

Draft data request – Rural Connectivity Study/Annual Industry Questionnaire

The Commerce Commission is conducting our Rural Connectivity Study under 9a of the Telecommunications Act 2001. The study will establish a baseline view of telecommunications services in areas where fibre is not available. The details of the review have been published in the Terms of Reference [here](#).

For this year's Annual Monitoring Report we are combining the data requests for parts of the standard Annual Industry Questionnaire and the Rural Connectivity Study. This will allow us to avoid duplicating information requests and provide more granular information in the Annual Monitoring Report.

This document sets out the data that we would look to collect to inform the Rural Connectivity Study and the Annual Monitoring Report and requests feedback on the information request.

Draft data request – Sample data

As part of the feedback process, we would request that providers supply a 'sample' (5 records) of data that they would be able to produce. This will allow us to confirm that we can work with the data and make any required changes to the final data request.

Data sets

The tables below specify what data should be supplied depending on the business of each provider. Most providers will need to supply multiple data sets e.g. if a provider is a network operator for Fixed Wireless Access (FWA) and retails copper and FWA connections.

Data set	Who should provide this information
Fixed Network (All Retail Service Providers)	All Retail Service Providers for fixed networks E.g. Fibre, HFC, ADSL, VDSL, 4G Fixed Wireless, 5G Fixed Wireless, WIMAX, POTS, Satellite, POTS, Baseband IP, CMAR
Mobile Network Operators (FWA)	All network operators for Fixed Wireless Access
Satellite Network Operators	All network operators for Satellite
Fixed Network Wholesale (Network Owners)	All network owners other than FWA and satellite e.g. Copper
Fixed network (WISPs)	All WISPs
Backhaul providers	All providers of backhaul

Location information

When providing location of end-user, cabinet etc. please supply the following:

- x-y coordinates; or
- land parcel ID; or
- a full address which can be matched to the LINZ NZ addresses database

Data format

The data should be supplied in a format suitable for importing into a Geographic Information System (GIS), that is, either a flatfile, shapefile or geopackage with specified projection (4326 or 2193) where applicable.

Feedback

The draft data sets have been described at a high-level. We plan to provide more detail in the final data request once we have feedback from suppliers about what data they will be able to provide.

We understand that not all the data below will be able to be supplied. For each field below, we would like feedback on whether it would be possible to supply this data, what would be supplied and if the data could not be supplied whether there would be an alternative option.

Priority of data

We understand that it may not be possible to provide all the data below. The priority of collecting the data for the purpose of the Rural Connectivity Study would be:

1. Availability data;
2. Connections data; and
3. Any other information.

Timing of data

We would also like feedback on the frequency of the data that could be supplied within the timeframe. To align with the Annual Monitoring Report the date of the data requested would be at 30 June 2023. We would also request feedback on whether the data could be supplied on a monthly basis for information such as connections and if so, how many months of data could be supplied. Ideally this would be 24 months' worth of data.

Fixed Network (All Retail Service Providers)

Availability (What services are available to any end-user?)

Field	Description
End-user location	Location of end-user as per 'location information'
Plans available	
Price of plans available	

Field	Description
Plans available	

Technology of plans available	E.g. Fibre, HFC, ADSL, VDSL, 4G Fixed Wireless, 5G Fixed Wireless, POTS, Satellite
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Connections/Lines (What services are end-users connected to? E.g. Current customers)

Field	Description
End-user location	Location of end-user as per 'location information'
Technology	E.g. Fibre, HFC, ADSL, VDSL, 4G Fixed Wireless, 5G Fixed Wireless, POTS, Satellite, POTS, Baseband IP, CMAR
Voice/Broadband	Voice only, voice and broadband bundle, naked broadband
Plan name	
Residential/Business	Business or residential customer
Plan price	Monthly price paid by an end-user for the plan they are on (\$NZD)
Bundle	If the current plan has been sold as a bundle, and what type of bundle the plan is sold with e.g. electricity, Netflix
Set-up costs	Initial costs paid when the end-user entered into their current plan (\$NZD) e.g. Installation costs
Antenna installed (FWA only)	Whether an external antenna has been installed for FWA (Yes/No)
Plan term	Term of plan that the end-user signed up for
Plan download speed	Advertised download speed of the broadband plan (Mbps)
Plan upload speed	Advertised upload speed of the broadband plan (Mbps)
Data allowance	Monthly data allowance (GB)
TSO/Non-TSO (Spark/Chorus only)	
Vulnerable/Non-Vulnerable	Whether the end-user is classified as a vulnerable customer under the Commission's 111 Code
Traffic	Monthly data (GB) used by end-user (if providing monthly data) or average monthly data use over the last 12 months by end-user.
Voice	Monthly voice minutes used by end-user (if providing monthly data) or average monthly data use over the last 12 months by end-user.

Faults (Per end-user)

Field	Description
End-user location	Location of end-user as per 'location information'
Number of faults	Total number of faults for the last two years
Duration of faults	Total duration in minutes of service outages dues to faults for the last two years

Mobile Network Operators (FWA/Mobile)

Towers/Sites

Field	Description
Site location	Location as per 'location information'
Coverage (3G/4G/5G) – mobile	Aligned with CIP methodology (Polygons – Vector format)
Coverage (3G/4G/5G) – FWA with antenna	Aligned with CIP methodology (Polygons – Vector format)
Capacity of backhaul	
Technology of backhaul	
Hours of battery backup installed	
Tower/Site Capacity	

Satellite Network Operators

Field	Description
Coverage	Polygons – Vector format
Backhaul technology	By ground station
Backhaul capacity	Amount of bandwidth capacity available to that ground station
Standby battery capacity installed	Hours of use

Fixed Network Wholesale (Network Owners) – Excluding Fixed Wireless Access and Satellite

Availability (What services are available to any end-users?)

Field	Description
End-user location	Location of end-user as per 'location information'
Cabinet name	
Technology available	E.g. Fibre, HFC, ADSL, VDSL, POTS
Wholesale plan names	
Regulated service L1 or L2?	
Headline speed	
EIR (expected speed)	Excess Information Rate
CIR	Committed Information Rate

Connections (What services are end-users connected to?)

Field	Description
End-user location	Location of end-user as per 'location information'
Cabinet name	

Retail Service Provider	End-users current retail service provider
Technology	E.g. Fibre, HFC, ADSL, VDSL, POTS
Wholesale plan name	
Regulated service Level 1 or Level 2?	
Headline speed	Mbps
EIR (expected speed)	Excess Information Rate (Mbps)
CIR	Committed Information Rate (Mbps)
Traffic	Monthly data (GB) used

Cabinets/Node

Field	Description
Cabinet name	
Cabinet location	Location as per 'location information'
Backhaul technology	
Backhaul capacity	Amount of bandwidth capacity available to that node
Standby battery capacity installed	Hours of use
Traffic	Monthly data (GB) used

Faults (per cabinet/node)

Field	Description
Cabinet/node location	Location as per 'location information'
Cabinet name	
Number of faults	Total number of faults for the last two years
Duration of faults	Total duration in minutes of service outages dues to faults for the last two years

TSO address data (Chorus)

Field	Description
TCL	
Location	Location as per 'location information'
Address	
Sam No	
Current Baseband Service Flag	

Service data (Chorus)

Field	Description
Date	
ESA Code	
ESA Name	

Copper Cabinet	
TCL	
Address	
Location	Location as per 'location information'
Service Id	
Chorus Customer L1 Name Short	
Prod Level 2 Desc	
Prod Level 3 Desc	
Clothed With	

Fixed network (WISPs)

Towers/Sites

Field	Description
Location	Location as per 'location information'
Expected coverage	Aligned with CIP methodology (Polygons – Vector format)
Capacity of backhaul	
Technology of backhaul	
Hours of battery backup installed	
Tower/Site Capacity	

Faults (per tower/site)

Field	Description
Location	Location as per 'location information'
Number of faults	Number of faults monthly for the last two years
Duration of faults	Total duration of faults for the last two years

Backhaul providers

Field	Description
Description	Node/Cabinet/Cell site
Location	Location as per 'location information'
Technology	
Connections	Number of connections
Capacity	Backhaul capacity connected

Faults (per end-user)

Field	Description
Number of faults	Number of faults monthly for the last two years
Duration of faults	Total duration of faults for the last two years

Other information to be collected in the Annual Industry Questionnaire

- Revenue data
- Investment data
- Traffic data
- Specialist questions (OECD/MoE)
- Churn
- Mobile connections and customers.

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