



rehive

Standard Configurations

1.1.8

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Version history

Section	Author	Date	Version
Transaction subtypes Added withdraw_ach subtype and description	Samantha de Melo	2022-07-07	1.1.8
Transaction subtypes - Removed chipless card subtypes from the listing. - Moved the product extension subtypes into the merchant subtypes group. - Removed send_tip and receive_tip as default subtypes. - Updated description of purchase_online and sale_online	Samantha de Melo	2021-08-26	1.1.7

Transaction subtypes - Updated the subtype groupings - Added section explaining our new standard reverse_prefix and how it is used now that transactions are immutable.	Samantha de Melo	2021-06-09	1.1.6
Subtype usage, action labels and group aims - Moved the rewards subtypes into their own rewards section out of send & receive - Updated the usage types of deposit_teller and withdraw_teller to be partner and updated them to reflect that they are each other's partner transactions.	Samantha de Melo	2021-03-19	1.1.5
Transaction subtypes - Added send_distribution and receive_distribution Subtype usage, action labels and group aims - Added send_distribution and receive_distribution - Removed send_account and receive_account - these will only be implemented in the future	Samantha de Melo	2021-02-18	1.1.4
Subtype usage, action labels and group aims - Updated usage type of issue and burn to be single Transaction subtypes - Changed name of withdraw_admin subtype to withdraw_transfer	Samantha de Melo	2021-02-04	1.1.3
Subtype usage, action labels and group aims Added deposit_transfer and withdraw_admin subtypes	Samantha de Melo	2021-02-01	1.1.2
Subtype usage, action labels and group aims Added send_top and receive_otp to this table	Samantha de Melo	2021-01-22	1.1.1
Version history - Implemented version history - Added new "Subtype usage, action labels and group aims" section Groups - Updated groups - Customer -> Individual - Merchant -> Business - Added Non-profit	Samantha de Melo	2021-01-20	1.1.0

- Removed Supplier Accounts - Separated accounts into Standalone and User account sections - Added new Standalone and User accounts Transaction subtypes - Removed, updated and added new subtypes Full update text App config - Updated to the latest JSON configuration. Extensions - Added links to the help centre for Conversion Extension and Mass Send Extension templates.			
Document creation	Samantha de Melo Helghardt Avenant	2019-10-25	1.0.0

Groups

Standard groups

Groups	
individual	An end-user or consumer who will use the wallet application. User permissions in this group limit these users to their own profile and transactional accounts.
business	A small business or retailer who accepts payments for exchanging goods and services online, in-app or in-store. User permissions in this group limit these users to their own profile and transactional accounts.
non-profit	This group has similar features to a business or retailer who accepts payments for exchanging goods and services online, in-app or in-store but they help to distinguish non-profit businesses for operational purposes. User permissions in this group limit these users to their own

	profile and transactional accounts.
admin	Full access to configure and manage all aspects of the app on behalf of all users in the system. This includes extensions, permissions, transactions, users, app configurations and more.
extension	Access to specific permissions required for value-add features developed on the Rehive Platform that also extends functionality on Rehive Applications.
support	Limited access to manage users and resolve support queries. Support can view transactions but do not have access to creating/updating transactions or system configurations.

What is the difference between a manager and a support user?

- Managers are allowed to create and make transactions, whereas support is not.
- A manager is supposed to only create transactions from and/or to an operational account.

Group permissions

Group name	User permissions	Admin permissions
Business	All	None

Group name	User permissions	Admin permissions
Individual	All	None

Group name	User permissions	Admin permissions
Support	All	See below

Admin permissions for Support group				
Event	VIEW	ADD	CHANGE	DELETE

Access control rule	✓			
Account	✓			
Address	✓	✓	✓	✓
Bank account	✓	✓	✓	✓
Currency	✓			
Company				
Crypto account	✓	✓	✓	✓
Device	✓			
Document	✓	✓	✓	✓
Email	✓	✓	✓	✓
Group	✓			
MFA				
Mobile	✓	✓	✓	✓
Notification				
Request				
Service				
Token				
Transaction	✓	✓		
Transaction subtypes	✓			
User	✓	✓	✓	✓
Webhook				

Group name	User permissions	Admin permissions
Manager	All	See below

Admin permissions for Manager group				
Event	VIEW	ADD	CHANGE	DELETE
Access control rule	✓			
Account	✓			
Address	✓	✓	✓	✓
Bank account	✓	✓	✓	✓
Currency	✓			
Company	✓			
Crypto account	✓	✓	✓	✓
Device	✓	✓	✓	✓
Document	✓	✓	✓	✓
Email	✓	✓	✓	✓
Group	✓			
MFA	✓			
Mobile	✓	✓	✓	✓
Notification	✓			
Request	✓			
Service	✓			
Token	✓			
Transaction	✓	✓	✓	✓
Transaction subtypes	✓			
User	✓	✓	✓	✓
Webhook	✓			

Currency classifications

Currency classifications	
fiat	Government-issued currency.
points	Generic unit of measure typically used for rewards, loyalty or memberships.
crypto	Native blockchain currency like bitcoin, ether or Stellar Lumens.
token	Custom blockchain asset that can represent any store of value.
stablecoin	Custom blockchain asset that specifically represents a fiat or cryptocurrency.

Accounts

Standalone accounts

Standalone accounts are accounts that do not belong to a specific user. This helps to distinguish any kind of operation or float which is not attached to a specific user.

Accounts	Type	Description
operational	Standalone	Generic or fall back account for admins to manage payments, whether it is making deposits, receiving payments etc.
rewards	Standalone	Reserved for admins to issue and manage reward budgets. It can also be used by users to accrue reward points.
conversions	Standalone	Reserved for admins to manage conversion floats.
sales	Standalone	Reserved for admins to receive payments in exchange for goods.
fees	Standalone	Reserved as a repository for fees set up by an admin and charged to individuals or businesses.

Standalone tracking accounts

Accounts	Type	Description
tracking_hotwallet_{type}_xx	Standalone	Reserved for tracking on-chain crypto transactions and managing floats.
tracking_warmstorage_{type}_xx	Standalone	Reserved for receiving on-chain crypto transactions and keeping track of all user deposits.
tracking_coldstorage_{type}_xx	Standalone	Reserved for tracking all crypto assets managed on behalf of users.

User accounts

Accounts	Type	Description
general	User	Everyday use for sending, receiving, making payments and storing funds. A general account is the default and primary account for all users.
operational	User	Generic or fall back account for businesses to manage payments, whether it is making deposits, receiving payments etc.
teller	User	An account topping up user accounts from point of sale for cash or card deposits.
sales	User	Reserved for businesses to receive payments in exchange for goods via the product extension.
rewards	User	Reserved for businesses to issue and manage reward budgets. It can also be used by individuals to accrue reward points.

What is the difference between a Rehive Tracking Hot Wallet account and an On-chain Crypto Hot Wallet account?

Note that we're referring to these two distinct account types as official nouns.

- Rehive Tracking Hot Wallet account is the ledger balance on the Rehive system that represents the actual hot wallet account activity.
- On-chain Crypto Hot Wallet account is the actual underlying bitcoin or Stellar account that holds the crypto funds.
- The transactions on the Rehive Tracking Hot Wallet account and On-chain Crypto Hot Wallet account should map one-to-one. We still need to define a recommended process to correct any misalignments.

Transaction subtypes

Subtypes are becoming the most critical connection point for Rehive Solutions. The idea is that every subtype is associated with a specific payment flow that impacts the following key touchpoints:

- Frontend transaction flows
- Dashboard transaction flows
- Notification templates
- Management processes
- Metadata templates
- Data structure and business logic
- Guides and training material
- FAQ
- Pricing

This section is a list of subtypes that are reserved by Rehive. Custom applications can use the subtypes but have to take into account how it is being used across Rehive's applications.

Note that in the future we want to do analytics based on the main subtype, e.g. Send, Receive, Deposit, Withdraw and then also break it into subtype flows, e.g. Send to email, Send to mobile, etc.

List of transaction subtypes

[] = Default Rehive subtype

[] = Extension subtype

As of [2021-05-18](#) transactions on Rehive are no longer mutable, meaning that once their status is complete or failed it cannot be changed. If a completed transaction needs to be reversed, our standard is to create a new subtype with the same name as the subtype being reversed but with the prefix reverse_. This new reverse subtype will then be the opposite type to the original subtype. Example:

Completed Mass Send transaction (transfer)		
Sender	Subtype	Type
admin	send_mass	debit
Recipient	Subtype	Type
individual	receive_mass	credit

To reverse the above transaction, the following transfer would take place:

Mass Send transaction reversal (transfer)		
Sender	Subtype	Type
individual	reverse_receive_mass	debit
Recipient	Subtype	Type
admin	reverse_send_mass	credit

Reverse subtypes are not added for all subtypes below in order to keep it uncluttered.

Subtype name	Type	Description
Exchange		
buy	debit	Buy transaction method that applies to the buy portion of an exchange of currencies. Used by the Conversion Extension.
sell	credit	Sell transaction method that applies to the sell portion of an exchange of currencies. Used by the Conversion Extension.
Deposit		
deposit_manual	credit	Manual deposit transaction method. Used in credit deposit flows to manually process deposits.
deposit_{card}	credit	Extensions processing automated deposit transactions via credit card. Subtypes following this format will be named after the payment gateway.

deposit_bank	credit	Extensions processing automated deposit transactions via bank transfer.
deposit_crypto	credit	Crypto-specific extensions processing automated deposits.
deposit_transfer	credit	Used in the manual transfer deposit flow crediting a user's account.
deposit_voucher	credit	Used to create a deposit from a voucher code that represents a balance.
Fee		
fee_charged	debit	Used to record fees on transactions. Debits the user.
fee_received	credit	Used to record fees on transactions. Credits the specified account.
Fund		
fund	credit	Funding transaction by an admin when crediting an account to represent an external value in Rehive.
defund	debit	Defunding transaction by an admin when debiting an account to remove the representation of an external value in Rehive.
Issue		
issue	credit	Used for the initial and continuous issuing of tokens.
burn	debit	Used as a way of destroying tokens.
Merchant features		
deposit_teller	credit	Used to signify a deposit transaction made via a business as a teller.
withdraw_teller	debit	Used to signify a deposit transaction received via a business as a teller.
purchase_pos	debit	Static or dynamic QR code scanning payment at the point of sale made by a user.
sale_pos	credit	Static or dynamic QR code scanning payment at the point of sale and received by a business.
purchase_online	debit	An online purchase as an individual via the Merchant docs

		API.
sale_online	credit	An online sale received as a business via the Merchant docs API.
sale_app	credit	In-app sale through the Product Extension.
purchase_app	debit	In-app purchase through the Product Extension.
refund_sale_app	debit	Used to refund a sale_app transaction through the Product Extension.
refund_purchase_app	credit	Used to refund a purchase_app transaction through the Product Extension.
sale_teller	credit	A cash-based sale is recorded with an optional reference of the user making the payment. A user can be linked to a cash payment.
send_otp	debit	Send payment via OTP authorisation
send_tip	debit	Adding a tip when paying through the point of sale system.
receive_otp	credit	Receive payment via OTP authorisation.
receive_tip	credit	Receiving a tip from a payment through the point of sale system.
Rewards		
send_reward	debit	General reward transaction to reward a user. Used by the Rewards Extension.
receive_reward	credit	General reward transaction for receiving a reward. Used by the Rewards Extension.
Mass send		
send_mass	debit	Bulk payout payment via the Mass Send Extension.
receive_mass	credit	Bulk payout payment via the Mass Send Extension.
Peer-to-peer send & receive		
send_account	debit	Sending money to the specific account reference of another user.
receive_account	credit	Receiving money from another user to a specific account reference.

send_email	debit	Sending money to an email address.
receive_email	credit	Receive payments to an email address.
send_mobile	debit	Sending money to a mobile number.
receive_mobile	credit	Receive payments to a mobile address.
Token distribution		
send_distribution	debit	Distributing an asset from the company to its users.
receive_distribution	credit	Receive a distributed asset from the company to its users.
Transfer (Between same user's account)		
send_transfer	debit	Transfer represents transactions between two accounts owned by the same user.
receive_transfer	credit	Transfer represents transactions between two accounts owned by the same user.
Withdraw		
withdraw_ach	debit	Withdrawal transaction to a bank via ACH.
withdraw_transfer	debit	Used for the debit portion of a transaction when processing deposit_transfer transactions to move funds from an operational account.
withdraw_manual	debit	Manual withdrawal transaction method. Used to manually process withdrawals.
withdraw_bank	debit	Extensions processing automated withdrawal transactions via bank transfer. This may or may not still include manual approval.
withdraw_cash	debit	Extensions, businesses or admins processing cash withdrawal transactions.
withdraw_card	debit	Extensions processing automated withdrawal transactions via credit card. Subtypes following this format will be named after the payment gateway.
Crypto		
send_crypto	debit	Sending money to a cryptocurrency address on-chain.
withdraw_crypto	debit	Crypto-specific extensions processing automated withdrawals. This may or may not still include manual

		approval.
hotwallet_deposit	credit	Crypto-specific deposit transaction that represents on-chain activity. It is used to fund the hotwallet. <i>Blockchain Extensions automatically make this transaction on Rehive when detecting an on-chain transaction.</i>
hotwallet_withdraw	debit	Crypto-specific withdrawal transaction that represents on-chain activity. <i>Blockchain Extensions automatically make this transaction on Rehive when detecting an on-chain transaction.</i>
fee_hotwallet	debit	On-chain fee paid by the Hot Wallet for sending transactions.
warmstorage_deposit	credit	Crypto-specific user deposit transaction that represents on-chain activity. <i>Blockchain Extensions automatically make this transaction on Rehive when detecting an on-chain transaction.</i>
warmstorage_withdraw	debit	Crypto-specific withdrawal transaction for on-chain activity. This will typically be done by the admin who scrapes the warm storage account. Blockchain Extensions automatically make this transaction on Rehive when detecting an on-chain transaction.
coldstorage_deposit	credit	Crypto-specific user deposit transaction that represents on-chain activity. <i>Blockchain Extensions automatically make this transaction on Rehive when detecting an on-chain transaction.</i>
coldstorage_withdraw	debit	Crypto-specific withdrawal transaction for on-chain activity. This will typically be done by the admin who scrapes the warm storage account. Blockchain Extensions automatically make this transaction on Rehive when detecting an on-chain transaction.

Subtype usage, action labels and group aims

This table aims to show which groups subtypes are aimed at, what Rehive's default action label in the apps is, what the usage type for each subtype is, and which credit and debit subtypes correspond to one another.

Group aim	Credit	Credit usage type	Credit action label	Debit	Debit usage type	Debit action label
Deposit						
individual	deposit_bank	single	Bank transfer	-	-	-
individual	deposit_crypto	single	Deposit	-	-	-
admin	deposit_manual	single	-	-	-	-
individual	deposit_stripe	single	Credit card	-	-	-
business -> individual	deposit_teller	partner	Load funds	withdraw_teller	partner	Withdraw funds
admin	deposit_transfer	partner	-	withdraw_transfer	partner	-
individual	deposit_voucher	single	Voucher	-	-	-
Withdraw						
individual	-	-	-	withdraw_bank	single	Bank transfer
individual	-	-	-	withdraw_card	single	Debit card withdrawal
individual	-	-	-	withdraw_crypto	single	Crypto withdrawal
admin	-	-	-	withdraw_manual	single	-
Buy & Sell						
individual	buy	partner	Exchange	sell	partner	-
Send & Receive						
admin -> individual	receive_distribution	partner	-	send_distribution	partner	-
individual	-	-	-	send_crypto	single	Withdraw
individual	receive_email	partner	Email	send_email	partner	Email
business / admin -> individual	receive_mass	partner	-	send_mass	partner	-
individual	receive_mobile	partner	Mobile	send_mobile	partner	Mobile
individual	receive_otp	partner	Request	send_otp	partner	-
individual	receive_transfer	partner	-	send_transfer	partner	Transfer

individual	receive_tip	partner	-	send_tip	partner	-
Rewards						
admin -> individual	receive_reward	partner	-	send_reward	partner	-
Sale & Purchase						
business -> individual	sale_app	partner	-	purchase_app	partner	-
business -> individual	sale_pos	partner	-	purchase_pos	partner	-
business -> individual	sale_online	partner	-	purchase_online	partner	-
business -> individual	sale_teller	single	-	-	-	-
Fee						
business/ individual -> admin	fee_received	partner	-	fee_charged	partner	-
Fund & Issue						
admin	fund	none	-	defund	none	-
admin	issue	single	-	burn	single	-
Tracking						
tracking	warmstorage_deposit	none	-	warmstorage_withdra w	none	-
tracking	hotwallet_deposit	none	-	hotwallet_withdraw	none	-
tracking	coldstorage_deposit	none	-	coldstorage_withdraw	none	-
tracking	-	-	-	fee_hotwallet	none	-

Tiers and requirements

User		
Tiers 1 <i>None</i>	Tiers 2 Basic	Tiers 3 Intermediary

	First name Last name Birthdate Nationality Verified email Verified mobile Address	First name Last name Birthdate Verified email Verified email Identity number Verified proof of identity Verified proof of address
--	---	--

Limits and fees

There are too many subtypes and edge cases to create a template builder for limits and fees. Instead, we'll spend a bit more time to write and maintain good guides on this topic.

Extensions

App Extension config

We have implemented a UI in the Dashboard in the App Extension so that admins can more easily edit the company config. We have future plans to create a more integrated app configuration experience. Below is the configuration for our Sandbox template.

```
"config": {
  "pin": {
    "appLoad": true,
    "withdraw": false,
    "send": false
  },
  "auth": {
    "username": false,
    "localAuth": "optional",
    "mfa": "",
    "first_name": true,
```

```

    "confirm_password": false,
    "last_name": false,
    "identifier": "email",
    "email": "optional",
    "group": true
  },
  "actions": {
    "pay": {
      "condition": {
        "hide": false,
        "hideCurrency": []
      }
    },
    "send": {
      "config": {
        "recipient": [
          "email",
          "mobile",
          "crypto"
        ],
        "confirmMessage": ""
      },
      "condition": {
        "hide": false,
        "hideCurrency": []
      }
    },
    "deposit": {
      "condition": {
        "hide": false,
        "hideCurrency": []
      }
    }
  }
}

```

```

    },
    "receive": {
      "condition": {
        "hide": false,
        "hideCurrency": []
      }
    },
    "exchange": {
      "condition": {
        "hide": false,
        "hideCurrency": []
      }
    },
    "transfer": {
      "condition": {
        "hide": false,
        "hideCurrency": []
      }
    },
    "withdraw": {
      "condition": {
        "hide": false,
        "hideCurrency": []
      }
    },
    "config": {
      "pairs": [],
      "message": "",
      "confirmMessage": ""
    }
  },
  "colors": {

```

```

    "primary": "#companyPrimaryColor",
    "secondary": "#companySecondaryColor",
    "primaryContrast": "#companyPrimaryContrastColor"
  },
  "product": {
    "sales": {
      "userGroups": ["business", "admin"],
      "invoiceConfig": { "showDiscount": false,
"showTax": false }
    }
  },
  "accounts": {
    "layout": "accounts",
    "identifier": "name",
    "actionVariant": ""
  },
  "cards": {
    "home": {
      "custom": [
        {
          "title": "Welcome to companyName",
          "image": "blocks-card",
          "dismiss": true,
          "id": 0,
          "description": "A wallet where you can earn and
spend your points."
        }
      ],
      "general": {
        "welcome": true,
        "verify": true
      }
    }
  }
}

```

```

    }
  },
  "sliders": {
    "preAuth": [
      {
        "id": 0,
        "image": "exchange",
        "title": "",
        "dismiss": true,
        "description": "Securely store your funds."
      },
      {
        "id": 1,
        "image": "sendToEmail",
        "title": "",
        "dismiss": true,
        "description": "Easily make a payment to an email
address or mobile number."
      },
      {
        "id": 2,
        "image": "massSend",
        "title": "",
        "dismiss": true,
        "description": "Monitor your transaction history."
      },
      {
        "id": 3,
        "image": "earnRewards",
        "title": "",
        "dismiss": true,
        "description": "Earn rewards for making purchases

```

```

and referring customers."
    },
    {
        "id": 4,
        "image": "buyProducts",
        "title": "",
        "dismiss": true,
        "description": "Make in-app purchases or shop at
your local business."
    }
]
}
}
},

```

Notification templates

Email notifications

Address notifications
Address create
Address update
Bank account notifications
Bank account create
Bank account edit
Bank account status update
Crypto account notifications
Crypto account create
Crypto account update

Documents notifications
Document create
Document update
Transaction notifications
Go to the transaction subtype section to view the specific notification for that subtype.
Credit deposit
Credit receive existing user
Credit reward
Conversion
Debit send
Debit purchase
Debit withdraw crypto
Mass send existing user
Mass send invite
Notify receive new user
Transfer
User notifications
User KYC status change
User password reset
User password set
User update
User verify email

SMS notifications

Transaction notifications
Credit deposit

Credit receive existing user
Credit reward
Conversion
Debit send
Debit purchase
Debit withdraw crypto
Mass send existing user
Mass send invite
Notify receive new user
Transfer
User notifications
User verify mobile

Reward templates

Coming soon

Conversion Extension template

[Refer to the Help Center as a standard setup for getting started.](#)

Product template

Coming soon

Mass Send Extension template

[Refer to the Help Center as a standard setup for getting started.](#)

Blockchain template

Refer to the Help Center as a standard setup for getting started.