CTP Study Notes

# Topic 5 · Treasury Technology & Payment Systems

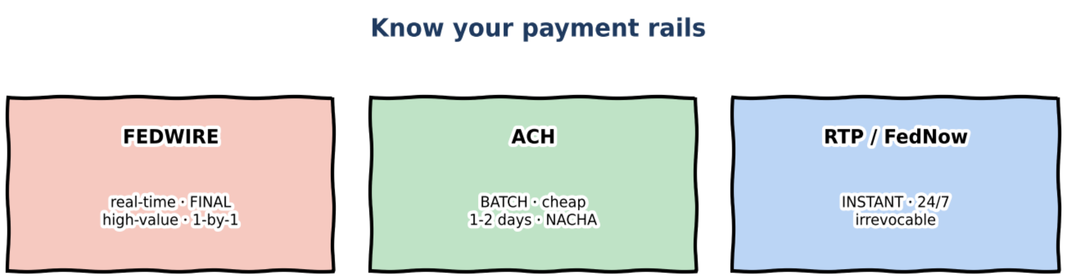
*the systems, rails & security that move the money*

**Big idea:** Move money on the **right rail**, connect systems for **straight-through processing**, and lock it all down.

## A) Treasury Systems & Payment Processing

### ERP vs TMS

- → **ERP** = the whole company's system (SAP/Oracle). **TMS** = treasury-specific (cash, deals, risk).
- → Integrate them for **STP** (straight-through processing — no re-keying).




*Pick the right payment rail for the job*

> ✎ **REMEMBER**
>
> **Fedwire** = Fast, FINAL, one-by-one (RTGS). **ACH** = cheap BATCH (1-2 days). **RTP/FedNow** = INSTANT, 24/7.

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→ CHIPS = netted high-value payments (often cross-border).

### Payment standards & messaging

→ SWIFT (bank-to-bank messaging), BIC & IBAN (account identifiers), EDI 820 (remittance).

> ✎ BIG SHIFT
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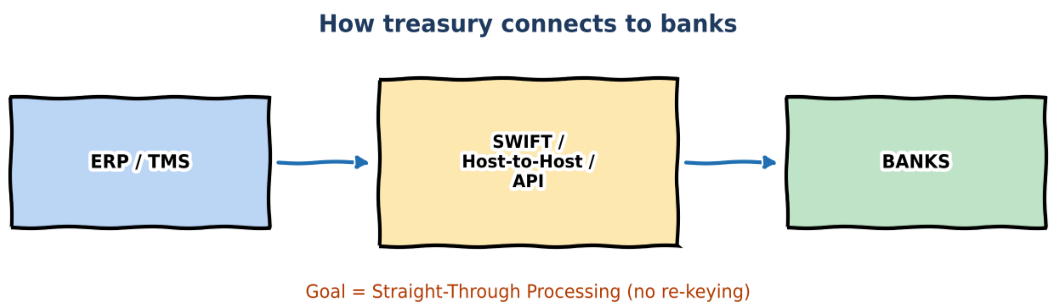
> ISO 20022 (MX) = richer, structured payment data. It's **replacing the old SWIFT MT** messages worldwide.

## B) Information Security & Emerging Tech




*ERP/TMS connect to banks via SWIFT, host-to-host or API*

### Connecting to banks

→ Host-to-host, SWIFT, bank portals, APIs. Goal = STP and real-time visibility.

### Locking it down

→ MFA, encryption, **tokenization**, dual controls, and staff training.

> ✎ REMEMBER — BEC
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> BEC (business email compromise) = a fake "CEO/vendor" email asking you to wire money.
>
> Beat it with **CALLBACK verification + dual approval.**

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### What's next

→ Real-time payments, **open banking APIs**, **AI / RPA** for reconciliation, and blockchain/DLT basics.

> **★ 30-SECOND RECAP**
>
> Right rail (**Fedwire / ACH / RTP**); connect ERP+TMS for **STP**.
>
> Adopt **ISO 20022**; defend against **BEC/phishing** with callbacks & dual control.

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