1 General information

• What is the New Payments Platform (NPP)?
• Overview of the NPP Architecture
• What are the benefits of the NPP?
• Using the NPP

2 Accessing the Basic Infrastructure

• How to access the Basic Infrastructure
• Using the NPP as a customer
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General information
The New Payments Platform (NPP) is the result of a major industry wide initiative to develop a new infrastructure for Australian payments by the end of 2017.

It’s a fast, flexible and data-rich payments system for Australian governments, businesses and consumers to meet all their current payment needs. But it will also help them meet the needs of tomorrow – the layered infrastructure will help enable innovation and competition in payments services, be it in enhancing customer experiences or improving business operations.
What is the New Payments Platform?

New infrastructure which will operate 24 x 7 x 365 to enable payment exchanges with real time transaction settlement between participating Financial Institutions (NPP Participants).

The platform is a distributed layered architecture, consisting of the Basic Infrastructure (BI) and Overlay Services (OS).

- The Basic Infrastructure consists of distributed connectivity points (NPP Participants), standard message flows, a switch, a fast settlement service and an addressing service (see next page).

- Overlay Services are approved products/services/schemes that can be deployed on the Basic Infrastructure, that deliver value to a specific group of subscribers and end users.
How it works

An overview of the NPP Architecture
A new infrastructure for Australian payments

Overlay Services

Addressing Service

NPP Participants (Financial Institution)

Bank Channels

Payment Gateway

Payer

Clearing

Settlement

Settlement

NPP Participants (Financial Institution)

Payment Gateway

Bank Channels

Payee

Payment Gateway

Fast Settlement Service

Reserve Bank Information and Transfer Service (RITS)

Reserve Bank of Australia

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What are the benefits of the NPP?

**Speed & Availability**
- Increased convenience of faster funds availability
- Faster payments, settled in real time between ESA accounts
- 24/7/365 real time gross settlement with no ‘cut off’ times

**Smart Addressing**
- Customers can use simple, easy to remember addresses such as email or mobile number to direct payments
- Customers may no longer need to provide their BSB and account numbers

**Richer Payment Information**
- More information with a payment
- ISO 20022 message format enables extensive information to be embedded into payment messages for STP and can also provide links to externally hosted documents

**Workflow Optionality**
- Enables payments to be initiated by, and be contingent on, myriad different events or triggers
- Can be 1:many or many:1
The NPP can be leveraged in two distinct ways:

1) Using the NPP to send or receive payments using an existing/supported NPP message; or
2) Creating a new product or service, including a modified message set and end-user characteristics (what is known as an "Overlay Service"), and offering that product or service to NPP Participants and their customers.

Offering a Product or Service
Overlay Service Providers deliver products that involve more than just the act of payment (e.g. define the user experience, provide data/reporting, initiate workflows, etc.)

Using the Basic Infrastructure
- Only NPP Participants can clear and settle payments
- Other parties can use the NPP to send or receive payments by entering into a commercial agreement with one of the many NPP Participants
Accessing the Basic Infrastructure
How to access the Basic Infrastructure (BI)

The Basic Infrastructure can be accessed in one of three ways:

1. **NPP Participants**
   - Directly or indirectly connected to the Basic Infrastructure to clear and settle payments
   - Open to organisations which are:
     a) Approved Deposit-taking Institutions (ADIs)
     b) Hold an Exchange Settlement Account (ESA) with the Reserve Bank of Australia (RBA)
   - Fees are payable to NPP Australia
     a) Upfront fee to contribute towards the costs for establishing the platform. These are calculated based on current share of payment transactions
     b) Ongoing fees on a per transaction basis

2. **Identified Institutions**
   - Open to institutions who choose to connect to the Basic Infrastructure via a NPP Participant (direct connector) who clears and settles NPP payments on behalf of the Identified Institution (using the Identified Institution’s BSB and BIC)
   - A commercial agreement is required between the Participant acting as the sponsoring direct connector and the organisation seeking indirect access as an Identified Institution

3. **Connected Institutions**
   - Open to organisations who want to be able to connect to the NPP directly using their own NPP payment gateway to send payment initiation and other non-value messages (but with no ability to clear/settle payments)
   - A commercial agreement is required between a Connected Institution and a directly connected Participant to use the NPP

Using the NPP (as opposed to connecting to it) does not require an organisation to be any of the above (see next slide)
Using the NPP as a customer

If an organisation wants to be a user of the NPP to make payments, they only need one point of access via one NPP Participant in order to reach customers of all the other Participants (including the customers of their Identified Institutions).
Requirements for NPP Participation

There are a number of eligibility and technical requirements for connectivity as an NPP Participant.
Requirements for NPP Participation

- Meet minimum eligibility requirements, e.g. ADI
- Subscribe for shares in NPPA (premium or deferral capital funding)
- Accede to Shareholders Agreement
- Enter into agreements with NPPA and approved partners to provision software and hardware components
- If the Participant is settling NPP payments using their own ESA account, enter into agreement with RBA for FSS access

Governance

- Hardware and software required to interface with the Basic Infrastructure, e.g. payment gateway, DMC and HSM
- Participants are required to use NPPA’s approved network partners

Network and Interface components

- Must meet the minimum criteria for accessing the Basic Infrastructure, e.g. 24/7, resilience, performance SLAs, etc.

Resilience and Availability

- Must meet minimum security standards and requirements
- Be able to follow the Alias registration protocols

Security and Alias Registrations

- Testing and certification based on NPP Regulations and Procedures and NPPA’s network partner’s user requirements

Testing and Certification

- Fees will be charged on a per transaction basis for usage of the NPP
- Fees will be set on a fixed cost recovery basis and will be determined by the NPPA Board post Go-Live. The RBA will also levy a settlement fee for usage of the FSS (on a per transaction basis)
Becoming a Participant

Preliminary discussion
- NPPA and prospective Participant (Applicant) discuss interest in potential membership
- Applicant provides NDA to allow Membership Documentation to be exchanged

Application process
- NPPA provides initial Membership Documentation
- Applicant provides completed Participation Application and supporting documents
- Applicant pays Application fee

Acceptance of Participation Application
- Check point: NPPA accepts application if all eligibility requirements have been satisfied
- NPPA determines Applicant's appropriate proportionate share of investment
- Applicant provides signed Accession Agreement
- Applicant subscribes for shares, pays applicable subscription price and signs Provisioning Agreement
- Applicant completes documentation required for connectivity, e.g. agreements with NPPA network partners

Plan and Build
- Project plan developed by Participant
- Technical build by Participant
- Installation of NPP componentry into Participant's datacentre(s)

Certify and On-board
- Meet test requirements (System/buddy testing)
- Any applicable on-boarding/Overlay Service certification/implementation processes completed
- Check point: Operational readiness confirmed
- Live proving including offer of Overlay Services

New Payments Platform
Participant timeline
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Offering a Product or Service (Overlay Services)
What is an Overlay Service?

- The NPP is a platform which will support a range of real time ‘overlay’ payment services. An Overlay Service is a tailored, value adding payment service or payment-related service delivered via the NPP Basic Infrastructure.

- NPPA will set access and participation rules and technical requirements for use of the Basic Infrastructure by Overlay Service Providers (NPP Regulations).

- The Overlay Service Provider (OSP) has commercial freedom to define the commercial/customer facing posting standards and scheme rules for a new Overlay Service.

- Each Overlay Service is differentiated and identified in the NPP by a unique identifier and by its own closed user group of NPP Participants (and Identified Institutions) that either subscribe to or provide clearing and settlement services for that Overlay Service.

- Overlay Services could range from the simple to the complex, depending on the amount of change (if any) a prospective provider requires (either in the Basic Infrastructure functionality or the NPP Core Clearing and Settlement Rules) to support the service. Depending on the scope of change required, Overlay Services can be on-boarded either during monthly release windows or after an agreed building, testing and implementation plan has been completed.

- Overlay Service Providers do not have to connect to the Basic Infrastructure. An Overlay Service Provider that proposes to offer a more complex overlay service, e.g. one that involves a non-standard transaction orchestration or message flow (such as trigger based payments) may choose to connect to the Basic Infrastructure (either directly or indirectly) to optimise delivery of the service.

- New Overlay Service Providers (whether they are offered by connected service providers or not), must be able to integrate to the platform without causing degradation of the Basic Infrastructure.
Examples of Potential Overlay Services

It is envisioned that Overlay Services will be developed for a range of user groups and cater to their diverse needs. Below are some possible products and services that may arise from open development.

**Consumers**
- Convenient and intuitive real-time payments to friends, family members and colleagues using 'simple' address information such as a mobile number or email address.
- Immediate payment to a private seller for purchase of goods.
- Car purchase with all in one registration transfer, finance check, stolen check and write-off check.
- Automated superannuation processing, including contributions, rollovers and benefits.

**Businesses**
- Better cash flow management through more efficient and automated reconciliation processes.
- Ability to submit bulk files out of hours.
- Ability to better understand customer behaviours and expenditure patterns through richer data.
- Improved liquidity through ability to request and follow up late payments.
- Ability to send full invoice information and receive full remittance information back from payer along with payment.
- Ability to convert loyalty points to cash at point of sale.

**Governments**
- Urgent government support payments for hardship or disaster.
- Emergency welfare assistance payments.
- Coordination of health benefit payments across Government and private sources.
How to become an Overlay Services Provider (OSP)

- In order to be able to provide an Overlay Service on the NPP, an organisation must be authorised as an Overlay Service Provider (OSP) by NPPA.

- The rationale for being authorised as an OSP is that the transactions relating to a particular Overlay Service are uniquely identified in the Basic Infrastructure for the purposes of reporting, audit, billing and customer SLAs.

- To become an OSP, an applicant should be able to demonstrate that they meet the following eligibility criteria:
  a) be a body corporate which either carries on business at or through a permanent establishment in Australia or which has appointed an agent in Australia to receive notices on its behalf and act as its representative.
  b) propose to provide, and be capable of providing, an Overlay Service, e.g. financial viability/solvency, be able to demonstrate business expertise and have a comprehensive business plan for the proposed service.

- In the case of a connected Overlay Service Provider, access to the NPP Basic Infrastructure is subject to meeting minimum technical criteria (security, interoperability, etc.).

- The subscription to an Overlay Service (and the provision of the service to end users) is solely within the discretion of NPP Participants and Identified Institutions and is subject to commercial terms agreed between the OSP and NPP Participants and Identified Institutions.
## Becoming an Overlay Services Provider (OSP)

### Exploratory Phase
- NPPA to respond to potential OSP’s enquiries and provide initial information regarding process, requirements, etc.
- NPPA and prospective OSP to sign NDA to enable exchange of more detailed, commercially sensitive information.

### Application Process
- Prospective OSP submits application form and pays application fee to become an Overlay Service Provider.
- NPPA assesses eligibility of OSP against minimum criteria.
- Technical assessment of proposed service and impact (if any) on the BI.

### Authorise OSP
- **Check point:** NPPA accepts application and authorises OSP if all requirements have been satisfied.
- NPPA communicates outcome of application to OSP.
- If approved, OSP pays annual administration fee.

### Planning and Build
- Project plan developed by OSP.
- If applicable, technical design and build by OSP and change management plan developed by NPPA for changes to the BI.
- As required, change/build/test by Participants/Subscribers.

### Testing and On-board
- Testing of Overlay Service by Participant(s) who propose to subscribe to the service.
- If connected, NPPA certification process is completed.
- OSP certification of subscribers.
- On-boarding/implementation process completed.
- **Check point:** Operational readiness confirmed.

### Launch Overlay Service

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Further information

Further information regarding the NPP will be published over the next few months

<table>
<thead>
<tr>
<th>Item</th>
<th>When Available</th>
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<tbody>
<tr>
<td>NPP Website</td>
<td>See <a href="http://www.nppa.com.au">www.nppa.com.au</a> New information will be added progressively over time</td>
</tr>
<tr>
<td>NPP Regulations</td>
<td>Draft available upon request to potential Participant, Overlay Service Provider and Connected Institution applicants Final versions available April 2017</td>
</tr>
<tr>
<td>Technical Documentation</td>
<td>Available upon request from March 2017</td>
</tr>
<tr>
<td>NPP Procedures</td>
<td>Draft available upon request to potential Participant, Overlay Service Provider and Connected Institution applicants Final versions available April 2017</td>
</tr>
</tbody>
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Contact Information

For NPP Participation and Connected Institution enquiries:

- Please contact NPP Australia on info@nppa.com.au

For Indirect connection enquiries:

- Please refer to any of the participating Financial Institutions listed in Appendix 2

For Overlay Service Provider enquiries:

- Please contact NPP Australia on info@nppa.com.au
- Or please refer to any of the participating Financial Institutions listed in Appendix 2
Appendix
Appendix 2 – NPP List of Participants*

- Australia and New Zealand Banking Group Limited
- Australian Settlements Limited
- Bendigo and Adelaide Bank Limited
- Citigroup Pty Ltd
- Commonwealth Bank of Australia
- Cuscal Limited
- HSBC Bank Australia Limited
- Indue Ltd
- ING Bank (Australia) Limited
- Macquarie Bank Limited
- National Australia Bank Limited
- Reserve Bank of Australia
- Westpac Banking Corporation

* As of March 2017

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Appendix 3 – Glossary

**Accession Agreement** means an agreement in which a prospective NPP Participant accedes to the Shareholders’ Agreement.

**Addressing Service** means that component of the NPP Basic Infrastructure that enables registration of Alias information and performance of Addressing Lookups.

**ADI** means an authorised deposit-taking institution as defined in the Banking Act 1959 (Cth) or the RBA.

**Alias Registration Protocol** means the protocol established by NPPA to manage the initial registration of Alias Information which will apply on a transitional basis only.

**Applicant** means a prospective NPP Participant or Connected Institution.

**Connected Institution** means a body corporate which is connected to the NPP Basic Infrastructure solely for the purpose of sending and receiving Non-Value Messages, and which, for the avoidance of doubt, may also be an Overlay Service Provider.

**Connected Overlay Service Provider** means an Overlay Service Provider that is also a Connected Institution.

**ESA** means an exchange settlement account maintained by an NPP Participant with the RBA for the purpose of effecting settlement of, amongst other inter-institutional payment obligations, the obligations required by the NPP Regulations to be settled via the FSS.

**FSS** means the Fast Settlement Service operated by the RBA as a part of RITS, for settlement of NPP Payments by NPP Participants.

**Identified Institution** means an institution that is not connected to the NPP Basic Infrastructure, but which has an arrangement with one or more NPP Participants to clear and/or settle NPP Payments on its behalf using the institution’s BSB, associated BIC11 and payment routing information set out in the NPP Business Reference Data Tables.

**Member** means a preference shareholder in NPPA.

**Non-Value Message** means a non-value message, such as a payment initiation or inquiry message, which may be sent and received via the NPP Basic Infrastructure.

**NPPA** means NPP Australia Limited (ACN 601 428 737).

**NPP Basic Infrastructure** means the New Payments Platform comprising the network, switching and addressing infrastructure and systems developed by or on behalf of NPPA which:

a) Supports the exchange of Non-Value Messages between NPP Participants and Connected Institutions; and

b) Facilitates the clearing and settlement of NPP Payments between NPP Participants.

**NPPA Business Reference Data Tables** means the database of NPP Business Reference Data which is maintained by NPPA.

**NPP Participant** means a preference shareholder in NPPA which:

a) connects directly to the NPP Basic Infrastructure for the purposes of sending and receiving NPP Payments and Non-Value Messages; and

b) Is either authorised by the RBA to use the FSS for settlement of NPP Payments or has not been authorised by the RBA to use the FSS for settlement of NPP Payments, but which has entered into an arrangement with another NPP Participant to settle its NPP Payments.

**NPP Procedures** means the technical, operational and security procedures prescribed by NPPA for the purposes of the NPP Basic Infrastructure.

**NPP Regulations** means the rules prescribed by NPPA that establish the core obligations and rights between NPPA, NPP Participants, Connected Institutions and Overlay Service Providers, including, without limitation, the annexures and schedules of the NPP Regulations, as amended from time to time.

**OSP Applicant** means an applicant who wishes to become an Overlay Service Provider.

**OSP Application Fee** means the fee determined by NPPA to be payable by an OSP Applicant upon lodgement of an OSP Application.

**Overlay Service** or **OS** means a payment service, or payment-related service, using the NPP Basic Infrastructure, to be provided by an Overlay Service Provider to Overlay Service Subscribers.

**Overlay Service Payment** or **OS Payment** means an overlay service payment transaction, and associated messages, cleared and settled using the NPP Basic Infrastructure by an NPP Participant (which is either an OS Subscriber or a provider of NPP clearing and settlement services to an OS Subscriber) pursuant to scheme rules established by an Overlay Service Provider.
Appendix 3 – Glossary

Overlay Service Provider or OSP means a person who is authorised by NPPA to provide an Overlay Service.

Overlay Service Rules or OS Rules means all of the commercial, technical and other terms and conditions upon which an OSP provides an Overlay Service to OS Subscribers.

Overlay Service Subscriber or OS Subscriber in relation to an Overlay Service means a subscriber to the Overlay Service.

Participant Application means application for participation as an NPP Participant or Connected Institution.

Payee means, in relation to an NPP Payment, the Account Holder of the destination Account.

Payer means, in relation to an NPP Payment, the Account Holder of the source Account.

Payment Initiation Message means a non-value message requesting a payment to be made which may be processed via the NPP Basic Infrastructure.

Provisioning Agreement means an agreement between an NPP Participant or a Connected Institution and NPPA to provide the NPP componentry and any additional components necessary to establish, maintain and operate a connection to the NPP Basic Infrastructure.

RBA means the Reserve Bank of Australia.

Shares means redeemable preference shares in NPPA.

Shareholders Agreement means the agreement between NPPA and each Member dated 24 September 2014, as amended from time to time.

Subscription Price means, in relation to a Participation Application submitted by a person who is not a Member, the subscription price for the Shares to be subscribed for by that person.

Transaction Fees means the NPP Basic Infrastructure usage fees payable by NPP Participants and Connected Institutions, as determined by NPPA.
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Thank You