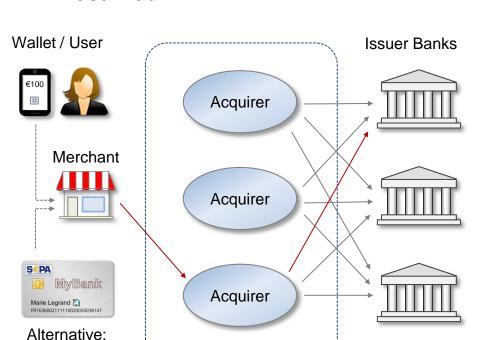
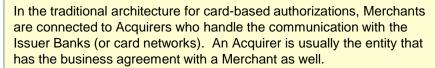
Presumed EPI "Front-end" Architecture





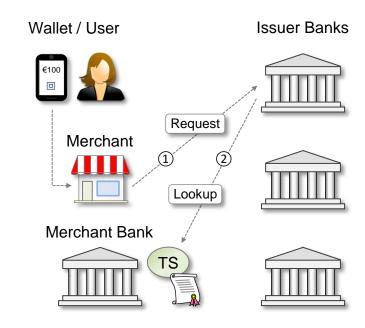
Acceptance Network

The traditional architecture depends on a *huge number of statically* configured security parameters and paths, illustrated by the arrows in the diagram.

This model also depends on *databases* holding card-number to Issuer Bank "routing" tables.

Acquirer services are covered by *additional fees* on top of the fees required by the Banks running the payment scheme like SEPA Inst.





In the <u>Saturn</u> architecture a Merchant has a business agreement with their account-holding Bank which also provides a simple *public trust service* (TS). TS vouches for the Merchant's validity including their claimed account number.

The data provided by a TS is *digitally signed* by the Merchant Bank and is thus to be trusted by all Banks sharing a specific payment schema like SEPA Inst.

Security with respect to requests (1) is maintained through *mutually* signed digital contracts resulting from the Merchant and User authorization step, combined with TS lookups (2).

The arrows in the diagram are transient, there is no need for externally configured security, path, or routing information.

The actual payment business remains in the hands of the *fully decentralized* network of Banks running a specific payment scheme.

SEPA Card