

Subject Notice of Determinations by the Industry Body (Gas Industry Co) under the Gas (Switching Arrangements) Rules 2008

Version 2.0

Date 1 October 2019

1. Introduction

- 1.1 The Gas (Switching Arrangements) Rules 2008 (the "Switching Rules") set out arrangements for the timely and efficient switching of gas customers from one retailer to another. A key element in the arrangements is the establishment of a central gas registry of ICP-based information relevant to consumer switching. Jade Software Corporation is the appointed registry operator.
- 1.2 The Switching Rules require the industry body (Gas Industry Co) to determine and publish certain information required for the full implementation of the Switching Rules and of the gas registry in particular. In some cases the information required must be developed in consultation with the industry. Gas Industry Co's determinations in respect of these matters are set out in this notice.
- 1.3 The terms used in this notice have the meanings set out in Rule 5.
- 1.4 The following topics are dealt with in this notice:
- definition of financial year and publication of specific information under Rule 5.2;
 - codes for specified components of the ICP identifier under Rule 5.2;
 - requirements and access restrictions in regard to registry reports as set out in Rule 33.1;
 - ICP parameter codes as set out generally in Rule 44 including valid combinations of ICP status and connections status as set out in Rule 44.1.6 and usage requirements as set out in Rule 60.2;
 - codes relevant to switching as set out in Rule 64 and cross referenced in Rules 67.1.2 and 70.3;
 - time for retention of information on the resolution of discrepancies as set out in Rule 62; and
 - the content and format of the monthly report published by the registry operator on registry participant compliance with specified time frames, in accordance with Rule 84.3.

2. Process for making changes to this notice

- 2.1 This notice will need to be amended from time to time in accordance with the Switching Rules to reflect changing circumstances and other factors.
- 2.2 The process which is intended for making changes to this notice is as follows:
- The proposed notice change will be advised to all registry participants. Where the changes are minor, or affect only specifically identifiable parties, it is intended that the proposed change will be notified by email. Where the changes are considered to be extensive and of wide interest, it is intended that the full proposal, and an invitation to make submissions, will be posted on the Gas Industry Co website.
 - There will be a defined consultation period which will vary from two to four weeks depending on the circumstances. A shorter period will likely apply where the changes are minor or affect only specifically identifiable parties. The consultation period may be closed off earlier if responses have been received from all registry participants.
 - Any new or amended determination by Gas Industry Co will be advised to all registry participants, together with a brief explanatory note on differences between the consultation proposal and the final result.
 - A revised edition of this notice will be posted on the Gas Industry Co website.
- 2.3 The processes which are intended for making changes to participant codes, distributor ICP identifier codes, gas gate codes and profile codes are set out in the relevant sections of this document.

3. Financial year and publication of information

- 3.1 Rule 5.2 defines a financial year as the 12 month period beginning on the date determined by Gas Industry Co and any anniversary of the date. The term financial year is used only to define the period to which reviews of registry operator performance refer.
- 3.2 The start date for the financial year will be 1 July each year.
- 3.3 Rule 5.2 also defines 'publish' for information to be made available by the industry body or the registry operator and provides for the industry body to determine the manner in which other types of information defined in the Switching Rules is to be made available.
- 3.4 The information types and respective publication requirements are as follows:

Information Type	Information Type Description	Publication Requirement
Network price category charges	In accordance with Rule 46, a schedule of each distributor's charges associated with each network price category code, except where the distributor requires disclosure on application in accordance with Rule 50.	Each distributor must make this information available to the public on their website by the go-live date. Each distributor must also ensure that this information is accurate and up to date.

Information Type	Information Type Description	Publication Requirement
Network price category codes	In accordance with Rule 46, a schedule of each distributor's network price category codes.	Each distributor must enter their network price category codes in the registry by the go-live date. Each distributor must also ensure that this information is accurate and up to date.
Gas gate loss factors	In accordance with Rule 47.1, a schedule of all the loss factors which apply to gas gates on each distributor's distribution system.	Each distributor must make this information available to the public on their website by the go-live date. Each distributor must also ensure that this information is accurate and up to date.
Gas gate loss factor codes	In accordance with Rule 47.2, a schedule of the respective codes for the loss factors which apply to gas gates on each distributor's distribution system.	Each distributor must enter their loss factor codes in the registry by the go-live date. Each distributor must also ensure that this information is accurate and up to date.
Metering price category codes	In accordance with Rule 49.1, a schedule of each meter owner's metering price codes applicable to all ICPs where it is the responsible meter owner.	Each meter owner must enter their metering price category codes in the registry by the go-live date. Each meter owner must also ensure that this information is accurate and up to date.

4. ICP identifier

4.1 Rule 5.2 defines the content of the ICP Identifier, which is a unique 15-character identifier assigned to each ICP. There are two elements of this identifier which must be determined or specified by Gas Industry Co and they are:

- xx an alphabetic combination for use by the distributor when creating the ICP identifier
- ccc an alphanumeric checksum generated by an algorithm

4.2 The alphabetic combinations must be unique to each distributor. As of the date of these determinations, the following combinations are to be used by distributors when creating new ICPs and are validated by the registry:

ICP Identifier Distributor Code	Distributor Name
GN	GasNet
MU	First Gas Limited (ex-MDL transmission)
NA	Nova Gas
PG	Powerco
QT	Vector Distribution

ICP Identifier Distributor Code	Distributor Name
NG	First Gas Limited (ex-Vector distribution)
VT	First Gas Limited (transmission)

4.3 The purpose of the two letter ICP Identifier Distributor Code is to ensure uniqueness of the ICP number across all networks. In the context of the ICP identifier, this code is assigned at the creation of an ICP and remains unchanged thereafter. Subsequent changes in the responsible distributor do not change the ICP identifier.

4.4 New and existing participants may request changes to the list of ICP Identifier Distributor Codes by downloading a 'Gas Registry Access Application' form (available on the Gas Industry Co website), completing the relevant sections and submitting the form in accordance with the provided instructions.

4.5 The current list of ICP Identifier Distributor Codes and associated effective dates can be viewed and downloaded by logging into the registry website, navigating to 'Registry Data → Static Data' and selecting 'ICP Identifier Distributor Code'.

4.6 Thus, the full ICP Identifier is a 15-character identifier having the format, yyyyyyyyyyxxccc, with:

yyyyyyyyyy Base ICP number
xx ICP creation distributor code
ccc Alphanumeric checksum

4.7 The alphanumeric checksum may be separated from the distributor code (xx) by a dash when it is printed on customer invoices or correspondence, to improve the readability of the ICP identifier. However, the dash is **not** to be included in the registry database, nor in data exchange formats.

4.8 The checksum is used to ensure that a number has been correctly transmitted without corruption. The checksum should be generated by means of a polynomial code (Cyclic Redundancy Check or CRC). In order to maximise error detection a three character hexadecimal checksum is to be used.

4.9 The algorithm to create the checksum is as follows:

Initialise a 4 byte register R to zero
Initialise a 2 byte divisor D to 180F hex (00011000 00001111)
Append 12 bits all equal zero to the end of the ICP number
FOR each bit of the ICP number (left to right): DO
Shift that bit into the 2⁰ bit position of R

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IF the 212 bit position of R is 1 THEN
R=R XOR D
ENDIF
END
Append R as 3 digit hexadecimal integer to the ICP
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5. Report access restrictions and requirements

- 5.1 Rules 83 to 87 provide for the registry operator to provide or publish reports. As set out in Rule 83 these may be: general reports or reports for specific types of registry participant, with contents as specified in the Switching Rules; or such other reports as may be agreed between the registry operator and Gas Industry Co. Rule 33.3 also allows registry participants to obtain customised reports on any or multiple ICPs.
- 5.2 Rule 33.1 requires Gas Industry Co, in consultation with registry participants, to determine: report access restrictions in respect of each distributor, retailer and meter owner; and the response times required from the registry for reports requested by registry participants.
- 5.3 These restrictions apply to defined reports generated as a matter of course by the registry. Nothing in these restrictions shall prevent a registry participant seeking approval for the generation of a new report as provided for in Rule 83.5. Gas Industry Co will separately publish details of the process which will apply to the approval of new reports under this Rule.
- 5.4 In regard to reports on specific ICPs, each participant will be restricted to accessing only reports on the specific ICPs for which they are currently the responsible party or for which a list of the exact ICP identifier(s) or exact meter identifier(s) has been supplied.
- 5.5 Any registry participant may access reports on total numbers of ICPs as at the end of the month by status and by distributor/retailer/meter owner.
- 5.6 Any registry participant may access reports on total numbers of ICPs as at the end of the month by status, gas gate and retailer.
- 5.7 Any registry participant may access reports of summary registry and switching statistics (eg, number of Gas Transfer Notices received, number of ICP Enquiries processed or number of ICPs decommissioned).
- 5.8 Gas Industry Co intends to publish summary registry reports on its website including the following information on a monthly basis:
 - Total numbers of ICPs by ICP status;
 - Total numbers of active ICPs by responsible distributor, retailer and meter owner;
 - Total numbers of active ICPs by gas gate and responsible retailer; and
 - Summary registry and switching statistics.

5.9 Maximum response times for the provision of reports shall be as follows:

Report Type	Maximum Response Time
On-demand and ad hoc reports	24 hours from receipt of request
Standard first business day of the month reports	24 hours from the end of the first business day of the calendar month
Ad hoc reports with a stipulated reporting time and date	No later than the stipulated time and date

6. Bounds on information access via online searches

- 6.1 Rule 33.1 also requires Gas Industry Co, in consultation with registry participants, to determine the bounds of information able to be viewed by any party as a result of an address search conducted on ICPs in the registry.
- 6.2 Subject to 6.3 below, participants may only view the full details of any ICP without any other constraint where they are currently the responsible meter owner, responsible distributor or responsible retailer for that ICP.
- 6.3 Any participant may view the full details for any ICP or list of ICPs provided that the participant uses the ICP identifier, the street name or the meter identifier as the search criteria.
- 6.4 Any person may view basic address, network, metering, retailer and status details for an individual ICP on the Gas Industry Co website provided that they use the ICP identifier or the street name and number as the search criteria.

7. Codes for registry participants

- 7.1 Rule 44.1.1 requires Gas Industry Co to determine and publish codes for every distributor, retailer, meter owner, corrector owner, datalogger owner and telemetry owner that is likely to be required as a value for any relevant ICP parameter on the registry.
- 7.2 The basis for these codes is as follows:
- Codes must be made up of 4 letters and must be unique.
 - Where a participant has more than one role (eg, both a distributor and a retailer) it is at their discretion as to whether to use the same code or different codes for each role.
- 7.3 The codes to be used as of the date of these determinations are as follows:

Participant Name	Participant Role	Participant Code
Contact Energy	Retailer	CTCT
EnergyclubNZ	Retailer	CLUB

Participant Name	Participant Role	Participant Code
Energy Online (Genesis)	Retailer	GEOL
First Gas Limited ¹	Distributor (ex-Vector)	NGCD
	Transmission System Owner (ex-Vector)	VCTX
	Transmission System Owner (ex-MDL)	MAUI
	Meter/Corrector/Datalogger/Telemetry Owner	MAUI
	Meter Owner	FGDM
GasNet	Distributor	GNET
	Meter/Corrector/Datalogger/Telemetry Owner	GNET
Genesis Energy	Retailer (mass market customers)	GENG
	Retailer (TOU customers)	GEND
Greymouth Gas	Retailer	GMTH
	Retailer	GREY
Hanergy	Retailer	HANE
MegaTEL (Nova)	Retailer	MEGA
Mercury	Retailer	MEEN
Metrix	Meter Owner	MTRX
Nova Gas	Distributor	NOVA
	Retailer	GNVG
	Meter/Corrector/Datalogger/Telemetry Owner	NOVA
Powerco	Distributor	POCO
	Meter/Corrector/Datalogger/Telemetry Owner	POCO
Pulse Energy	Retailer	PUNZ
Scholarship NZ	Retailer	SPNZ
Switch Utilities	Retailer	SULG
Trustpower	Retailer	TRUS
Vector AMS	Meter/Corrector/Datalogger/Telemetry Owner	NGCM
Vector Distribution	Distributor	UNLG
Vector Gas Trading Limited (OnGas)	Retailer	GNGC
Auckland Gas Company [INACTIVE]	Retailer	AGCL

¹ This participant is both:

- A distributor for purposes of the Switching Rules and the Gas (Downstream Reconciliation) Rules 2008; and
- A transmission system owner for the purposes of the Gas (Downstream Reconciliation) Rules 2008.

Participant Name	Participant Role	Participant Code
Bay of Plenty Energy [INACTIVE]	Retailer	BOPE
E-Gas 2000 (in liquidation) [INACTIVE]	Retailer	EGAS
E-Gas Ltd (in liquidation) [INACTIVE]	Retailer	EGLT
Energy Direct NZ (Trustpower) [INACTIVE]	Retailer	EDNZ

- 7.4 New and existing registry participants may request changes to their Participant Codes by downloading a 'Gas Registry Access Application' form (available on the Gas Industry Co website), completing the relevant sections and submitting the form in accordance with the provided instructions.
- 7.5 The current list of registry participants, Participant Codes, effective dates and contact information can be viewed and downloaded by logging into the registry website and navigating to 'Registry Data → Participant Register'.

8. Gas gate codes

- 8.1 Rule 44.1.2 requires Gas Industry Co to determine and publish the gas gate codes for the gas gates created by distributors.
- 8.2 The gas gate codes to apply as of the date of these determinations are set out in Attachment 1.
- 8.3 The process for notifying Gas Industry Co, registry operator, allocation agent and affected retailers in advance of changes to gas gates is set out in rule 45. Distributors should use the 'Gas Gate Change Notice' form (available on the Gas Industry Co website), to notify the relevant parties of changes to gas gate information.
- 8.4 The current list of gas gate names, codes and additional gas gate information can be viewed and downloaded by logging into the registry website and navigating to 'Registry Data → Gas Gates' or requested as a standard registry report.

9. ICP types and ICP type codes

- 9.1 Rule 44.1.3 requires Gas Industry Co to determine and publish information on ICP types and the code for each ICP type. The ICP type code identifies the locational relationship between the ICP and the gas gate immediately upstream of the ICP.²

² It is expected that distributors will enter the same ICP type code for every ICP assigned to a gas gate as the ICP type code for that gas gate.

9.2 The determined codes are as follows:

ICP Type Code	ICP Type
GN	Gas gate connected network
EN	Embedded gas network
GD	Supply directly connected to the transmission pipeline

10. ICP status codes

10.1 Rule 44.1.4 requires Gas Industry Co to determine and publish ICP status codes. ICP status is defined by Rule 59.

10.2 The determined codes are as follows:

ICP Status Code	ICP Status Description
NEW	In accordance with Rule 59.1, the ICP status of NEW denotes that the responsible distributor has not populated all of the ICP parameters for which it is responsible and the ICP is not ready for uplift by a retailer.
READY	In accordance with Rule 59.2, the ICP status of READY denotes that the ICP is ready for uplift by a retailer.
ACTC	In accordance with Rule 59.4, the ICP status of ACTIVE-CONTRACTED denotes that the responsible retailer has entered into a contract to supply gas to a consumer at the consumer installation and that either gas is able to flow to the installation, or the gas supply is temporarily disconnected.
ACTV	In accordance with Rule 59.5, the ICP status of ACTIVE-VACANT denotes that gas is able to flow to the consumer installation but the responsible retailer does not have a current contract to supply gas to a consumer at the consumer installation.
INACT	In accordance with Rule 59.7, the ICP status of INACTIVE-TRANSITIONAL denotes that gas is not able to flow to the consumer installation due to a transitional (non-permanent) disconnection of supply.
INACP	In accordance with Rule 59.8, the ICP status of INACTIVE-PERMANENT denotes that gas is not able to flow to the consumer installation due to a permanent disconnection of supply.
DECR	In accordance with Rule 59.11, the ICP status of DECOMMISSIONED denotes the ICP is removed from future switching and reconciliation processes, and any associated consumer installation is no longer connected to the responsible distributor's distribution system.

11. Connection status codes and valid combinations with ICP status

11.1 Rules 44.1.5 and 44.1.6 require Gas Industry Co to determine and publish information on connection statuses, codes for each connection status, and valid combinations of ICP status

and connection status codes for any ICP. It is convenient to place all of this information into a single table.

11.2 Rule 60.2 also provides for Gas Industry Co to publish usage requirements for the recording of ICP connection status. ICP connection status is a mandatory field.

11.3 The determined codes and valid combinations are as follows:

ICP Status Code	Valid Connection Status	Connection Status Code
NEW	Pre-activation, service has not yet been installed	NEW
READY	Gas ready to flow	GIR
ACTC	Gas able to flow	GAS
	Gas temporary disconnect – GMS remains, service turned off at service valve or supply capped or plugged	GTD
ACTV	Gas able to flow	GAS
INACT	Gas vacant disconnect – GMS remains, supply capped or plugged	GVC
	Gas vacant disconnect – GMS removed, supply capped or plugged	GVM
	Gas currently not required – GMS remains, supply capped or plugged	GNC
	Gas currently not required – GMS removed, supply capped or plugged	GNM
	Gas maintenance disconnect – GMS remains, supply capped or plugged	GMC
	Gas maintenance disconnect – GMS removed, supply capped or plugged	GMM
	Gas maintenance disconnect – GMS remains, service disconnected upstream of service valve by network operator	GMU
	Gas safety disconnect – GMS remains, supply capped or plugged	GSC
	Gas safety disconnect – GMS removed, supply capped or plugged	GSM
	Gas safety disconnect – GMS remains, service disconnected upstream of service valve by distributor	GSU
INACT	Historic gas transitional disconnect – GMS remains, service turned off at service valve ³	GVT
	Historic gas transitional disconnect – GMS removed, service turned off and locked at service valve ⁴	GVL
INACP	Gas permanent disconnect ready for GMS removal – GMS remains, supply capped or plugged	GPC

³ These “historic” connection status codes apply to certain ICPs that were inactivated before the GANZ Gas Industry Disconnection and Reconnection Protocol (GIP001) was established. These codes may only be used by Contact Energy for the purposes of data migration prior to the registry go-live date.

ICP Status Code	Valid Connection Status	Connection Status Code
	Gas permanent disconnect ready for decommissioning – GMS removed, supply capped or plugged	GPM
DECR	Service disconnected from network outside property and service abandoned	GDE

12. Load shedding categories and codes

12.1 As set out in Part A of the Schedule to the Switching Rules, the load shedding category identifies the position of the ICP's consumer installation in the hierarchy for emergency shedding of gas load. Rule 44.1.7 requires Gas Industry Co to determine and publish load shedding categories, and the code for each load shedding category.

12.2 The load shedding categories determined are as follows. These categories are taken from the Gas Governance (Critical Contingency Management) Regulations 2008, with the exception of the DOM category, which identifies domestic consumers who are not subject to compulsory emergency load shedding.

Category Code	Consumption in Gigajoules (GJ) or Terajoules (TJ)	Load Shedding Category (ie Curtailment Band) Description
0	N/A	Any consumer installation, to the extent that gas is used for injection into gas storage
1	More than 15 TJ per day	Any consumer installation supplied directly from the transmission system and that has an alternative fuel capability
2	More than 15 TJ per day	Any consumer installation supplied directly from the transmission system and that does not have an alternative fuel capability
3	More than 10 TJ per annum and up to 15 TJ per day	Large industrial or commercial consumer installation
4	More than 250 GJ per annum and up to 10 TJ per annum	Medium-sized industrial or commercial consumer installation
5	More than 2 TJ per annum	Any consumer installation (whether or not in bands 0 to 4), to the extent that an essential services designation applies to the installation
6	250 GJ or less per annum	Small commercial consumer installation

Category Code	Consumption in Gigajoules (GJ) or Terajoules (TJ)	Load Shedding Category (ie Curtailment Band) Description
7	Any	Any consumer installation (whether or not in any of curtailment bands 0 to 4), to the extent that a critical care designation applies to the consumer installation
DOM	Any	Domestic consumers

12.3 In addition to the category codes outlined above, the Gas Governance (Critical Contingency Management) Regulations 2008 provide for certain consumers in curtailment bands 0 to 4 to apply for a critical processing designation or an electricity supply designation. Where Gas Industry Co grants a designation to a consumer, the load shedding category code will also need to specify this sub-category designation for the relevant ICP's consumer installation. (Note those regulations also allow for the designation of essential service providers and critical care providers but these consumers are already addressed under category codes 5 and 7 respectively).

Sub-category Code	Description
C	Any consumer installation (whether or not in any of curtailment bands 0 to 4), to the extent that a critical processing designation applies to the consumer installation
E	Any consumer installation (whether or not in any of curtailment bands 0 to 4), to the extent that an electricity supply designation applies to the consumer installation

13. Allocation groups and codes

13.1 Rule 44.1.8 requires Gas Industry Co to determine and publish allocation groups and the code used for each allocation group. Allocation groups are established for the purposes of downstream reconciliation and allocation of gas.

13.2 Allocation groups are defined in Rule 6 of the Gas (Downstream Reconciliation) Rules 2008. The definitions of allocation groups, and the applicable codes, are as follows:

Group Code	Allocation Group Description
0	ICPs at Direct Connect gas gates, as determined under the Gas (Downstream Reconciliation) Rules 2008, that are not required to be assigned to an allocation group
1	ICPs that have a TOU meter with telemetry and where actual gas quantities are recorded daily
2	ICPs that have that have a TOU meter without telemetry and where actual gas quantities are recorded daily

Group Code	Allocation Group Description
3	ICPs where the daily gas quantities are determined by application of an approved static deemed profile to monthly gas quantities taken from register readings that are required to be recorded monthly
4	ICPs where the daily quantities are determined by application of the gas gate residual profile to monthly gas quantities taken from register readings that are required to be read monthly
5	ICPs where the daily quantities are determined by application of an approved dynamic deemed profile to monthly gas quantities taken from register readings that are not required to be recorded monthly
6	ICPs where the daily quantities are determined by application of the gas gate residual profile to monthly gas quantities taken from register readings that are not required to be recorded monthly

14. ICP profile codes

14.1 Rule 44.1.9 requires Gas Industry Co to determine and publish the profiles that may be assigned to ICPs and the code for each profile. This is taken to refer to the type of profile. Actual profiles are determined and published by the allocation agent appointed pursuant to the Gas (Downstream Reconciliation) Rules 2008.

14.2 Profile types are used for the reconciliation and allocation of gas and are defined by the Gas (Downstream Reconciliation) Rules 2008. There are three types of profiles referred to: gas gate residual profiles, registered static deemed profiles and registered dynamic deemed profiles.

14.3 Profile codes are four characters in length and identify the profile type assigned to the ICP.

14.4 The relevant codes and definitions as of the date of these determinations are as follows:

Profile Code	Profile Description
GGRP	<p>A Gas Gate Residual Profile applies to ICPs in Allocation Groups 4 and 6. It is a profile of the daily residual quantities calculated by deducting the daily quantities allocated to allocation groups 1, 2, 3 and 5; from the daily injection quantities provided by transmission system owners. The formula for calculating this is set out in rule 45.2.5 of the Gas (Downstream Reconciliation) Rules 2008.</p> <p>Gas Industry Co notes that for initial population of the gas registry, most ICPs are likely to fall within Allocation Groups 4 and 6 and will require the input of this code.</p>

Profile Code	Profile Description
S---	<p>A Static Deemed Profile applies to ICPs in Allocation Group 3. It is a profile registered under Part 3 of the Gas (Downstream Reconciliation) Rules 2008, which is a pre-determined estimate of daily gas quantities used to define the daily profile of consumption during a consumption period, for either a consumer installation or for a class of consumer installations.</p> <p>Gas Industry Co notes that codes for registered static deemed profiles will be assigned by the allocation agent upon registration, but are likely to begin with the letter S followed by three numerical digits for a total length of four characters (eg, S316).</p>
D---	<p>A Dynamic Deemed Profile applies to ICPs in Allocation Group 5. It is a profile registered under Part 3 of the Gas (Downstream Reconciliation) Rules 2008, which is a consumption profile that changes in accordance with information obtained from TOU meters installed at one or more sample consumer installations that are representative of the daily consumption profile of the consumer installation or class of consumer installations to which it is applied.</p> <p>Gas Industry Co notes that codes for registered dynamic deemed profiles will be assigned by the allocation agent upon registration, but are likely to begin with the letter D followed by three numerical digits for a total length of four characters (eg, D265).</p>
XTOU	<p>ICPs in Allocation Groups 1 and 2 (ICPs that have a TOU meter and where the rolling 12-month actual or expected consumption is greater than 250GJ) do not have profiles for the purposes of the Gas (Downstream Reconciliation) Rules 2008. This code indicates that no profile has been assigned for these ICPs.</p>

14.5 The current list of profile codes valid for each retailer and the associated effective dates can be viewed and downloaded by logging into the registry website and navigating to 'Registry Data → Static Data' and selecting 'Retailer Profile Codes'.

15. Retention of information on resolution of discrepancies

15.1 Rule 62 of the Switching Rules sets out provisions for resolving discrepancies in the information held in the registry for any ICP. Rule 62.2 requires distributors, retailers and meter owners to carry out reviews accordingly. Rule 62.3 then requires distributors, retailers and meters owners to retain records of the reviews and any resulting corrections made to the registry, for such time as Gas Industry Co determines.

15.2 Gas Industry Co determines that this information is to be retained for six years.

16. Switching codes

16.1 Rule 64 requires Gas Industry Co to determine and publish codes for the following:

- codes used in the switch notice to denote whether the switch is a standard switch or a move switch;
- register content codes associated with switch readings in transfer notices;

- acceptance codes for gas acceptance notices; and
- reason codes for gas switching withdrawal notices.

16.2 In addition, implementation of the Switching Rules requires a number of codes and definitions for fields in the different switch notices.

16.3 The determined codes are as follows:

Switch type codes – Gas Switching Notice (GNT)

Switch Type Code	Switch Type Description
S	Standard switch
SM	Move switch

Meter reading history codes – Gas Switching Notice (GNT)

Meter Reading History Code	Meter Reading History Description
Y	Meter reading history requested
N	Meter reading history not requested

Register content codes – Gas Transfer Notice (GTN)

Register Content Code	Register Content Description
U	Uncorrected
S	Supercompressibility corrected
T	Temperature corrected
TA	Temperature & Absolute pressure corrected
TG	Temperature & Gauge pressure corrected
TGS	Temperature, Gauge pressure and Supercompressibility corrected

Switch reading type codes – Gas Transfer Notice (GTN) and Switch Reading Renegotiation Request (GNC)

Switch Reading Type Code	Switch Reading Type Description
A	Actual
E	Estimate

Requesting retailer role codes – Gas Switching Withdrawal Notice (GNW)

Requesting Retailer Role Code	Requesting Retailer Role Description
N	New retailer
O	Old retailer

Response codes – Gas Switching Withdrawal Response Notice (GAW) and Switch Reading Renegotiation Response (GAC)

Response Code	Response Code Description
A	Request accepted
R	Request rejected

Acceptance codes – Gas Acceptance Notice (GAN)

Acceptance Code	Acceptance Code Description	Explanation of Use
AA	Acknowledge and Accept	Switch is accepted, there are no relevant issues and GTN will follow to complete switch on the GAN Expected Switch Date. Applies to: Standard and Move Switches
AD	Advanced metering	Alerts that meter is an advanced meter Applies to: Standard and Move Switches
CO	Contracted	Alerts that this customer has a fixed-term contract at this ICP. The current retailer may be contacting this customer relative to this switch. Applies to: Standard Switches only
MP	Metering Pre-paid	Alerts that meter is pre-paid Applies to: Standard and Move Switches
MU	No Meter in place	Alerts that no meter is in place Applies to: Standard and Move Switches
OC	Occupied	Acknowledges GNT received with type "SM" and a future Requested Switch Date. Indicates that the existing customer has not yet advised they are vacating the premises (ie, the premises is occupied). The Switch Date will be the greater of the Requested Switch Date or the customer's actual move-out date. Applies to: Move Switches only
PD	Premise inactive	Alerts that this site is either INACTIVE-TRANSITIONAL or INACTIVE-PERMANENT (disconnected) Applies to: Standard and Move Switches

Request reason codes – Gas Switching Withdrawal Notice (GNW)

Request Reason Code	Request Reason Code Description	Explanation of Use
CR	Customer request	Customer has changed their mind and wishes to cancel switch Used by: Winning and Losing Retailers
DF	Date failed	GNT, GAN or GTN switch date breaches the Switching Rules Used by: Winning and Losing Retailers
IN	Invalid ICP status	Site is in the process of being decommissioned Used by: Winning and Losing Retailers
MI	Withdrawn on metering issue	Metering issue (eg, did not intend to switch premises that has prepaid metering) Used by: Winning and Losing Retailers
UA	Unauthorised switch	Account holder did not authorise switch request Used by: Winning and Losing Retailers
WP	Wrong premises	The wrong premises has or is being switched Used by: Winning and Losing Retailers
WR	Losing retailer not current retailer	Losing Retailer is not the current retailer for the ICP. ICP has been switched to another retailer and the Registry has not been updated from that switch Used by: Losing Retailer only
WS	Wrong switch type	GNT received with type "S" but premises is vacant Used by: Losing Retailer only

17. Format and content of monthly compliance reports

17.1 Rule 84.2 requires the registry operator to publish a monthly report on each registry participant's compliance with the time frames specified in the Switching Rules. The report must be published by 4 pm on the 15th business day of the following month. Rule 84.3 requires the content and format of this report to be specified by Gas Industry Co, in consultation with registry participants and the registry operator.

17.2 The reports cover registry participants' compliance with the timeframes required in the Switching Rules:

- delivery of and responses to switching notices;
- requested/expected/effective switch dates used in switching notices;
- maintenance of gas gate and loss factor codes; and
- parameter entry for new ICPs.

17.3 The determined formats and contents are set out in Attachment 2. Instructions for requesting parameterised versions of these reports are available in the registry system documentation.

Attachment 1: Gas gate codes

For an explanation of Notional Delivery Points, see the description at the end of this attachment.

Gas Gate Name	Gas Gate Code	Notes
Alfriston	ALF15501	Direct Connect
Ashhurst	ASH34301	
Ballance Ammonia-Urea	BAL08201	Direct Connect
Ballance Ammonia-Urea	BAL09626	Direct Connect
Belmont	BEL24510	
Bertrand Road (Waitara Valley)	BER00564	Direct Connect
Bertrand Road	BRT00653	Renamed Faull Road (FAU00653) with effect from 13 Dec 2013
Broadlands	BRO36301	Direct Connect
Bruce McClaren	BMC17901	Aggregated into the Greater Auckland Notional Delivery Point (GTA03610)
Cambridge	CAM17201	
Dannevirke	DAN05001	
Drury 1	DRU15101	ICPs transferred from Drury 2 with effect from 1 July 2015
Drury 2	DRU15102	Decommissioned with effect from 1 July 2015. ICPs transferred to Drury 1
Edgecumbe	EGC30702	
Edgecumbe DF	EGC30701	
Eltham	ELM12301	
Faull Road	FAU00653	Direct Connect
Feilding	FLD03001	
Flat Bush (Nova)	FLB15601	
Flockhouse	FLH21901	
Foxton	FOX22101	
Gisborne	GIS07810	
Glenbrook	GLB03401	Direct Connect
Hamilton Te Kowhai	HTK08301	Aggregated into the Greater Hamilton Notional Delivery Point (GTH11301)
Hamilton Temple View	HTV11301	Aggregated into the Greater Hamilton Notional Delivery Point (GTH11301)
Harrisville	HAR11801	Decommissioned with effect from 1 June 2015. ICPs transferred to Harrisville 2
Harrisville 2	HAR11802	ICPs transferred from Harrisville with effect from 1 June 2015
Hastings	HST05210	

Gas Gate Name	Gas Gate Code	Notes
Hastings (Nova)	HST05203	
Hawera	HWA20801	
Hawera (Nova)	HWA20802	
Henderson	HEN74101	Aggregated into the Greater Auckland Notional Delivery Point (GTA03610)
Horotiu	HRU16101	
Huntly	HTL16601	
Huntly Power Station	HPS02993	Direct Connect
Hunua	HUN15301	
Hunua (Nova)	HUN15302	
Hunua 3	HUN15303	Direct Connect
Inglewood	IGW11901	
Kaimiro Mixing Station	KAI07602	Direct Connect
Kairanga	KRG24101	
Kaitoke	KTK23901	Direct Connect
Kakariki	KKI23701	
Kaponga	KPA12401	
Kapuni	KAP09612	Direct Connect
Kapuni (Lactose)	KAP12901	
Kauri DF	KUR33601	Direct Connect
Kawerau	KAW04405	
Kawerau (ex-Caxton)	KAW04410	Direct Connect
Kawerau (ex-Tasman)	KAW04411	Direct Connect
Kihikihi (Te Awamutu)	KIH19101	Aggregated into the Greater Kihikihi Notional Delivery Point (GTK19101)
Kingseat	KIG16801	
Kinleith	KIN02601	
Kinleith (CHH mill)	KIN04310	Direct Connect
Kiwitahi 1 (Peroxide)	KIW34201	Direct Connect
Kiwitahi 2	KIW34202	
Kuku	KUK22401	
Kupe	KUP37503	Direct Connect
Lake Alice	LAB20201	
Levin	LVN24401	
Lichfield DF	LCF20010	Direct Connect
Lichfield 2	LCF20011	Direct Connect
Longburn	LNB24301	
Manaia	MNA23402	

Gas Gate Name	Gas Gate Code	Notes
Mangaroa	MNG34001	Direct Connect
Mangatainoka	MGK05401	Direct Connect
Mangorei	MEI39010	Direct Connect
Marsden 1 (NZRC)	MSD01801	Direct Connect
Marsden 2	MSD01802	Direct Connect
Marton	MTN23801	
Matangi	MTG17301	
Matapu	MTP20601	
Maungaturoto DF	MUT19001	Direct Connect
Mokau Compressor Station	MCS01143	Direct Connect
Mokoia	MOK35801	Direct Connect
Morrinsville	MRV16302	
Morrinsville DF	MRV16301	Direct Connect
Mt Maunganui	MMU08001	Aggregated into the Greater Mt Maunganui Notional Delivery Point (GMM08001)
New Plymouth	NPL12101	
New Plymouth Power Station	NPS00530	Decommissioned with effect from 5 Feb 2014
Ngaruawahia	NGW14501	
Ngatimaru Road (Delivery)	NGA00669	Direct Connect
Oakleigh	OAK18601	Decommissioned with effect from 1 Oct 2013
Oakura	OKU16701	
Okaiawa	OKW23401	Direct Connect. Decommissioned with effect from 30 September 2018
Okato	OKA13201	
Okoroire Springs	OKS32801	
Opotiki	OPO32001	
Opunake	OPK13001	
Oroua Downs	ORD24701	
Otahuhu B Power Station	OTB00301	Decommissioned with effect from 31 January 2016
Otaki	OTA22601	
Otorohanga	OTO14101	
Paekakariki	PAE23001	Decommissioned with effect from 1 Jul 2010
Pahiatua	PHT04901	
Pahiatua DF	PHT04902	Direct Connect
Palmerston North	PLN24201	
Papakura	PAP06610	Aggregated into the Greater Auckland Notional Delivery Point (GTA03610). ICPs transferred from Papakura B with effect from 1 July 2015

Gas Gate Name	Gas Gate Code	Notes
Papakura 3	PAP06603	Decommissioned with effect from 1 Sep 2011. ICPs transferred to Papakura B
Papakura B	PAP06604	Decommissioned with effect from 1 July 2015. ICPs transferred to Papakura
Papamoa	PPA33201	Aggregated into the Greater Mt Maunganui Notional Delivery Point (GMM08001)
Papamoa 2	PPA33202	Aggregated into the Greater Mt Maunganui Notional Delivery Point (GMM08001) with effect 1 August 2017
Paraparaumu	PAU20101	Aggregated into the Greater Kapiti Notional Delivery Point (GWP20102) with effect from 1 October 2019
Patea	PTA20901	
Pauatahanui 1	PAH23201	Aggregated into the Greater Waitangirua Notional Delivery Point (GTW06910)
Pauatahanui 2 (Horsefield)	PAH23101	
Pirongia	PIR31101	
Pukekohe	PUK04201	
Pungarehu 1	PGU13101	
Pungarehu 2	PGH15901	
Putaruru	PTR32601	
Pyes Pa	PYE36601	Aggregated into the Greater Tauranga Notional Delivery Point (GTT07701)
Rainbow Mountain	RBM03101	Decommissioned with effect from 1 Jun 2010
Ramarama	RAM15201	
Rangiuru	RAG33401	Direct Connect
Reporoa	RPR30801	
Rotorua	ROT08101	
Southdown Power Station	SDN00101	Decommissioned with effect from 31 January 2016
Stratford	STR10201	
Stratford 2	STR00521	Direct Connect
Stratford 3	STR00501	Decommissioned with effect from 2 Oct 2013
Stratford 3 Delivery Point	STR00511	Direct Connect
Takapau	TKP05101	
Taranaki Combined Cycle (TCC)	TCC00201	Direct Connect
Tatuanui DF	TAT16401	Direct Connect
Taupo	TAU07001	
Tauranga	TRG07701	Aggregated into the Greater Tauranga Notional Delivery Point (GTT07701)
Tawa A	TWA35610	
Tawa B (Nova)	TWB24810	

Gas Gate Name	Gas Gate Code	Notes
Te Awamutu Cogeneration Plant	TAC31001	Direct Connect
Te Awamutu North	TAW31004	Aggregated into the Greater Kihikihi Notional Delivery Point (GTK19101)
Te Horo	THO22701	
Te Kuiti North	TKN17001	
Te Kuiti South	TKS17401	
Te Puke	TPK33301	
Te Rapa Cogeneration Plant	TRC02003	Direct Connect
Te Teko	TTK30601	
Tikorangi 3	TIK00703	Direct Connect
Tirau	TIR33502	
Tirau DF	TIR33501	Direct Connect
Tokoroa	TKR19701	
Tuakau	TUK06501	Decommissioned with effect from 1 November 2014. ICPs transferred to Tuakau 2
Tuakau 2	TUK06502	ICPs transferred from Tuakau with effect from 1 November 2014
Waikanae	WAK22801	Decommissioned with effect from 1 April 2015. ICPs transferred to Waikanae 2
Waikanae 2	WAK22802	ICPs transferred from Waikanae with effect from 1 April 2015. Aggregated into the Greater Kapiti Notional Delivery Point (GWP20102) with effect from 1 October 2019
Waikeria	WKE19201	Direct Connect
Waikumete	WKM17701	Aggregated into the Greater Auckland Notional Delivery Point (GTA03610)
Waitangirua	WTG06910	Aggregated into the Greater Waitangirua Notional Delivery Point (GTW06910)
Waitara	WTR12001	
Waitoa	WTA16501	
Waitoki	WTK33901	ICPs transferred from Waitoki B with effect from 1 July 2015
Waitoki B	WTK33902	Decommissioned with effect from 1 July 2015. ICPs transferred to Waitoki
Waitotara	WTT20301	
Waiuku	WKU16901	
Wanganui	WAG21501	
Warkworth	WRK18901	
Waverley	WVY23601	
Wellsford	WEL18301	

Gas Gate Name	Gas Gate Code	Notes
Westfield	WST03610	Aggregated into the Greater Auckland Notional Delivery Point (GTA03610)
Whakatane	WHK32101	
Whangarei	WHG07501	

Notional delivery points

Notional Delivery Points are associated with interconnected distribution networks supplied via multiple delivery points/gas gates.

These Notional Delivery Points are not gas gates for the purposes of the Gas (Switching Arrangements) Rules 2008. However, the definition of gas gate in the Gas (Downstream Reconciliation) Rules 2008 provides for Gas Industry Co to determine a group of gas gates to be treated as a single gas gate for the purposes of those rules (ie, allocation and reconciliation purposes). Gas Industry Co envisages that these Notional Delivery Points are likely to form appropriate deemed single gas gates for those rules.

Therefore, while individual ICPs are to be assigned to a specific gas gate within the registry, a mapping table for allocation purposes will be available in the registry between gas gates and Notional Delivery Points as defined in the table below.

Notional Delivery Point	Code	Notes
Greater Auckland	GTA03610	Comprises the following Gas Gates: Bruce McClaren (BMC17901), Henderson (HEN74101), Papakura (PAP06610), Waikumete (WKM17701) and Westfield (WST03610) Greater Auckland included Papakura B (PAP06604) until 1 July 2015 when this gate became part of Papakura
Greater Hamilton	GTH11301	Comprises the following Gas Gates: Hamilton Te Kowhai (HTK08301) and Hamilton Temple View (HTV11301)
Greater Kapiti	GWP20102	Comprises the following Gas Gates: Paraparaumu (PAU20101) and Waikanae 2 (WAK22802)
Greater Kihikihi	GTK19101	Comprises the following Gas Gates: Kihikihi (Te Awamutu) (KIH19101) and Te Awamutu North (TAW31004)
Greater Mt Maunganui	GMM08001	Comprises the following Gas Gates: Mt Maunganui (MMU08001), Papamoa (PPA33201) and Papamoa 2 (PPA33202) ⁴
Greater Tauranga	GTT07701	Comprises the following Gas Gates: Pyes Pa (PYE36601) and Tauranga (TRG07701)
Greater Waitangirua	GTW06910	Comprises the following Gas Gates: Waitangirua (WTG06910) and Pauatahanui 1 (PAH23201)

⁴ Papamoa 2 (PPA33202) joined Greater Mt Maunganui (GMM08001) with effect 1 August 2017

Greater Waitoki was a Notional Delivery Point until 1 July 2015, when the ICPs from the embedded network at Waitoki B (WTK33902) were transferred to parent gate Waitoki (WTK33901). With the combination of the two gas gates, the notional gate became redundant.

Attachment 2: Monthly compliance reports

Monthly compliance reporting will consist of two complementary reports, the Switching Compliance Report and the Maintenance/Entry Compliance Report. Specifications for both reports are as follows.

Sub-process:	Produce switch compliance reports
Process:	Produce reports
Participants:	Retailers, Registry, Industry Body
Rule references:	Rules 69, 78.1, 81.1
Dependencies:	

Description:
<p>This is an automatic report that is produced every month by 24 hours from the end of the last day of the calendar month. It can also be requested 'on demand' at other times by retailers and by the industry body. Retailers can only obtain information pertaining to themselves. The industry body can select information for individual or all retailers.</p> <p>There are two types of switch compliance reports: historical and current.</p> <p>The 'historical' reports show, either in summary or in detail, those switch transactions that were not received by their due date, where the due date was in the past. The Registry requires the automatic delivery of both the summary and detail historical reports for potential rule breaches of the previous month.</p> <p>The 'current' reports show, either in summary or in detail, which switch transactions have not been completed 'as at' today either because the relevant switch message has not arrived and, either the due date has passed (overdue), or because the due date has not been reached yet. This report is used to show work in progress.</p> <p>For reference: GNT = gas switching notice GAN = gas acceptance notice GTN = gas transfer notice GNW = gas switching withdrawal notice GAW = gas switching withdrawal response notice GNC = switch reading renegotiation request notice GAC = switch reading renegotiation response notice</p>

Business requirements:
<p>Breach types and calculation of due dates</p> <p>The rules for the calculation of due dates of each potential breach type need to be maintainable by the Registry as they may change over time. The rules used in this report relate to the receipt of the following breach types within certain timeframes by the intended recipient:</p> <ul style="list-style-type: none"> • GAN delivery (breach code GAN) – a GAN must be delivered by the responsible retailer (old) within two business days of the receipt of a GNT unless a GTN or GNW was provided within this time. • GTN delivery (breach codes GTN or GTA) – provided a GAN has already been delivered and a

GNW has not been sent/received, a GTN must be delivered by the responsible retailer (old) either within 2 business days of the switch date included in the GTN or within 10 business days of the receipt of the GNT, whichever comes first. If a GAN has not already been delivered and a GNW has not been sent/received then the GTN must be delivered within two business days of the receipt of the GNT.

- **GNW delivery (breach code GNW)** – a GNW must be delivered by the responsible retailer (old) within two business days of the receipt of the GNT unless a GAN or GTN was provided within this time. Otherwise, a GNW may be delivered at any time between the date of the receipt of the GNT and the date that a new GNT is received by the (new) responsible retailer.
- **GAW delivery (breach code GAW)** – a GAW must be delivered within five business days of the receipt of the corresponding GNW.
- **GAC delivery (breach code GAC)** – a GAC must be delivered within five business days of the receipt of the corresponding GNC.
- **GNT (requested) switch date (breach code NTD)** – if included for a standard switch, the requested switch date in the GNT must not be less than 7 business days after the date the GNT is sent to the registry.
- **GAN (expected) switch date (breach code AND)** – if the GNT included a requested switch date, the expected switch date must be the requested switch date or later. In all cases, the expected switch date in the GAN must be no later than 10 business days after the date the (old) responsible retailer received the GNT.
- **GTN switch date (breach code TND)** – if the GNT included a requested switch date, the switch date in the GTN must be the requested switch date or later.

Note that after the receipt of a GNT, if any of the GAN, GTN or GNW is received late then the report will show 3 breaches - a GAN delivery breach, a GTN delivery breach and a GNW delivery breach.

It must be noted that the 'delivery' of a message, for compliance purposes, means the time the message was sent to the Registry (for details, see rule 29).

Calculation of days overdue

Days overdue = Number of days between midnight of the date of delivery of relevant document to participant and midnight of the due date, (where date of delivery is after due date).

If the relevant document has not arrived (no date of delivery), then for reporting purposes use today's date (runtime of the report). Assume document has until midnight to arrive.

Calculation of business days

From Rule 5: business day means any day of the week except –

- (a) Saturday and Sunday; and
- (b) Any day that Good Friday, Easter Monday, ANZAC Day, the Sovereign's Birthday, Labour Day, Christmas Day, Boxing Day, New Year's Day, the day after New Year's Day, and Waitangi Day are observed for statutory holiday purposes; and
- (c) Any other day which the industry body has determined not to be a business day as published by the industry body

Business days must be treated as calendar days, not multiples of 24 hours. For example, Registry routes GNT to retailer at any time on 23 January; current retailer then has until midnight on 25 January to deliver the GAN back to the Registry.

Note: There may be multiple potential breaches per ICP: for example, GAN not received and GTN not

received (this counts as two breaches); GNT sent out by the Registry on 2 April 2002, no GAN received at all, GTN received by the Registry on 19 April 2002. The report should output this as a breach of type GAN with days overdue equal to 10 (assuming no holidays).

Data inputs:

Selection criteria for both reports

- Retailer: only the industry body may specify several or all retailers.
- Switch type: S, SM or both.
- Breach type.
- Breach party: self, other, or both, ie, report if self or other is defaulting participant).
- Historical or current report.
- Summary or detail report.

Additional selection criteria for the historical report

- From/to date range: transactions that had due dates in this range.
- Days overdue or ageing buckets: for the detail report, only the minimum days overdue is specified (minimum value is 1). For the summary report, the user can specify up to four ageing buckets. The resultant report must generate an additional column for all overdues greater than the final bucket. The values are to be input in sequence, ie in ascending sequence.

Additional selection criteria for the current report

- Ageing buckets: (summary report only). The report can be produced summarising transactions that are overdue as at today's date and also those due in the future. The resultant report generates an additional column for all greater than the final bucket input. If requiring those due in the future in a bucket, negative values are input. The values should be input in ascending sequence, ie greatest negative through to the highest positive.
- Days till due: (detail report only). Selects those due within this number of days (from today's date).
- Days overdue: (detail report only). Selects those with this minimum number of days overdue.

Processing:

For the history summary report system

- Calculates the due dates.
- Selects those where:
 - they are overdue;
 - the specified retailer(s) was a participant (sender or other participant);
 - the due date is within the from/to date range specified; and
 - satisfies the other selection criteria.
- Assigns the days overdue count into one of the user-specified ageing buckets or the system-generated catch-all bucket. It is possible that the transaction does not fall into any bucket therefore is excluded from the report.

- Determines the participant in breach (defaulting participant).
- Sorts the report by ICP identifier/switch type/breach type/defaulting participant.

For the history detail report system

- Calculates the due dates.
- Selects those where:
 - they are overdue;
 - the specified retailer(s) was a participant (sender or other participant);
 - the due date is within the from/to date range specified; and
 - satisfies the other selection criteria.
- Selects only those transactions overdue by a number of days equal to or greater than the *days overdue* input by user.
- Determines the defaulting participant.
- Sorts the output by switch type/breach type/defaulting participant/days overdue (descending).

For the current summary report system

- Calculates the due dates.
- Selects those where:
 - the actual arrival date is missing (not arrived yet);
 - the specified retailer(s) was a participant (sender or other participant); and
 - satisfies the other selection criteria.
- Determines the days overdue or days till due (ie if due date not reached yet) and assigns the count into one of the user-specified ageing buckets or the system-generated catch-all bucket. For the purposes of this report the days till due are treated as negative values. It is possible that a transaction does not fall in any bucket therefore is excluded from the report.
- Determines the defaulting participant.
- Sorts the report by switch type/breach type/defaulting participant.

For the current detail report system

- Calculates the due dates.
- Selects those where:
 - the actual arrival date is missing (not arrived yet);
 - the specified retailer(s) was a participant (sender or other participant); and
 - satisfies the other selection criteria.
- Determines the days overdue or days till due. If overdue, selects only those transactions overdue by a number of days equal to or greater than the *days overdue* input by user. If due, selects those transactions less than or equal to the *days till due* parameter.
- Determines the defaulting participant.
- Sorts the output by ICP identifier/switch type/breach type/defaulting participant/days overdue (descending) then days till due (descending).

NB: If the user specified all breach types then an ICP could potentially be included several times in the report.

Data outputs:	
History summary output information	
Switch type	From qualifying event.
Breach type	
Defaulting participant	Derived by system.
Other participant	The non-defaulting participant impacted by the switch.
Total count in breach	Total of ageing 1 to 5.
Ageing 1	Overdue <= ageing 1 days.
Ageing 2	Overdue > ageing 1 days and <= ageing 2 days.
Ageing 3	Overdue > ageing 2 days and <= ageing 3 days.
Ageing 4	Overdue > ageing 3 days and <= ageing 4 days.
Ageing 5	Overdue > ageing 4 days.
History detail output information	
Switch type	From qualifying event.
Breach type	
Defaulting participant	Derived by system.
Other participant	The non-defaulting participant impacted by the switch.
ICP Identifier	
Sent date	The date the GNT, GNW or GNC notice was sent by the Registry to the recipient.
Due date	The date the switch event that is subject to a breach was due to be received.
Completion date	The date the switch event that is subject to the breach was completed (actual arrival date).
Days overdue	Number of business days the event is overdue.
Current summary output information	
Switch type	From qualifying event.
Breach type	
Defaulting participant	Derived by system.
Other participant	The non-defaulting participant impacted by the switch.
Total count in breach	Total of ageing 1 to 5.
Ageing 1	Overdue or due <= to ageing 1 days.
Ageing 2	Overdue or due > ageing 1 days and <= to ageing 2 days.
Ageing 3	Overdue or due > ageing 2 days and <= to ageing 3 days.

Ageing 4	Overdue or due > ageing 3 days and <= ageing 4 days.
Ageing 5	Overdue or due > ageing 4 days.
Current detail output information	
Switch type	From qualifying event.
Breach type	
Defaulting participant	Derived by system.
Other participant	The non-defaulting participant impacted by the switch.
ICP Identifier	
Sent date	The date the GNT, GNW or GNC notice was sent by the Registry to the recipient.
Due date	The date the switch event that is subject to a breach was due to be received.
Days till due	Number of business days from today's date until the event is due (calculated if the due date is in the future).
Days overdue	Number of business days the event is overdue.

Example: History Summary

Retailer: RET1

Date range: 1 April 2002 to 30 April 2002

Ageing buckets: 1, 5, 10, 30

Switch types: All

Breach types: All

Breach participant: Both

Assuming report run on 5 April 2002

Switch type	Breach type	Default participant	Other participant	Total	1 day or less	Between 2 and 5 days	Between 6 and 10 Days	Between 11 and 30 days	> 30 days
S	GAN	RET1	RET2	39	27	6		1	5
S	GAN	RET1	RET3	5		2	4		
S	GTN	RET1	RET4	40	39	1			
SM	GAN	RET1	RET2	22	18	2		2	
SM	GAW	RET2	RET1	5			5		

Example: History Detail

Switch type	Breach type	Default participant	Other participant	ICP Identifier	GNT/GNW/GN C sent date	Switch event due date	Completion date	Days overdue
S	GAN	RET1	RET2	449494933 2NG333	22/03/2002	26/03/2002		7
S	GAN	RET1	RET2	575755743 3NG967	23/03/2002	27/03/2002	02/04/2002	4
S	GAN	RET1	RET2	246800000 ONG222	22/03/2002	26/03/2002	28/03/2002	2
S	GAW	RET1	RET2	123456789 ONG01A	20/03/2002	22/03/2002	25/03/2002	1

Example: Current Summary

Switch type	Breach type	Default participant	Other participant	Total	Due within next 30 days	Overdue 1 day	Overdue 5 days or less	Overdue 10 days or less	Overdue > 10 days
S	GAN	RET1	RET2	39	27	6		1	5
S	GAN	RET1	RET2	6		2	4		
S	GTN	RET1	RET3	40	39	1			
SM	GAN	RET1	RET1	22	18	2		2	

Example: Current Detail

Assuming a report run date of 30 March 2002

Switch type	Breach type	Default participant	Other participant	ICP Identifier	GNT/GNW/GN C sent date	Switch event due date	Days until due	Days overdue
S	GAN	RET2	RET1	449224933 2NG333	22/03/2002	26/03/2002		3
S	GAN	RET2	RET1	575755743 3NG967	29/03/2002	02/04/2002	2	

Sub-process:	Produce maintenance/entry compliance report
Process:	Produce reports
Participants:	Registry, distributors, retailers, industry body
Rule references:	Rules 45.1, 48, 51.3, 53.1, 54.1
Dependencies:	

Description:
<p>This is an automatic report that is produced every month by 24 hours from the end of the last day of the calendar month. It can also be requested 'on demand' at other times by retailers, distributors and the industry body. Retailers and distributors can only obtain information pertaining to themselves. The industry body can select information for individual or all participants.</p> <p>Reports summarise and detail the gas gates and loss factors that were not maintained and the new ICP parameters that were not entered within the timeframes specified in the rules during the previous month.</p>

Business requirements:
<p>The report must show failures to comply with respect to the following maintenance and new ICP parameter entry rules:</p> <p>Rule 45. Distributors to give notices in relation to gas gates (breach code GGT)</p> <p>45.1 If a distributor intends to create or decommission a gas gate, the distributor must, at least 20 business days before the creation or decommissioning takes effect, give notice of that gas gate creation or decommissioning to –</p> <ul style="list-style-type: none"> 45.1.1 The industry body; and 45.1.2 The registry operator, and 45.1.3 All allocation agents and retailers that will be affected by the gas gate creation or decommissioning. <p>Rule 48. Distributors to give notices in relation to loss factor codes (breach code LFC)</p> <p>If a distributor intends to add or delete any loss factor codes, the distributor must, at least 20 business days before any such change takes effect, give notice of the impending change to –</p> <ul style="list-style-type: none"> 48.1 The registry operator; and 48.2 All allocation agents and retailers that will be affected by the change in loss factor codes. <p><i>Note: Rules 45 and 48 apply to maintenance of pre-loaded gas gate and loss factor code tables and their associated effective dates. The timeframes specified by the rules refer to the maximum allowable time between the effective dates and the dates the new gas gate and loss factor code information is entered in the registry.</i></p>

Rule 51. Creation of new ICPs (breach code NEW)

51.3 Once a distributor receives confirmation that a new consumer installation is first connected to its distribution system, the distributor must, within 2 business days of receiving that confirmation, enter in the registry the following information from Part A of the Schedule:

- 51.3.1 The ICP identifier; and
- 51.3.2 The ICP creation date; and
- 51.3.3 The responsible distributor code; and
- 51.3.4 The physical address of the consumer installation.

Rule 53. Readying of NEW ICP and registry validation (breach code DST)

53.1 Within 2 business days of having identified for a new ICP the values of the remaining ICP parameters listed in Part A of the Schedule apart from ICP status and connection status, the distributor must enter them in the registry.

Rule 54. Retailer for READY ICP (breach code RET)

54.1 Subject to rule 54.2, within 2 business days of a retailer entering into a contract to supply gas to a consumer at a consumer installation for which its ICP has an ICP status of READY, the retailer must enter in the registry values for all of the ICP parameters listed in Part B of the Schedule, including:

- 54.1.1 A change to the value of the ICP status according to rule 59.9; and
- 54.1.2 The applicable valid value of the connection status.

54.2 A retailer must not record any information in the registry for an ICP before the ICP status is READY.

54.3 To avoid any doubt, the retailer that enters information under rule 54.1 may or may not be the expected retailer referred to in rule 53.3.2.

Note: Rules 51, 53 and 54 apply to parameters for new ICPs and their associated effective dates. The timeframes specified by the rules refer to the maximum allowable time between effective dates and the dates the new ICP parameters are entered in the registry.

Data inputs:**Selection criteria**

- Participant: only the Registry may specify several or all participants.
- Maintenance type: distributor gas gate maintenance, distributor loss factor code maintenance, distributor new ICP parameter entry, retailer new ICP entry or all (note: retailers and distributors can only view reports pertaining to themselves)
- From/to date range: transactions that had due dates in this range.

Processing:
<ul style="list-style-type: none"> • Extract all gas gate and loss factor maintenance and new ICP events input during the previous month. • Calculates the due dates. • Selects those where: <ul style="list-style-type: none"> ○ they are overdue; ○ the specified participant(s) was the initiator ○ the due date is within the from/to date range specified; and ○ satisfies the other selection criteria. • Calculates the days overdue for each breach • Detail report is sorted by participant, maintenance type and input date. • Summary report is sorted by participant and maintenance type.

Data outputs:	
Maintenance/entry compliance report output information – detail	
Name	Comment
Participant code	
Maintenance type	Distributor gas gate maintenance, distributor loss factor code maintenance, distributor new ICP parameter entry or retailer new ICP entry
Input date	
Effective date	
Days overdue	

Maintenance/entry compliance report output information – summary	
Name	Comment
Participant code	
Maintenance type	Distributor gas gate maintenance, distributor loss factor code maintenance, distributor new ICP parameter entry or retailer new ICP entry
Number of non-compliant events	