



itm

In the cloud

Application rehosting POC

A man with curly hair, wearing a blue and white striped shirt, is looking down with a thoughtful expression, his hand resting on his chin. The background is a dark chalkboard with several white question marks drawn on it. The overall scene suggests a state of deep thought or uncertainty.

What to do?

- Open Banking
- Real-time payments
- Digitization and digital
- Aggregators
- Fintechs
- Neobanks
- Payment Hubs
- Omni environment

WHAT?

WHERE?

WHO?

WHEN?

WHY?

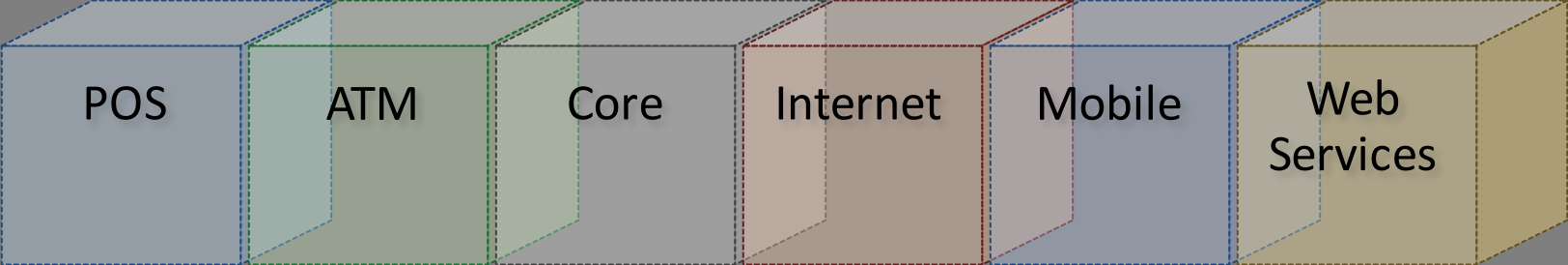
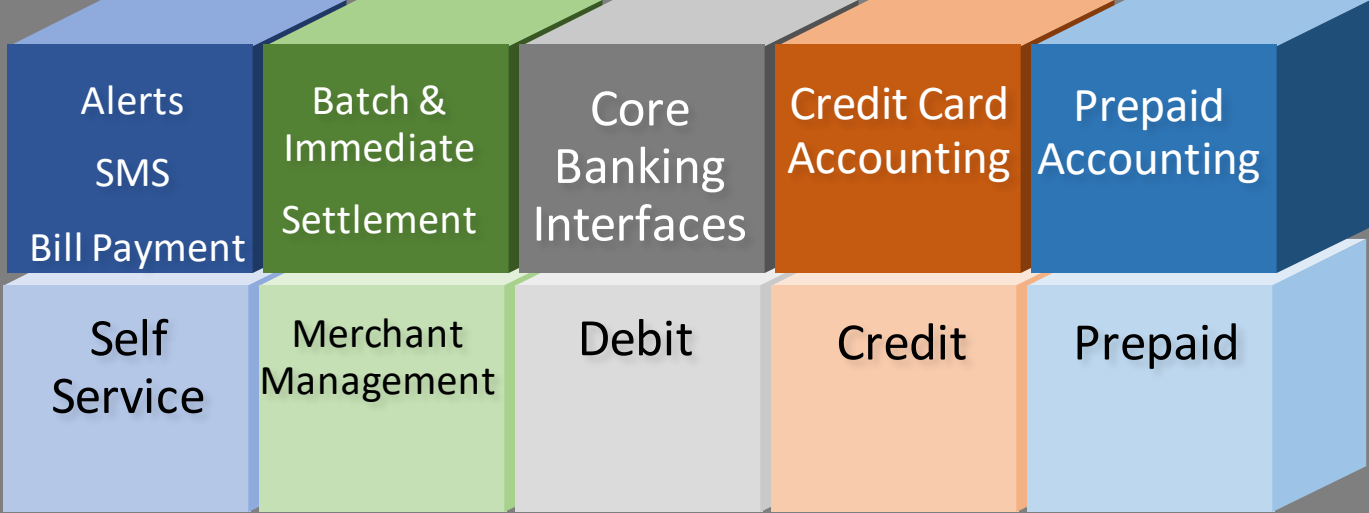
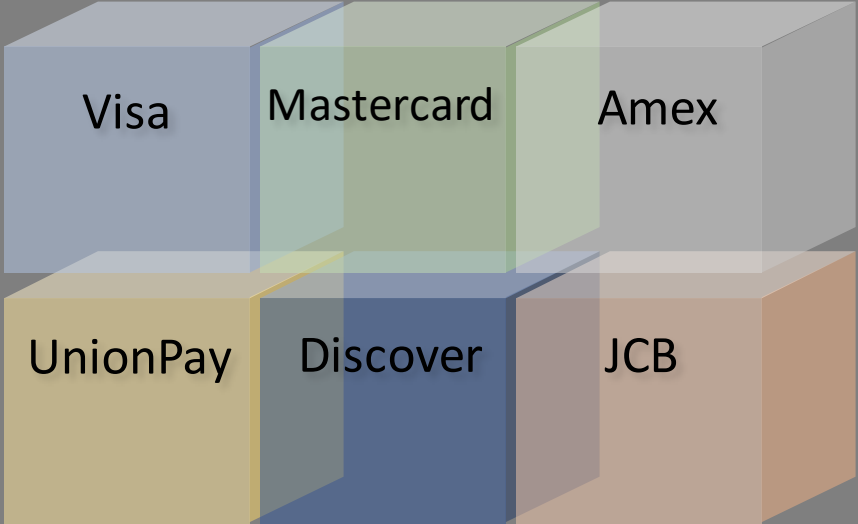
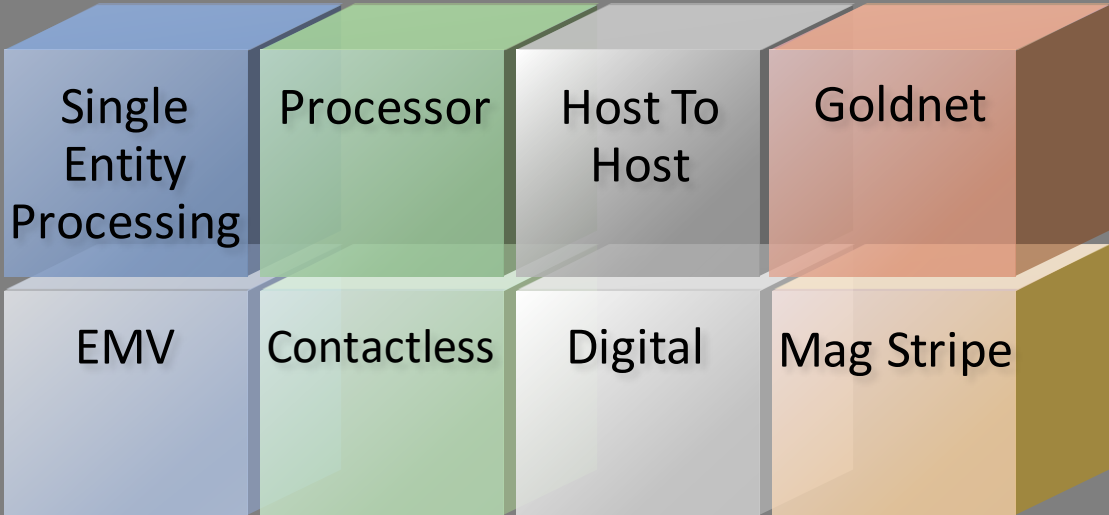
HOW?



Strategy

- Create focus on functionality and not hardware
- Leverage the open, web services foundation we have built
- Hybrid Integrated Payment Platform direction – the best of both platforms front ended with one user interface
- Rehosting not modernization

Building Blocks For Success



Objective



PROVE THE
APPLICATION WILL
RUN



RUN PROCESSING
CYCLES IN A CLOSE TO
REAL ENVIRONMENT



LIMITED 'REAL' SO AS
NOT TO PROLONG
POC



CRYPTOGRAPHY
CRITICAL HARDWARE



USE CREDIT CARD –
TOUCHES MOST OF
ITM



'RUN 3 MONTHS' IN
THE LIFE OF A CLIENT

Cloud Provider Consideration

Start with IBM, ITM
is an IBM platform
solution

Cloud provider

- Geographical presence
- Server sizes
- Managed services

Private and Public –
private preferred
financial application

All have IBMi servers

- Microsoft, Azure, Google, IBM VS, Amazon all have an offering
- IBM, Connectria, Skytap, MeridianIT

Use Cases

Relocate on-prem

High Availability,
Disaster recovery,
Dev-ops in cloud

Hybrid

Hybrid Integrated
Payment
Platform

Immediate findings



IBM is cloud focused and strategy includes IBMi



Thales at the time of the POC was getting their cloud cryptography infrastructure in place



Proximity of critical applications or hardware a must to prevent latency



Immediate cost is high

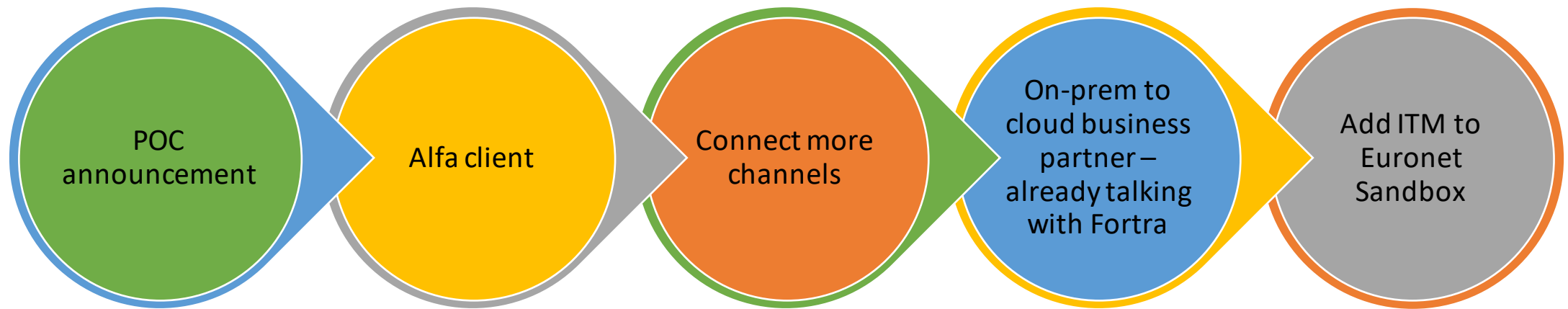


Cost benefits are long-term



Clients want managed services and out of the hardware business

Next Steps



- Formally Help systems
- IBMi solutions provider but so much more



No barriers

- Hardware
- Application
- Functionality

An illustration on a dark teal background. On the left, a large computer monitor stands on a dark base. The screen shows a white background with a large black gear. To the right, a person in a dark blue suit stands on a dark blue A-frame ladder. The person is holding a large, bright red wrench diagonally across their body. The background is a light grey-blue with a few soft, white clouds. The overall style is clean and modern.

Euronet Web Services

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Consume someone else's

SOAP

REST

History

APIEXCHANGE – CONSUME VERSUS EXPOSE

Transactions

- Account Validation
- Pre-Auth
- Card maintenance
- Travel notification
- P2P
- B2B
- M2P

Enhanced Transactions

- DCC
- FX
- AVS
- 3D Secure
- Ecommerce
- ACH
- VCR
- MDR

Added Value

- ATM Locator
- Merchant locator
- Account updater
- Loyalty

Wallet

- MDES
- VTS
- Checkout
- Paypass/wave
- QR

AUTOMATION



INNOVATION



PROCESS



PRODUCTIVITY



TECHNOLOGY



SYSTEM



CONTROL



INTEGRATION

DIGITIZATION



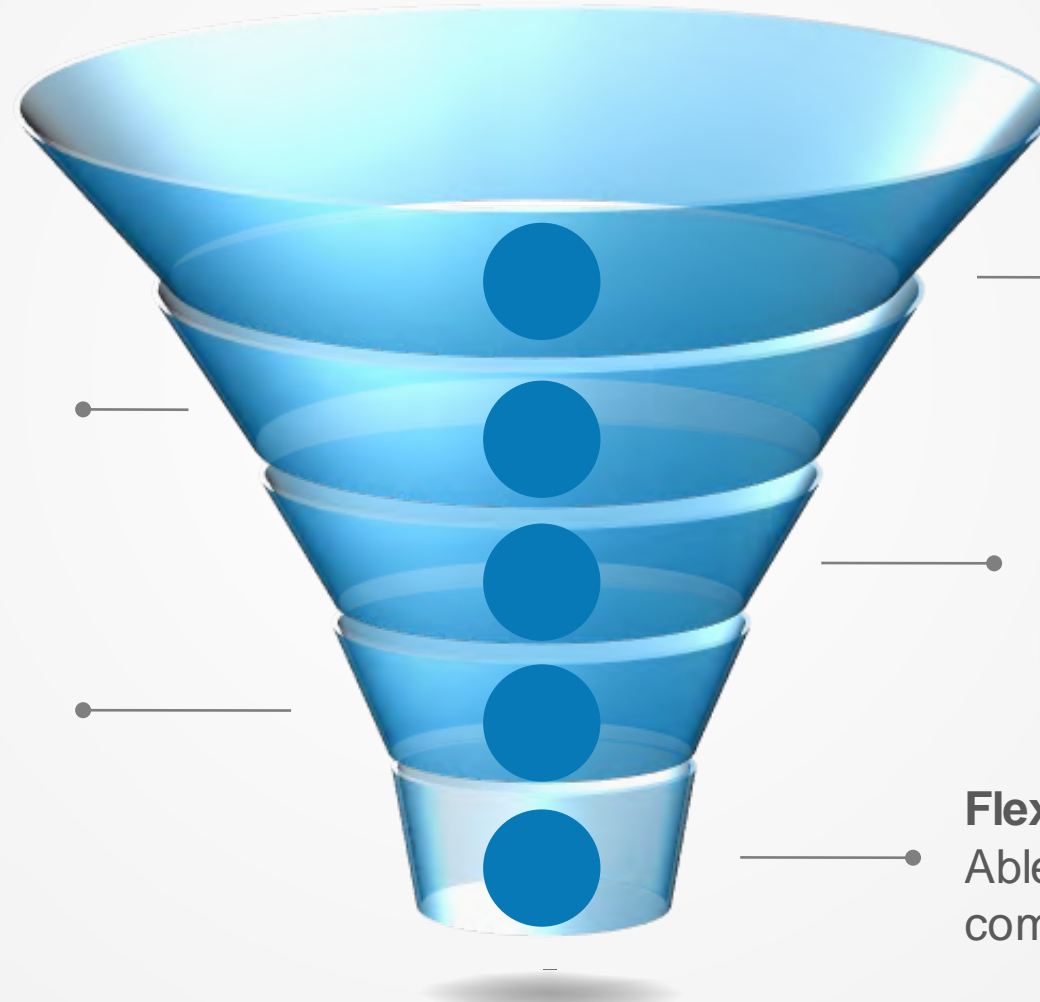
Flexibility Funnel

Fraud

Security is paramount if processing is going to be faster

Future

Positioning for the future and for demands we aren't even dreaming of yet



Foundation

Get the base approach and layers right

Faster

Imperative and the new norm for projects and day to day execution

Flexible

Able to quickly respond, be competitive, and more agile



Protect yours and ours

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Why

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Newer technology/architecture

Digitization means integration

Ease of use for third-parties

New functionality provides the opportunity

- Open and immediate banking
- Digitization, especially in onboarding
- Remote is the new normal
- Business automation processing

COVID is the catalyst

REST vs SOAP

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REST represents about 70% of public APIs

REST allows a greater variety of formats, SOAP allows XML only

REST is generally faster and uses less bandwidth

REST provides superior caching performance

Adding new functionality is simpler

Micro services versus monolithic

Strategy

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New REST web services are being created



For some time, both sets of web services, SOAP & REST, will coexist and be supported



Existing SOAP utilization not affected



It does mean that two sets of maintenance will be applicable



Creating a path for replacement of SOAP



Replacing SOAP with REST services may require projects with Euronet and third-parties

CDB, CMS, PPD, ICC and IMS –
complete package



Services – option to install as needed

CDB

Client

CMS

Card

PPD

Prepaid

ICC

Credit

IMS

Merchant

Web Services
package

Functionality

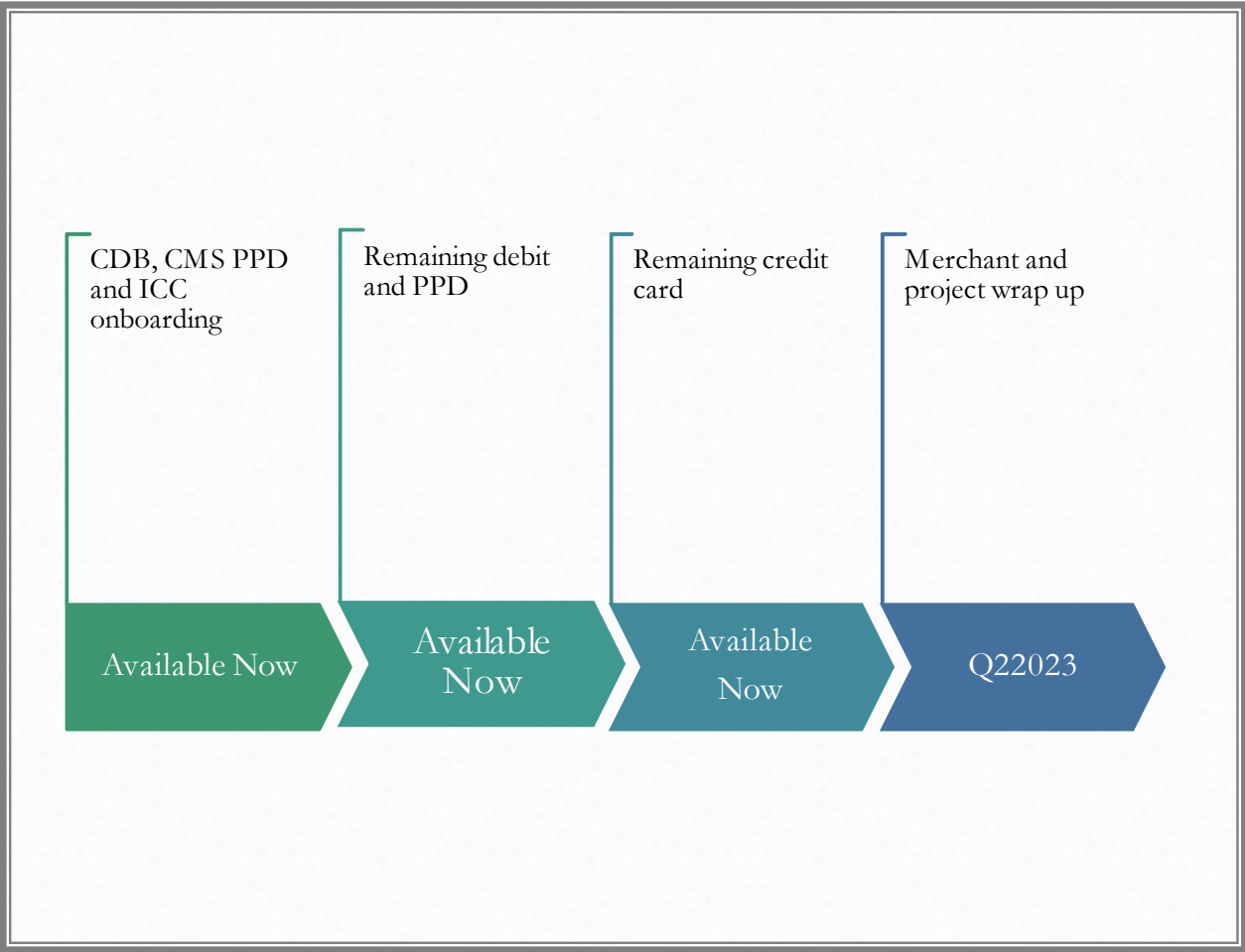
Much more functionality than the SOAP catalog

All EUI screens/functions are being represented by micro services

Smaller packets of data more functions

User permissions support

Built with open, digital and automation in mind



The Journey

Next Phases



OTAC & PIN



Transaction



Card Inventory



Money
Transfer



Bill Payment



Mobile Banking

Benefits

A package for the future

Functionality you need now and may need in the future

Simpler installation of services (REST approach)

Performance improvements by leveraging Liberty

Achieve automation, digitization and open banking

Controlled sandbox

Postman testing tool

Play before you license

Test before you install

Sandbox

Log In to Merchant

[Forgot your password?](#)

[Log In](#)

[Don't have an account yet?](#)

[Create an account](#)

A person wearing a teal apron is standing in a kitchen, using a tablet computer. The kitchen counter is cluttered with various ingredients, including a bowl of yellow cheese, a plate of brown nuts, a bunch of white mushrooms, a cutting board with sliced carrots, a bottle of yellow oil, and a basket of fresh vegetables like lettuce, eggplant, and green beans. The scene is brightly lit, suggesting a modern, tech-integrated cooking environment.

Technology Cookbook

Get client cards

Get card
credentials –
number, expiration
date and CVV

PIN information

Account list
associated with
card or client

**CASA account
balance**

Prepaid balance

Credit card balance,
available credit

Pending
authorizations –
debit, credit or
prepaid

Documentation

REST Web Services

REST API Specifications Overview	Provides instructions for the APIs to call based on common functions performed in ITM.
REST API FAQs Guide	Provides information for frequently asked questions about REST API.
Test Euronet Web Services with Postman †	Provides instructions for testing Euronet Web Services with Postman.
CDB Web Service Specifications	Specifications for the Client Database (CDB) REST Web Services. YAML
CMS Web Service Specifications	Specifications for the Card Management (CMS) REST Web Services. YAML
ICCS Web Service Specifications	Specifications for the Credit Card (ICCS) REST Web Services. YAML
ITM Web Service Specifications	Specifications for the ITM REST Web Services. YAML
PPD Web Service Specifications	Specifications for the Prepaid (PPD) REST Web Services. YAML

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The right technology for the future
Your Choice