CHAPTER ONE

INTRODUCTION

1.1 About GNU Taler

GNU Taler is an open protocol for an electronic payment system with a free software reference implementation. GNU Taler offers secure, fast and easy payment processing using well understood cryptographic techniques. GNU Taler allows customers to remain anonymous, while ensuring that merchants can be held accountable by governments. Hence, GNU Taler is compatible with anti-money-laundering (AML) and know-your-customer (KYC) regulation, as well as data protection regulation (such as GDPR).

1.2 About this manual

This manual documents how the demonstrator bank interoperates with the other GNU Taler components. The demonstrator bank implements a simple closed banking system for the purpose of illustrating how GNU Taler works in the Taler demo. It could also be used as a starting point for a local/regional currency. Finally, “real” banks might use it as a reference implementation for a tight integration with the GNU Taler wallet.
The demonstrator bank offers the following APIs to allow automated testing. These APIs should be switched off during a production deployment.

**POST /register**
This API provides programmatic user registration at the bank.

**Request** The body of this request must have the format of a `BankRegistrationRequest`.

**Response**
- **200 OK**: The new user has been correctly registered.
- **409 Conflict**: The username requested by the client is not available anymore.
- **400 Bad request**: Unacceptable characters were given for the username. See https://docs.djangoproject.com/en/2.2/ref/contrib/auth/#django.contrib.auth.models.User.username for the accepted character set.

**Details**

```typescript
interface BankRegistrationRequest {
  // Username to use for registration; max length is 150 chars.
  username: string;

  // Password to associate with the username. Any characters and
  // any length are valid; next releases will enforce a minimum length
  // and a safer characters choice.
  password: string;
}
```
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