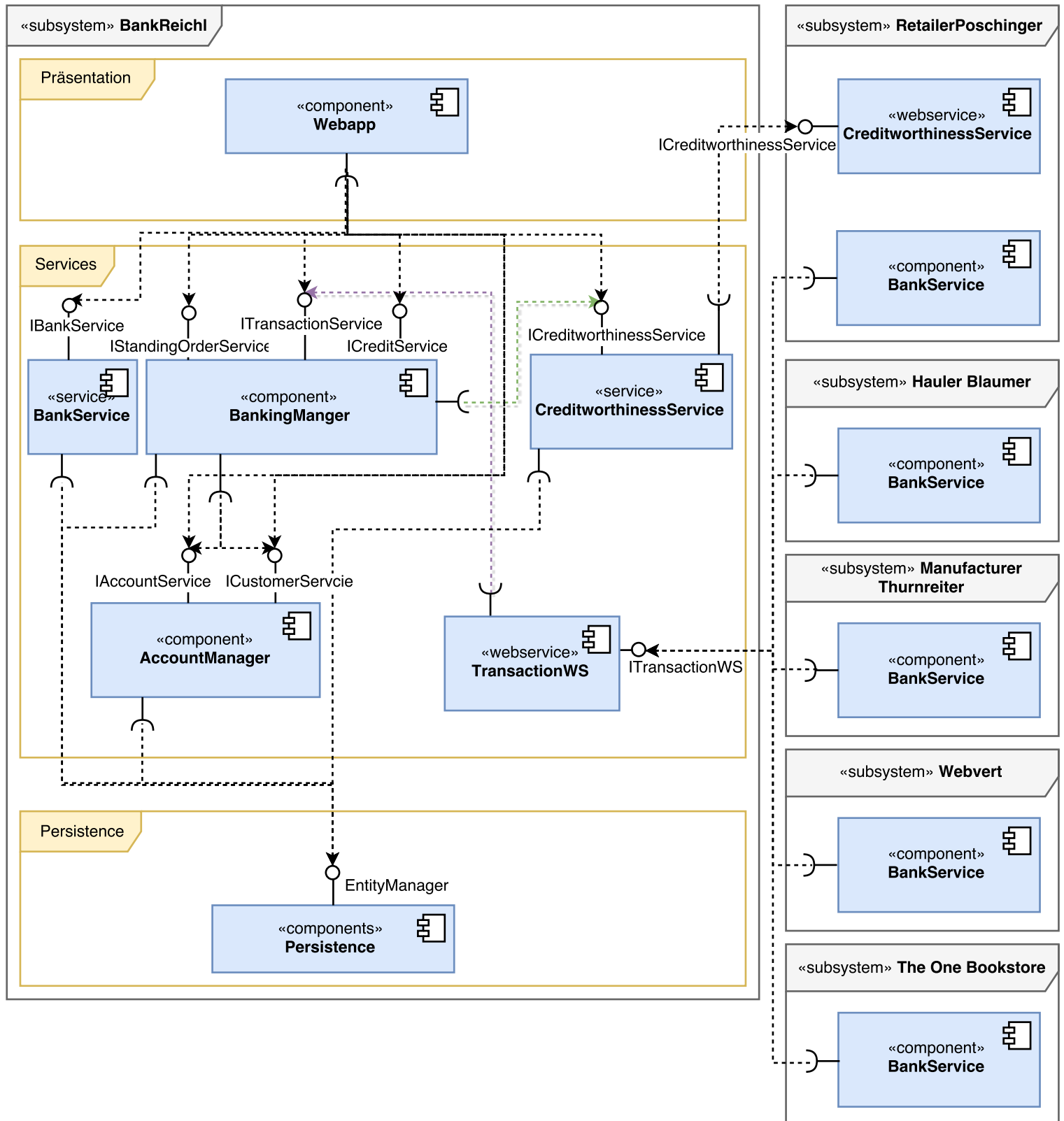# Bank Reichl

Komponentendiagramm

Interfaces

ITransactionWS

+ transfer(long amountInCent, String fromIBAN, String toIBAN, String description): boolean

ITransactionService

+ transfer(long amountInCent, String fromIBAN, String toIBAN, String description): boolean
+ transferStandingOrder(StandingOrder order, Timestamp newLastTransactionDate): boolean
+ transferCashCredit(long amountInCent, String toIBAN, String description): boolean
+ transferCashDebit(long amountInCent, String fromIBAN, String description): boolean
+ transferCredit(Credit credit): boolean
+ transferPayback(Credit credit, long amountInCent): boolean
+ checkInput(long amountInCent, String fromIBAN, String toIBAN)

IStandingOrderService

+ createStandingOrder(String fromIBAN, String toIBAN, long amountInCent, Date startDate, int interval, IntervalUnit unit, String description): StandingOrder
+ deleteStandingOrder(StandingOrder toDelete): boolean
+ handleStandingOrder(StandingOrder order)

IAccountService

+ createAccount(Customer owner, Employee accountManager, TanType type, String password): Account
+ createAccount(Customer owner, TanType type, String password): Account
+ deleteAccount(Account toDelete): boolean
+ login(String accountNumber, String password): Account
+ getAccountManager(): List<Employee>
+ findAccount(long id): Account
+ findAccount(String iban): Account

ICustomerService

+ updatePrivateCustomer(PrivateCustomerDTO dto): PrivateCustomer
+ updateCompanyCustomer(CompanyCustomerDTO dto): CompanyCustomer
+ getCustomers(): List<Customer>
+ findCustomer(Customer customer): Customer

ICreditService

+ takeCredit(Account account, long amountInCent, Date creationDate): Credit
+ payback(Account fromAccount, Credit credit, long amountInCent): Credit
+ updateInterestsToPay(Credit credit)
+ updatePaybackStandingOrder(Account fromAccount, Credit credit, long monthlyAmountInCent): StandingOrder

ICreditworthinessService

+ requestCreditworthiness(Customer customer): CreditWorthiness
+ requestCreditworthinessFromRetailerPoschinger(Customer customer): CreditWorthiness

IBankService

+ getBank(): Bank

DataTransferObjects (DTOs)

PrivateCustomerDTO

- id: Long
- firstName: String
- lastName: String
- gender: Gender
- dateOfBirth: Date

CompanyCustomerDTO

- id: Long
- name: String
- dateOfCreation: Date

AddressDTO

- street: String
- houseNr: String
- city: String
- zip: String
- county: String
- country: String