

# IRIS Data Platform in a digital bank

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# Mobile App

- ❖ NFC payments
- ❖ Instant payments
- ❖ Money transfers
- ❖ Saving goals
- ❖ Request for Money
- ❖ Money Withdrawal
- ❖ Card Management
- ❖ and more...

1.250.000

MSG PER DAY

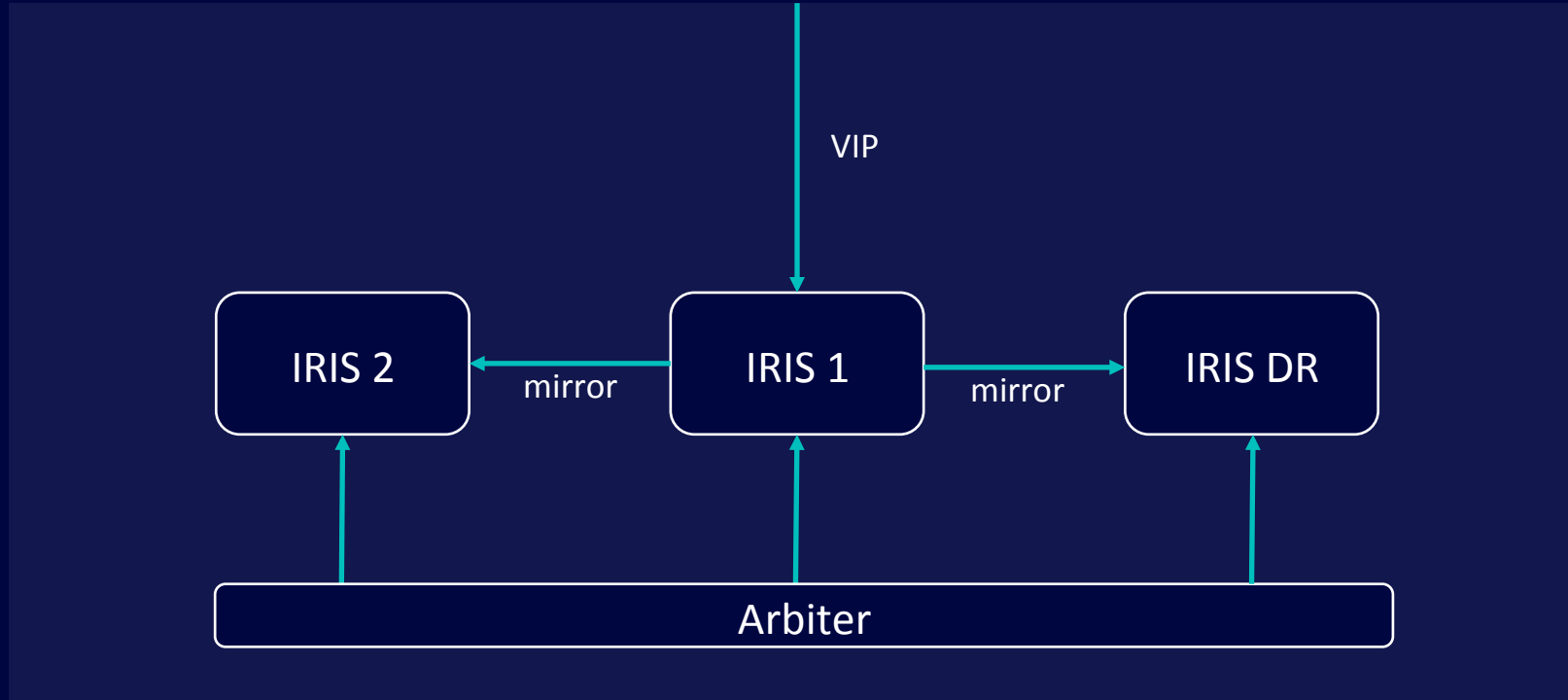
456 millions

MSG PER YEAR

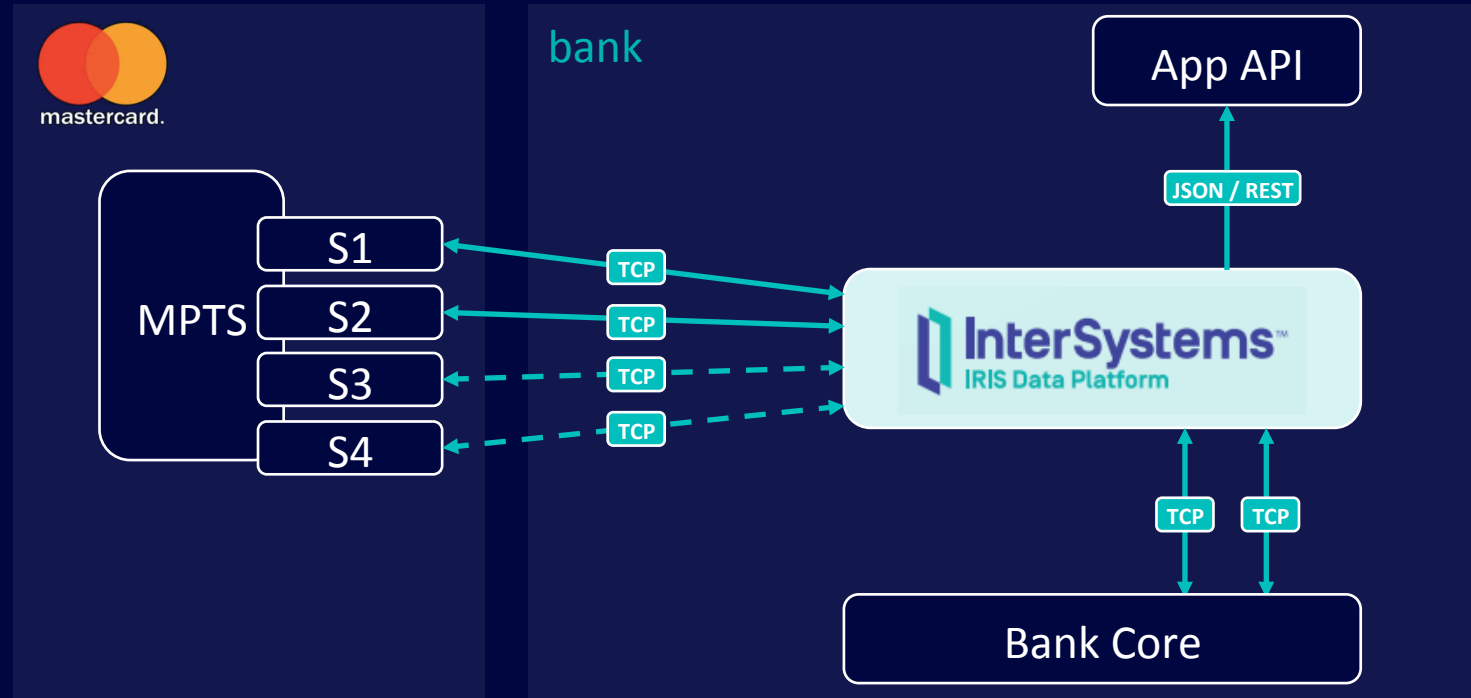
over 99%

UPTIME

# Phase I - Initial Architecture



# Phase I – Technology



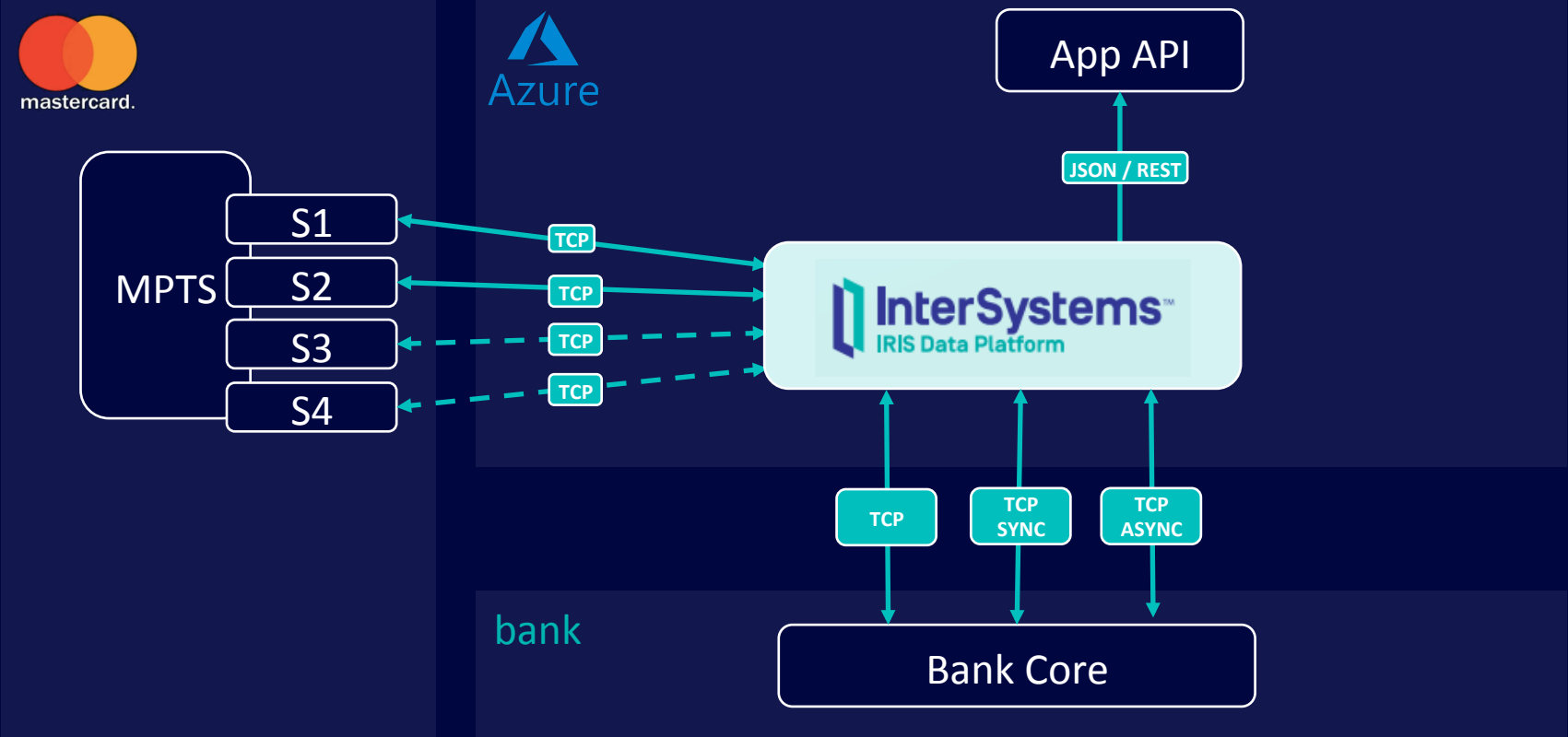
# Phase I - Challenges

## Extending TCP Adapters:

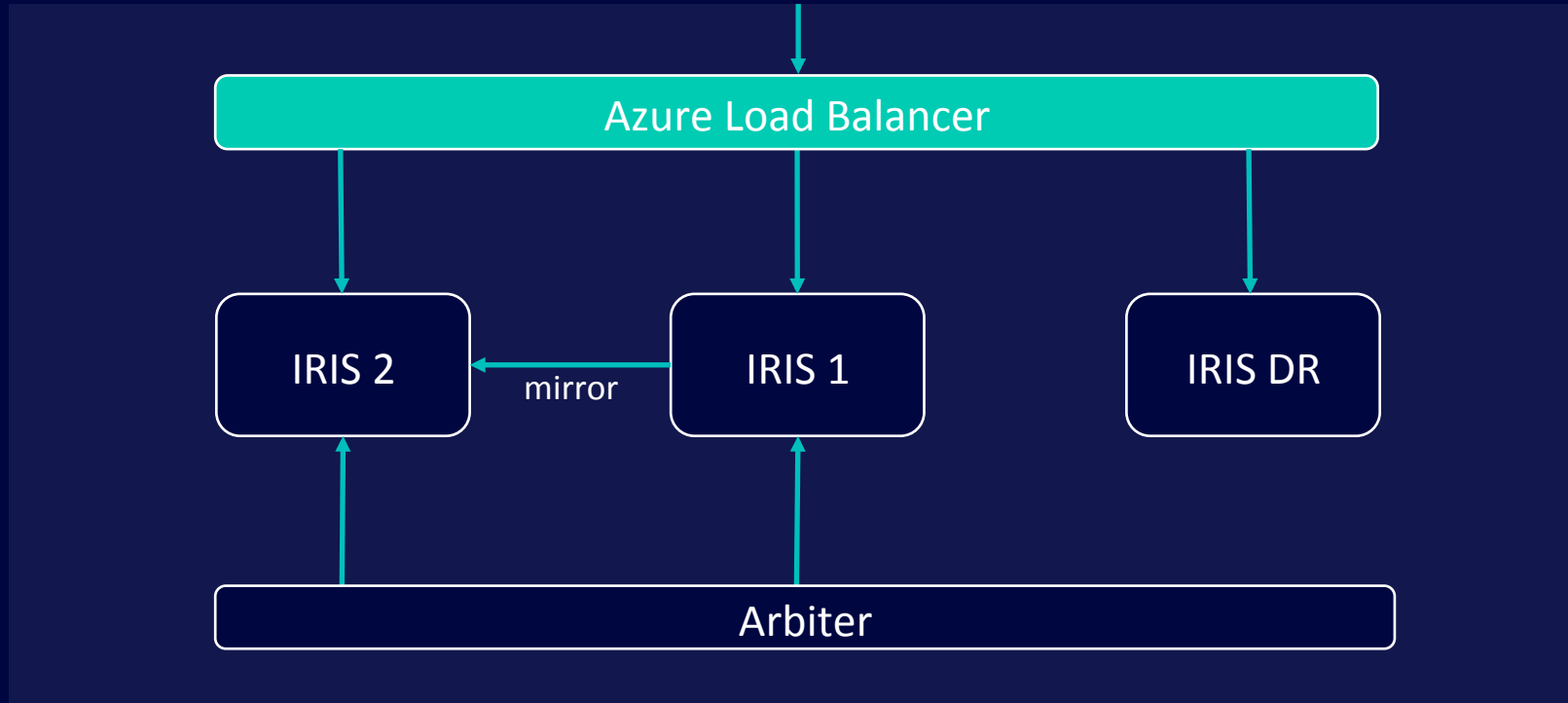
- ❖ ISO 8583: both protocol communication and echo messages
- ❖ How long to retry to MPTS (CallInterval)



# Phase II - Shift to Azure



# Phase II – Architecture Change



# Phase II - Challenges

## Communication between core system and IRIS

- ❖ Multithread (async vs sync messages)
- ❖ Security
- ❖ Bank monitor / dashboard integration

## Changing architecture

- ❖ Mirror but no more VIP, use of Azure Load Balancer



# Phase II - Monitor Integration

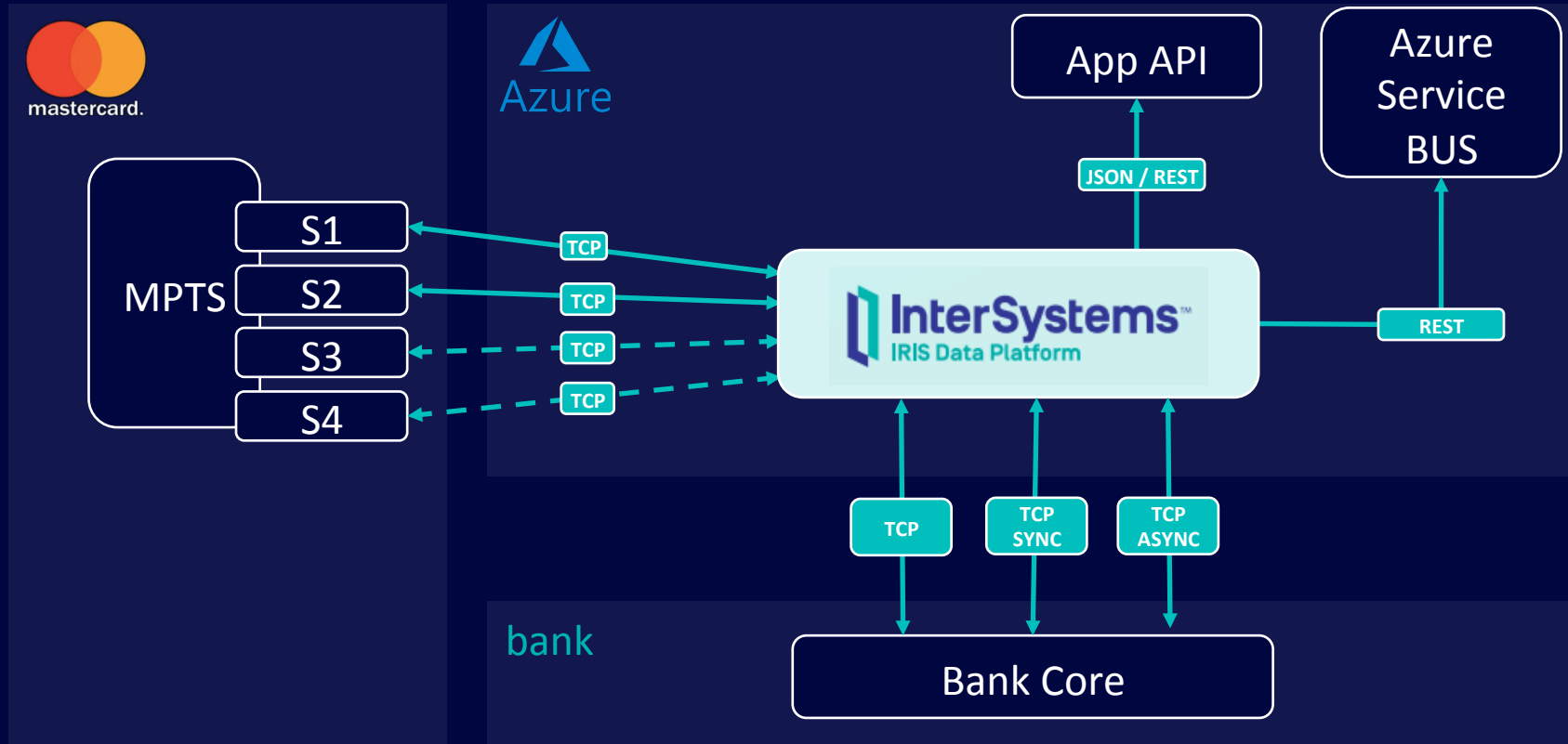
❖ Integration with the Bank Monitor / Dashboard System

The screenshot shows the Windows Event Viewer interface. The left pane shows the tree view with 'Application' selected under 'Windows Logs'. The main pane displays a list of events with columns for Level, Date and Time, Source, Event ID, and Task Category. An error event (ID 126) from the ENSEMBLE source is highlighted. A callout box points to this event with the text: 'Custom development to write ERROR/WARNING logs in the machine event viewer'. The details pane for event 126 shows the following information:

Property	Value
Log Name:	Application
Source:	ENSEMBLE
Event ID:	126
Level:	Error
User:	SYSTEM
OpCode:	
Logged:	17/10/2023 22:34:25
Task Category:	None
Keywords:	Classic
Computer:	

The event message text is: `BO.MTM|ERROR <Ens>ErrFailureTimeout: FailureTimeout of 15 seconds exceeded in BO.MTM; status from last attempt was ERROR <Ens>ErrOutConnectionLost: Lost TCP Counted Read connection to 129.101.19.7:18008 - detected via ERROR <Ens>ErrException: <READ>zReadCountedStream+19^ TCP.CountedCommon.1|Block Count -- loqged as '-' number - @' Else { Read tLenStr#2;pStartTimeout Set tTimedOut = '$Test' }`

# Phase III - Azure Service BUS



# Phase III - Challenges

Connecting to  
Azure Service BUS

- ❖ AMQP 1.0 – Not all properties could be sent with JMS
- ❖ REST - **Successfull**

**Thank you!**



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