

Dated

30 October 2015

Reconciliation manager

MARKET OPERATOR SERVICE PROVIDER AGREEMENT

Electricity Authority

and

NZX Limited

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This **Reconciliation manager Market Operator Service Provider Agreement** is made on 30 October 2015

between (1) **Electricity Authority**, a Crown entity established under section 12 of the Electricity Industry Act 2010 ("**the Authority**");

and (2) **NZX Limited**, company number 1266120 ("**the Provider**")

INTRODUCTION

- A. The Electricity Industry Act 2010 (the **Act**), the Electricity Industry (Enforcement) Regulations 2010 made under section 112 of the **Act** (the **regulations**) and the Electricity Industry Participation Code 2010 made under section 36 of the **Act** (the **Code**) govern the electricity industry in New Zealand, including the operation of a wholesale electricity market.
- B. The **Authority** was established as an independent Crown entity under section 12 of the **Act**, which came into effect on 1 November 2010.
- C. Pursuant to section 16(1)(h) of the **Act**, the **Authority** has the power to contract for market operation services. Clause 3.1 of Part 3 of the **Code** provides for the **Authority** to appoint market operation service providers (**service providers**), including a reconciliation manager.
- D. The **Authority** wishes to appoint the **Provider** as, and the **Provider** has agreed to undertake the role of, reconciliation manager in accordance with the **Act**, on the terms set out in the **regulations**, the **Code** and this **agreement**.

THE PARTIES AGREE as follows:

1. DEFINITIONS

In this **agreement** (including the Introduction), unless the context requires otherwise:

"**Act**" has the meaning set out in paragraph A of the Introduction;

"**additional requirements**" means the requirements set out in schedule 4;

"**agreement**" means this reconciliation manager service provider agreement and includes the schedules;

"**business day**" means a day other than a Saturday, Sunday or a public holiday (as defined in the Holidays Act 2003) in Wellington;

"business process information" means information developed, held or received by the **Provider** relating to how the **services** are provided, including how the **System** and/or **software** is used to provide the **services**, including process diagrams, flowcharts, checklists, operating procedures, validation procedures and training materials;

"Code" has the meaning set out in paragraph A of the Introduction;

"commencement date" means the later of 1 May 2016 and the date when the last party signs this **agreement**, being the date on the front page of this **agreement**;

"confidential data" means:

- (a) **data** which is:
 - (i) provided by, or to, **participants** for the purpose of complying with the **Code**; or
 - (ii) received or created within the **System** or through the **Provider** carrying out the **services**; or
 - (iii) any **processed data**; or
 - (iv) marked or designated by the disclosing party as being confidential; or
 - (v) by its nature clearly confidential to the supplying party; or
- (b) the **documentation**,

but excluding:

- (c) information that the **Act, regulations, Code** or **functional specification** requires to be **published**;
- (d) information which, at the time it was received was, or thereafter without breach of the **Act, the regulations, Code** or this **agreement** by the **Provider** becomes, in the public domain; and
- (h) information that was, independently of the **Act, the regulations, the Code** or this **agreement**, acquired or developed by the **Provider**, other than the **documentation**;

"data" means any information (including information in electronic form or transferred into electronic form by the **Provider**) which the **Provider**:

- (a) holds in accordance with this **agreement**; or
- (b) directly or indirectly receives from or provides to **participants** or the **Authority** in relation to this **agreement**;

"data transfer plan" has the meaning set out in clause 13.5;

"documentation" means:

- (a) the user and technical documentation supplied, or to be developed, by the **Provider** for the **System**, or provided by a third party provider of third party software or equipment forming part of the **System**, to enable **users** to properly use the **System**, and the **Authority** and third party **service providers** to properly use, maintain and operate the **System**;
- (b) the **business process information**; and
- (c) the **user manual, the data transfer plan** and any other documents to be supplied pursuant to this **agreement**, and

includes any update of the **documentation**. **Documentation** may be online, hard copy or digital;

"existing intellectual property rights" means all **intellectual property rights** of a party or any of its third party licensors that existed as at the **commencement date** and are not developed, commissioned or created under or in connection with this Agreement. For the avoidance of doubt, **existing intellectual property rights** include any **intellectual property rights** developed, commissioned or created under or in connection with any previous service provider agreement between the parties;

"fees" means the fees set out in schedule 1, as varied from time to time in accordance with this **agreement**;

"financial year" means the **Authority's** financial year, being the twelve-month period beginning on 1 July and ending on 30 June in the following year;

"force majeure event" has the meaning set out in Part 1 of the **Code**;

"functional specification" means the functional specification in schedule 3 as the Commencement Date, provided that where such document is amended (under this **agreement**) pursuant to clause 7, the **functional specification** means the then current version of such document;

"GST" means goods and services tax payable pursuant to the Goods and Services Tax Act 1985;

"hardware" means equipment forming part of the **System**;

"hourly rate(s)" means the hourly rate(s) set out in schedule 1;

"Industry Best Practice" means, in relation to any **services**, the exercise of the skill, diligence, prudence, foresight and judgement which would be expected from a highly skilled and experienced and well-resourced person engaged in the same type of undertaking under the same or similar circumstances, applying the best standards and practices currently applied in, as the circumstances require, the relevant industry;

"**installation**" means the loading of **software** or **updates** on the appropriate **hardware** and the carrying out and satisfaction of any applicable testing as required by the **Authority** to confirm the continuing integrity of the **software** and any **updates**, and "**install**" and "**installed**" have corresponding meanings;

"**intellectual property rights**" includes copyright, and all rights conferred under statute, common Law or equity in relation to inventions (including patents), registered and unregistered trademarks, registered and unregistered designs, circuit layouts, confidential information, know-how, and all other rights resulting from intellectual activity in any field, together with all right, interest or licence in or to any of the foregoing;

"**interest rate**" means the 90 day commercial bill rate as published on page BKBM of Reuters monitor service and applying at 10.30am on the relevant day, plus 2%;

"**Law**" means any rules of common law, statute, regulation, order-in-council, by-law, ordinance or other subordinate or secondary legislation in force from time to time;

"**non-functional specification**" means the non-functional specification in schedule 2, provided that where such document is amended (under this **agreement** or the **System Delivery Agreement**) pursuant to clause 7, the **non-functional specification** is the current version of such document;

"**participant**" has the meaning given to it in section 5 of the **Act**;

"**performance standards**" means the performance standards and/or service levels set out in the **non-functional specification**;

"**PPSA**" means the Personal Property Securities Act 1999;

"**processed data**" means **data** which has, by use of the **software** or otherwise, been processed by the **Provider** pursuant to this **agreement**, the **regulations**, or the **Code**;

"**regulations**" has the meaning set out in paragraph A of the Introduction;

"**Rulings Panel**" has the meaning set out in Part 1 of the **Code**;

"**services**" means the services referred to in clause 3.2.1;

"**software**" means the software forming part of the **System** (including object code and source code, but only object code in the case of "**Third Party Software**" as defined in the **Software Licence Agreement**);

"**Software Licence Agreement**" means the reconciliation manager Software Licence Agreement dated 30 October 2015 between the parties;

"**specifications**" means:

- (a) the **non-functional specification**, the **functional specification**, the **additional requirements** and the **performance standards**; and
- (b) all third party product descriptions and specifications to the extent that they are not inconsistent with the **specifications** under paragraph (a) of this definition;

"**System**" means the system used to perform the reconciliation manager as at the **commencement date** (including **software**, hardware, cabling and infrastructure), as modified from time to time in accordance with this **agreement**;

"**update**" means the object code and source code of all fixes, modifications, revisions, releases and versions of the **software**;

"**users**" means **participants**, the **Authority** or individuals;

"**user manual**" means the instructional documentation to be provided by the **Provider** and agreed with the **Authority** to enable **users** to properly use the **System**; and

"**year**" means a period of 12 consecutive months.

2. CONSTRUCTION

2.1 **Interpretation:** The following rules of interpretation apply in this **agreement** unless the context requires otherwise:

2.1.1 **clauses, schedules and paragraphs:** a reference to a clause or a schedule is to a clause or schedule of this **agreement**, a reference in a schedule to a paragraph is to a paragraph in that schedule, the schedules to this **agreement** form part of this **agreement** and a reference to a schedule includes a reference to that schedule as amended or replaced from time to time;

2.1.2 **defined terms:** words or phrases appearing in this **agreement** in bold type are defined terms and have the meanings given to them in this **agreement**, or, if not defined in this **agreement**, have the meanings given to them in the **Act**, the **regulations** or Part 1 of the **Code** (as the case may be);

2.1.3 **documents:** a reference to any document, including this **agreement**, includes a reference to that document as amended or replaced from time to time;

2.1.4 **headings:** headings are included for convenience only and do not affect the construction of this **agreement**;

2.1.5 **inclusions:** references to inclusions or examples do not imply any limitation;

- 2.1.6 **joint and several liability:** any provision of this **agreement** to be performed or observed by two or more persons binds those persons jointly and severally;
 - 2.1.7 **negative obligations:** a reference to a prohibition against doing any thing includes a reference to not permitting, suffering or causing that thing to be done;
 - 2.1.8 **no contra proferentem construction:** the rule of construction known as the *contra proferentem* rule does not apply to this **agreement**;
 - 2.1.9 **number and gender:** words importing the singular include the plural and vice versa, and words importing one gender include the other genders;
 - 2.1.10 **parties:** a reference to a party to this **agreement** or any other document includes that party's personal representatives, successors and permitted assigns;
 - 2.1.11 **currency:** a reference to dollars or "\$" is a reference to New Zealand currency;
 - 2.1.12 **person:** a reference to a person includes any individual, corporation, unincorporated association, government department or local authority;
 - 2.1.13 **related terms:** where a word or expression is defined in this **agreement**, other parts of speech and grammatical forms of that word or expression have corresponding meanings; and
 - 2.1.14 **statutes, regulations, rules and codes:** references to a statute, regulation, rule or code include reference to regulations, orders, directions or notices made under or pursuant to such statute, regulation, rule or code and all amendments to that statute, regulation, rule or code whether by subsequent statute, regulation, rule, code amendment or otherwise and a statute, regulation, rule or code amendment passed in substitution for the statute, regulation, rule or code provision referred to or incorporating the relevant provisions.
- 2.2 **Conflict:** Unless specified otherwise in this **agreement** or the context requires otherwise, If there is a conflict between any of this **agreement**, the schedules to this **agreement**, the **Act**, the **regulations** or the **Code**, the following order of priority will prevail (in descending priority):
- 2.2.1 the **Act**;
 - 2.2.2 the **regulations**;
 - 2.2.3 the **Code**;
 - 2.2.4 this **agreement**; and

2.2.5 the schedules to this **agreement**.

3. APPOINTMENT

3.1 **Appointment:** The **Authority** appoints the **Provider** as reconciliation manager from the **commencement date** pursuant to clause 3.1 of the **Code** on the terms and conditions set out in this **agreement**, and in accordance with the **Act**, the **regulations** and the **Code**, and the **Provider** accepts such appointment.

3.2 **Services:** The Provider agrees to:

3.2.1 undertake the following **services** in accordance with the **Act**, the **regulations**, the **Code** (as applicable) and this **agreement**:

- (a) the duties and obligations to be undertaken by the reconciliation manager under the **Code**;
- (b) the services contemplated in the **non-functional specification**, the **functional specification** and the **additional requirements**; and
- (c) all other duties of the **Provider** under this **agreement**;

3.2.2 promptly perform the **services** with diligence, efficiency and skill, and to **Industry Best Practice**;

3.2.3 comply with all applicable **Law** and obtain, maintain and comply with all consents, permits, standards and licences (whether statutory, regulatory, contractual or otherwise) necessary for the provision and receipt of the **services**;

3.2.4 provide the **services** in accordance with the **Code**, **performance standards** and such additional or substitute **performance standards** as are agreed between the parties:

- (a) at the beginning of each **financial year** in accordance with clause 3.12 of the **Code**; or
- (b) at any other time during a **financial year** following a request by the **Authority** to alter the **performance standards**.

Agreement to additional or substitute **performance standards** may not be unreasonably withheld. If the parties cannot agree on **performance standards** within 20 **business days** of the beginning of each **financial year** or a request by the **Authority**, the matter may be referred to dispute resolution under clause 16;

3.2.5 promptly inform the **Authority** if:

- (a) the **Provider** breaches the **Act**, the **regulations** or the **Code** or any requirement of the **specifications**; or

- (b) the **Provider** becomes aware of any error or ambiguity in or in respect of the **non-functional specification**, the **functional specification** or the **additional requirements**;
- 3.2.6 co-operate with the **Authority's** other service providers and **participants** to facilitate effective provision of, and changes to, the **services** and all other services provided to the **Authority**;
- 3.2.7 provide the **services** from New Zealand; and
- 3.2.8 maintain a substantial presence and office in New Zealand; and
- 3.2.9 from the **commencement date**, ensure that the **System**, on a continuing basis:
- (a) functions, operates and performs so that the **services** are provided in accordance with this **agreement**;
 - (b) meets and satisfies the **specifications**; and
 - (c) is free from:
 - (i) viruses, to the extent reasonably possible (which includes the **Provider** using its best endeavours to protect against and eliminate viruses); and
 - (ii) material defects and errors.
- 3.2.10 continually plan and cater for the evolution of the **services** and seek to improve its performance under this **agreement** without additional cost to the **Authority** including performing the **services** more efficiently so as to reduce costs to the **Authority**, reduce the costs of providing the **services** and reduce costs to **participants**. Without limiting the foregoing, the **Provider** must:
- (a) produce and provide to the **Authority** for its approval, within 12 months after the **commencement date**, a documented roadmap for the evolution of the **services** to ensure that the **services** are improved over the term of this **agreement**;
 - (b) ensure that it has in place a defined process as to how it intends to develop and deliver innovation regarding the **services** by incorporating such innovation into the **services** during the term of this **agreement** for the benefit of the **Authority** and the electricity industry as a whole and by encouraging innovation on the part of **participants**; and
 - (c) invest in research and development and technology innovation specifically in respect of the **services** in order to reduce costs to the **Authority** while sharing the benefits; and

3.2.11 provide the **documentation** to the **Authority**.

3.3 **Provider's representative:**

3.3.1 The **Provider** will at all times during the term of this **agreement** provide a representative approved by the **Authority** (such approval not to be unreasonably withheld) to be the **Provider's** representative. The representative will:

- (a) be authorised to receive all directions and instructions in connection with provision of the **services** on behalf of the **Provider**;
- (b) monitor the performance of the **services**;
- (c) proactively identify and resolve any issues that may affect the provision of the **services**; and
- (d) review risks and agree risk management actions.

3.3.2 The representative (or a delegate appointed by the representative) will be contactable by the **Authority** from 8.30am to 5.00pm on **business days** (including by mobile telephone and email).

3.3.3 The representative (or a delegate appointed by the representative) will be contactable by the **Authority** at any time outside the hours in clause 3.3.2 in the event of any situation which the **Authority** reasonably considers requires immediate action by the **Provider**.

3.3.4 The **Provider** may appoint a replacement representative with the **Authority's** prior written consent, such consent not to be unreasonably withheld.

3.3.5 The **Authority** may at any time by notice to the **Provider** object on reasonable grounds to any representative (or any delegate appointed by the representative). The **Authority's** notice will state the grounds upon which the objection is based. As soon as practicable the **Provider** will, subject to clause 3.3.1, appoint a replacement representative (or delegate as applicable).

3.4 **Records, reviews and reporting:**

3.4.1 The **Provider** shall keep full, accurate and up-to-date records relating to the performance of the **services**.

3.4.2 The **Provider** will review its performance of the **services** in accordance with clause 3.13 of the **Code** and provide reports to the **Authority** in accordance with clause 3.14 of the **Code**. Such reports will include such other information as the **Authority** reasonably requests.

3.4.3 The **Provider** will provide other reports required by the **specifications**.

- 3.4.4 The **Provider** will provide any ad hoc reports to the **Authority** at the **Authority's** reasonable request, such reports to be paid for at the **hourly rates**.
- 3.4.5 All reports provided under this clause 3.4 must be presented in a format that is determined by the Authority, acting reasonably.
- 3.5 **Meetings:** The **Provider** will ensure that the representative appointed in accordance with clause 3.3 of this **agreement** attends monthly and annual meetings with the **Authority** (and additional meetings as reasonably required by the **Authority**), to discuss matters relating to the **services**. Meetings will be held at venues and times reasonably specified by the **Authority**. Without limitation the annual meetings shall include discussion of the outcome of any review conducted by the **Authority** and the **performance standards** to apply for the coming year.
- 3.6 **Audits:**
- 3.6.1 The **Authority** may conduct (and the **Provider** must co-operate with) audits of the **Provider's** performance of the **services** in accordance with this clause 3.6.
- (a) Audits may be held annually or at a greater frequency as required in good faith by the **Authority**.
 - (b) The **Authority** will give the **Provider** reasonable prior notice of any audit, unless the circumstances are such that it is unreasonable for the **Authority** to be required to give prior notice.
 - (c) Any audit will be conducted in a manner that does not unreasonably disrupt the **Provider's** business or staff.
 - (d) The costs of conducting audits will be borne by the **Authority** (except the **Provider's** costs of co-operating with any audit in connection with clause 3.6.1) unless any material non-compliance with this **agreement** is disclosed, in which case the **Provider** must reimburse the **Authority** for the reasonable cost of the audit.
 - (e) The Authority will keep all information obtained from the **Provider** as a result of an audit confidential, except as required by **Law**.
 - (f) The Authority will provide the **Provider** with a copy of the draft audit report and give the **Provider** a reasonable opportunity to comment on the draft before the audit report is finalised.
 - (g) The Authority will provide the **Provider** with a copy of the final audit report once the audit report is finalised.

- (h) To avoid doubt, audits under this clause 3.6 are in addition to the **software** audit required by clause 3.17 of the **Code**.
- (i) The Provider must implement any changes necessary to give effect to any reasonable recommendations made by an auditor, with the objective of constantly improving the **services**.

3.6.2 During the term of this **agreement**, the **Provider** must, at its own cost conduct two audits of its systems and processes. The first audit must be conducted, and the audit report finalised, between 30 April 2020 and 30 October 2020 and the second audit must be conducted between 30 April 2023 and 30 October 2023.

- (a) The auditor must be independent from the part of the **Provider's** business that provides the **services**, and must be approved by the **Authority**;
- (b) **Provider** initiated audits are to cover the full end to end scope of the **services**. The scope brief to the auditor is to be agreed with the **Authority** prior to the audit commencing;
- (c) If the **Provider** has annual business assurance audits that cover part or all of the scope and those business assurance audits are approved by the **Authority**, then the **Provider** may include the results of these business assurance audits in place of auditing that part of the **services**;
- (d) The **Provider** will provide a copy of the audit report to the **Authority** within five **business days** of the audit report being finalised. The audit report must include a description of the resolution and completion timeframes for all non-compliances, conditions and recommendations made by the auditor;
- (e) The **Authority** may, at its sole discretion and cost, meet the auditor to discuss the audit results. The **Authority** may at its sole discretion hold such meetings without the **Provider** being present and without reporting the results of such meetings to the **Provider**; and
- (f) If the term is extended in accordance with clause 4.2, a third **Provider** initiated audit must be conducted between two years and two years six months from the expiry of the **initial term**.

3.6.3 The **Provider** will conduct an annual software audit and software change audits as required by clause 3.17 of the **Code**.

3.7 **Warranties:**

3.7.1 The **Provider** warrants that:

- (a) All information provided by the **Provider** to the **Authority** under or in connection with the **services** or this **agreement** is:
 - (i) if prepared or generated by the **Provider**, true, accurate and not misleading in any material respect (including by omission); and
 - (ii) if prepared for or on behalf of the **Provider** by a third party, or provided to the **Provider** by a third party, to the best of the **Provider's** knowledge and belief true, accurate and not misleading in any material respect (including by omission);
- (b) its employees, contractors and agents have the suitable skills, training and experience for, and are properly supervised in, the provision of the **services**;
- (c) it is not aware as at the **commencement date** of anything within its reasonable control which might or will adversely affect its ability to perform its obligations under this **agreement**, the **regulations**, the **Act**, or the **Code**;
- (d) all **documentation** provided by the **Provider** under or in connection with this **agreement** will:
 - (i) contain sufficient information for the full and efficient operation of the **System** or relevant **services** to which the documentation relates;
 - (ii) correctly represent the attributes of the subject matter to which it relates;
 - (iii) provide proper and adequate instructions for its intended purpose; and
 - (iv) be written or delivered in language and at a level appropriate for the intended audience; and
- (e) each such warranty will be deemed to be repeated continuously by the **Provider** during the term of this **agreement**.

3.7.2 Without limiting the **Authority's** remedies, the **Provider** acknowledges that if, whilst performing the **services**, it omits to include all **data** made available to it at the relevant time in accordance with this **agreement**, the **regulations** and the **Code**, then it will re-perform the **services** in respect of all of that **data**, at no cost to the **Authority** or the **participants**.

3.8 **Personnel:** If the **Authority** is at any time dissatisfied on reasonable grounds with the conduct or performance of a particular person providing the **services**,

the **Authority** may, after consulting with the **Provider**, require the person to be replaced at the **Provider's** cost.

- 3.9 **Use of the System:** From the **commencement date**, the **Provider** shall use the **System** as required to provide the **services** to the **Authority** in accordance with this **agreement**.

4. TERM

- 4.1 **Term:** This **agreement** will come into effect on the **commencement date** and, subject to clause 4.2, unless otherwise terminated under this **agreement**, or the **Code**, will expire on 30 June 2024 (the "**Initial Term**").

- 4.2 **Renewal:** The **Authority** may, at its discretion, by giving notice to the **Provider** at any time up to six (6) months before the expiry of the Initial Term, renew this **agreement** for a further term of three (3) years from the expiry of the Initial Term (the "**Second Term**").

5. NOT USED

6. FEES

- 6.1 **Invoicing:** The **Provider** will provide the **Authority** with a valid tax invoice for the relevant **fees** for the **services** by the 5th **business day** of the month following provision of the relevant **services**.

- 6.2 **Payment:** The **Authority** will pay the **Provider** the **fees** for the **services** monthly in arrears by:

6.2.1 the 20th of the month, or if that is not a **business day** the next **business day**, provided that the **Provider** has complied with clause 6.1; or

6.2.2 if the **Provider** does not comply with clause 6.1, the 20th of the month, or if that is not a **business day** the next **business day**, of the month following receipt of a valid tax invoice from the **Provider**.

- 6.3 **Interest on default:** If the **Authority** does not comply with clause 6.2, the **Provider**, upon written notice to the **Authority**, will be entitled to charge, and the **Authority** will be liable to pay if the **Authority** has not remedied the non-compliance by close of business two **business days** after that notice is issued, interest on the relevant **fees** at the **interest rate** from the due date until payment.

- 6.4 **Payment method:** The **Authority** will pay the **fees** for the **services** by means of direct credit of immediately available funds to the **Provider's** bank account as notified by the **Provider** to the **Authority**, or in such other manner as may be mutually agreed in writing from time to time.

- 6.5 **Total fees:** Subject to clause 7, the **fees** are fixed and will not change unless agreed in writing between the parties. The **Authority** will not be liable to pay the **Provider** any fees or charges for the **services** other than the **fees**.

- 6.6 **No charge to participants:** The **Provider** may not charge any **participant** for the **services** except as approved by the **Authority**.
- 6.7 **Disputed invoices:** The **Authority** may withhold payment of an invoice or part of an invoice if:
- 6.7.1 the **Authority** disputes, on reasonable grounds, any invoice or part of any invoice submitted by the **Provider** provided that the **Authority** promptly notifies the **Provider** of the reasons for the dispute but must not delay payment of any undisputed portion provided the **Provider** complies with the Authority's administrative requirements in relation to the payment of the undisputed portion; or
 - 6.7.2 the **services** to which the invoice relates have not been supplied in accordance with this **agreement** and the non-performance has not been remedied to the **Authority's** reasonable satisfaction within 10 **business days** of the **Provider** receiving written notice of the non-performance,
- 6.8 Any dispute under clause 6.7 must be dealt with in accordance with the dispute resolution procedures set out in clause 16. If the outcome of any dispute under clause 6.7 is that the **Provider** was not at fault, then the **Authority** shall pay to the **Provider** the withheld amount plus interest on the withheld amount at the **interest rate** from the due date for payment until the date of payment.
- 6.9 **Overcharging:** If it is found at any time that the **Authority** has been overcharged for any reason and the **Authority** has actually paid the invoice containing such overcharge then, within 10 **business days** after such error has been discovered and the amount has been agreed to by the parties or determined in accordance with clause 16, the **Provider** must refund to the **Authority** the amount of any such overcharge. The **Provider** will issue a **GST** credit note in accordance with the Goods and Services Tax Act 1985 in order to correct the incorrect invoice. In addition, the **Provider** will pay interest on the overcharged amount at the **interest rate** calculated from the date of payment of the invoice to the date of repayment of the overcharged amount.
- 6.10 **GST:** The **fees** do not include GST, which if due must be paid by the **Authority** in addition to the **fees**. Such GST will be payable to the **Provider** at the same time as the payment in respect of which the GST is payable.
- 6.11 **Other taxes:** The **Provider** will bear the cost of all withholding and income taxes on payments made by the **Authority** to the **Provider** under this **agreement** and customs and other duties on or in respect of the services supplied by the **Provider** under this **agreement** (together referred to as "Taxes").
- 6.12 **Deductions:** Should any Taxes be levied and should they be required to be paid, deducted or withheld by the **Authority**, the **Authority** must make such payment, deduction or withholding and obtain appropriate receipts for such

payment, deduction or withholding from the proper authority in the name of the **Provider** and must promptly forward the originals to the **Provider**.

- 6.13 **Obligations to employees:** The **Provider** must meet all legal requirements in respect of its employees engaged in the supply of the services including payment of all wages, salaries, holiday pay or allowances, Accident Compensation levies, PAYE and other taxes, duties, redundancy compensation and any other item of remuneration or compensation due in respect of those employees.

7. CHANGES

- 7.1 **Authority-initiated change:** The **Authority** may, by notice to the Provider, require a variation to the terms of this **agreement**, the **services**, or the **System** as required to meet:

- 7.1.1 changes to the **Act**, the **regulations** or the **Code** or making of new regulations under the **Act**; or
- 7.1.2 material changes to the **performance standards** under clause 3.2.4; or
- 7.1.3 the **Authority's** reasonable requirements in connection with the reconciliation manager role.

The parties will, as applicable, carry out the change control process in the **non-functional specification** for variations to the **services** notified under this clause 7.1 (if applicable given the nature of the variation). The **Provider** will not unreasonably refuse any variation to the terms of this **agreement**, the **services**, or the **System** that falls outside the scope of this clause 7.1.

- 7.2 **Variation:** If the **Authority** requires a variation in accordance with clause 7.1, the parties will negotiate in good faith and act reasonably to try to reach agreement on the terms of the variation, and the process and plan for implementation of the variation, including any appropriate increase or decrease in the **fees** to reflect such variation.

- 7.3 **Pricing principles:** The following pricing principles will apply in respect of any variation:

- 7.3.1 the **Provider** will only charge the **Authority** for a variation to the extent the variation cannot reasonably be considered already within the scope of this **agreement**;
- 7.3.2 if there is a cost impact of the variation then the parties will use genuine efforts to agree a reasonable price for the variation (taking into account the nature and extent of the variation) in accordance with the rest of this clause 7.3;
- 7.3.3 the pricing for any variation must be:

- 7.3.3.1 reasonable;

- 7.3.3.2 competitive;
 - 7.3.3.3 based on the rates specified in paragraph 4 of schedule 1 (to the extent applicable);
 - 7.3.3.4 no higher than pricing the **Provider** offers its most preferred customers for products or services the same or similar to the products or services proposed to be provided to the **Authority** as part of the variation; and
 - 7.3.3.5 no higher than the price at which the **Authority** would be able to procure similar products or services from another service provider; and
- 7.3.4 without limiting clause 7.4, if requested by the **Authority**, the **Provider** will obtain and provide (at its cost) a certificate from an auditor confirming that any pricing of a variation complies with the requirements of this clause 7.3.
- 7.4 **Disputes:** If the parties cannot reach agreement on any matter under clause 7.2 within 10 **business days** of the **Authority's** notice under clause 7.1 then the matter will be resolved under clause 16, such resolution to reflect the principles of clause 7.3 in respect of an inability to reach agreement on a variation to the **fees**. The **Provider's** costs and profit will be assessed on a fully transparent open book basis and the **Provider** will make available to the **Authority** and any mediator, expert or arbitrator appointed under clause 16 all information required for this purpose.
- 7.5 **Additional work:** Notwithstanding clauses 7.2 and 7.3, where there is a variation to the **services** or the **System** under clause 7.1 that requires the **Provider** to carry out additional work, the **Authority** may (at the **Authority's** sole discretion) elect to pay for such additional work at the rates no higher than the applicable **hourly rates**. Where the **Provider** is providing **services** at the **hourly rates** (under this or any other clause):
 - 7.5.1 the **Provider** will keep proper records of the hours worked by its personnel and provide such records to the **Authority** on request; and
 - 7.5.2 the number of hours worked by its personnel must be reasonable in the circumstances.
- 7.6 **Changes to Act, Code, regulations:** Notwithstanding anything else in this **agreement**, any change to the **Act**, **regulations** (including the making of new regulations under the **Act**), the **Code**, and/or **specifications** after the date of this **agreement** will not affect the **Provider's** obligations or liability under this **agreement**, except to the extent expressly provided in a variation to the terms of this **agreement** implemented in accordance with this clause 7.

7.7 **Provider-initiated changes:** The **Provider** may, by notice to the **Authority**, request a variation to the terms of this **agreement**, the **services**, or the **System**. The **Authority** will consider any such request in good faith, provided that the **Authority** shall not be obliged to accept such variation request. If the **Authority** accepts a variation request under this clause then clauses 7.2 to 7.5 will apply as if the **Authority** had required the variation.

8. FORCE MAJEURE

8.1 **Force majeure in Code:** The force majeure provisions in clauses 3.7 to 3.10 of the **Code** inclusive apply in respect of the parties' obligations under this **agreement** as if those provisions were set out in full in this **agreement** (with such changes as are necessary to make them applicable to the parties' obligations under this **agreement**, rather than under the **regulations** and the **Code**).

8.2 **Relief:** To the extent that the **Provider** does not perform any of the **services** as a result of a **force majeure event**, the **Authority** is relieved of its obligation to pay the **Provider** any **fees** in respect of any such **services**.

9. INTELLECTUAL PROPERTY

9.1 **Warranties:** The **Provider** warrants that:

9.1.1 any material provided as part of the **services**, including the **documentation**, does not and will not infringe any **intellectual property rights** of any third party; and

9.1.2 the provision of the **services** and the use of the **services** by the **Authority** and the **participants** does not and will not infringe any third party's **intellectual property rights**.

provided that this warranty shall not apply to **data** which the **Provider** received pursuant to the **Code** in circumstances where the **Provider** had no knowledge, and could not reasonably be expected to have known, of any infringement of third party **intellectual property rights** in respect of such **data**.

9.2 **Indemnity:** The **Provider** indemnifies the **Authority** in respect of any costs (including legal costs on a solicitor-client basis), expenses, claims, liabilities, damages or losses incurred by the **Authority** as a result of a breach of any of the warranties in clause 9.1.

9.3 **Existing rights:** All **existing intellectual property rights** will be owned and remain owned by the relevant party or its third party licensors. The trademarks of the **Authority** comprise **existing intellectual property rights** of the **Authority**.

9.4 **New rights:** Except as set out in this clause, all new **intellectual property rights** that are developed, commissioned or created for the purposes of this **agreement** or the **services**, including all new **intellectual property rights** in:

9.4.1 the schedules to this **agreement (including the functional specification, non-functional specification and additional requirements)**, together with all modifications, adaptations and additions to the same; and

9.4.2 modifications, adaptations and additions to a party's **existing intellectual property rights** that are developed, commissioned or created for the purposes of this **agreement** or the **services**,

will be owned by the **Authority** as such rights arise. To the extent such rights vest in the **Provider** from time to time, the **Provider** shall, upon request of the **Authority**, assign such rights to the **Authority** or its nominee for nominal consideration. This clause:

9.4.3 is subject to the terms of the **Software Licence Agreement** that relate to ownership of **intellectual property rights** in the **software** and **documentation**; and

9.4.4 does not apply to:

- (a) the **Provider's** corporate publications or the **Provider's** business planning documents; or
- (b) the parties' know-how developed in the course of this **agreement** or the **services**.

9.5 **Trademarks:** The **parties** agree that:

9.5.1 the **intellectual property rights** in any and all trademarks used in relation to the **services** shall be the absolute property of the **Authority** as such rights arise, other than:

9.5.1.1 third party trademarks; and

9.5.1.2 the **Provider's** trade marks in general use by the **Provider** before the date of this **agreement**; and

9.5.2 the **Provider** must not apply its own or a third party's trade marks to the **services** except with the **Authority's** prior written approval.

9.6 **Licence:** The **Authority** grants to the **Provider** a royalty free, non-exclusive licence (for the term of this **agreement**) to use the **Authority's** trademarks solely to the extent necessary to perform the **services** in accordance with this **agreement**. The **Provider** agrees to comply with the **Authority's** brand guidelines as issued and amended from time to time when using the **Authority's** trademarks.

9.7 **No interest in data:** The **Provider** acknowledges that it will not:

9.7.1 obtain any rights to, interest in or ownership of any **data**, including any **processed data** derived from that **data**;

9.7.2 except with the **Authority's** prior written consent, use **data** or **processed data** as described in clause 9.7.1 for any purpose other than for providing the **services**, provided that no written consent will be required if such **data** or **processed data** has entered the public domain (that is, the data is able to be obtained by any member of the public without charge, such as from a website).

10. CONFIDENTIALITY AND SECURITY OF INFORMATION

10.1 **Restraints on use or disclosure:** Each party agrees that it will not without the prior written consent of the other use **confidential data** or disclose **confidential data** to any person other than those of its officers, employees and advisers essential to the implementation of the provisions contained in it or as required by law (including by the **Act, regulations** or **Code**) or under the Standing Orders of the New Zealand House of Representatives. Except to the extent it is transferred under clause 10.6, the **Provider** must at its own expense store all **data** and **processed data** held by the **Provider** as reconciliation manager.

10.2 **Personnel compliance:** Each party shall use its best endeavours to ensure those of its officers, employees and advisers to whom **confidential data** is disclosed in terms of clause 10.1 are aware of and comply with the confidentiality obligations imposed by that paragraph.

10.3 **Standard of protection:** In fulfilling the obligations in clauses 10.1 and 10.2 each party will as a minimum standard use the same degree of care to avoid disclosure as it uses to protect its own **confidential data**.

10.4 **Disclosure required by law:** If a party is required by law (including by the **Act, regulations** or **Code**) to disclose any **confidential data** it will immediately, to the extent legally permissible, and prior to such disclosure, advise the other party.

10.5 **Survival:** The obligations under this clause shall survive termination or cancellation of this **agreement**.

10.6 **Transfer of data:**

10.6.1 The **Authority** may at any time during the term of this **agreement** request that the **Provider**, at the **Provider's** own cost, either transfer to the **Authority** copies of, or grant the **Authority** access to, the **data, processed data** or **documentation**. Upon receipt of such a request from the **Authority**, the **Provider** will promptly transfer copies of the **data, processed data** and/or **documentation** to the **Authority** in a format(s) reasonably determined by the **Authority**.

10.7 **No announcements:** The **Provider** must not make or release public or media statements, or publish material related to this **agreement** or the **services**, without the **Authority's** prior written approval (such approval not to be unreasonably withheld).

10.8 **Publicise agreement:** The **Authority** will be entitled to **publicise** this **agreement** (including the schedules) as required by clause 3.5 of the **Code**.

10.9 **Documentation:** The fact that the **documentation** comprises or contains **confidential data** shall not prejudice or limit the **Authority's** rights under this **agreement** or the **Software Licence Agreement** or the **Provider's** obligations under this **agreement**.

11. BUSINESS CONTINUITY PLANS

11.1 **Business continuity plan:** The **Provider** must have in place at the **commencement date** and maintain and comply with throughout the term of this **agreement**:

11.1.1 business continuity plans for the continuance of the **services** in the event of any unplanned interruption to the **Provider's** ability to provide the **services**. The business continuity plans must assist the **Provider** to continue to fulfil its duties and obligations with the minimum of practical disruption; and

11.1.2 back-up procedures for all **data** and **processed data** held by the **Provider** that comply with the **non-functional specification**.

11.2 **Business continuity plan and procedure requirements:** The business continuity plan must:

11.2.1 be aligned with the current version of ISO 22301 or NFPA1600 or another recognised standard for business continuity planning;

11.2.2 be regularly tested (at least annually, but may be more frequently if **required**) and the results of each test reported by the **Provider** to the **Authority** in the following month's report, as required under clause 3.4.2;

11.2.3 be provided to the **Authority** before the initial business continuity plan or any changes are implemented, and the **Provider** will consider any feedback provided by the **Authority**;

11.2.4 contain contact details for the nominated contact person, including backup contacts. Such contact details to include multiple methods of contact including physical location and access details for all physical locations where the contact may be located when providing the **services**.

11.3 **Invoking the business continuity plan:** Whenever the business continuity plan is invoked, the **Provider** will:

11.3.1 notify the **Authority** as soon as possible. Such advice is to include the time of invocation, the reason for invocation, and the estimated time of restoration to business as usual **services**;

11.3.2 provide regular updates, at least once a day, of progress towards restoration while the business continuity plan is invoked;

11.3.3 notify the **Authority** as soon as possible after business as usual **services** are restored.

11.4 **Back-up copies:** Without limiting clause 11.1, the **Provider** will ensure that back-up copies of the **software** are kept off-site in a location at least 100 kilometres from the **Provider's** premises from which the **Provider** provides the **services**.

11.5 **Requirements of agreement:** Without limiting clause 11.1, the **Provider** must perform and comply with the requirements set out in this **agreement**, including the **non-functional specification**, in respect of:

11.5.1 back-up of all **data** and **processed data** and the **software** (including complying with the back-up policy agreed in accordance with the **non-functional specification**); and

11.5.2 business continuity.

12. TERMINATION

12.1 **Immediate termination by Authority:** The **Authority** may terminate this **agreement** with immediate effect on written notice to the **Provider** if:

12.1.1 the **Provider** ceases, or it becomes apparent that the **Provider** intends to cease, to carry on its business;

12.1.2 the **Provider** passes a resolution to be wound up or goes or is put into receivership, liquidation or statutory management or circumstances arise which entitle a Court or a creditor to appoint a receiver or manager or which would entitle a Court to make a winding up order, or suffers any other form of insolvency administration;

12.1.3 the **Provider** makes any arrangement for the benefit of its creditors;

12.1.4 at any time the limit on the **Provider's** liability to the **Authority** specified in clause 14.3 is exceeded; or

12.1.5 the **Act, regulations** or **Code** changes so that the reconciliation manager ceases to exist.

12.2 **Termination by Authority for material breach:** The **Authority** may terminate this **agreement** by giving not less than 15 **business days'** notice to the **Provider** if the **Provider** commits a material breach, or a series of breaches that when taken together constitute a material breach, of this **agreement**, the **regulations**, the **Act**, or the **Code**, and the **Provider** does not within 15 **business days** of the **Authority** requiring it to do so rectify the breach(es), or despite the **Provider** remedying the breach(es), the number of breaches causes the **Authority**, acting

reasonably, to lose faith in the **Provider's** ability to provide the **services** in a manner that is substantially compliant with the **Act, regulations, Code** or this **agreement**.

12.3 **Provider termination:** The **Provider** may terminate this **agreement** by giving not less than 15 **business days'** notice to the **Authority** if the **Authority** has not paid the **Provider** the relevant **fees** within one month after the due date for those **fees** provided that:

12.3.1 the **Provider** is not in material breach of this **agreement**, the **regulations** or the **Code** which breach remains unremedied;

12.3.2 the **Provider** notified the **Authority** within 8 **business days** after the due date that the **Authority** had not paid the **Provider** the relevant **fees**;

12.3.3 the unpaid amount is not disputed by the **Authority**; and

12.3.4 such notice will not be effective if the **Authority** pays the outstanding amount, plus interest in accordance with clause 6.3, before expiry of the 15 **business days'** notice period.

12.4 **Accrued rights and liabilities:** Termination of this **agreement** is without prejudice to the rights and liabilities accrued up to and including the effective date of termination.

12.5 **Mitigation:** Each of the parties must take reasonable steps to mitigate any claim for loss or damage it may have against the other under or arising out of this **agreement**, howsoever such claim may arise.

12.6 **Survival:** Expiry or termination of this **agreement** does not affect rights and obligations which by their nature survive expiry or termination including those contained in clauses 9, 10, 12.4, 12.5, 13, 14, 15, 16 and 17.

13. DISENGAGEMENT SERVICES

13.1 **Disengagement services:** On expiry or termination of this **agreement**, the **Provider** must provide all disengagement services requested by the **Authority** and/or specified in the **non-functional specification** for up to 18 months after expiry or termination, and will reasonably co-operate with the **Authority** or the **Authority's** nominated new provider (as the case may be) to ensure an orderly transition of the **services** to the **Authority's** new provider in a timely fashion with minimal disruption to the **Authority's** business and to **participants'** respective businesses. Those disengagement services will include, if requested by the **Authority**:

13.1.1 the continued provision of the **services**, or part of the **services**, being provided to the **Authority** prior to termination as requested by the **Authority** in accordance with this **agreement**. The **Authority** must continue to pay the **fees** for such **services** in accordance with the

agreement (or a reasonable proportion of those **fees** if only part of the **services** are required). For the purposes of this clause 13.1.1, the reasonable proportion of such **fees** shall reflect:

- (a) the **Provider's** actual costs of continuing to perform the relevant **services** (as revised); plus
- (b) a reasonable profit, consistent with the nature and quantum of fees that would be payable to a provider of services comparable to the **services** (as revised) provided under this **agreement**.

If there is any disagreement between the parties as to the reasonable proportion of such **fees** payable by the **Authority** the dispute shall be resolved by mediation and, if necessary, expert determination in accordance with clause 16 (Dispute Resolution) of this **agreement**. Each party agrees to provide to the mediator or expert all information and assistance required for this purpose. Each party will bear an equal share of the costs and expense of the mediation or expert determination. The costs and profit referred to in this clause 13.1.1 will be assessed on a fully transparent, open book basis.

13.1.2 the supply to the **Authority** for its ongoing use up to date copies of the **documentation**; and

13.1.3 training for the **Authority** and the new provider's personnel in respect of the relevant **services** provided by the **Provider** under this **agreement**.

13.2 **Payment:** The **Authority** will pay the **Provider** for any disengagement services that are in addition to the **services** being provided to the **Authority** prior to termination at the **hourly rates**.

13.3 **Data transfer:** Subject to clause 13.1, the **Provider** will, at the **Provider's** own cost, transfer all **data** and **processed data** (in a form reasonably required by the **Authority** and in accordance with the **data transfer plan**) that the **Provider** holds as reconciliation manager to the **Authority** or if the **Authority** requests, to the incoming reconciliation manager, and will provide a certificate to the **Authority** confirming that the **data** it has transferred is all the **data** and **processed data** it is required to transfer under this clause 13.3.

13.4 **Retention for compliance:** Notwithstanding any obligation on the **Provider** under this **agreement** to transfer **data** and **processed data**, the **Provider** will be entitled to retain a copy of such **data** to comply with any obligations it has at **Law**.

13.5 **Data transfer plan:** The parties will negotiate in good faith to agree a data transfer plan (the "**data transfer plan**") which sets out the timing and other requirements for the transfer of **data** and **processed data** in accordance with clause 13.2. When determining timing, the parties will take into account the volume of **data** and **processed data** to be transferred.

- 13.6 **Disputes:** If the parties are not able to agree a **data transfer plan** within 20 **business days** after the expiry or termination of this **agreement**, either party may refer the matter to expert determination under clause 16.2 (which determination, notwithstanding clause 16.3, shall be final).
- 13.7 **Co-operation:** The **Provider** agrees to work in good faith with any incoming **service provider** in relation to the transfer of **data** and **processed data** under clause 13.3, in accordance with the **data transfer plan**.
- 13.8 **Re-tender:** On request by the **Authority** at any time the **Provider** must promptly provide to the **Authority** all required information on the **System** and the provision of the **services**, including **documentation**, **business process information** and source and object code to enable the **Authority** to prepare and conduct procurement processes in connection with the reconciliation manager and other market operation service provider roles under the **Code**. Such information may include, if requested by the **Authority**, the supply to the **Authority** for its ongoing use of up to date copies of the **documentation**.
- 13.9 **Non-compete:** On expiry or termination of this **agreement**, the **Provider** shall not enforce against any personnel any provision of any contract with such personnel which would prevent them from ceasing their engagement or employment with the **Provider** following termination or expiry of this **agreement** and entering to any contract (employment or otherwise) with the **Authority** or any third party contracted by the **Authority** in connection with the **System** or the **services**.

14. GENERAL LIABILITY AND INDEMNITY

- 14.1 **Indemnity:** The **Provider** indemnifies and keeps indemnified the **Authority** from and against any loss, claim, demand, damage, cost, expense and liability incurred or suffered by the **Authority**:
- 14.1.1 in respect of damage to property or in respect of personal injury to, or the death of, any person arising out of, or in the course of, the provision of the **services** by the **Provider**, its personnel, agents or subcontractors;
- 14.1.2 arising from the wilful breach of this **agreement** by acts or omissions of the **Provider**, its personnel, agents or subcontractors; or
- 14.1.3 arising from the **Provider's** breach of any obligation under clause 10,
- except to the extent the **Authority's** loss, claim, demand, damage, cost, expense or liability directly resulted from breach of this **agreement** by the **Authority** or negligent or wilful acts or omissions of the **Authority**, its personnel, agents or contractors (other than the **Provider**).

- 14.2 **Obligations owed to the Authority:** The **Provider's** obligations and duties under this **agreement** are obligations and duties owed solely to the **Authority** and are not obligations or duties for the benefit of any other person.
- 14.3 **Provider cap:** Subject to clause 14.4, the **Provider's** liability to the **Authority** for all claims under or in connection with this **agreement** in respect of all events occurring in any **financial year**, whether in contract, tort (including for negligence), breach of statutory duty or otherwise is limited to \$2,000,000.
- 14.4 **Wilful breach and fraud:** Clause 14.3 does not apply to limit the **Provider's** liability arising from any wilful breach or fraud by the **Provider** or the **Provider's** liability under clauses 9.2, 10 or 14.1, nor does it limit the **Authority's** liability to pay any of the **fees** properly due and payable.
- 14.5 **Relationship to Code liability:** It is intended that the total liability of the **Provider** in respect of all events occurring in any **financial year** for all breaches of the **regulations** and the **Code** in its capacity as reconciliation manager, and under or in connection with this **agreement**, (with the exception of liability arising from any wilful breach or fraud on the part of the **Provider** or for liability arising under clauses 9.2 or 10 of this **agreement**) will be limited to the amount set out in clause 14.3. If the **Provider** incurs any liability in excess of such limit for all events in any **financial year** (whether in breach of the **regulations** or the **Code** or under or in connection with this **agreement**):
- 14.5.1 the liability of the **Provider** under this **agreement** will be reduced accordingly; and
- 14.5.2 the **Authority** will refund to the **Provider** any payments already made by the **Provider** to the **Authority** in respect of liability under this **agreement** to the extent required to give effect to this clause 14.5.
- 14.6 **Indirect loss:** In no circumstances will the **Authority** be liable to the **Provider**, whether in contract, tort (including negligence) or otherwise, for any loss of profit, loss of revenue or for any indirect or consequential loss arising out of a breach of this **agreement**, or otherwise in connection with this **agreement** (provided that this clause will not limit the **Authority's** obligation to pay any **fees** for the **services** which are properly due).
- 14.7 **Authority cap:** The maximum aggregate liability of the **Authority** in respect of all claims or liability of the **Authority** to the **Provider** for any matter arising under or in connection with this **agreement** (whether based on any action or claim in contract, equity, tort, including negligence or otherwise) in any year is limited to an amount equal to the total **fees** payable by the **Authority** in the first 12 months of this **agreement** (and if the liability arises within that first 12 months the total will be calculated on the basis of the average monthly charges multiplied by the balance of the 12 months). This clause 14.5 will not apply to:
- (a) any liability arising for wilful breach or fraud by the **Authority**;

- (b) the **Authority's** obligation to refund any payments to the **Provider** under clause 14.5; and
- (c) the **Authority's** obligation to pay the **fees** for the **services** under clause 6.

15. INSURANCE

- 15.1 **Obligation to insure:** The **Provider** will, from the **commencement date** until at least 2 years following the end of any disengagement period under clause 13, maintain adequate insurance cover (in respect of this **agreement**, its own business, the **hardware** and the supply of the **services**) for all normal commercial risks and in respect of any potential liability it may incur under this **agreement** or under the **regulations**, the **Act** or the **Code**, to ensure that any problems encountered by the **Provider** will not result in the disruption of the efficient performance of this **agreement** (except to the extent such cover is not reasonably available in the market). Such insurance will be in a form, and with an insurer, approved by the **Authority**, such approval not to be unreasonably withheld, and will be accompanied by a letter from the insurer confirming that the insurance cover is adequate to satisfy the requirements of this clause 15.1. The **Authority** may request a copy of such insurance at any time.
- 15.2 **Certificates of insurance:** The **Provider** shall promptly following each annual renewal of its insurance provide to the **Authority** a copy of its certificate(s) of insurance in respect of each insurance policy maintained pursuant to this clause 15 in order to establish compliance with clause 15.1.

16. DISPUTE RESOLUTION

- 16.1 **Notice of disputes:** The parties agree to use their best endeavours to resolve any dispute which may arise under this **agreement** through good faith negotiations. Either party may provide notice to the other of a dispute arising under this **agreement** ("Disputes Notice"). Except as provided in clause 16.6, no party shall commence any arbitration or litigation in relation to this **agreement** unless it has first invited the chief executive (or equivalent) of the other party to meet with its own chief executive (or equivalent) for the purpose of endeavouring to resolve the dispute on mutually acceptable terms.
- 16.2 **Mediation:** Any dispute arising under this **agreement** which cannot be settled by negotiation between the parties pursuant to clause 16.1 within 15 **business days** of the **disputes notice** may be referred by either party to non-binding mediation or, if agreed by the parties, to expert determination. Any mediation shall be held at a location to be agreed by the parties and conducted in accordance with the standard mediation agreement of LEADR (New Zealand) Inc. or its successor. If the parties cannot reach agreement as to the identity of the mediator or the expert within 10 **business days**, the mediator or expert, as the case may be, will be appointed at the request of either party by the chairperson or any other equivalent office holder for the time being of LEADR (New Zealand) Inc. or its

successor. The mediator's or experts costs will be borne equally by the parties. The parties agree that nothing in this clause 16.2 will oblige either party to mediate a dispute for a period exceeding 10 **business days** from the date on which the mediation commences.

16.3 **Arbitration:** Any dispute which is not settled pursuant to clause 16.2 within 60 **business days** shall be submitted, by written request of either party, to arbitration to be held in Wellington under the Arbitration Act 1996 before a single arbitrator who will decide the dispute. In the absence of agreement concerning the appointment of an arbitrator within 5 **business days** of referral to arbitration, either party may request for a suitably qualified, independent arbitrator to be appointed:

16.3.1 in the case of a dispute as to fees, operating costs or accounting matters, by the President for the time being of Chartered Accountants Australia and New Zealand; or

16.3.2 in all other cases or if it the parties do not agree that the dispute relates to fees, operating costs or accounting matters, by the President for the time being of the New Zealand Law Society,

to hear and determine the dispute and every arbitration will otherwise be conducted under and in accordance with the provisions of the Arbitration Act 1996. The arbitrator's costs will be borne equally by the parties.

16.4 **Continued performance:** The parties shall continue to perform their obligations under this **agreement** as far as possible as if no dispute had arisen pending the final settlement of any matter referred to arbitration.

16.5 **Final and binding:** The decision of any arbitrator appointed under clause 16.3 shall be final and binding.

16.6 **Urgent relief:** Nothing in this clause 16 shall preclude either party from taking immediate steps to seek urgent equitable relief before a New Zealand Court.

16.7 **Breach of Act, regulations or Code:** Any breach of the **Act, regulations** or the **Code** will be dealt with in accordance with the procedures under the **Act, regulations** or the **Code**, as applicable.

17. MISCELLANEOUS

17.1 **No assignment:** The **Provider** must not assign or transfer any of its rights or obligations under this **agreement** without the prior written consent of the **Authority** (such consent not to be unreasonably withheld).

17.2 **Non-solicitation:** The **Authority** and the **Provider** agree that, during the term of this **agreement**, neither party will approach the other's employees or contractors who are directly involved in the provision or receipt of the **services** with an unsolicited offer of employment. For the avoidance of doubt, this clause does not

prevent either party from publicly advertising employment positions or contract work and then offering employment or contracts to employees or contractors of the other party as a result of such public advertising.

17.3 **Relationship:** The relationship between the **Provider** and the **Authority** is that of independent contractor and nothing in this **agreement** will be taken as constituting the **Provider**, or its agents or employees, as agents, employees, joint venturers or partners of the **Authority**. Neither party has the power or authority to act for or on behalf of the other party other than as expressly authorised in writing and signed by the authorised representatives of the parties.

17.4 **Reliance:** The **Provider** acknowledges that:

17.4.1 it has entered into this **agreement** in reliance entirely on its own judgment and not on any representation or warranty made or information provided by the **Authority** or by any of its officers, employees or agents or any other person in the negotiation of this **agreement**; and

17.4.2 the **Authority** has entered into this **agreement** in reliance on the representations in the **Provider's** proposal dated 25 March 2015 and all other representations in writing made by the **Provider** or its officers, employees or agents relating to such proposal or this **agreement**.

17.5 **No third party benefits:**

17.5.1 Only the parties to this **agreement** may pursue any remedies or redress under or in connection with this **agreement**.

17.5.2 However, notwithstanding clause 17.5.1, nothing in this **agreement** will prevent any **participant** or the **Rulings Panel** from pursuing any remedies provided for in the **Act, regulations** or the **Code** in connection with a breach of the **Act, regulations** or the **Code** by the **Provider**.

17.6 **Waiver:** Any failure or delay by any person in exercising any of its rights under this **agreement** will not operate as a waiver of its rights and will not prevent such party from subsequently enforcing such rights or treating any breach by the other party as a repudiation of this **agreement**. Neither party is deemed to have waived any right under this **agreement** unless the waiver is in writing.

17.7 **No amendments:** Except as expressly set out in this **agreement**, the **Act, regulations** or the **Code**, this **agreement** may only be amended in writing and signed by both parties.

17.8 **Entire Agreement:** This **agreement** constitutes the entire understanding and agreement of the parties relating to the matters dealt with in it and supersedes and extinguishes all prior agreements between the parties relating to the matters dealt with in this **agreement**. To avoid doubt, this clause does not limit clause 17.4.2.

17.9 **Notices:** Any notice relating to this **agreement** must be in writing, delivered to the designated address of the person to whom the notice is to be given by hand, pre-paid mail or email to the relevant person at the addresses set out below, or such other address as is specifically designated by a party by notice to the other party in substitution for it. Any such notice is deemed to have been given as soon as it is personally delivered, two **business days** following posting or, if sent by email, when actually received in readable form by the recipient provided that any communication received after 5pm or on a day which is not a **business day** is deemed not to have been received until the next **business day**.

Authority:

Electricity Authority
PO Box 10041
Level 7, ASB Tower
2 Hunter Street
Wellington

Email: marketoperations@ea.govt.nz
Attention: General Manager Market Services

Provider:

NZX Limited
Level 1, NZX Centre
11 Cable Street
Wellington

Email: rm@nzx.com
Attention: Head of Energy

17.10 **Severability:** If any clause or provision of this **agreement** is held illegal or unenforceable by any judgment or award of any arbitrator, court or tribunal having competent jurisdiction, such judgment or award will not affect the remaining provisions of this **agreement** which will remain in full force and effect as if such clause or provision held illegal or unenforceable had not been included in this **agreement**, to the extent permitted by Law.

17.11 **Further assurances:** Each party shall, at its own expense, promptly sign and deliver any documents and do all things, which are reasonably required to give full effect to the provisions of this **agreement**.

17.12 **Governing law:** This **agreement** is governed by New Zealand law and New Zealand courts have non-exclusive jurisdiction.

EXECUTED as an agreement:

Signed for and on behalf of the
Electricity Authority by:

[name]

[role/position]

in the presence of:

Name:

Occupation:

Address:

Signed for and on behalf of **NZX Limited**
by:

[Name, position]

in the presence of:

Name:

Occupation:

Address:

SCHEDULE 1

FEES

1. The **fees** (exclusive of GST) are:
 - 1.1. the monthly fee in paragraph 2; and
 - 1.2. the fees under this **agreement** that are to be calculated in accordance with the hourly rates in paragraph 3;
 - 1.3. any fees above the base commitment for agreed work performed as part of the **upgrade and improvement services** that are calculated in accordance with paragraph 5.3 and 5.4;
 - 1.4. any termination fee calculated in accordance with paragraph 9;
less: any rebate(s) calculated in accordance with paragraphs 6 and 7 of this schedule.

2. The monthly fee:
 - 2.1. The monthly fee is as follows (the "**Monthly Fee**"):

Monthly Fee		Starting CPI Index
Infrastructure	\$2,083	<i>The actual CPI index for March 2016, to be inserted after 1 April 2016</i>
System	\$9333	<i>The actual CPI index for March 2016, to be inserted after 1 April 2016</i>
Services	\$60,749	<i>The actual CPI index for March 2016, to be inserted after 1 April 2016</i>
Upgrade and Improvement Services	\$35,700	<i>The actual CPI index for March 2016, to be inserted after 1 April 2016</i>

2.2. On 1 July 2021, the Services **Monthly Fee** will reduce by 5% from the **Monthly Fee** applicable in June 2021. For the avoidance of doubt, the reduced Monthly Fee will become the Current fee for the annual indexing process described in paragraph 4.1.

- 2.3. If the **agreement** is renewed in accordance with clause 4.2 of the **agreement**:
 - 2.3.1. the Infrastructure Monthly Fee will immediately reduce to \$0 (zero);
 - 2.3.2. the System Monthly Fee will immediately reduce to \$0 (zero); and

2.3.3. on 1 July 2024, the Services Monthly Fee will reduce by a further 10% from the Monthly Fee applicable in June 2024. For the avoidance of doubt, the reduced Monthly Fee will become the Current fee for the annual indexing process described in paragraph 4.1.

3. The hourly rates for unplanned chargeable work are as follows:

Resource	Hourly Rate (excl GST)	Starting CPI Index
Sponsor	\$275	<i>The actual CPI index for March 2016, to be inserted after 1 April 2016</i>
Project manager	\$210	<i>The actual CPI index for March 2016, to be inserted after 1 April 2016</i>
Senior developer	\$195	<i>The actual CPI index for March 2016, to be inserted after 1 April 2016</i>
Developer	\$175	<i>The actual CPI index for March 2016, to be inserted after 1 April 2016</i>
Test manager	\$195	<i>The actual CPI index for March 2016, to be inserted after 1 April 2016</i>
Test analyst	\$170	<i>The actual CPI index for March 2016, to be inserted after 1 April 2016</i>
Business analyst	\$180	<i>The actual CPI index for March 2016, to be inserted after 1 April 2016</i>
Auditor	Actual cost pass through	No indexing applies

It is expected that the **Provider** will agree to lower hourly rates for a major project, such as a major variation to the **System** under clause 7 of this **agreement**. Nothing in this schedule prevents the parties agreeing on lower hourly rates for the above resources or different hourly rates for specialist contractors for a major project.

4. Annual indexing

4.1. On 1 July 2017 and thereafter on each subsequent 1 July (each an "**Indexing Date**"), the Monthly Fees in paragraph 2 that have a Starting CPI Index, the hourly rates in paragraph 3 that have a Starting CPI Index, and the hourly rates in paragraph 5.3 will increase according to the following formula:

New fee = Current fee x (Current CPI Index / Last CPI Index)

Where:

New fee:	the Monthly Fee or hourly rate that will apply from 1 July in the relevant year
Current fee:	the applicable fee or rate that is specified in paragraphs 2 or 3 or that otherwise applies immediately before the relevant Indexing Date
Current CPI Index:	the CPI (as published by Statistics New Zealand) for the March immediately before the relevant Indexing Date
Last CPI Index:	the CPI, (as published by Statistics New Zealand) for the March 15 months before the relevant Indexing Date , or for any new fee added by variation, the Starting CPI Index agreed in that variation,

provided that where the ratio of 'Current CPI Index / Last CPI Index' is less than 1 (one), the new fee will remain unchanged.

4.2. To avoid doubt, any new **fees** calculated under this paragraph 4 shall be agreed between the parties in writing and shall not require a more formal variation to this **agreement** to take effect.

5. Upgrade and improvement Services:

5.1. The Monthly Fee set out in paragraph 2 includes the provision of 2,720 hours of **upgrade and improvement services** per **year** to be provided by appropriate resources made available by the **Provider** as appropriate for the required **upgrade and improvement service** and at the rates specified in paragraph 5.3.

5.2. The parties will agree in writing each **year**, acting reasonably and in good faith, the total number of hours over and above the base commitment to be committed for all resources for the **year** and the priority of any **upgrade and improvement services** requested by the **Authority**. The work programme is to be agreed by the parties with the objective of providing a steady stream of work over the relevant **year**.

5.3. In return for the **Authority** committing to a minimum number of hours in paragraph 5.1, the Provider will charge monthly in arrears for **upgrade and improvement services** actually performed per **year** at the following maximum rates:

Resource	Base Commitment (0 to 2720 hours)	Tier 2 (2721 to 5400 hrs) 12% discount	Tier 3 (5401 to 7200 hrs) 15% discount	Tier 4 (over 7201 hrs) 17% discount
Sponsor	\$261	\$242	\$234	\$228
Project manager	\$200	\$185	\$179	\$174
Senior developer	\$185	\$172	\$166	\$162
Developer	\$157.50	\$154	\$149	\$145
Test manager	\$185	\$172	\$166	\$162
Test analyst	\$157.50	\$150	\$145	\$141
Business analyst	\$157.50	\$157	\$153	\$149
Contractor	N/A	Above rates +3%	Above rates +3%	Above rates

5.4. **Calculation of the fee:** The monthly fee for **Upgrade and improvement services** shall consist of up to three parts:

- 5.4.1. an **Upgrade and Improvement Services** Base Commitment fee, which is charged as part of the monthly fee in paragraph 2 shall be calculated as $(2720 \times \text{the Developer base commitment rate})/12$;
- 5.4.2. a Base Commitment washup fee which will apply to any hours within the base commitment (2720 hours) that are provided by a resource other than Developer, Test Analyst or Business Analyst. These hours shall be charged at $(\text{the applicable rate for the resource} - \text{the developer rate}) \times (\text{number of hours for the resource})$; and
- 5.4.3. once 2720 hours have been expended during the year starting 1 July, additional hours will be charged at the tier rate for the relevant resource.

5.5. **Reporting of hours expended:** The **Provider** shall, in the monthly report, report:

- 5.5.1. the number of hours expended on **upgrade and improvement services** for each resource type for the month, and
- 5.5.2. a running total of the number of hours expended for the year starting 1 July to date for each resource type, and
- 5.5.3. a forecast of the hours expected to be expended in the remainder of the year starting 1 July for each resource type.

5.6. **Upgrade and improvement services** are designed to provide a steady stream of work to the **Provider's** internal resources. Before engaging a contractor to perform any **Upgrade and improvement services** the **Provider** will obtain the **Authority's** prior consent (such consent not to be unreasonably withheld or delayed).

- 5.7. If, in a **year**, less than the number of hours agreed in accordance with paragraphs 5.1 and 5.2 of such services are used, the unused hours will be carried over to the following **year**.
- 5.8. The agreed number of hours are to be applied each **year** to **upgrade and improvement services** across the Reconciliation Manager, Clearing Manager, Pricing Manager, Extended Reserves Manager and/or WITS systems. If not enough **upgrade and improvement services** were agreed at the start of the **year** to use all of the agreed hours, then the hours may be applied to additional **upgrade and improvement services** as determined by the **Authority**, and agreed to by the **Provider**, such agreement not to be unreasonably withheld or delayed, or carried over under paragraph 5.7.
- 5.9. **Upgrade and improvement services** will be provided by the **Provider** in accordance with this **agreement** as **services** for the purposes of this **agreement**.
6. **Mandatory Enhancements:** The **Provider** has planned for the development and implementation of the agreed mandatory enhancements to the **system** as specified in schedule 4 of the **agreement**. The system component of the Monthly Fee set out above includes the provision by the **Provider** for these enhancements. To the extent one or more of the mandatory enhancements is not supplied by 1 September 2018 the **fees** will be reduced by a rebate calculated in accordance with clause 7 (Changes) of this **agreement**, but the reduction will be at least the cost assigned to the applicable mandatory enhancement(s) detailed in schedule 4 adjusted by the ratio of the CPI for March 2018 divided by the CPI index for March 2016.
7. **Infrastructure lifecycle maintenance:** The **Provider** has planned for infrastructure lifecycle maintenance, and the infrastructure component of the Monthly Fee set out above includes the cost of this maintenance. The amount included for the infrastructure of the four market operations service provider agreements (WITS manager, Pricing Manager, Reconciliation Manager, and Clearing Manager) is \$680,000. If the **Provider** has not proceeded with infrastructure lifecycle maintenance to the full value of \$680,000 (indexed by CPI) by 1 July 2020, then the **fees** will be reduced by a rebate equal to the difference between \$680,000 (increased by the ratio of the CPI for March 2020 divided by the CPI index for March 2016) and the actual amount spent on infrastructure lifecycle maintenance. If the cost of the infrastructure maintenance exceeds \$680,000, the **Provider** will bear the cost of the excess.
8. **Third party innovation rebate:** For any third party innovation (provided under section 22 of the **non-functional specification**) where the **Provider's** client(s) pays a fee to the **Provider**, the **Authority** shall be rebated a portion of that fee. The amount and timing of the rebate to the **Authority** shall be agreed on a case by case at the time each third party innovation agreement is agreed with the **Provider's**

client. The underlying principle by which each case is to be agreed is that where the fee:

8.1. is a one off fee, whether paid as one lump sum or paid as a series of payments with a fixed end date, the **Authority** will be rebated between 15-25% of the gross revenue for developing and implementing the service.

8.2. is a subscription type of fee, the **Authority** will be rebated between 15-25% of the gross subscription revenue.

9. **Termination Fee:** If this **agreement** is terminated in accordance with clauses 12.1.5 or 12.3 of this **agreement**, then the **Provider** may charge the **Authority** a termination fee calculated as follows:

Enhancement Termination fee = Enhancement cost x (Remaining months / 96)

Where:

Enhancement cost: the sum of the costs assigned to each mandatory enhancement listed in schedule 4 that has been fully commissioned in accordance with this **agreement** and the **software** change audit accepted by the **Authority**

Remaining months: the number of whole months from the date of termination or the end of any transition period, whichever is the later, until 30 June 2024

And:

Services Termination fee = (Services fee x 6) x (Remaining months / 96)

Where:

Services fee: the monthly Services fee in clause 2.1 payable in the month prior to termination

Remaining months: the number of whole months from the date of termination or the end of any transition period, whichever is the later, until 30 June 2024

10. **Software maintenance and support costs:** To avoid doubt, the **fees** cover all third party software maintenance and support costs for the **System** (to the extent that those costs are required for the **Provider** to perform its obligations under this **agreement**). The fees for new third party software including updates, provided by the **Provider** pursuant to a change under clause 7 of the **agreement** shall be passed through to the **Authority** at cost.

11. **Optional Enhancements:** The parties record that the Provider has offered to provide the optional enhancements to the **System** detailed in Schedule 4 for the indicative prices set out in Schedule 4 during the **Initial Term**. If the **Provider** is requested by the **Authority**, under clause 7 of the **agreement**, to provide costs for a **System** change for any of the following developments, the parties must follow the change management process in clause 7 of the **agreement** provided that the **Provider** must base any proposed changes to the **fees** on the indicative prices set out in Schedule 4 (adjusted for CPI). If any charges or prices proposed by the **Provider** for such a **System** change are 10% or more above the indicated pricing (adjusted for CPI) then the **Provider** must provide justification for the price difference to the reasonable satisfaction of the **Authority**. If the **Provider** does not demonstrate such a change to the **Authority's** reasonable satisfaction, any increase in pricing beyond 10% will not apply:
12. **Transfer of Infrastructure:** The parties shall execute a separate agreement before 30 April 2016 to govern the arrangements for transferring the **Authority** owned infrastructure equipment to the **Provider**. The principles of the agreement shall be :
- 12.1. all of the infrastructure and equipment used to provide the **services**, including supporting software and licences, will be transferred to the **Provider**; and
 - 12.2. the consideration paid by the **Provider** to the **Authority** will be set by the **Authority** and will be no more than the book value of infrastructure and equipment at the date of that agreement, and no less than one dollar.
 - 12.3. The **Provider** may charge a monthly fee to the **Authority** to recover the consideration paid to the **Authority**. The period of time over which the monthly instalments will be charged shall be agreed, but will be as short a period of time as possible depending on the **Authority's** available appropriation, and will cease once the **Provider** has recovered the consideration paid.

SCHEDULE 2
NON-FUNCTIONAL SPECIFICATION

SCHEDULE 3
FUNCTIONAL SPECIFICATION

SCHEDULE 4

ADDITIONAL REQUIREMENTS

1. The **Provider** must meet the following additional requirements.

RFP Ref:	Base Enhancement	Fee
RM 2	AV-050: Removal of a redundant process	\$6,000
RM 4	GR-030: Publishing a publicly generic seasonal adjustment shape	\$26,000
RM 5	NT-010: Update trader notification web form	\$28,000
RM 6	NT-020: Update changes to the grid web form	\$26,000
RM 7	NT-040: Update NSP information	\$33,000
RM 8	PT-010: Additional data uploaded to web portal	\$48,000
RM 9	PT-030: Participants notify volume disputes via web form	\$27,000
RM 10	Automation of remaining email transfers	\$72,000
RM-AR 1	Move the internal user interface to Apex	\$522,000
RM-AR 2	Promote reconciliation participant self-management	\$1,000
RM-AR 3	Publish the NSP mapping table to reach a wider audience	\$22,000
RM-AR 4	Reduce submission errors and the need to complete re-runs	\$3,000
RM-AR 5	MarketConnect set up, shared	\$82,000
	Total:	\$896,000
	Plus audit pass through	At cost

2. Explanation of Base Enhancements

The following section summarises the mandatory enhancements contained in the table in paragraph 1.

2.1. RM 2: AV-050 – Removal of a redundant process

2.1.1. Description

The function of the AV-050 is for the reconciliation manager to receive information relating to balancing area mappings for the previous 14 months and must update the database accordingly. Currently for AV-050, the reconciliation manager receives the file from the registry in

accordance with Clause 2 of Schedule 15.4 of the Code; however the file is not processed and saved to the reconciliation system.

This process is no longer valid and required by the reconciliation manager as it is duplication of effort. The reconciliation manager currently receives updated balancing area information from participants via the AV-150, including all balancing area and NSP mapping changes from Distributors and Traders. Subsequently, the reconciliation manager sends this information to the registry as part of the RG-010 process each time an update is processed by the reconciliation manager.

NZX proposes to remove this duplication. Additionally, this would mean that the obligations on the Registry under Clause 2 of Schedule 15.4 and 11.26 of the Code should be removed.

2.1.2. Deliverable

- Draft Code change request
- Removal of facility for submission of AV-050 from reconciliation manager system.

2.2. RM 4: GR-030 – Publishing a publicly generic seasonal adjustment shape

2.2.1. Description

NZX will create a set of generic, national seasonal adjustment shape reports that can be used by participants to prepare their NHH submission.

NZX would generate new files during each initial or revisions for all consumption periods except for the 14 month revision. The shapes would be made available publicly on the reconciliation manager portal or provided to the Authority for distribution to new entrants.

2.2.2. Deliverable

- A new generic, national seasonal shape file for each initial or revision
- Shape files to be made available on the reconciliation portal and via automation.

2.3. RM 5: NT-010 – Update trader notification web form

2.3.1. Description

NZX will make trading notification changes available directly via the reconciliation manager portal in CSV format or to make them available to view in web form.

2.3.2. Deliverable

- A CSV format report containing all trading notification changes for a given participant. This report is to cover a period controlled by configurable setting on a system wide basis and/or
- A new screen in the Reconciliation portal to show the same information for the organisation associated with the currently logged in user.

2.4. RM 6: NT-020 – Update changes to the grid web form

2.4.1. Description

NZX will provide grid owners with access to the reconciliation manager portal to report changes to the grid. NZX will provide a web form where the user can communicate changes to the reconciliation manager such as new GXPs or GIPs, or decommissionings. NZX will then validate these requests and update the NSP table and NSP mapping table as required.

2.4.2. Deliverable

- A new screen in the reconciliation portal to allow participants (grid owner, embedded network owners, general connections and direct connections to the grid) to submit changes to the grid
- A new screen in the back office system to allow the analyst to review and accept or reject changes submitted through the web portal.

2.5. RM 7: NT-040 – Update NSP information

2.5.1. Description

NZX proposed that all formal notifications of updates to NSP information be published in the reconciliation manager portal. This will replace the need for email updates. A standardised notice will be developed and will be downloadable by the Authority and participants.

2.5.2. Deliverable

- System functionality developed to enable all formal notifications to be published in the reconciliation portal and submitted via automation services.

2.6. RM 8: PT-010 – Additional data uploaded to web portal for participant download

2.6.1. Description

Any data requested under PT-010 will be provided to the reconciliation participant who requested it via the reconciliation manager portal and automation services. This data will then be held in the reconciliation portal where it could be accessed at any time by the participant. This facility will simplify delivery of files to participants and provide a convenient repository for participants to access historical data requests.

2.6.2. Deliverable

- Development of functionality and screens in the back office system to allow an analyst to upload ad-hoc report files and associate them with a participant as the recipient of the file.

2.7. RM 9: PT-030 – Participants notify volume disputes via web form

2.7.1. Description

NZX proposes to provide the ability for reconciliation participants to submit their volume disputes via the reconciliation manager web portal. The reconciliation manager will receive notification that an invoice dispute has been logged by a participant and the information detailing the dispute will be passed to the reconciliation manager for assessment and communication to the Authority and affected participants.

2.7.2. Deliverable

- New web form in the Reconciliation web portal to allow dispute submission
- Email alerts to reconciliation analysts for any new submissions
- New screen in the back office system to allow analysts to review and print submitted disputes.

2.8. RM 10: Automation of remaining email transfers

2.8.1. Description

NZX will automate and thereby remove all manual transfer mechanisms listed in the additional requirements. The proposed automation includes but is not limited to all current datasets currently emailed, or manually pushed to the Authority. These will become system generated reports and delivered by an approved transfer mechanism.

2.8.2. Deliverable

- New formalised, loosely-coupled interfaces

2.9. RM-AR 1: Move the internal user interface to Apex

2.9.1. Description

NZX proposes to introduce Oracle Application Express (Apex) to the internal user interface used by the reconciliation analyst

Apex interfaces and the original interfaces are proven to operate successfully side-by-side so NZX proposes to move user interfaces to Apex progressively as other work is done on those interfaces.

Apex enables user interfaces to be re-developed more easily and quickly, lowering cost, and provides the opportunity to improve the usability of the system. By implementing Apex, NZX can incorporate all commonly run analyst diagnostics and checks that are performed outside of the system for each reconciliation consumption period.

2.9.2. Deliverable

- All functionality of the existing user interface replicated in Oracle Apex
- Decommissioning of all mod_plsql user interfaces
- Screens to check key process parameters
- Reports to check key process parameters
- Screens and/or reports to visualise changes in assessed prudential security and invoice amounts.

2.10. RM-AR 2: Promote reconciliation participant self-management

2.10.1. Description

NZX proposes to enable participants to enter their information directly into the reconciliation manager system via the reconciliation manager web portal. Alternatively participants will be able to provide this information in a CSV file which may be sent via the web portal upload facility, SFTP or web services.

2.10.2. Deliverable

- Generic service enhancement delivered through participant training and information sessions.

2.11. RM-AR 3: Publish the NSP mapping table to reach a wider audience

2.11.1. Description

NZX will develop a version of the NSP mapping table to be published on the reconciliation manager web portal for public access by potential new participants, and other interested groups. This is currently published by the Authority on the EMI website, and the information is available on the registry, but viewable only by users with logons.

2.11.2. Deliverable

- Publication of the NSP mapping table on the reconciliation portal.

2.12. RM-AR 4: Reduce submission errors and the need to complete re-runs

2.12.1. Description

NZX will develop a submission error reduction plan and to roll it out through its regular communications with participants.

2.12.2. Deliverable

- Generic service enhancement delivered through participant training and information sessions.

2.13. RM-AR 5: Private market connectivity options (shared across roles)

2.13.1. Description

To establish the connectivity interfaces between users and reconciliation portal. This connectivity will be shared with other MOSP service provider roles.

2.13.2. Deliverable

- Main reconciliation portal functionality removed from the Internet
- Private market connectivity
- A choice of connectivity options available for various user types to be able to access Market Connect (this is dependent on consultation with individual participants).

3. Optional Enhancements

In addition to the range of mandatory enhancements, the **Provider's** RFP response also contained a suite of optional enhancements for consideration by the **Authority**.

The **Provider** will, if the **Authority** elects at any time by notice in writing, provide the following optional system enhancements for the fees indicated in Schedule 1 (Fees):

Ref	Optional Enhancement	Cost
Question 5:		
RM5-Opt 1	AV-160: Global trade notifications	\$ 72,000
RM5-Opt 3	GR-010: Trader reconciliation data reported by NHH and HHR	\$ 48,000
Question 7:		

RM7-Opt 1	Perform the initial reconciliation without NHH submissions	\$72,000
RM7-Opt 2	Set up a metering hub and operational data store	\$2,200,000
RM7-Opt 3	Enhance the participant user interface and enrich the information offered	\$220,200
RM7-Opt 4	Upgrade the reconciliation portal on WITS as an extension to NZX's proposed upgrade of the WITS user interface	TBD
	Total:	\$2,612,000
	Plus audit pass through	At cost

Any optional enhancement so notified by the Authority will be documented in accordance with clause 7.

4. Explanation of Optional Enhancements

4.1. RM5-Opt 1: AV-160 – Global trade notifications

4.1.1. Description

Currently, participants must supply trading notifications for all locations where they trade. When not done, this can prevent submission files from being loaded. When done incorrectly, it can lead to scaling. By removing this requirement, time would be saved for both participants and the reconciliation manager.

4.1.2. Deliverable

Modifications to the reconciliation system such that participants may make submissions for any location, and not be scaled if they fail to submit at any location.

4.2. RM5-Opt 3: GR-010 – Trader reconciliation data reported by NHH and HHR

4.2.1. Description

In conjunction with changes to trading notifications, NZX propose to create a new version of the GR report, GR-010. The GR-010 report contains detailed reconciliation results.

The new report will enhance the reconciliation participants' ability to manage NHH and HHR reconciliation results inside of their respective businesses. Currently participants use trading notification contract numbers to manage the HHR and NHH volume split.

4.2.2. Deliverable

- New GR-010 report without contract codes and aggregated by NHH and HHR per GXP

4.3. RM7-Opt 1: Perform the initial reconciliation without NHH submissions

4.3.1. Description

NZX propose a change to the fundamental mechanics of the reconciliation manager process. NZX considers there is benefit to the

reconciliation participants in the reconciliation manager performing the initial reconciliation for each new period without submitted non-half hour (NHH) volume.

The greatest benefit to participants would be a reduction in UFE for the initial reconciliation period, creating greater accuracy in the results. We assume that participants will then submit NHH volumes for the wash-up cycles 1, 3, 7 and 14.

NZX will continue to include HHR submissions as smart metering will continue to grow and more retailers will begin to submit this volume at the half hour level, again generating greater accuracy. In the past, we have seen the result of participants submitting residential HHR with slight reductions in UFE in the urban areas, especially.

4.3.2. Deliverable

- Operational process and system functionality changes in reconciliation manager operations to process without NHH submission data.

4.4. RM7-Opt 2: Set up a metering hub and operational data store

4.4.1. Description

NZX propose a dedicated metering hub and operational data store into which all metered data (GIP/GXP/ICP, HH/NHH) will be loaded to provide a single source for the reconciliation and clearing managers.

Industry participants will have access to their own data, and potentially to market wide data that is aggregated and/or made anonymous as appropriate. This would include the Authority.

This initiative will support any industry movement towards reconciliation at the ICP level. It will also create efficiencies across the entire industry including co-ordinated collection and storage of data, pre-defined levels of aggregation to meet all market needs, all New Zealand metering data available in one place by ICP and available, industry standard formats and best practice in data store design and analytics.

4.4.2. Deliverable

- Web and automation interfaces for the submission of metered data
- Data store with fully conformed reference data tables
- Query tools to allow participants to specify data for download
- Custom market data reports
- Retail consumer access to their own data

4.5. RM7-Opt 3: Enhance the participant user interface and enrich the information offered

4.5.1. Description

NZX propose to enhance the participant user interface to the reconciliation manager's system with the objective of providing participants with reconciliation information in a form that enables them to check and compare submissions, view summarised results by balancing area and NSP, and easily download datasets.

NZX's concept is as follows:

- Tools to visualise reconciliation data will be provided. This will allow participants to understand and compare:
 - o Their submission position over time broken down into key components (NSP, balancing area, non-half hour/half hour metering, profile and loss code),
 - o Their submission results by reconciliation period showing information broken down in summary form by loss code, UFE, Unders, Overs and Reallocation via Interconnection, and
 - o The overall New Zealand outlook, total volumes, consumption and generation, UFE, broken up by network area, aggregated by both island and national.

4.5.2. Deliverable

- New screens in the reconciliation portal providing rich graphical representations of various data as specified above.

4.6. RM7-Opt 4: Upgrade the reconciliation portal by incorporating it into WITS as an extension to NZX's proposed upgrade of the reconciliation user interface

4.6.1. Description

Participants currently access their secure reconciliation information via the reconciliation portal. This portal sits independently, outside of the current WITS interface. NZX's base offer includes retaining the independent reconciliation portal outside of the WITS user interface.

NZX's WITS proposal is to upgrade the WITS user interface, retaining the back end functionality but re-creating the user experience. Our proposal for WITS will see the introduction of a user dashboard capability, where the user chooses what data they see and where this data is located on screen. This capability can be rolled out to provision data from other MOSPs.

Here in our reconciliation manager proposal, we propose that the reconciliation manager participant user interface is likewise redeveloped as an extension to the WITS user interface upgrade.

We propose to create a set of reconciliation data widgets in WITS to provide the front end display of data provided from the clearing manager system. The reconciliation manager will integrate with WITS in a decoupled way via the use of a messaging capability and an Enterprise Service Bus (ESB). When a reconciliation widget in WITS is being used, for example, to display volume data, it will go to the reconciliation manager system micro service for data querying, and retrieve the latest data to pass back to WITS to display in the reconciliation widget.

There will be tight access control to ensure only authorised users can access their organisation's reconciliation details.

This upgrade of the reconciliation portal provides a secure, modular and decoupled integration capability, and provides a central facility for participants to see more of their market information, with a common user experience.

4.6.2. Deliverable

A suite of widgets available in the redesigned WITS system to cover:

- Submissions
- Downloads
- News and announcements
- Data visualisations of reconciliation data
- Various other features

5. Delivery Timeline

From 1 November, NZX will commence detailed planning to enable delivery of the full system enhancement program by 1 September 2018. This detailed planning will follow a standard project management approach and will be developed in consultation with the Authority and industry participants. This will cumulate into a finalised project plan for attachment to each role's respective System Delivery Agreement.

NZX is proposing a phased delivery approach across all MOSP roles to enable a more seamless transition for users between existing functionality and new functionality. This will also lead to a more streamlined audit process.

High-level indicative timeframe for implementation of the various phases is as follows:

Phase	Implementation Completed
1	1 October 2016
2	1 March 2017
3	1 July 2017
4	1 October 2017
5	30 June 2018
6	1 September 2018

Phase 1

RFP Ref	Phase 1 Enhancements - Delivery by October 2016
RM 2	AV-050: Removal of a redundant process
RM 4	GR-030: Publishing a publicly generic seasonal adjustment shape

Phase 2:

RFP Ref	Phase 1 Enhancements - Delivery by October 2016
RM 5	NT-010: Update trader notification web form
RM 6	NT-020: Update changes to the grid web form
RM 7	NT-040: Update NSP information
RM 8	PT-010: Additional data uploaded to web portal
RM 9	PT-030: Participants notify volume disputes via web form
RM 10	Automation of remaining email transfers
RM-AR 2	Promote reconciliation participant self-management
RM-AR 3	Publish the NSP mapping table to reach a relevant audience
RM-AR 4	Reduce submission errors and the need to complete re-runs

Phase 3:

RFP Ref	Phase 1 Enhancements - Delivery by October 2016
RM-AR 1	Move the internal user interface to Apex

Phase 5:

RFP Ref	Phase 1 Enhancements - Delivery by October 2016
RM-AR 5	MarketConnect set up, shared