



Electricity Authority

Service Report and User Guide
May 2023

Prepared by Jade Operations

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| business solutions

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OPERATIONAL ITEMS

Performance Standards

Measurement	Requirement	Actual	Met	Ref
Number and detail of service Provider Code or agreement breaches and details	Report delivered to Authority detailing breaches		Yes	Schedule 2 Non-functional requirements 5.2 table 1
Disaster recovery and backup obligations			Yes	Schedule 2 Non-functional requirements Section 7 (7.1 and 7.4)
Number and details of participant rule breaches	Report on 1 st business day delivered to Authority SFTP directory	01June23 at 03:43	Yes	
Maximum number of concurrent users for month		1074	Yes	Schedule 2 Non-functional requirements 2.7
During regular service hours (0730 hours to 1930 hours each day), the provider must ensure that the system is available to participants for no less than 99.9 per cent of the time in any one month. This statistic considers that planned, pre-approved, non-urgent maintenance outages are not included in the calculation of availability		100%	Yes	Schedule 2 Non-functional requirements 5.2 table 1
Outside regular service hours (between 1930 hours and 0730 hours) the provider must ensure that the system is available to participants for no less than 98.0 per cent of the time in any month. This statistic considers that planned outages will not count against availability level targets.		100%	Yes	Schedule 2 Non-functional requirements 5.2 table 1
The Registry must use its best endeavours to provide a service availability of 99.8 per cent or better, with nil or minimal outages.		100%	Yes	

<p>Unless otherwise approved in writing in advance by the Authority (such timely approval not to be unreasonably withheld) there must be no more than two planned outages per month, one of which is reserved for the monthly production release of software. Each planned outage must be at a time to be agreed by the parties and be no more than 2 hours in duration. Any planned outage of more than 2 hours duration must have the prior approval of the Authority, such timely approval not to be unreasonably withheld.</p> <p>Approved, pre-planned outages do not count against service level targets.</p>		<p>1) Release of Application Deploy 23_04_01 to marPreg on 05May</p> <p>2) Scheduled outage for DR Cutover from AKL to CHC 16 May</p> <p>3) Scheduled Microsoft Patching to MARAKLS3 Primary and CNWAKLS4 05 Primary Web Server 17 May</p> <p>4) Scheduled outage for DR Cutover from CHC to AKL 18 May</p> <p>5) Release of Application Deploy 23_05 to marPreg on 28May</p>	<p>Yes</p>	<p>Schedule 2 Non-functional requirements 5.3</p>
<p>Service response time of transactions sampled at regular intervals (every 1–5) minutes as agreed between the Authority and the Provider) during regular service hours for the system at the delineation point of the system to external communications providers</p>			<p>Yes</p>	<p>Schedule 2 Non-functional requirements 5.2 table 1</p>
<p>96% of all sampled transactions will have a response time of less than 2 seconds for all the components managed by the system at the delineation point of the Registry network.</p> <p>Longest time period in seconds</p> <p>Percentage of transactions exceeding 2 seconds</p>		<p><2 =99.81%</p> <p>93.88</p> <p>0.19%</p>	<p>Yes</p>	<p>Schedule 2 Non-functional requirements 5.2 table 1</p>
<p>90% will have a response time of less than 1 second for all the components managed by the system at the delineation point of the Registry network</p> <p>Percentage of transactions exceeding 1 second</p>		<p><1 =99.55</p> <p>0.45%</p>	<p>Yes</p>	<p>Schedule 2 Non-functional requirements 5.2 table 1</p>

Number of password lockout alerts. Investigation of all repeated lockout alerts required.		0		Schedule 2 Non-functional requirements 25.1 (n)
Help desk available	7:30 to 19:30 hours each business day	100%	Yes	Clause 11.20
Registry reports to participants day 1 09:00	09:00 hours on the first business day of the month	31May23 21:06	Yes	Clause 11 of Schedule 11.1
Issuing of confirmation notices within 4 hours of receipt of information provided			Yes	Clause 11.21
Number of ICP's changing traders	16:00 on the 6 th business day of the month		Yes	Clause 11.23
Such other information as may be agreed from time to time between the Registry and the Board	16:00 on the 6 th business day of the month		Yes	Clause 11.23
Reports to the clearing manager and systems manager by 16:00 on first business day of the month	16:00 on first business day	01Jun2023 00:24	Yes	Clause 11.24
By 16:00 on 4 th business day deliver to the reconciliation manager the ICP days report	16:00 on 4 th business day	07Jun2023 01:33	Yes	Clause 11.26
By 16:00 on 4 th business day deliver to the reconciliation manager the loss factors report	16:00 on 4 th business day	02Jun2023 00:00	Yes	Clause 11.26
By 16:00 on 4 th business day deliver to the reconciliation manager the balancing area report	16:00 on 4 th business day	02Jun2023 00:00	Yes	Clause 11.26
By 16:00 on 4 th business day deliver to the reconciliation manager the half hour identifiers report	16:00 on 4 th business day	07Jun2023 05:46	Yes	Clause 11.26
By 16:00 on 1 st business day deliver to the market administrator (Authority) a report summarising events that have not been notified to the Registry with specified time frames	16:00 on 1 st business day	01Jun2023 00:00	Yes	Clause 11.27
Notifications or change within the Registry to participants affected	Same day		Yes	Clause 11.29
Registry to publish Schedule of loss category code and loss factors	Within one day of notification of change		Yes	Clause 22 of Schedule 11.1
Registry to publish Schedule of mapping between NSP's and balancing areas	Within one business day of notification of change		Yes	Clause 24 of Schedule 11.1

Registry to publish Schedule of all NSP identifiers and supporting information	Within one business day of notification of change		Yes	Clause 30 of Schedule 11.1
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Adhoc Reporting Statistics

Report	Run	Complete	Average time (seconds)
Distributor Maintenance	5081	5081	2.3
Metering Maintenance	1249	1249	7.5
NSP Mapping Maintenance	31	31	7.1
Report - Audit Compliance	150	150	1126.4
Report - Breach Current	349	349	1.3
Report - Current Details	134	134	511.2
Report - Event Detail	29066	29066	106.2
Report - File Handler Status	5	5	0.1
Report - ICP List	5883	5883	230.2
Report - Loss Factor Codes	68	68	6.6
Report - Maintenance Breach	180	180	0.2
Report - Metering Installation Information	520	520	1508.6
Report - NSP Mappings	102	102	4.1
Report - Switch Breach History	91	91	22.9
Report - Switch Breach Rolling Compliance	1	1	8.1
Report - Trader Default Status Report	2	2	3.3
Request - Notify Resend	31	31	0.5
Switch AC	649	649	0.3
Switch AN	15247	15247	0.2
Switch AW	2533	2533	0.6
Switch CS	13638	13638	1.2
Switch MN	298	298	2.1
Switch NT	17294	17294	0.3

Switch NW	2772	2772	0.2
Switch RR	1134	1134	0.2
Trader Maintenance	2806	2806	3.7
Totals	99314	99314	55.7
Number of Reports successfully Re-Processed	21		

Batch File Statistics

Total	Complete	Completed by 07:30	Not completed by 07:30
97721	97721	97721	0

Details of Batch File Reports not completed by 07:30 Report	

Provider Code or agreement breach

Date	Number and detail of Provider Code or agreement breaches and details (ref Schedule 2 Non-functional requirements 5.2 table 1)

Other Information

The following reports/files are supplied to the Authority by the 6th business day of each month (unless otherwise specified) to the SFTP server:

- ICP's electrically connected, electrically disconnected, decommissioned and switched by Retailer and NSP
- ICP's electrically connected, electrically disconnected, decommissioned and switched by Retailer
- ICP's electrically connected, electrically disconnected, decommissioned and switched by Distributor
- Report PR-130 as defined in functional specification
- Details of participant rule breaches (supplied on first business day)
- Details of participant switch breaches (supplied on first business day)

Business Continuity Plan Test

The following annual tests were completed in April 2023 (Jade Tracker #1047365 refers);

1. Placing 2 test calls to the people below advising them that this is a test call to confirm contactability in a Business Continuity event

a) Peter Taylor - Commercial Manager - 04 460 8866 or 027 281 7672 (Alternative Will Goldsmith)

b) Jade BCM Manager.

2. Have a Jade Developer log in from home to confirm connectivity.

Summary of Incidents

There were no incidents.

Software Related Fixes and Enhancements

ID	Description	Response
ER-1258	Report PR-15 (ICP details) was not retaining the user supplied user reference when submitted online. Noted during annual software audit	Release 23.05
ER-1256	CR-1270: allow the Reconciliation Manager to delete NSP mapping entries regardless of start date provided they have never been used	Release 23.05
ER-1257	EA rebranding: UAT browser interface (indicating that it is the UAT system) has had new EA colors applied and made more pronounced	Release 23.05
ER-1259	The GRID link has been removed whilst a decision is made on a potential replacement	Release 23.05

Data Fixes

Number and details of incidents requiring data fixes.

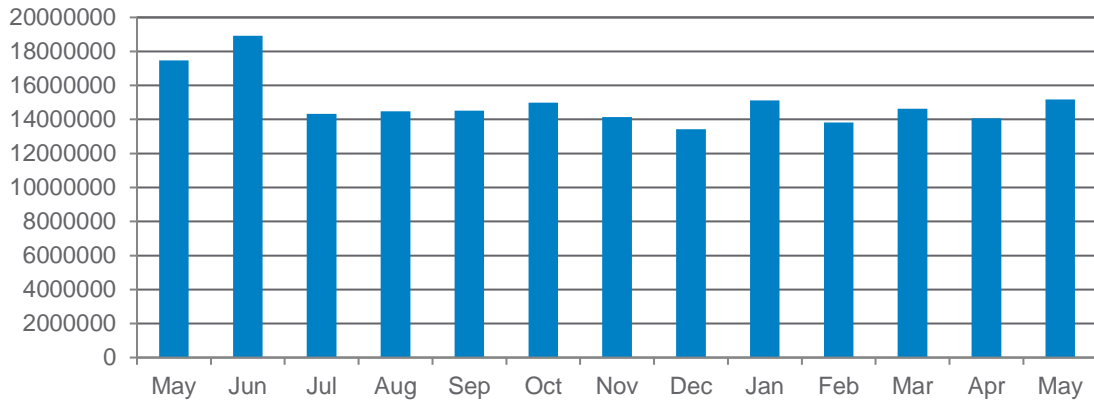
ID	Description	Severity	Response
-	-	-	-

Schedule of Issues Raised

A summary of issues raised during the month.

ID	Description	Severity	Response
ER-1282	Adding a new fuel type using the admin app creates an instance of the wrong class type	Medium (Priority C)	Closed
ER-1281	Error code #375 - Help text is not correct	Low (Priority I)	Submitted
ER-1280	CR-1208: add validation to outage load to verify how long since outage number was used	High (Priority B)	Submitted
ER-1279	RSMHRLIST files have a prefix of DFP5\$	High (Priority B)	Submitted
ER-1278	CR-1208: PR370 Planned outage report	Medium (Priority C)	In progress
ER-1277	CR-1222: Interface Configuration	Medium (Priority C)	Submitted
ER-1276	CR - 1222: APIM Developer Portal	High (Priority B)	Submitted
ER-1275	CR - 1222: API Policies	High (Priority B)	Submitted
ER-1274	CR - 1222: Network infrastructure Terraform	High (Priority B)	Submitted
ER-1273	CR - 1222: APIM Deployment pipeline	High (Priority B)	Submitted
ER-1272	CR - 1222: APIM Terraform scripts	High (Priority B)	Submitted
ER-1271	CR-1222: APIM /token endpoint	High (Priority B)	Submitted
ER-1270	Add the C&I TOU flag to the PR-010 LIS report	Low (Priority I)	Submitted
ER-1269	Getting a 1035 exception when trying to open the user maintenance screen	Critical (Priority A)	Closed
ER-1268	Make root the parent in the root::ftpcopyq relationship (affecting Automated tests only)	High (Priority B)	Closed

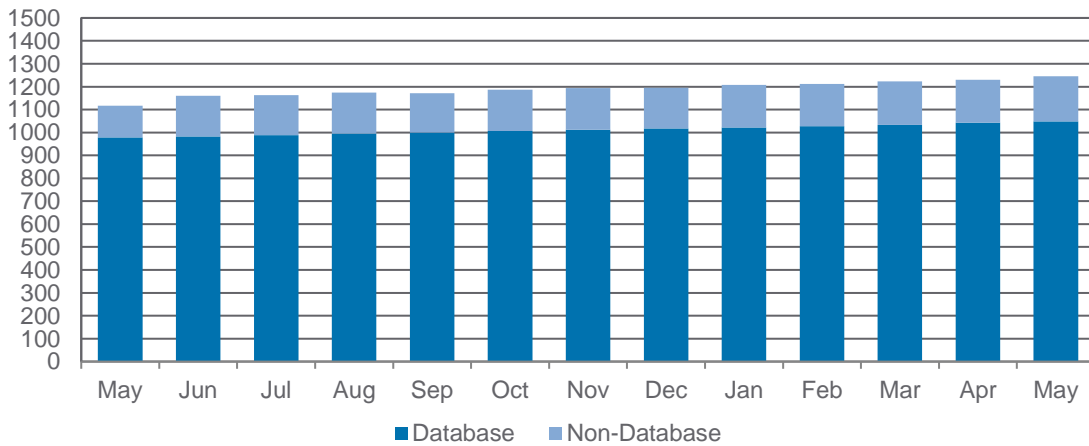
Database Transactions Production



Transaction Volumes

Transaction name	This Month	Last Month	Percentage Change
All Transactions	15,169,556	14,064,601	8%

Database Size Production (GB)



Database Growth

Class	This Month MB	Last Month MB	Change MB
Database	1,073,013	1,067,233	5,780
Non-database	202,287	191,942	10,345
Total	1,275,300	1,253,003	22,297

Service Disruptions (Production)

Scheduled outages are excluded from the calculation of the Availability Percentage.

Performance Measure	
Availability	100%
Number of Scheduled Outages	5
Number of Unscheduled Outages	0
Last Unscheduled Outage	May2021

Application Release Activities

Day	Detail	Authoriser
05May23 03:00– 03:33	Deploy of Registry Application Update 23_04_01 to marPreg	marcsm
28May23 03:00– 03:18	Deploy of Registry Application Update 23_05 to marPreg	marcsm

Other Activities

Day	Detail	Duration hh/mm	Authoriser
16May23	Scheduled DR Cutover of MARPREG from MARAKLS3 to MARCHCS1	01:47	Will Goldsmith
17May23	Scheduled Microsoft Patching to MARAKLS3 and CNWAKLS405	00:16	Will Goldsmith
18May23	Scheduled DR Cutback of MARPREG from MARCHCS1 to MARAKLS3	00:xx	Will Goldsmith

Backup Performance Production

The backup requirements were met this month.

Backup Type	Run days	Run Time	Expected Duration hh/mm
Disk	ALL	19:00	01:00
Tape	ALL	01:00	05:00

Electricity Authority Contact Information

Contact for day-to-day procedures or any unexpected events.

Contact Name / Role	Contact Details
Commercial Manager	Peter Taylor P: 04 460 8866 M: 027 281 7672 E: Peter.Taylor@ea.govt.nz

Automated Fault Escalation Profiles – Priority A Incidents

In the event of a “priority A incident” where the hardware or the application has an unscheduled outage the Electricity Authority has advised that escalation via email or text is not required.

However, if there is an unusually long outage impacting participants, Peter Taylor requires to be contacted.

Status of Functional Specification

(i.e., a report on the status of the functional specification);
Version 22.38 released to UAT and Prod 02 February 2023

Status of CR's and SDA's

(i.e., a summary report of the status of all CRs and SDAs);

CR Identifier	Description	Status
CR-1196	Switch Breach Inquiry screen	On hold. Low priority.
CR-1197	EIEP hub access for non-participants	On hold. Authority: pending consultation with interested parties. Aligned with CR-1251
CR-1208	Integrate EIEP 5A into the Registry	Approved. Development underway.
CR-1222	Inquiry only restful web services	Approved. Development underway.
CR-1251	EIEP Transfer Hub – White Paper	Approved. Development underway.
CR-1256	Trader Default Technical and User documentation	In CR development, not signed off yet. With Authority for review.
CR-1257	Trader Default software changes	In CR development, not signed off yet. With Authority for review.
CR-1260	Remove Automated Logon	Released to the dedicated secure test system (marSreg) 01/10/2021 Release pending to UAT and Production
CR-1262	(Config) Disable iframes Response Headers	Released to the dedicated secure test system (marSreg) 01/10/2021. Release pending to UAT and Production
CR-1267	Single Sign-on (SSO)	Approved. Development underway.
CR-1269	Outage Communications	Documents with the Authority.
CR-1272	Authority Rebranding	Approved. Implementation underway.

Design Consultation

This is outside the normal CRs and pertains more to design work required by market design.

Design consultation chargeable hours

Resource	Hours this month	Hours to date – since 01 May 2017
ACCES (MD-1212) – Project Management/Architect/Consultant/Designer	0.0	90.50
Prohibit Saves and Winbacks (MD-1233) – Project Management/Architect/Consultant/Designer	0.0	26.25
Total	0.0	116.75

Provider initiated Audits

(i.e., essentially the annual audits. Also, any other audit (relevant to the registry) Jade has initiated. Does not include CRs).

- An audit was carried out by Grant Thornton New Zealand Ltd in March 2023.

Breaches

There were no breaches reported this month.

Code Changes to be considered

(i.e., events that may highlight an area where a change to the Code may need to be considered);

User Group Meetings

(i.e., a summary of any user group meetings held and the items discussed);

The most recent user group meeting was on 20 December 2022.

AGREED PROCEDURES

Change Control

All significant changes will be notified to the Electricity Authority, and a Tracker work request will be created to record authorisation, schedule, and implementation detail.

Change requests must be approved within 1 month of the request being submitted.

In exceptional circumstances, for example where Jade Care consider server integrity to be under significant and immediate threat, changes may be applied with little or no notice.

Application Release Authorisation

Releases are automated through the Jade Care toolset. Submission and authorisation are separate functions, and the authorisation facility may be extended to the Electricity Authority or may be applied by the Client Service Manager where the Electricity Authority chooses not to use this facility.

Application Restarts

Requests for restart of applications or servers must be made in writing. In exceptional circumstances, and where the requestor is known to Jade Care staff, a verbal request may be sufficient, provided it is confirmed in writing shortly after the request is made.

Hardware Fault Reporting

SNMP traps will be enabled for all servers. Traps will result in alerts being raised at Jade Care and Tracker incident records being created. Automated escalation can be applied to these calls to alert the Electricity Authority and third parties to the event.

Arrangements may be put in place to allow Jade Care to contact hardware service organisations directly in the event of hardware issues. Contact and call identification details will be required as a prerequisite to implementation.

Anti-Virus Product

Anti-virus product is installed on all managed servers. Engine and pattern updates are applied on receipt, and full scans are run weekly.

Recovery Procedures

Application Recovery

The environments are set up to perform automatic application recovery in the event of a server undergoing a non-scheduled restart.

If there is a physical failure on the hardware where the VM is hosted on, the VM will be moved to a different physical VMware host. In the event of a catastrophic site failure, an SDS takeover will occur to the DR site upon approval by the Electricity Authority.

Server Recovery

Server recovery should never take place unless agreed by the Electricity Authority, Jade Care and hardware service representatives.

If a server operating system needs to be rebuilt, Central Systems will assist the onsite technician in rebuilding the server configuration and operating system to a state where Jade Care access is restored. Recovery of the full configuration, the applications and other third party software will be undertaken by Jade Care.

Server Integrity

The Electricity Authority servers are configured and maintained to Jade Care standards. This configuration is critical to the operation of the process automation and monitoring software.

It is essential that all changes to the server or application software is either performed by, or with the fore-knowledge and agreement, of Jade Care.

Reporting

Systems Management Report

This systems management report is to be provided by email to customer staff as advised. The target date for delivery is the 10th business day of the month following the calendar month to which the report relates.

Incident Reports

An incident report will be prepared for each unscheduled outage and will be emailed to customer staff as advised from time to time within 3 working days of any outage. These reports relate only to those items managed by Jade Care; e.g. network issues and hardware failures will not be subject to a report.

Jade Care Recommendations

Where Jade Care has recommendations for changes to hardware or the operating environment, these recommendations will be submitted to the Electricity Authority management. Implementation of such recommendations will be formalised through the change control process and documented through the systems management report in summary form.

Software Licences and Media Storage

All software media and licences must be kept in secured storage in reasonable proximity to the servers.

Personnel and Contact Details

The Electricity Authority must advise Jade Care of changes in personnel and contacts details where individuals are named as direct contacts. Fault escalations are pre-defined and automated to individual email addresses and SMS capable devices. Leave coverage and personnel changes must be advised for these functions to be effective.