



Electricity Authority

Service Report and User Guide
December 2024

Prepared by Jade Operations

jade

| business solutions

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Table of Contents

OPERATIONAL ITEMS	4
Performance Standards	4
Adhoc Reporting Statistics	7
Batch File Statistics	8
Provider Code or agreement breach.....	8
Other Information	8
Business Continuity Plan Test.....	9
Summary of Incidents.....	10
Software Related Fixes and Enhancements	10
Data Fixes	12
Schedule of Issues Raised.....	13
Instrumented Transactions	14
Maintenance Activities.....	16
Service Disruptions	16
Backup Performance Production	17
Electricity Authority Contact Information	17
Automated Fault Escalation Profiles – Priority A Incidents	17
Status of Functional Specification	18
Status of CR's and SDA's.....	18
Design Consultation	18
AGREED PROCEDURES	20
Change Control	20
Application Release Authorisation	20
Application Restarts	20
Hardware Fault Reporting	20
Anti-Virus Product	20
Recovery Procedures.....	20
Server Integrity	21
Reporting.....	21
Software Licences and Media Storage	21
Personnel and Contact Details.....	21

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	03 January 2025, 03:07	Yes	
Maximum number of concurrent users for month		1045	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	

Measurement	Requirement	Actual	Met	Ref
<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>		1) Deploy of Application Release 24_11 to marPreg on Sunday December 8 th at 03:00	Yes	Schedule 2 Non-functional requirements 5.3
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			Yes	Schedule 2 Non-functional requirements 5.2 table 1
<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 =99.63%</p> <p>74.27</p> <p>0.37%</p>	Yes	Schedule 2 Non-functional requirements 5.2 table 1
<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 =97.29</p> <p>2.71%</p>	Yes	Schedule 2 Non-functional requirements 5.2 table 1
<p>Number of password lockout alerts.</p> <p>Investigation of all repeated lockout alerts required.</p>		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	31 December 2024, 22:07	Yes	Clause 11 of Schedule 11.1
Issuing of confirmation notices within 4 hours of receipt of information provided			Yes	Clause 11.21

Measurement	Requirement	Actual	Met	Ref
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	03 January 2025, 00:50	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	08 January 2025, 02:25	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	06 January 2025, 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	06 January 2025, 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	08 January 2025, 08:48	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	03 January 2025, 00:01	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

Adhoc Reporting Statistics

Report	Run	Complete	Average time (seconds)
Change Network Creation Date	1	1	1.2
Distributor Maintenance	2284	2284	4.8
Metering Maintenance	1705	1705	5.2
NSP Mapping Maintenance	31	31	14.1
Planned ICP Service Interruption	1805	1805	1.6
Report - Audit Compliance	157	157	1230.1
Report - Breach Current	370	370	1.1
Report - Current Details	84	84	815.5
Report - Event Detail	25769	25769	205.9
Report - ICP List	6784	6784	546.3
Report - Loss Factor Codes	125	125	9.6
Report - Maintenance Breach	186	186	0.4
Report - Metering Installation Information	571	571	2034.5
Report - NSP Mappings	95	95	5.9
Report - Switch Breach History	83	83	26.0
Report - Trader Default General Information	2	2	429.2
Request - Notify Resend	31	31	0.5
Request - Switch Resend	29	29	0.2
Switch AC	450	450	0.3
Switch AN	12522	12522	0.3
Switch AW	1762	1762	0.9
Switch CS	11990	11990	1.9
Switch MN	232	232	1.8

Report	Run	Complete	Average time (seconds)
Switch NT	12826	12826	0.6
Switch NW	1796	1796	0.4
Switch RR	617	617	0.3
Trader Maintenance	2416	2416	5.4
Totals	84723	84723	124.1
Number of Reports successfully Re-Processed	22		

Batch File Statistics

Total	Complete	Completed by 07:30	Not completed by 07:30
83123	83123	83123	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 2024 (Jade Tracker #1120012 refers);

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

a) Peter Taylor - Commercial Manager - 04 460 8866 or 027 281 7672 (Alternative is 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-1454	Incorrect count of planned outages on web screen	Complete
ER-1457	Registry stats displayed inconsistently. ICP Enquiries uses a data type of integer to capture information, that type has a max size of 2,147,483,647. Some months the inquiry value exceeds this and causes a countdown to be performed which appears as a negative figure. Converted to Integer64 and once deployed a script will be run to correct the figures.	Complete
ER-1458	SSOUsers getting password due to expire message. There is no password (SSO users authenticate on their own AAD system). Left over message in the address inquiry screen. Removed (for SSO Users)	Complete
ER-1497	SSO user provisioning rejected if a preferred name with a length greater than 30 was supplied (30 is currently the max size). Changed so provisioning is not rejected, instead the preferred name is truncated to 30 characters. (change released as a hot patch applied 19/12/2024)	Complete
CR-1284	CR-1284 Distributor Inactive status maintenance <ul style="list-style-type: none"> ER-1443 Upgrade agent ER-1444 DM-020 Add additional Distributor information ER-1445 DM-030 Correct Distributor information ER-1447 RA-010 Trader becomes responsible for an ICP 	Complete
ER-1380	New inquiry REST API to report Planned Service Interruptions, refer developer portal for updated Open API documentation. (note:: updates to the developer portal are usually in the week following a release, if the portal does not contain updated information within one week of release please contact the Registry helpdesk)	Complete

ID	Description	Response
ER-1408	<p>SSO: enable SCIM group maintenance for different participants sharing an AAD instance.</p> <p>Participants may have multiple participant identifiers in the Registry representing different areas of their business, when they are setup to use the SSO SCIM interface their AAD identifier is associated with a single participant code, when they perform group maintenance it locates the participant associated with the AAD, if they want to maintain information for a relative participant they are unable to do so. Participants may now be set up to share the same identifier a 2nd key of email domain must be supplied to ensure uniqueness. Please contact the Registry helpdesk for further information.</p>	Complete
ER-1448	<p>ICP details REST service postcode returned as integer which did not allow for leading zeros. New post code property used and OpenAPI document notes the existing one will be deprecated in June 2025.</p> <p>(note:: updates to the developer portal are usually in the week following a release, if the portal does not contain updated information within one week of release please contact the Registry helpdesk)</p>	Complete
ER-1451	<p>Documentation change in functional specification to clarify AMI derivation does not include removed meter assets</p>	Complete
ER-1455	<p>Sftp file in use background noise. Behavior changes in participant batch file submission where a zero-length file is created as an initial step before data is subsequently written – this raises a windows notification, and the batch monitor application then generates an error as the file still has a handle on it (from the participant client application). Handling of file in use errors modified to not report these “false” errors</p>	Complete
ER-1460	<p>SSOUser provisioning: store work email if supplied in SCIM data.</p> <p>When a SSO user is created using the SCIM interface the users email address is provided in the userName property and this is stored in the Registry as the users email address, then used to locate the user when they return from AAD authentication.</p> <p>However, if a work email is defined (in AAD) this is returned in the authentication flow (subject to participants AAD configuration) and the Registry (which has stored upn) does not find a match.</p> <p>The Registry Administrator can define on a participants SSO interface setup if it the Registry should store the upn (default) or the email supplied in the emails array as the users email address.</p>	Complete

Data Fixes

Number and details of incidents requiring data fixes.

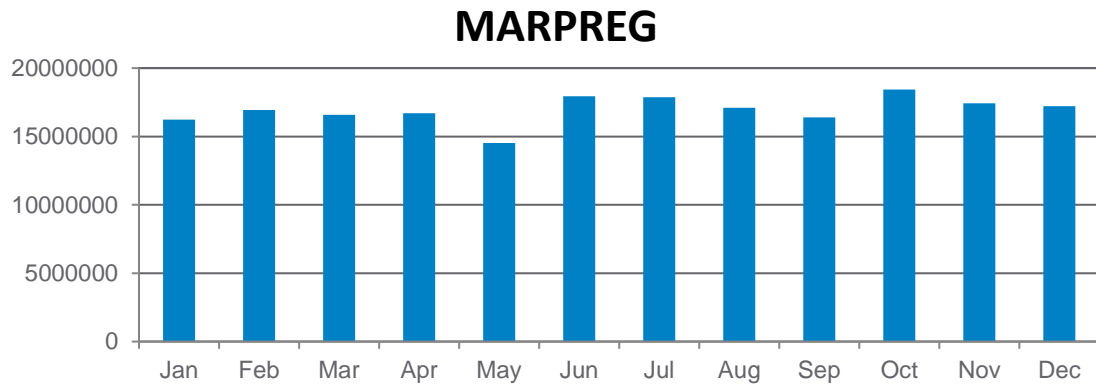
ID	Description	Severity	Response

Schedule of Issues Raised

A summary of issues raised during the month.

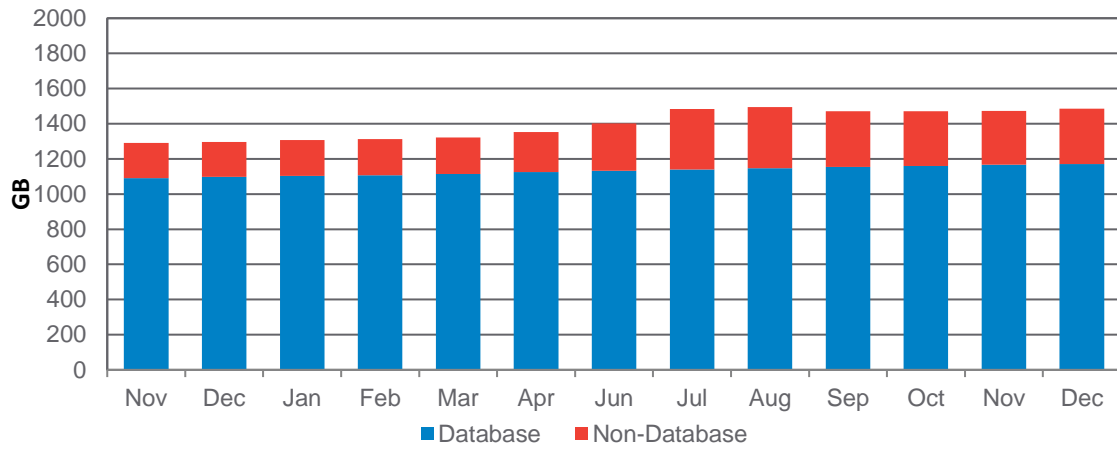
ID	Description	Severity	Response
ER-1499	Creation of profile codes	Medium (Priority C)	
ER-1498	Handling API exceptions - additional logging	Medium (Priority C)	Done
ER-1497	SCIM provisioning not handling display names provided that are > 30 characters	High (Priority B)	
ER-1496	Refresh agent to set rest key for participant RETA	Low (Priority I)	
ER-1495	Reorder the status reason codes into numeric order	Medium (Priority C)	
ER-1489	CR-1284: distributor only showing inactive as an available status	Medium (Priority C)	
ER-1488	EIEP5A (cancel PLC) file Detail line validated	Medium (Priority C)	No Problem Identified

Instrumented Transactions



Performance Measure	
Instrumented Transactions Processed	
This month	17,210,839
Last month	17,419,520
Increase/Decrease	-1%
Peak Month (Aug 2023)	19,634,117

Database Size



Database Growth

Class	This Month	Last Month	Change
Database	1,195,104	1,195,104	6,956
Non-database	313,880	313,880	-4,354
Total	1,508,984	1,508,984	2,602

Maintenance Activities

Application Release

Day	Version	Authorised By
08Dec24	Deploy of Application Release 24_11 to marPreg	Will Goldsmith

Service Disruptions

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

Performance Measure	
Availability	100%
Number of Scheduled Outages	1
Number of Unscheduled Outages	0
Last Unscheduled Outage	November 2023

Unscheduled Outages

Date	Ref	Detail	Outage Duration hh/mm
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Scheduled Outages

Day	Ref	Detail	Duration	Authorised By
08Dec24 03:00 – 04:15	1170628	Deploy of Application Release 24_11 to marPreg	01:15	Will Goldsmith

Change Control

Date	Authorised By	Detail
19Dec24	Will Goldsmith	MS Patches applied to MARCHCS3

Backup Performance Production

The backup requirements were met this month.

Backup Type	Run days	Start Time	Expected Duration	Failed This Period
Disk	ALL	19:00	01:00	0
Tape	ALL	01:00	05:00	0

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 22.42 released to UAT and Prod 20 December 2024

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-1256	Trader Default Technical and User documentation	On hold. In CR development, not signed off yet. With Authority for review.
CR-1257	Trader Default software changes	On hold. 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-1282	DER/DG staged released	Approved. Development in progress.

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.