3. pay_account_corepay_server
4. pay_core pay_core pay_server pay_server
5. pay_server pay_core pay_server

3.2

		account_records	
payment	payment_records	payment_records inbound_fund_request_records offchain_inbound_fund_records onchain_inbound_fund_records payment_deposit_records transactions	
rebound	rebound_records	rebound_records outbound_fund_request_records transactions	
refund	refund_records	refund_records outbound_fund_request_records transactions	
conversion	conversion_records	conversion_records transactions	
balance adjustment	balance_adjustment_requests	balance_adjustment_requests transactions	
payout	payout_records	payout_records outbound_fund_request_records transactions	

	account_records
payment	payment_records inbound_fund_request_records offchain_inbound_fund_records onchain_inbound_fund_records payment_deposit_records transactions defi_swap_transaction_records hedging_records whitelist_addresses
rebound	rebound_records outbound_fund_request_records transactions
refund	refund_records outbound_fund_request_records transactions

conversion	conversion_records transactions
balance adjustment	balance_adjustment_requests transactions
payout	payout_records outbound_fund_request_records transactions fiat_payout_records victor_fi_counterparties

3.3

~~refund-payment~~

~~payment_records conversion_records balance_adjustment_requests(+) balance_adjustment_requests(-) rebound_records refund_records
payout_records~~

3.4

updated_at + id

update_at update_at ID

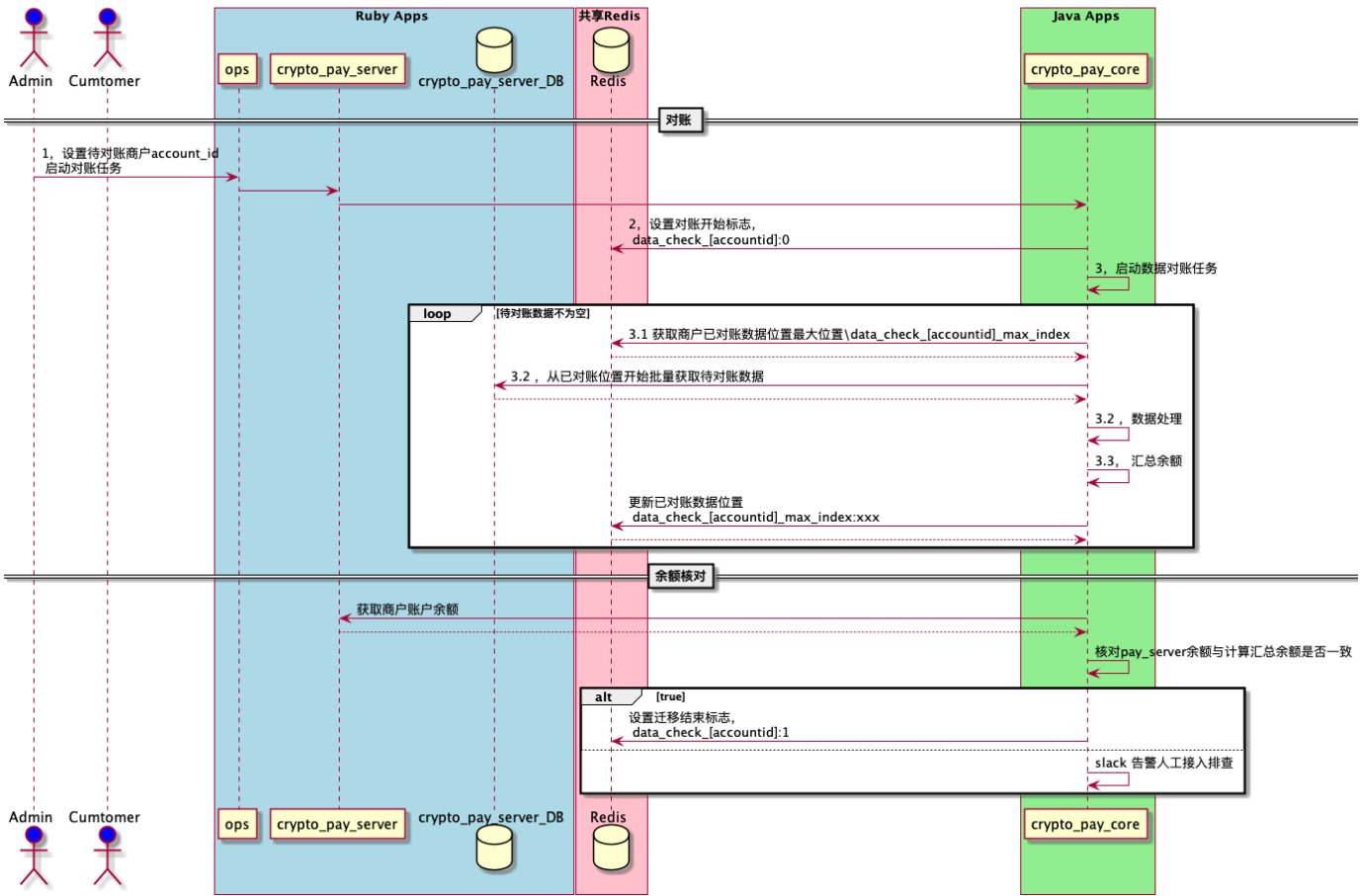
pay_server update_at railsupdated_at job00:00:0100:00:0000:00:00job1jobjob

3.5

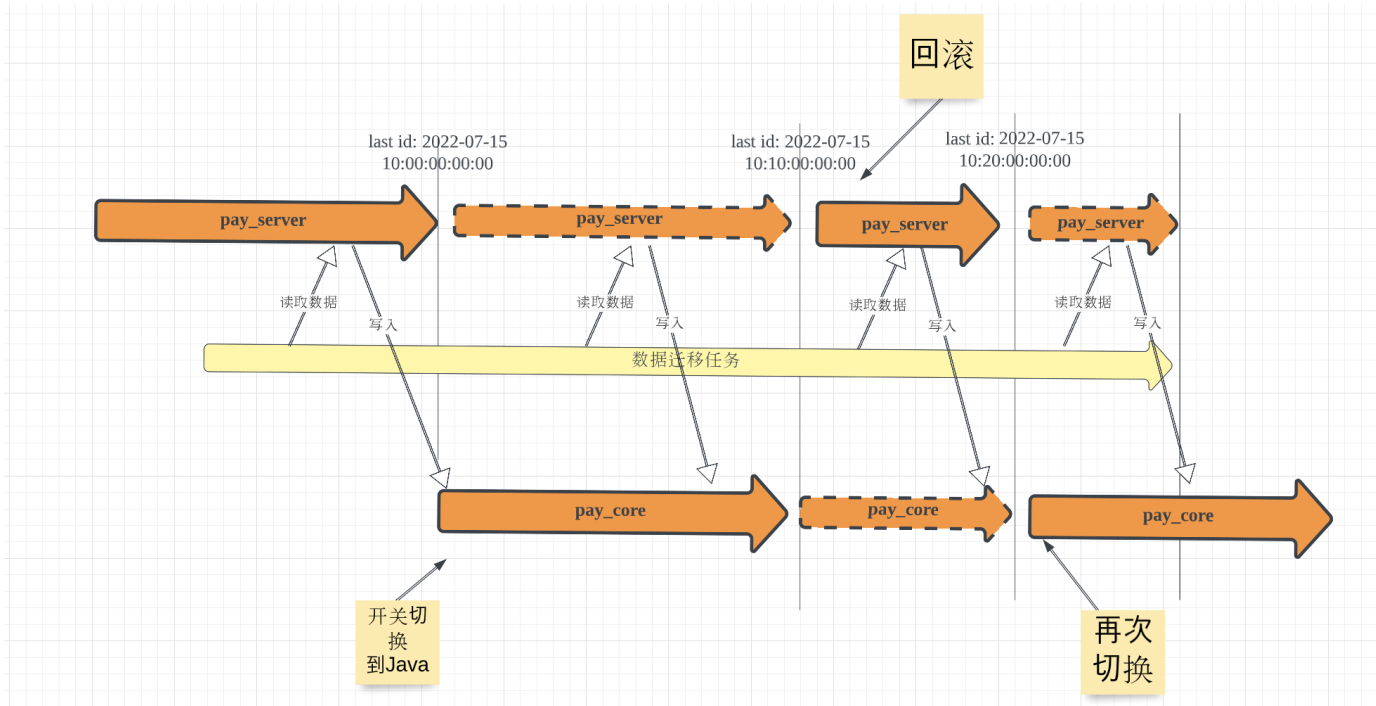
~~3.5.1~~

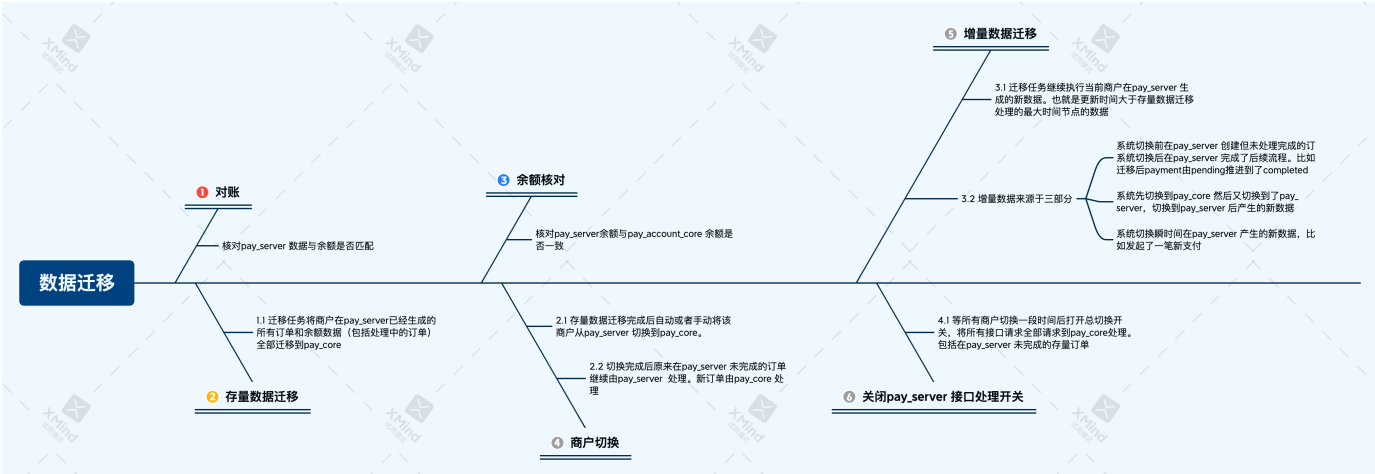
~~pay_server pay_server pay_server~~

对账

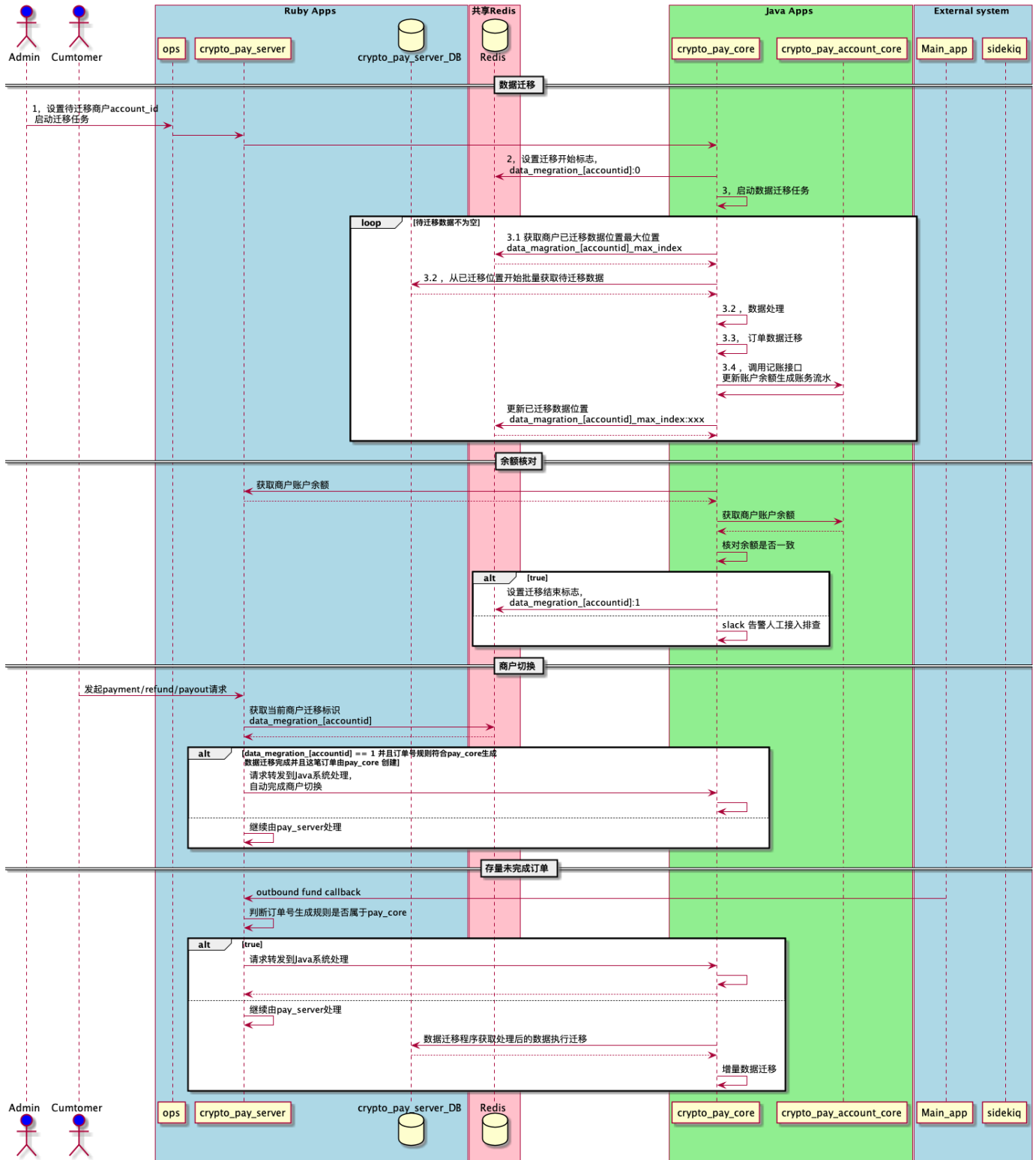


3.5.2





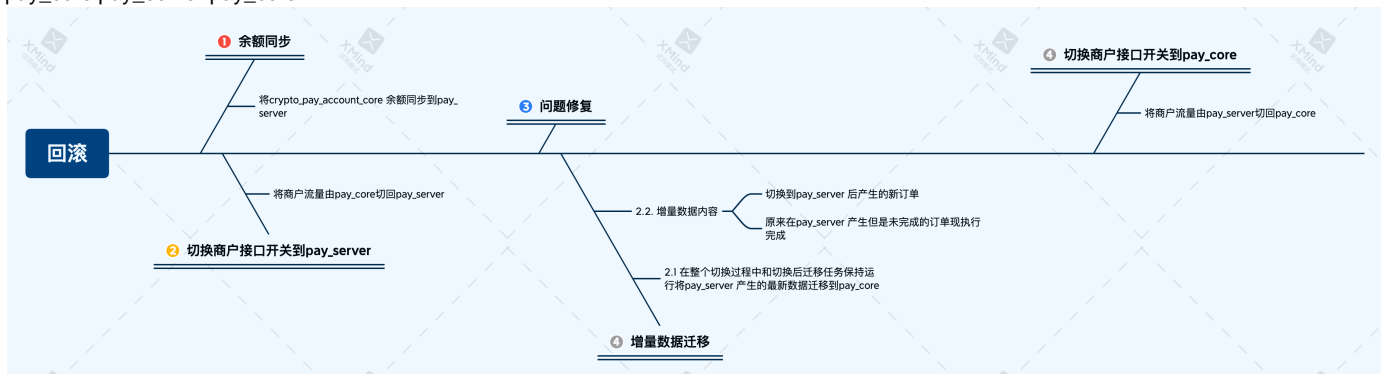
数据迁移



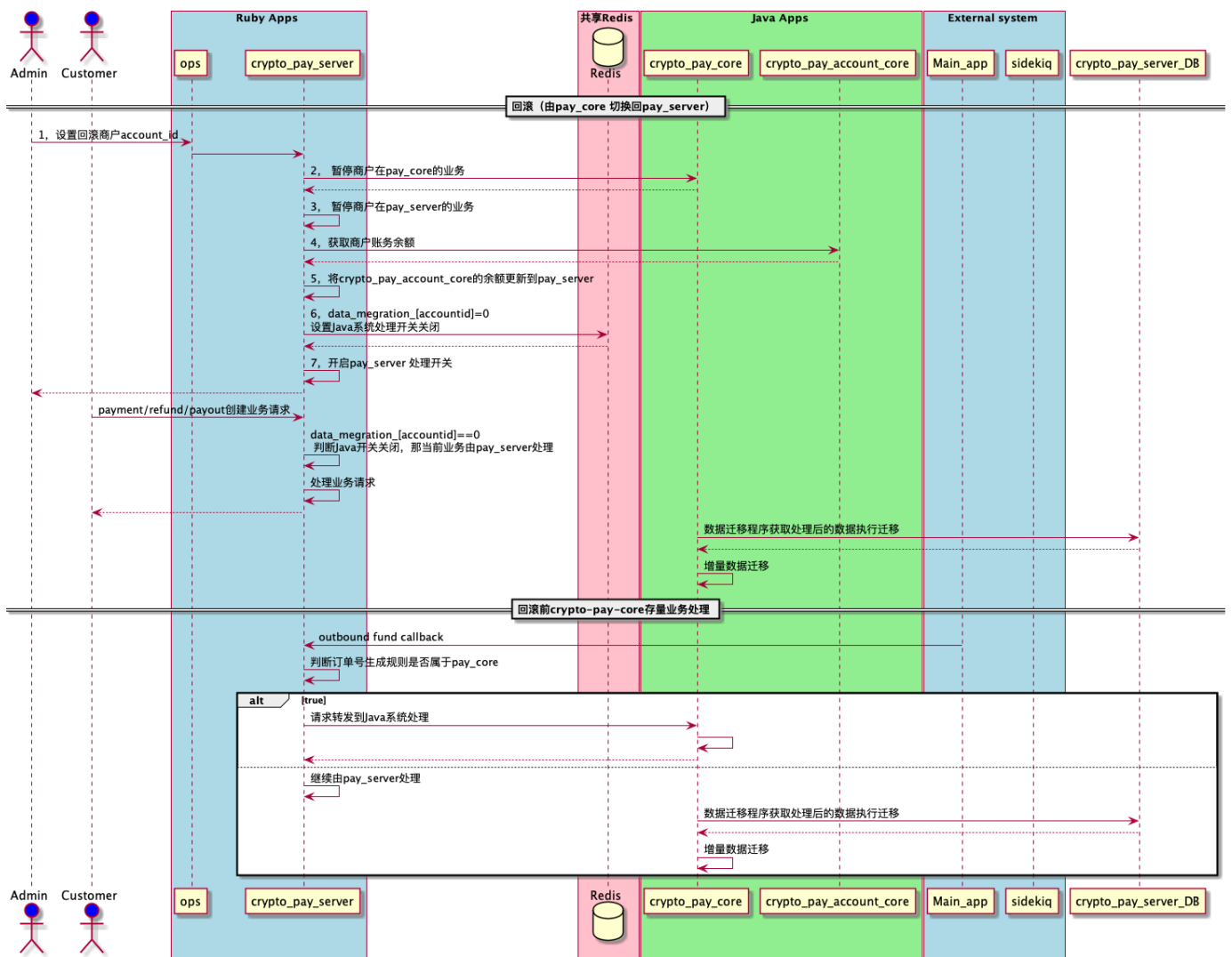
1. pay_server pay_core.
- 2.
3. updated_at
4. pay_server crypto_pay_account_core
5. pay_server pay_server pay_server pay_core pay_core inbound/outboundjobpay_corepay_corepay_server pay_server

3.5.3

pay_core pay_server pay_core



数据迁移回滚流程



- 1ops pay_server API
- 2pay_server crypto-pay-core:v1:roll_back_accounts (rides)
- 32pay_core
- 4pay_server account_core pay_server
- 5pay_server account_id pay_core pay_server

62 crypto-pay-core:v1:roll_back_accounts (rides)
7 crypto-pay-core:v1:in_roll_back_accounts (rides)

- pay_core
 - 1 ops pay_server API
 - 2 pay_server account_id pay_server pay_core
 - 3, crypto-pay-core:v1:in_roll_back_accounts (rides)

1. pay_server pay_core pay_corepay_server
2. 2pay_server pay_core pay_server pay_server
3. 5 pay_core pay_server pay_server pay_core pay_server
pay_server 100USDpay_core50USDpayout50USDpay_core pay_server pay_server 100USDpay_server 50USD
4. pay_core pay_core pay_server pay_core inbound/outboundjobpay_corepay_corepay_server pay_server

3.5.4

- pay_corepay_server subscription/invoice pay_core
-

3.5.5

- bug
- pay_server capture
- updated_at
- pay_server

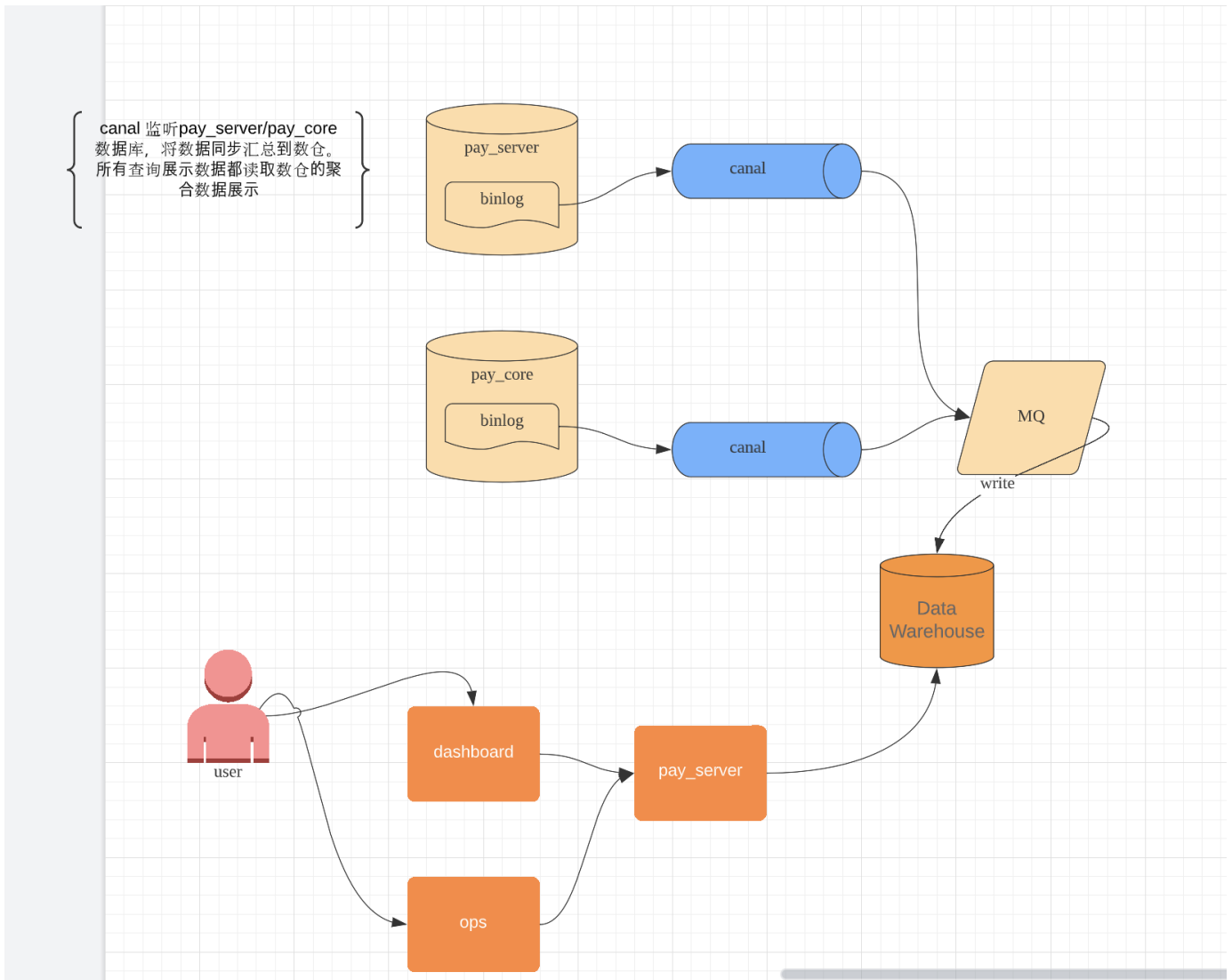
QA

1@CJ

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-
-

-
-

- pay_core



1canalpay_serverpay_core binlogbinlogMQdata team MQ

2dashboard opspay_server

3pay_serverpay_server pay_core

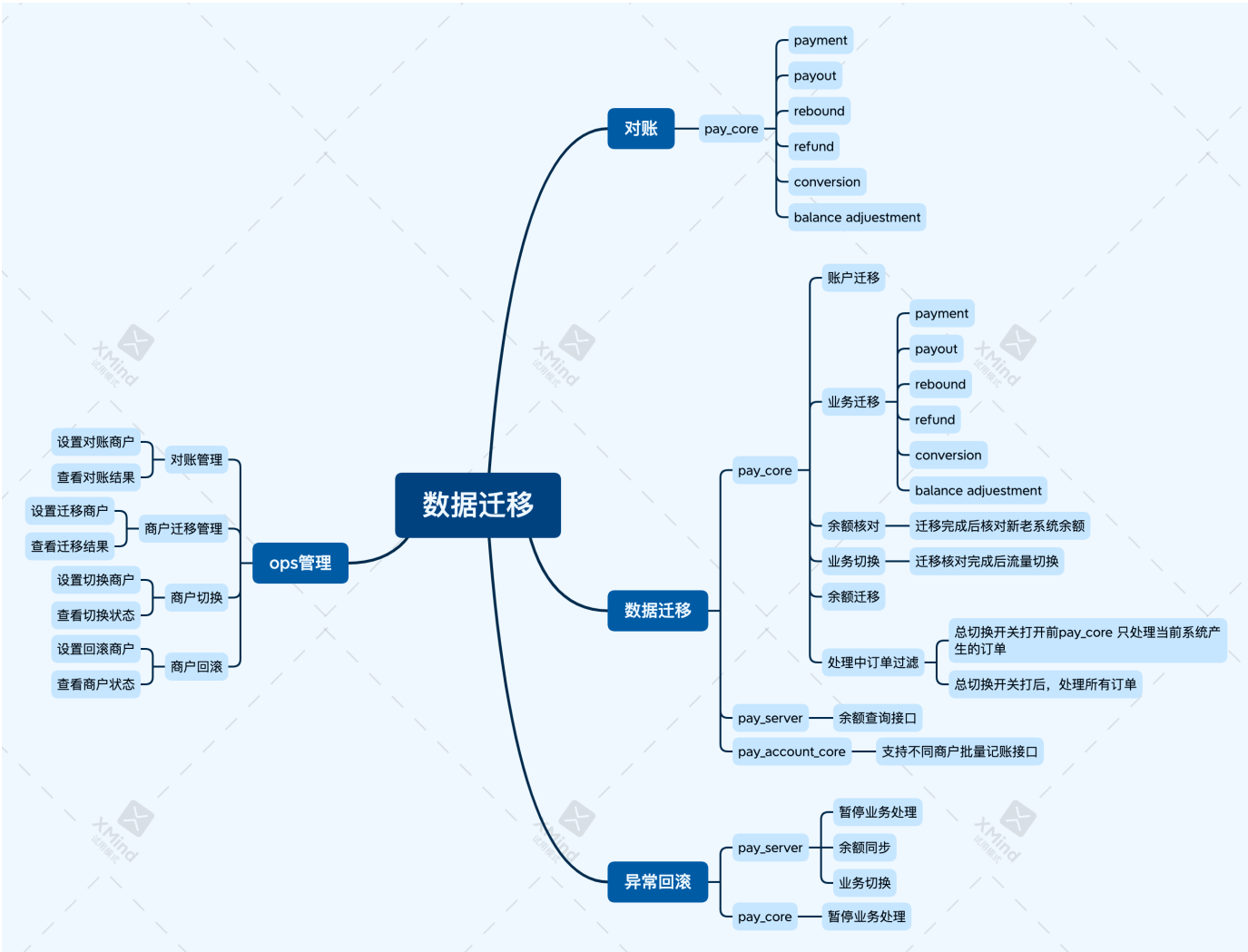
4Javapay_serverpay_account_core pay_server/pay_core pay_account_core

:
1graphql
2
3
4
5pay_core
6

1data team
2TIDBMysqlPG

pay_server Java

-
-
-
- dashboard
-



			yapi
pay_core		pay_server accountaccount_core	https://yapi-pay.3ona.co/project/95/interface/api/1143
pay_core	account_id	account_id ,account_core	https://yapi-pay.3ona.co/project/95/interface/api/1149

pay_core		account_id	https://yapi-pay.3ona.co/project/95/interface/api/1131
pay_core	transaction- balance	account_id transaction	https://yapi-pay.3ona.co/project/95/interface/api/1137
pay_core		accountpay_core	https://yapi-pay.3ona.co/project/95/interface/api/1155
pay_core			https://yapi-pay.3ona.co/project/95/interface/api/1161
pay_core	payment_records		https://yapi-pay.3ona.co/project/95/interface/api/1209
pay_core	event_record	event_record event_record	
pay_core	event_record transaction		
pay_core	transactionevent_record		



mapping_v2.xlsx

<https://docs.google.com/spreadsheets/d/1laL0d41dBsGUx6Fe2BltQ1ShMB2vRE7eyt1blsgFDR8/edit?pli=1#gid=90517436>

check list

			status	date
	:	yong.bao	done	
	<input checked="" type="checkbox"/> podpod:	benko		
	<input type="checkbox"/>			

		yong.bao benko	done	
	Job			
	1crypto_pay_account_core 2crypto_pay_core 3crypto_pay_server	yong.bao benko	<input checked="" type="checkbox"/> crypto_pay_acc ount_core <input checked="" type="checkbox"/> crypto_pay_core <input checked="" type="checkbox"/> crypto_pay_ser ver	2022-9-30 2022-9-30 2022-10-13
		yong.bao	<input checked="" type="checkbox"/> done	2022-9-29
	crypto_pay_core pay_server	yong.bao	<input checked="" type="checkbox"/> done	2022-9-29
SM	crypto_pay_core pay_server	yong.bao	<input checked="" type="checkbox"/> done	2022-9-29
	account_id	yong.bao	<input checked="" type="checkbox"/> hedging_records <input checked="" type="checkbox"/> inbound_fund_r equest_records <input checked="" type="checkbox"/> offchain_inboun d_fund_records <input checked="" type="checkbox"/> onchain_inb ound_fund_r ecords <input checked="" type="checkbox"/> defi_swap_t ransaction_ records <input checked="" type="checkbox"/> whitelist_a ddresses	2022-9-30
	JVM <ul style="list-style-type: none"> Memory CPU GC 	yong.bao	JVM Memory: CPU GC	2022-10-06 jobpodpod

server	issue	owner	status
pay_core(data_migration)	podpay_server pay_core pod	yong.bao	
pay_core			

liviMode=true, payment record exist, inbound_fund_request_record not exist

```

irb(main):074:0> query = <<-SQL
irb(main):075:0"   select count(*) from payment_records a where a.
live_mode is true
irb(main):076:0"   and not exists (select 1 from
inbound_fund_request_records b where a."id"=b.reference_id)
irb(main):077:0" SQL
=> "   select count(*) from payment_records a where a.live_mode is true
\n   and not exists (select 1 from inbound_fund_request_records b where
a.\"id\"=b.reference_id)\n"
irb(main):078:0> result = ActiveRecord::Base.connection.execute(query)
=> #<PG::Result:0x00005c8ed8c51480 status=PGRES_TUPLES_OK ntuples=1
nfields=1 cmd_tuples=1>
irb(main):079:0> pp result.values
[[12869]]
=> [[12869]]
irb(main):080:0>

```

liveMode=true and status= captured, payment_deposit_record not exist

```

irb(main):015:0>
irb(main):016:0> query = <<-SQL
irb(main):017:0"   select count(*) from payment_records a where a.
live_mode is true and a.status='captured'
irb(main):018:0"   and not exists (select 1 from
payment_deposit_records b where a."id"=b."id")
irb(main):019:0" SQL
=> "   select count(*) from payment_records a where a.live_mode is true
and a.status='captured' \n   and not exists (select 1 from
payment_deposit_records b where a.\"id\"=b.\"id\")\n"
irb(main):020:0> result = ActiveRecord::Base.connection.execute(query)
=> #<PG::Result:0x00005c8ed3ebce68 status=PGRES_TUPLES_OK ntuples=1
nfields=1 cmd_tuples=1>
irb(main):021:0> pp result.values
[[7]]
=> [[7]]

```

liveMode=true and status= captured, payment_deposit_record exist, transaction_record not exist

```

irb(main):022:0>
irb(main):023:0> query = <<-SQL
irb(main):024:0"   select count(*) from payment_records a,
payment_deposit_records b
irb(main):025:0"   where a.live_mode is true and a.status='captured'
and a."id"=b."id"
irb(main):026:0"   and not exists (select 1 from transactions c where
a."id"::text=c.resource_id)
irb(main):027:0" SQL
=> "   select count(*) from payment_records a, payment_deposit_records b
\n   where a.live_mode is true and a.status='captured' and a.\"id\"=b.\"
id\"\\n   and not exists (select 1 from transactions c where a.\"id\"::
text=c.resource_id)\\n"
irb(main):028:0> result = ActiveRecord::Base.connection.execute(query)
=> #<PG::Result:0x00005c8ed4e37e60 status=PGRES_TUPLES_OK ntuples=1
nfields=1 cmd_tuples=1>
irb(main):029:0> pp result.values
[[1]]
=> [[1]]

```

type = reboundstatus != pendingoutbound_fund_request_records not exist

```

irb(main):030:0>
irb(main):031:0> query = <<-SQL
irb(main):032:0"   select count(*) from rebound_records a where a.
status != 'pending' and
irb(main):033:0"   not exists (select 1 from
outbound_fund_request_records o where a."id"::text = o.action_id
irb(main):034:0"   or a.onchain_inbound_fund_record_id::text = o.
action_id)
irb(main):035:0" SQL
=> "   select count(*) from rebound_records a where a.status !=
'pending' and \n   not exists (select 1 from
outbound_fund_request_records o where a.\"id\"::text = o.action_id \n
or a.onchain_inbound_fund_record_id::text = o.action_id)\\n"
irb(main):036:0> result = ActiveRecord::Base.connection.execute(query)
=> #<PG::Result:0x00005c8ed55d7a80 status=PGRES_TUPLES_OK ntuples=1
nfields=1 cmd_tuples=1>
irb(main):037:0> pp result.values
[[0]]
=> [[0]]

```

type = refund, status= done, refund record exist, outbound_fund_request_records not exist

```

irb(main):038:0>
irb(main):039:0> query = <<-SQL
irb(main):040:0"   select count(*) from refund_records a where a.
status='done' and
irb(main):041:0"   not exists (select 1 from
outbound_fund_request_records o where a."id"::text=o.action_id)
irb(main):042:0" SQL
=> "   select count(*) from refund_records a where a.status='done' and
\n   not exists (select 1 from outbound_fund_request_records o where a.\"
id\"::text=o.action_id)\n"
irb(main):043:0> result = ActiveRecord::Base.connection.execute(query)
=> #<PG::Result:0x00005c8ed739c610 status=PGRES_TUPLES_OK ntuples=1
nfields=1 cmd_tuples=1>
irb(main):044:0> pp result.values
[[358]]
=> [[358]]

```

type = payout, status != pending and crypto_coin, payout record exist, outbound_fund_request_records not exist

```

irb(main):045:0>
irb(main):046:0> query = <<-SQL
irb(main):047:0"   select count(*) from payout_records a where a.status!
='pending'
irb(main):048:0"   and a.payout_account_data->>
'account_type'='crypto_coin' and a.payout_account_data->> 'currency'!
='USD'
irb(main):049:0"   and not exists (select 1 from
outbound_fund_request_records o where a."id"::text=o.action_id)
irb(main):050:0" SQL
=> "   select count(*) from payout_records a where a.status!='pending'
\n   and a.payout_account_data->> 'account_type'='crypto_coin' and a.
payout_account_data->> 'currency'!='USD'\n   and not exists (select 1
from outbound_fund_request_records o where a.\"id\"::text=o.action_id)
\n"
irb(main):051:0> result = ActiveRecord::Base.connection.execute(query)
=> #<PG::Result:0x00005c8ed7694660 status=PGRES_TUPLES_OK ntuples=1
nfields=1 cmd_tuples=1>
irb(main):052:0> pp result.values
[[111]]
=> [[111]]

```

the action_type of outbound_fund_request_records is null

```

query = <<-SQL
  SELECT count(*) from outbound_fund_request_records where action_type
  is null
SQL
result = ActiveRecord::Base.connection.execute(query)
pp result.values

```

- **payout transactionmete_data/meta_data mode**

PMmass payoutmass payout

- **205-7event_record event_record transactions**

refundmerchant 50 USDcustomer100USD50USDmerchant

- Accounts::PaymentRefundRequested
- Accounts::PaymentRefundOngoingChecked

Accounts::PaymentRefundOngoingChecked Accounts::PaymentRefundOngoingChecked Accounts::PaymentRefundRequested

locked_amount transactions(resource_type = refund_freeze)

```

SELECT refund_request_id,sum(locked_amount::DECIMAL) from (
SELECT event_json ->> 'refund_request_id' as refund_request_id,
event_json ->> 'debit_currency',event_json ->> 'locked_amount' as
locked_amount,*
from event_records where aggregate_id = 'a5b1e789-fc2b-478b-a0be-
3fbbc2607563' and event_type = 'Accounts::PaymentRefundOngoingChecked'
)sub GROUP BY refund_request_id;

```

```

SELECT * from transactions where resource_id in (
'364315a4-73a7-46d3-9165-530dbc299ae6',
'71f70db5-5e7b-4046-ae8-01c25a5b8ac0',
'c5a9able-f72b-42d8-8d32-58e81283356e'
)

```

364315a4-73a7-46d3-9165-530dbc299ae6	38.12
71f70db5-5e7b-4046-ae8-01c25a5b8ac0	46.53
c5a9able-f72b-42d8-8d32-58e81283356e	21.82

- **transactionevent_record dashboardtransaction**

refundtransactioevent_record


```

SELECT * from (
SELECT resource_id,amount,resource_type,id from transactions where
account_id = 'a5ble789-fc2b-478b-a0be-3fbbc2607563'
and wallet = 'TUSD' and resource_type in ('Refund')
) a LEFT JOIN (
SELECT event_json ->> 'refund_request_id' as resource_id,event_json ->>
'debit_currency',event_json ->> 'debit_amount' as amount,*
from event_records where aggregate_id = 'a5ble789-fc2b-478b-a0be-
3fbbc2607563'
and event_type in ('Accounts::
OnchainPaymentRefundTransferred','Accounts::
PaymentRefundTransferBypassed','Accounts::PaymentRefundTransferred')
and event_json ->> 'debit_currency' = 'TUSD'
)b on a.resource_id = b.resource_id
where b.resource_id is null ;

```

- **refund_freeze created_at Refund**

refundtransactionsrefund_freezerefund20refund_freeze refund

```

sumologic:
((_index=app_prod_eks)) "4a07609589f74e86a1df8a944111e2cb"
| where %"kubernetes.labels.app.kubernetes.io/name" = "crypto-pay-core"

refund_id: 9baldaa6-71fb-466c-8416-c9fbafa00901
data: https://mcoproduct.atlassian.net/wiki/spaces/CP/pages/2458910725
/2022-10-21+New+transaction+engine+migration+dirty+data+patch

```


refundrefund_freezerefund_freezerefund

Migration

open account data migration switch to pay_core

open account

1. "1-1" account
2. "1-2" "open account" "status""Open Account Succeeded" 2-1" Migration Data"

 open account pay_server account_record pay_account_core Java"data migration"

<div> <div>Refresh</div> <div>Open all Accounts</div> <div>View Migration Progress</div> </div>						
<div> <div>Filter 0</div> <div> <div>Q</div> <div>yong1014</div> <div></div> </div> </div>						
Account ID	Team Name	Team ID	Base	Live Mode	Status	Actions
fea8ea1f-f6d4-4c40-a195-c6897d80b8d6	yong1014	3399988c-af17-451d-9887-368b92d83dcf	Use Pay Server	True	N/A	Open Account
e156c208-6021-4acf-9588-373f22034731	yong1014	3399988c-af17-451d-9887-368b92d83dcf	Use Pay Server	False	N/A	Open Account

data migration

1. "2-2" "Migration Data"
2. data migration account50w/h"status""Data Migration in Progress" 3-1"status""Data Migration Done" 4-1" Switch to Paycore"4-2



- Migration Data
- "Migration Data"
- status"Failed" slack channel"Migration Data"
- "view progress" 4-2account5"End Point At"

<div> <div>Filter 0</div> <div> <div>Q</div> <div>yong1014</div> <div></div> </div> </div>						
Account ID	Team Name	Team ID	Base	Live Mode	Status	Actions
fea8ea1f-f6d4-4c40-a195-c6897d80b8d6	yong1014	3399988c-af17-451d-9887-368b92d83dcf	Use Pay Server	True	Open Account Succeeded	Migrate Data View Progress

<div> <div>Filter 0</div> <div> <div>Q</div> <div>yong1014</div> <div></div> </div> </div>						
Account ID	Team Name	Team ID	Base	Live Mode	Status	Actions
db2e8d72-d954-467b-9413-6942581915e1	feotest	003dc977-8dce-4493-8cf4-9f69c1d0c4c7	Use Pay Server	True	Data Migration in Progress	Migrate Data View Progress

<div> <div>Filter 0</div> <div> <div>Q</div> <div>yong1014</div> <div></div> </div> </div>						
Account ID	Team Name	Team ID	Base	Live Mode	Status	Actions
fea8ea1f-f6d4-4c40-a195-c6897d80b8d6	yong1014	3399988c-af17-451d-9887-368b92d83dcf	Use Pay Server	True	Data Migration Done	Migrate Data Switch to PayCore View Progress

5

Migration Progress - Auto-refresh in 6 seconds



Type	BizType	Status	End Point At	End Point Id
stock_data_migration	rebound_records	✓	2022-09-15 19:09:19	4970070a-eead-49cc-9be3-fb28e2403390
stock_data_migration	payment_records	✓	2022-09-15 19:13:48	773ff436-0386-47ec-a803-a0d26972ace6
stock_data_migration	conversion_records	✓	2022-09-15 19:03:29	6f2fadb2-b016-49a1-ab25-61ef37cc88b7
stock_data_migration	payout_records	✓	2022-03-14 17:48:01	e4202b0a-b4a0-4e3c-9a5f-536766e0ed4b
stock_data_migration	payment_deposit_records	✓	2022-09-15 19:13:48	773ff436-0386-47ec-a803-a0d26972ace6

switch to pay_core

1. "Switch to Paycore" 6-2pay_server pay_core pay_core Base "Use Pay Server" "Use Pay Core"(7)
2.

6

Filter 0

Q yong1014

Account ID	Team Name	Team ID	Base	Live Mode	Status	Actions
fea8ea1f-f6d4-4c40-a195-c6897d80b8d6	yong1014	3399988c-af17-451d-9887-368b92d83dcf	Use Pay Server	True	Data Migration Done	Migrate Data Switch to PayCore View Progress

7

Filter 0

Q yong1014

Account ID	Team Name	Team ID	Base	Live Mode	Status	Actions
fea8ea1f-f6d4-4c40-a195-c6897d80b8d6	yong1014	3399988c-af17-451d-9887-368b92d83dcf	Use Pay Core	True	Data Migration Done	Migrate Data View Progress
e156c208-6021-4acf-9588-373f22034731	yong1014	3399988c-af17-451d-9887-368b92d83dcf	Use Pay Core	False	Data Migration Done	Migrate Data View Progress

 Switch to Paycore Team Id Live ModeLive Mode account account

5

Refresh

Open all Accounts

View Migration Progress

 Filter

0



Team name/Team ID/Account ID

- "Open all Accounts" pay_server pay_account_core "Open Accounts"
- "View Migration Progress" PM

 "Data Migration"Pay_server 2