Client

- nome: String
- clientKey: String
- lastId: int
- balance: double
- terminal: Terminal
- clientType: String = "Normal"
- paid = double[]
- toPay: double[]
- tariff: Tariff

+ disable ClientNotifications (key: String): void
+ enable ClientNotifications (key: String): void
+ register Client (key: String, num: String, lastId: int): void
+ getAllClients (): Client[]
+ setClient (): String
+ get clientPayamentAndDebta (): double
+ canChangeType (): boolean
+ changeType (type: String): void

1 ──── client

◇ client

Terminal

- terminalKey: String
- terminalID: String
- client: Client
- terminalType: String
- terminalStatus: String = "idle"
- paid: double[]
- toPay: double[]
- friendList: Terminal[]
- communication: Communication

+ registerTerminal (terminalId: String, terminalType: String): void
+ addFriend (terminalId: String): void
+ removeFriend (terminalID: String): void
+ turnOnTerminal (): void
+ turnOffTerminal (): void
+ performPayment (commKey: String): void
+ getTerminalBalance (): double
+ sendText communication (terminalId: String, textMessage: String): void
+ startInteractive communication (terminalId: String, commType: String): void
+ endInteractive communication (terminalId: String): void
+ setOngoing communication (): Communication

Communication
- _CommKey : int
- _terminalTo : Terminal
- _terminalFrom : Terminal
- _communicationState : String
- _cost : double

Tariff
- _tariffName : string
- _clientType : Communication
- _clientType : Client
- _cost : double

Terminal

Client

<> **Notification**
- _notificationType : string
- _terminal : Terminal
+ <> sendNotif(terminalID : string) : void

TextCommunication
- _textMessage : String

VoiceCommunication
- _duration : double

VideoCommunication
- _duration : double

NetworkManager
- _network : Network
+ load(fileName : string) : void
+ save() : void
+ search(fileName : string) : void
+ importFile(fileName : string) : void
+ getAllTerminals() : Terminal[]
+ openMap(terminalID, terminalID : string) : void

<<use>> **Network**
- importFile(fileName : string) : void

java.exception
Exception

ImportFileException

MissingFileException

UnavailableFileException

UnrecognizedEntryException

<<uses>>

<<uses>>

<<sends>>

1

1

1..network

```
                      +------------------+
                      |    Network       |
                      |                  |
                      +------------------+
                             ◆
                             |
          -terminal          |-communicates        -Clients
         /                   |                    \
        /                    |                     \
+---------------+    +-------------------+    +---------------+
|   Terminal    |    | communications   |    |   Clients     |
|               |    |                   |    |               |
+---------------+    +-------------------+    +---------------+
```

<<bind>>
E->terminal

<<bind>>
E->communication

<<bind>>
E->Clients

<<bind>>
E->Clients

+------------------+
| E:Class |
| <<interface>> |
| Comparable |
+------------------+
```