



# **FIS U.S. RTP AND FEDNOW INSTANT CAPABILITIES**



## OPF Instant Payments

### FIS' solutions for instant payments processing

As the world becomes more digital and mobile, established payment systems have a hard time adapting to real-time consumer and business expectations. Consumers are looking for a cashless funds experience in terms of speed and ease of use. Faster, smarter, better – this is the future of payments.

But speed isn't everything; speed without context is just faster; creating context without open data mining is merely an improvement. Speed, context and open data need one another to create the relevant instant service and experience customers expect from a modern financial services organization.

### FIS leads from the front

It is clear that implementing a instant payments system is not just simply creating a faster version of an existing payments solution. Instant payments typically need to be processed within seconds (end to end), are irrevocable in nature and the creditor has access to funds almost instantly – and this on a 24x7 basis. This creates a number of challenges with respect to increased hits of core banking systems that are not necessarily able to respond in real time and may not be available for postings outside of the regular business hours.

FIS™ global experience with immediate payments, including UK Faster Payments, SCT Inst in Europe, FAST/G3 in Singapore and NPP in Australia, has enabled us to formulate a forward-looking solution for processing instant payments.

### End to end solutions

The scope is to enable initiation applications through APIs (below) in order to process the payment according to the appropriate scheme rules (e.g., The Clearing House RTP, Federal Reserve FedNow Service) – routing, validations, limits, duplicate checks, inbound payment flow, etc.

### API enabled

As instant payments and the usage of APIs go hand in hand, the product comes with predefined REST APIs for easy channel integration for payment initiation. In addition, integration with internal applications is also achieved via exposed APIs.

### Shields core banking

Many Financial Institutions do not have core-banking systems capable of supporting the need to validate accounts in real time. OPF Instant Payment solutions shields these systems from the need to be real time 24x7 by offering an account validation stand-in capability.

### Aliases

Most real-time payment systems are expected to allow customers to enter an alternative identifier such as an email address or a mobile phone number instead of an account number. OPF Instant Payment solutions are designed to support these sorts of overlays by integrating with directories, or addressing and mapping services for alias resolution as they become available.

### Meeting real-time SLAS

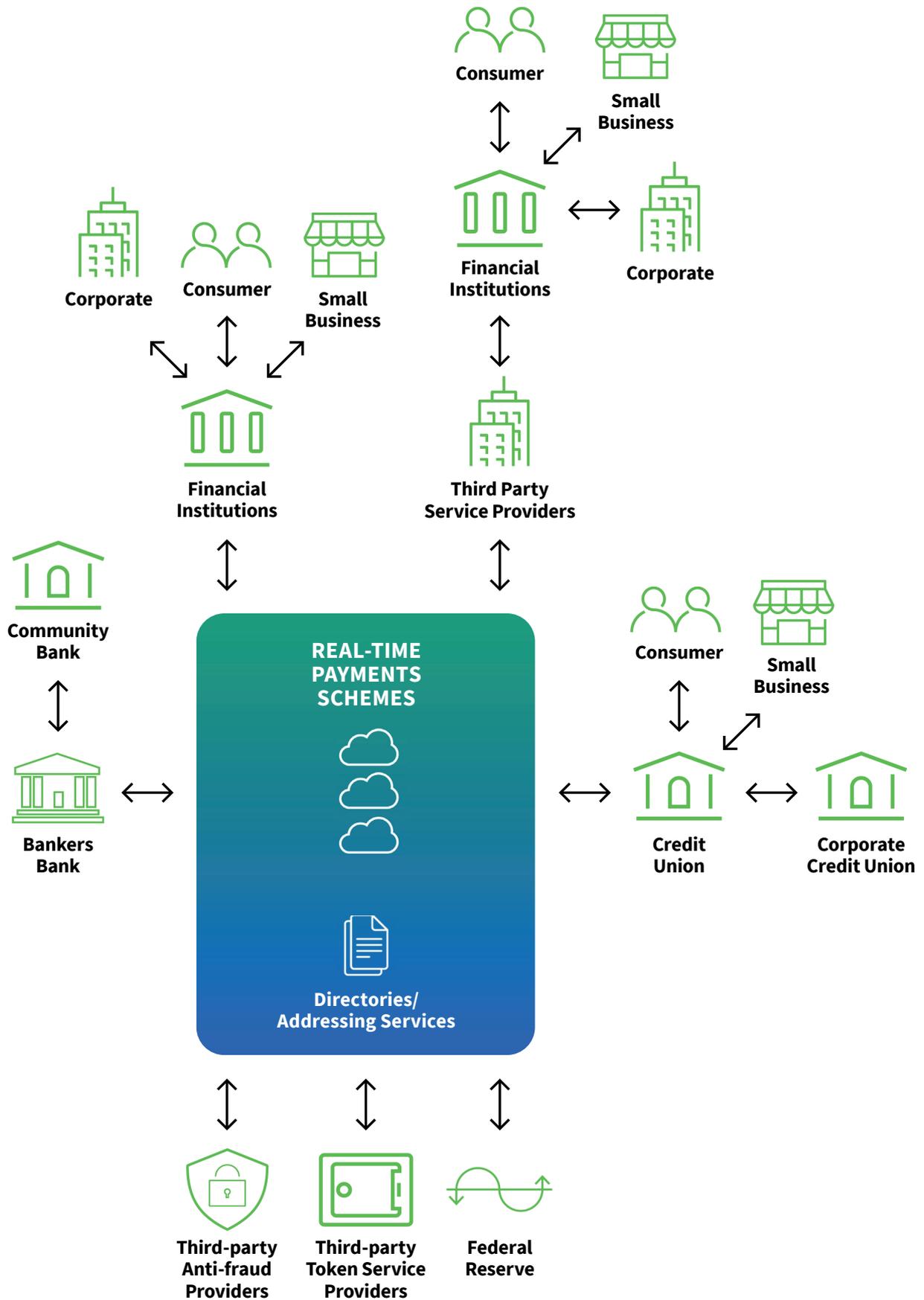
FIS' OPF Instant Payment solutions are low latency solutions that have been optimized for instant payments available 24x7 with in-built monitoring to ensure the stringent instant payments service level agreements are met. The monitoring of elements such as processing time, interface latency, time taken by counterparts to respond, etc. is a crucial part of the instant payments project.

### U.S. Instant Payments

Market forces are currently driving U.S. instant payment networks and schemes. The Federal Reserve, the central bank of the United States, formed a task force in early 2015 to facilitate collaboration between industry participants in defining and identifying the appropriate real-time payment solutions to drive the U.S. forward. The Federal Reserve Faster Payments Task Force's mission was to identify and evaluate approaches for implementing a safe, ubiquitous, faster payments capability in the United States.

The payments industry continues to move forward, with the rollout of The Clearing House's Real Time Payments Network as well as The Federal Reserve's FedNow service.





## U.S. RTP and FedNow on OPF Instant Payments - key features

### Direct and indirect participants

FIS' solutions (US RTP for The Clearing House and the FedNow modules) support financial institutions with either a direct connection to the central infrastructure, or smaller financial institutions that go through a banker's bank or third-party processor. Each module has been designed to support directly participating banks that service multiple indirect participants and want to provide value added services to these indirect participants. No matter what payment rail is selected by an Institution, whether singularly or both, FIS has a solution to assist in the processing.

### Multi-Network support

As both payment rails continue their roll outs in the U.S., providing a 'federated' multi-provider environment for national fast payments, FIS works with both networks to support each variation and their requirements. For example: different maximum transaction amounts applied per scheme, different timeouts, etc. FIS' OPF Instant Payment solutions accommodate the specific business rules for each rail. Instant payments are routed to the appropriate clearing system, accommodating multiple different network schemes with different rules, validations and overall connectivity, but similar payment workflows.

### Timeouts and timestamps

Clear service level agreements (SLAs) are defined for instant payments so it is key that a transaction is processed within a certain timeframe as defined by the scheme. FIS' OPF Instant

Payment solutions handle the time stamping of the outbound transactions and also deals with time out handling of the payments in an automated way if a transaction times out. The solutions can initiate timeout enquiries and updates the transaction status based on the response received.

### Request messages

The solutions are architected to support not only payment messages (such as pacs.008), but also the request for payment, information, remittance messages and associated responses.

### Fraud and AML

Standard interfaces for fraud and sanction screening (e.g., AML OFAC checking).

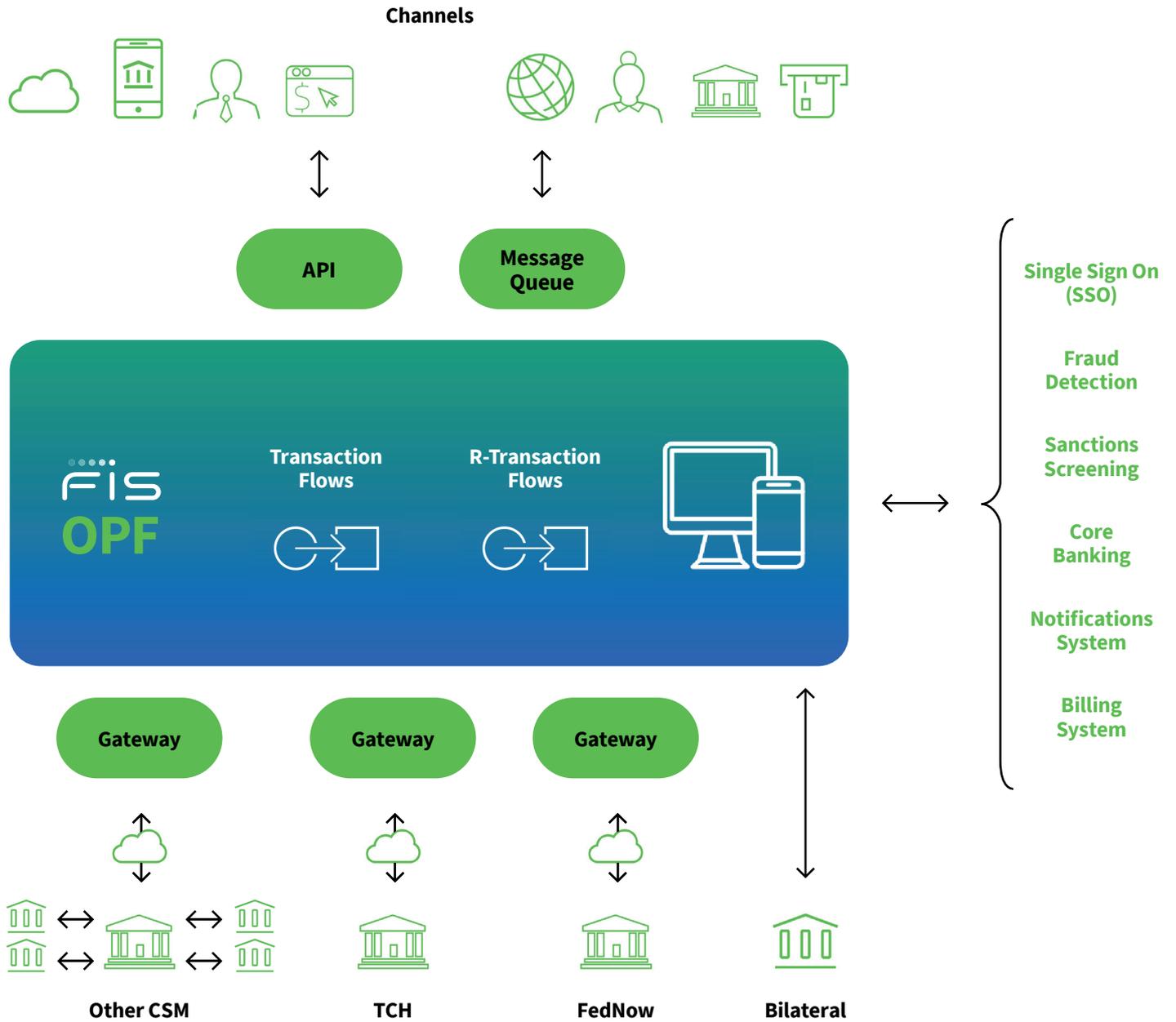
### Reconciliation processes

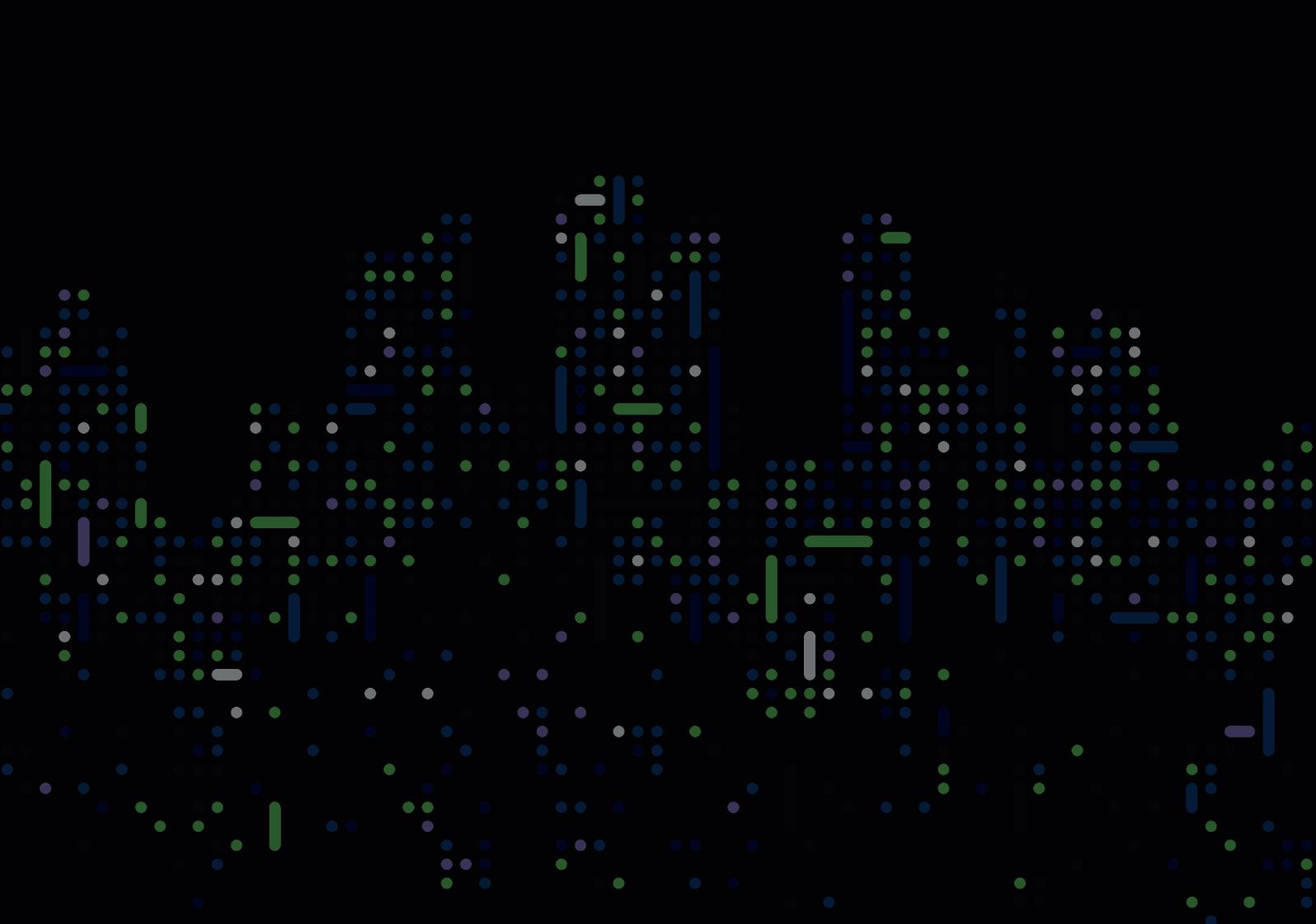
OPF Instant Payment solutions offer support for reconciliation processes and communications with external systems' messaging for full end-to-end visibility on instant payments and settlement.

### Deployment Options

The solutions are available in a variety of deployment options including Premium Hosted, Multi-tenant and Managed Services. Flexibility of the offerings allow institutions of all sizes to find a solution that fits their unique needs.







## About FIS

FIS is a leading provider of technology solutions for merchants, banks and capital markets firms globally. Our more than 55,000 people are dedicated to advancing the way the world pays, banks and invests by applying our scale, deep expertise and data-driven insights. We help our clients use technology in innovative ways to solve business-critical challenges and deliver superior experiences for their customers. Headquartered in Jacksonville, Florida, FIS is a Fortune 500® company and is a member of Standard & Poor's 500® Index.



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