

# Survey on Differences in Telecommunications Service Charges between Domestic and Overseas Markets - 2023 Survey Results (Summary) -

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June 2019  
Ministry of Internal Affairs and  
Communications

## Survey Overview

A comparative survey was conducted on cell phones (smartphone (MNO) and smartphone (MVNO)), FTTH and landline telephone service charges (excluding prepaid types) in six cities, including Tokyo.

◇ Cities covered by the survey (Comparison of major cities in each country)

Tokyo, New York, London, Paris, Düsseldorf, and Seoul

◇ Carriers covered by the survey

Carriers with the highest market share in each city (top 3 or 4 carriers for smartphones (MNO), others (smartphones (MVNO), FTTH and landline telephones) with the highest market share)

◇ Survey method (confirmed by public information, interviews with carriers, etc.)

(1) Cell phones (Smartphone (MNO) 4G and 5G, and Smartphone (MVNO) 4G and 5G)

Comparison is based on usage models (\*) derived from monthly usage patterns.

\* Model based on usage patterns in Japan. Comparison based on monthly 52 minutes of calls, 60 emails, and data allowances of 2GB, 5GB, 20GB, 50GB, 100GB, and unlimited plans. Call duration is calculated from “Voice Communications Usage in Japan from Volume of Communications Traffic State in FY 2022 (Ministry of Internal Affairs and Communications, December 2023)”, and the number of e-mails sent and received is calculated from “FY 2020 Mobile Communications Devices Usage Survey” (Communications and Information Network Association of Japan, December 2020).

(2) FTTH

Comparison based on line usage fees, in-home device rental fees, and ISP fees

(3) Landline telephones

Comparison based on usage models (\*) derived from monthly usage patterns.

\* Adopted the usage model used by the OECD to compare telephone rates in different countries.

◇ Survey period

As of March 2024

◇ Currency conversion

Comparison was performed using purchasing power parity (2023) published by the OECD

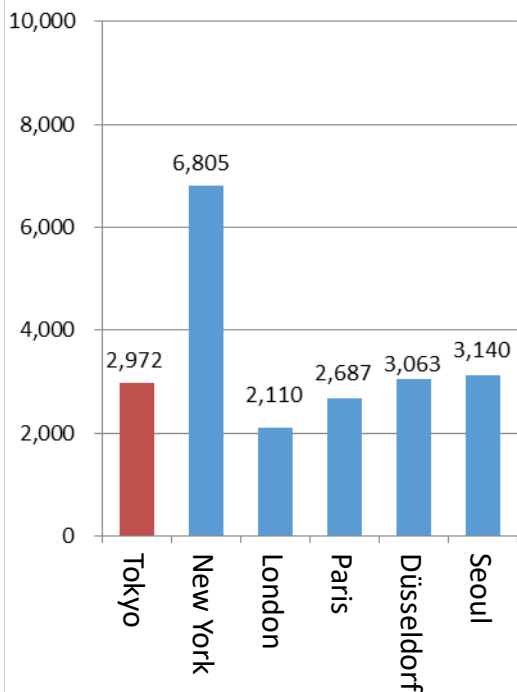
# 1. Smartphone 4G (MNO: Carrier With No. 1 Market Share)

2

- The monthly payment was compared for the most affordable general user rate plan (for new subscriptions) offered by the market-leading carrier (main brand) in terms of usage models such as call duration and data allowance.
- Charges of carriers in Tokyo are in the middle range across all usage models.

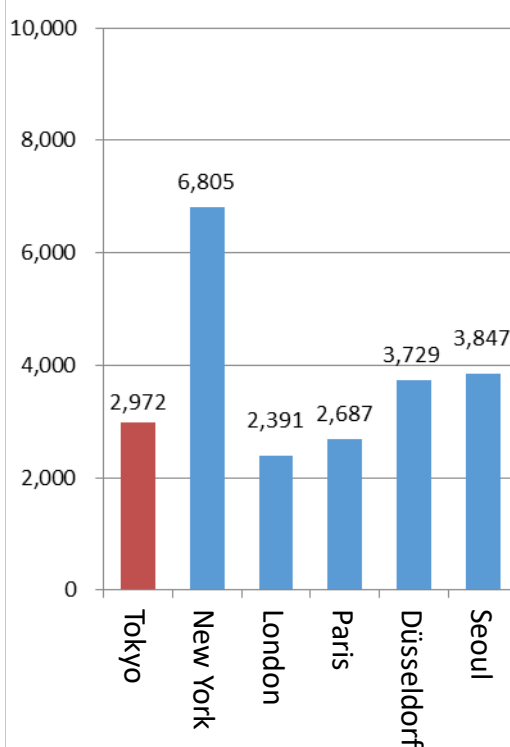
Data: 2 GB per month

(Unit: Yen) (Including tax)



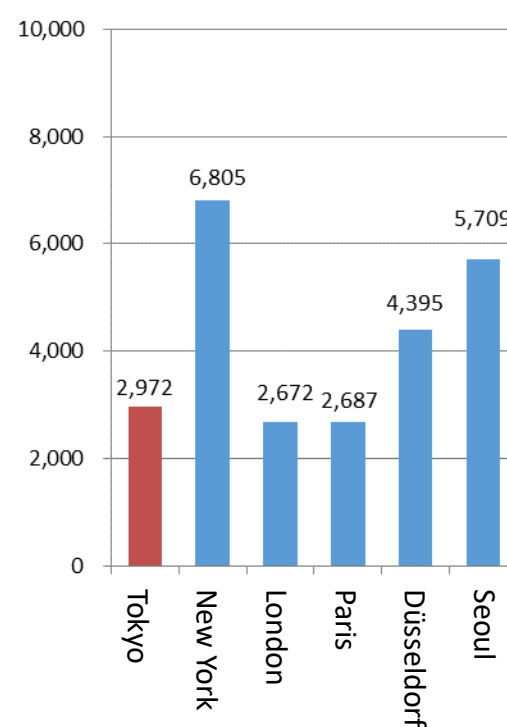
Data: 5 GB per month

(Unit: Yen) (Including tax)



Data: 20 GB per month

(Unit: Yen) (Including tax)

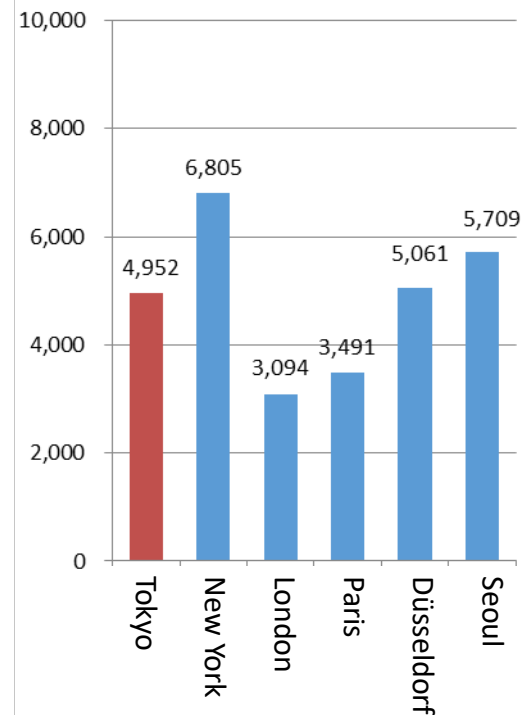


# 1. Smartphone 4G (MNO: Carrier With No. 1 Market Share)

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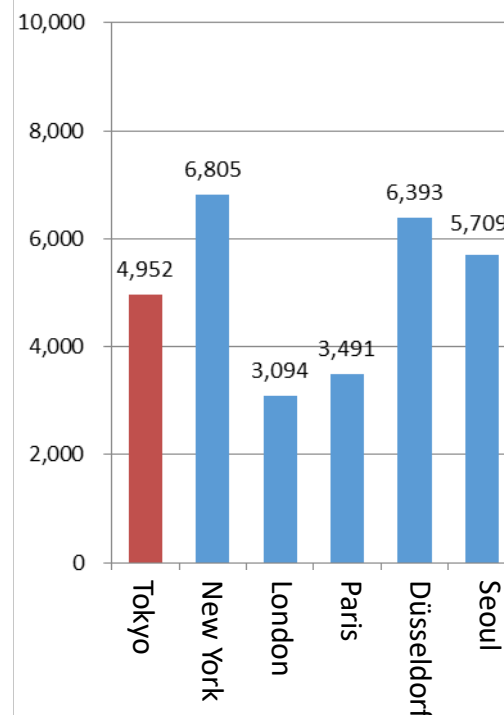
Data: 50 GB per month

(Unit: Yen) (Including tax)



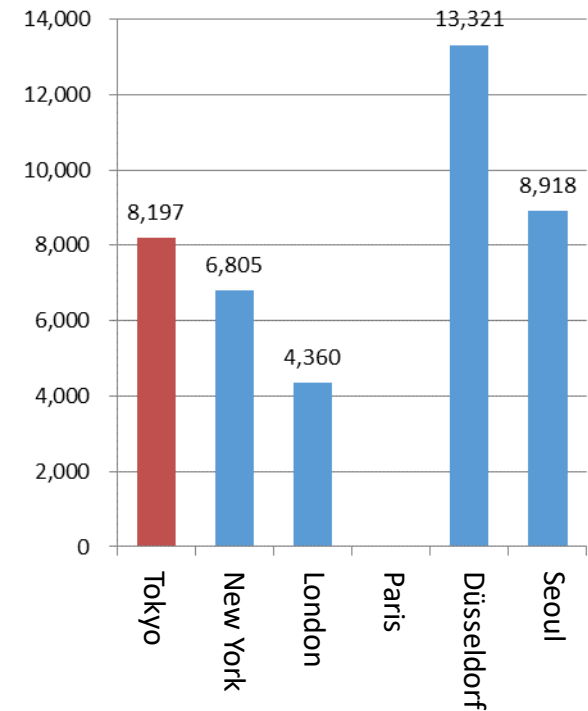
Data: 100 GB per month

(Unit: Yen) (Including tax)



Data: Unlimited per month

(Unit: Yen) (Including tax)

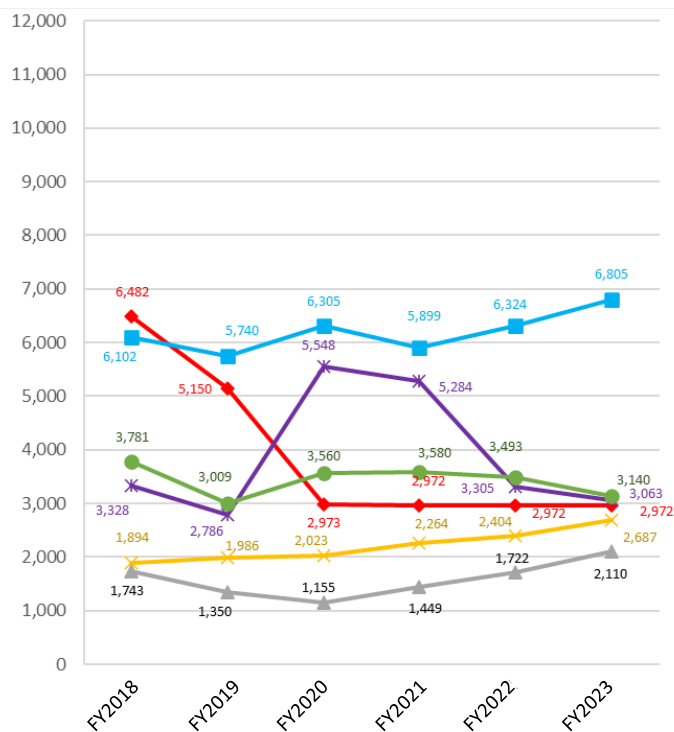


Note: No carriers offered unlimited plans in Paris.



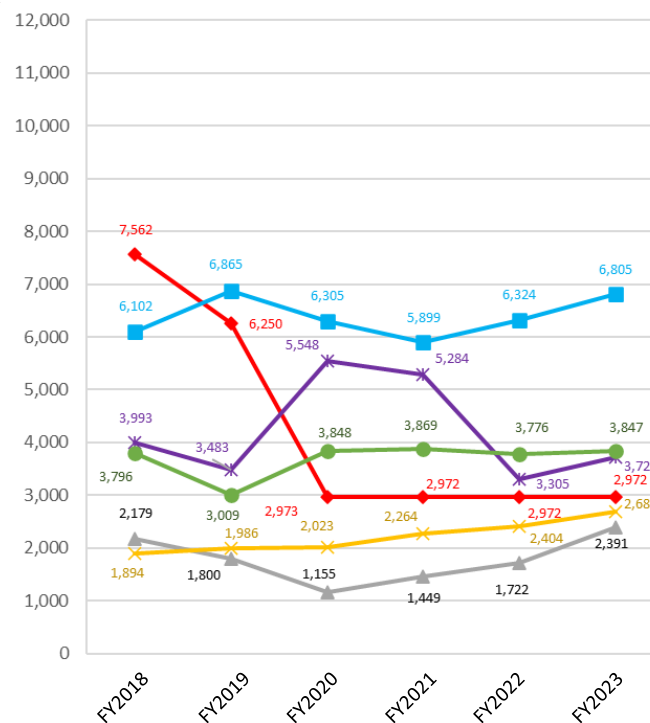
Data: 2 GB per month

(Unit: Yen) (Including tax)



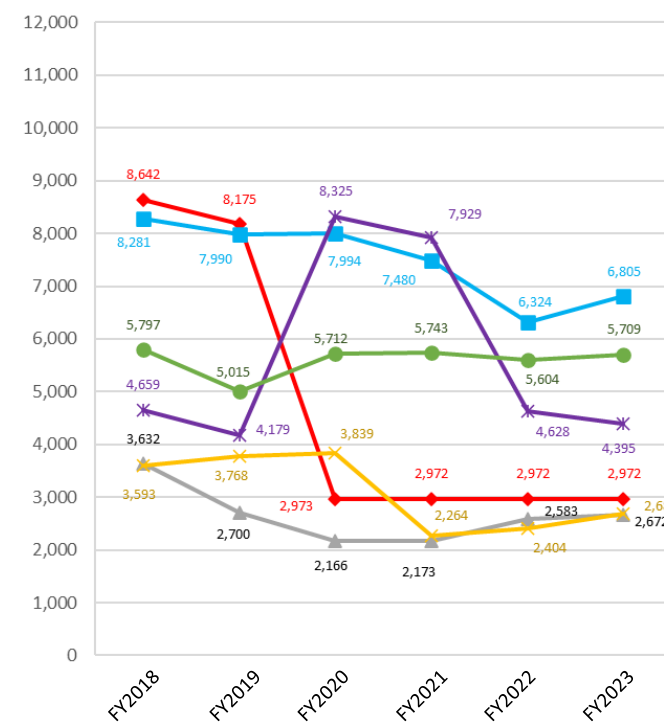
Data: 5 GB per month

(Unit: Yen) (Including tax)



Data: 20 GB per month

(Unit: Yen) (Including tax)

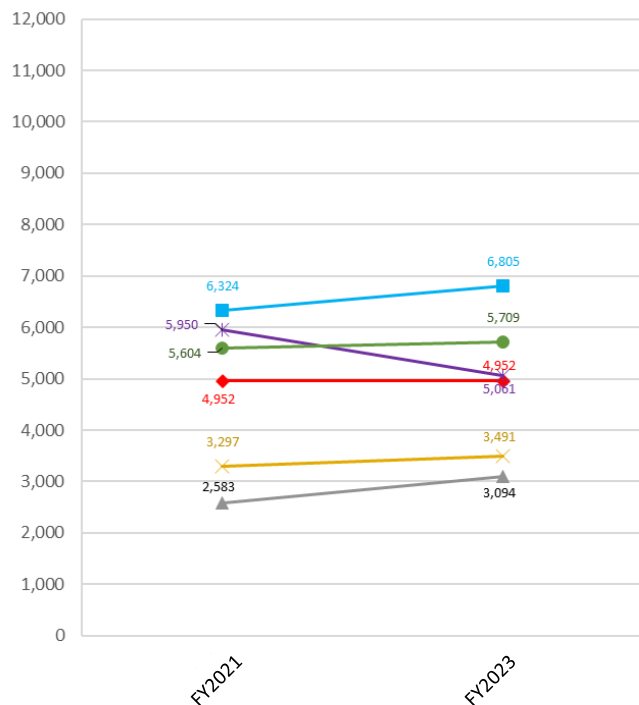


Note 1: The purchasing power parity values used for currency conversion differ for each fiscal year.

Note 2: The survey included communication charges for 50 GB and 100 GB data starting from FY 2022, and for unlimited data starting from FY 2021.

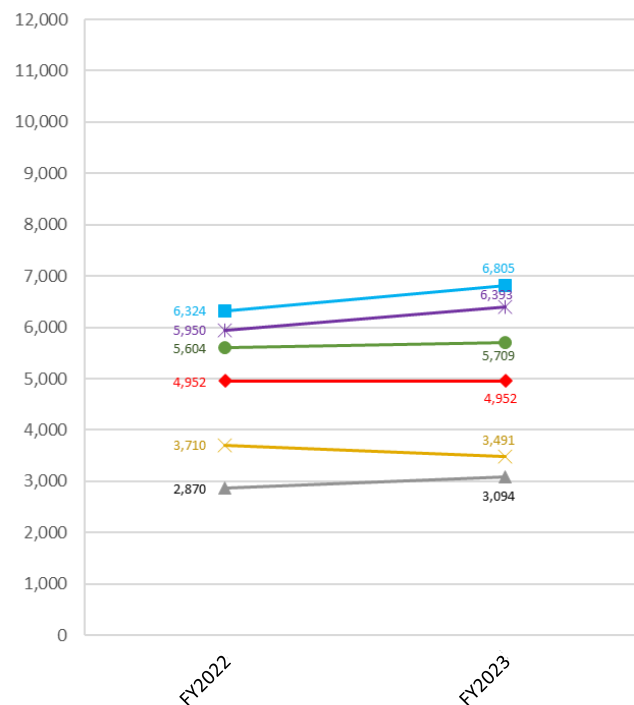
Data: 50 GB per month

(Unit: Yen) (Including tax)



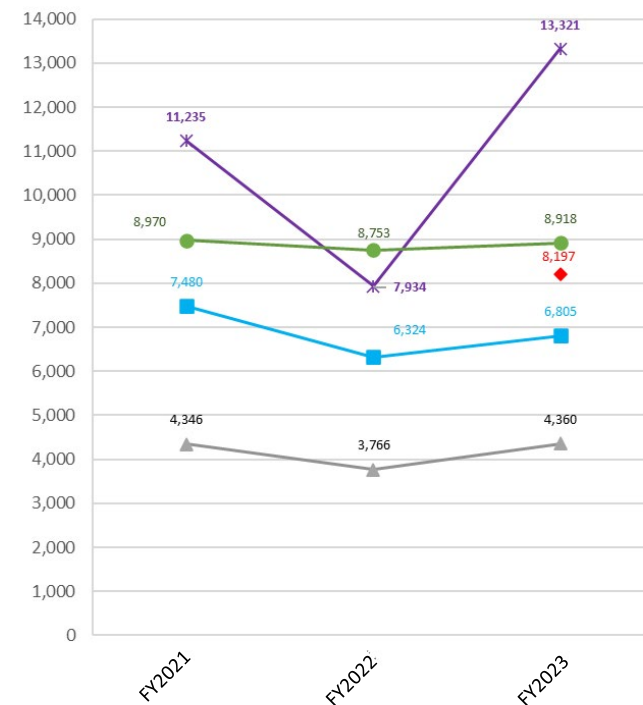
Data: 100 GB per month

(Unit: Yen) (Including tax)



Data: Unlimited per month

(Unit: Yen) (Including tax)



Note 1: The purchasing power parity values used for currency conversion differ for each fiscal year.

Note 2: The survey included communication charges for 50 GB and 100 GB data starting from FY 2022, and for unlimited data starting from FY 2021.

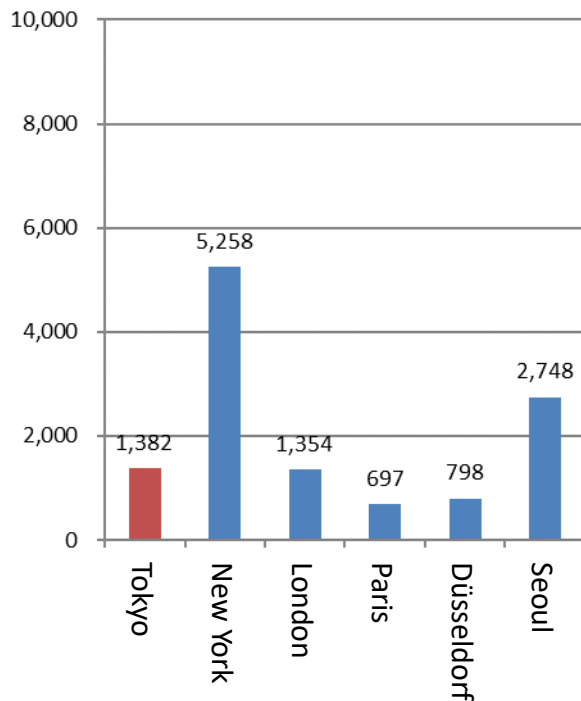
## 2. Smartphone 4G (MNO: Cheapest)

6

- The monthly payment was compared for the most affordable general user rate plan (for new subscriptions) of the top three or four carriers in terms of market share (including sub-brands) based on usage models such as call duration and data allowance.
- Charges of carriers in Tokyo are in the middle range across all usage models.

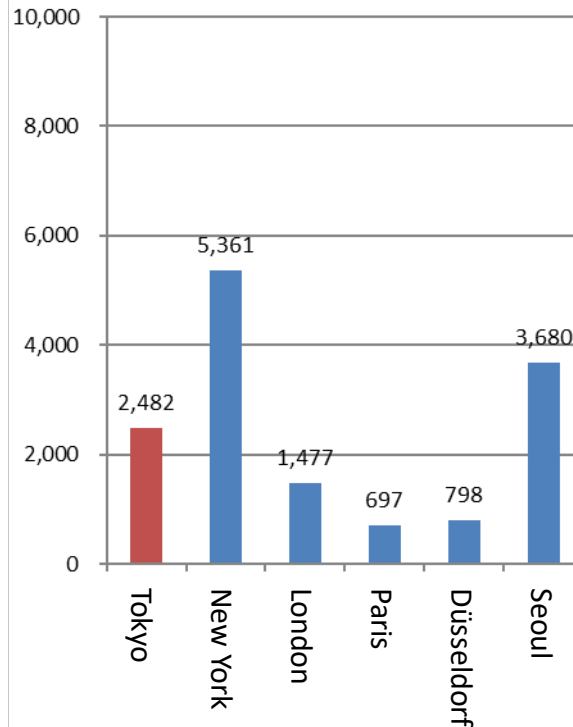
Data: 2 GB per month

(Unit: Yen) (Including tax)



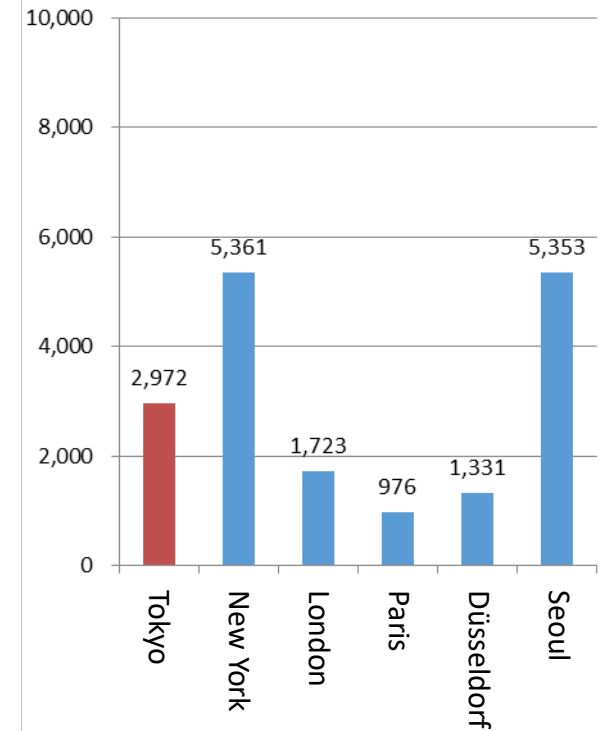
Data: 5 GB per month

(Unit: Yen) (Including tax)



Data: 20 GB per month

(Unit: Yen) (Including tax)

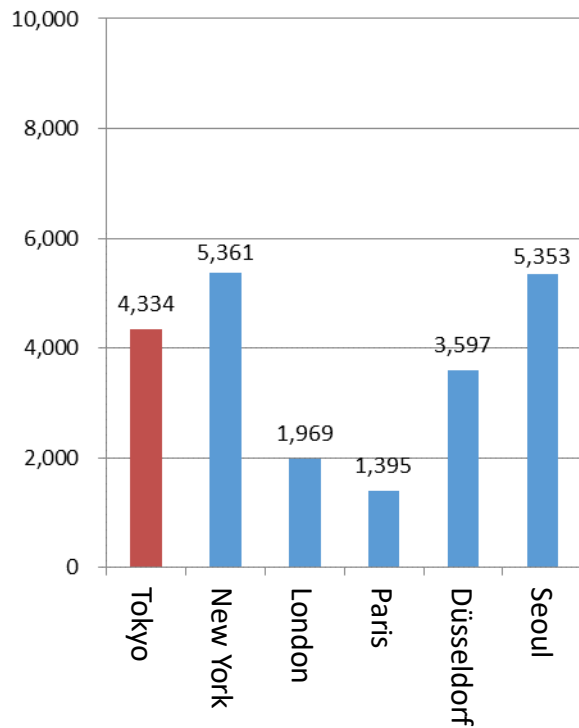


## 2. Smartphone 4G (MNO: Cheapest)

7

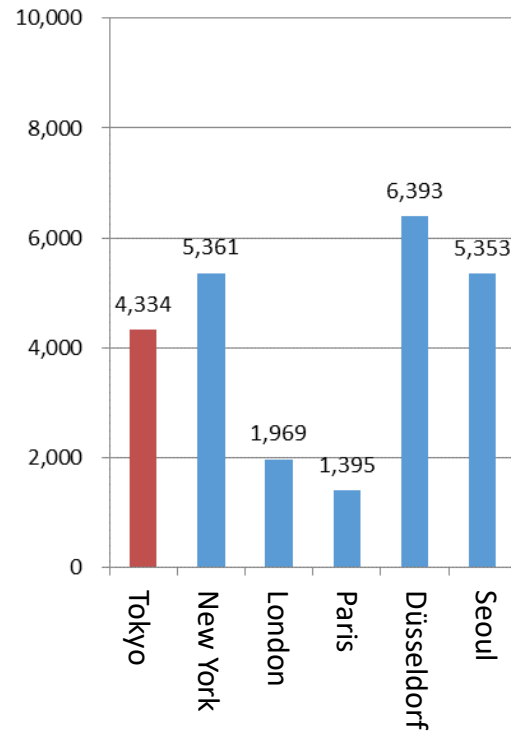
Data: 50 GB per month

(Unit: Yen) (Including tax)



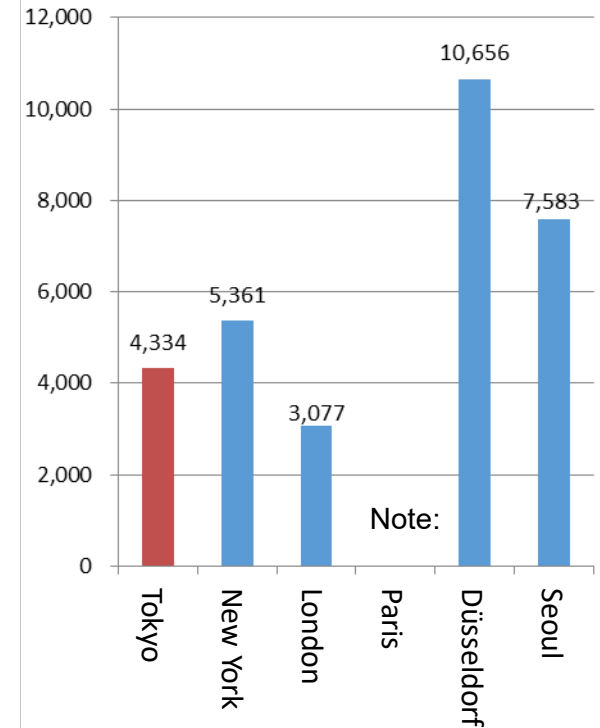
Data: 100 GB per month

(Unit: Yen) (Including tax)



Data: Unlimited per month

(Unit: Yen) (Including tax)

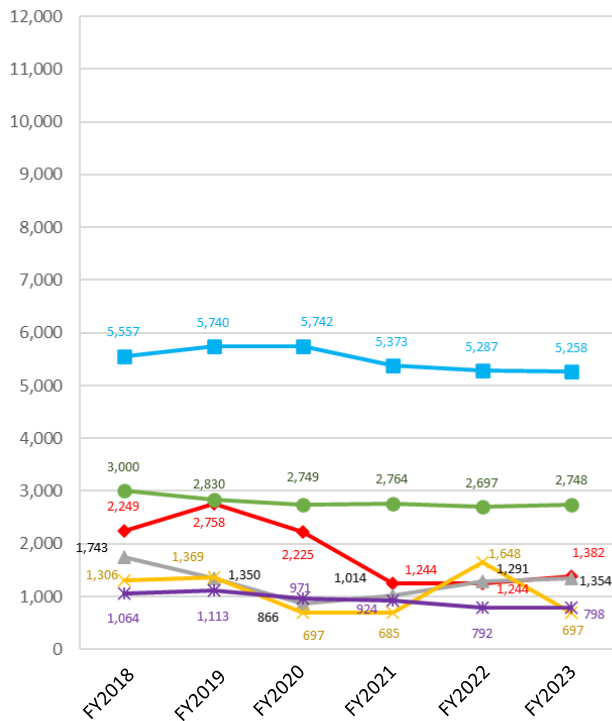


Note: No carriers offered unlimited plans in Paris.



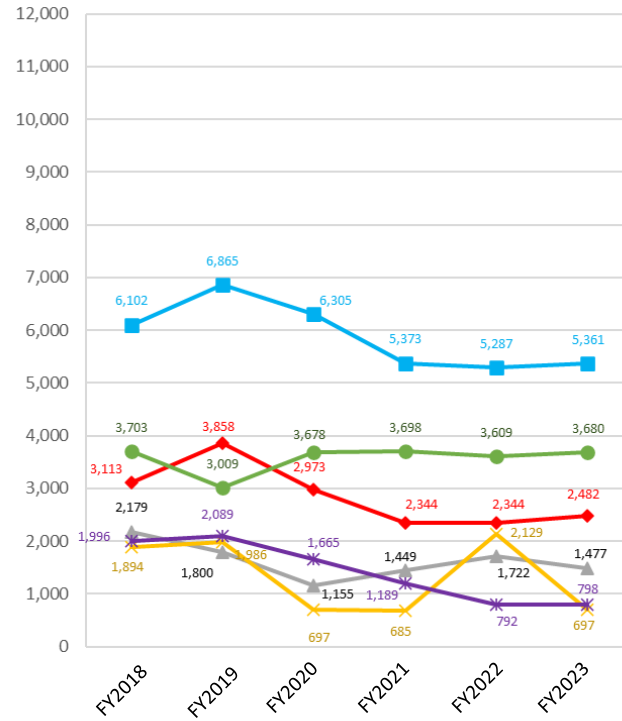
Data: 2 GB per month

(Unit: Yen) (Including tax)



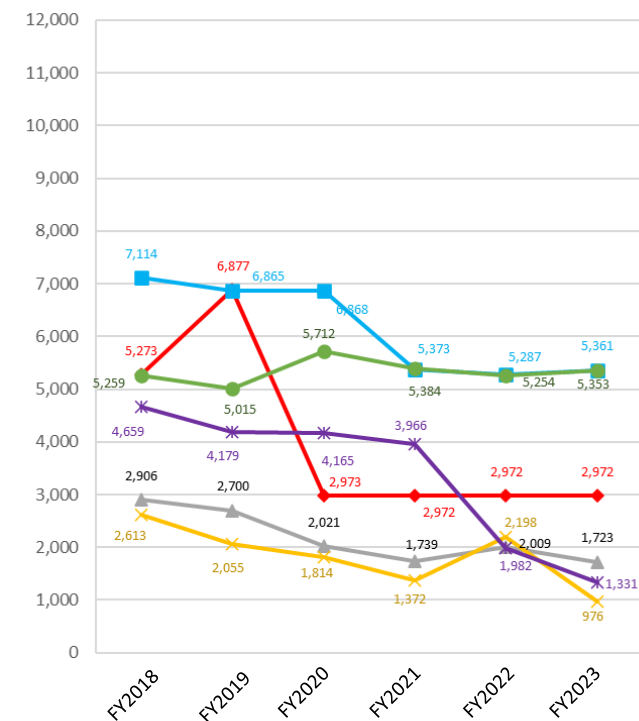
Data: 5 GB per month

(Unit: Yen) (Including tax)

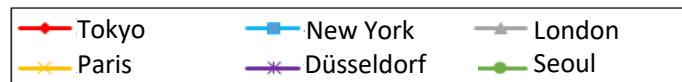


Data: 20 GB per month

(Unit: Yen) (Including tax)

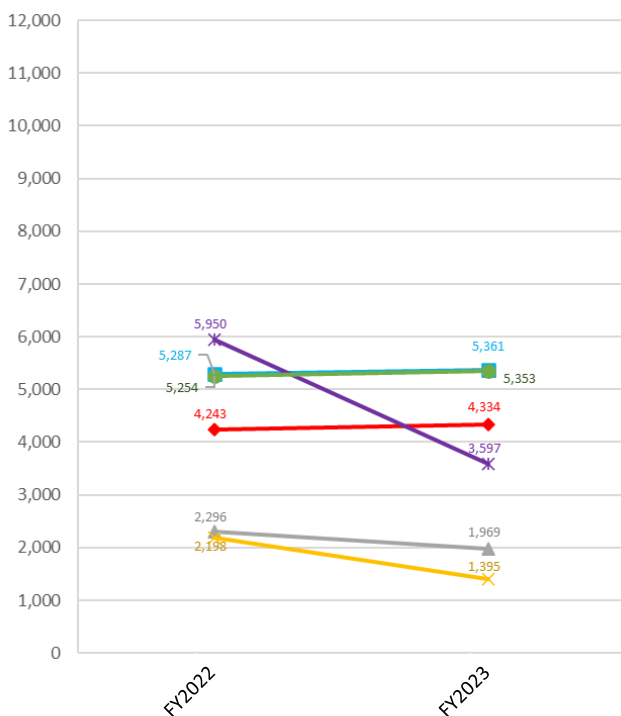


Note: The purchasing power parity values used for currency conversion vary for each fiscal year.



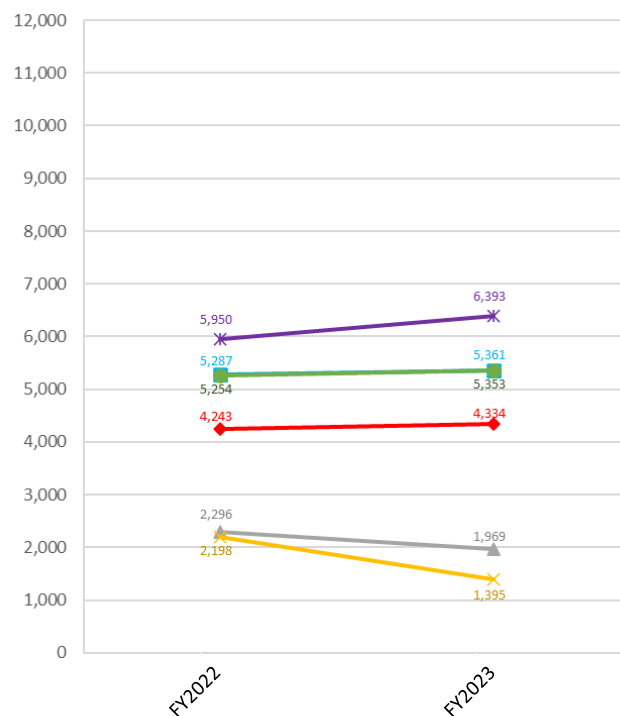
Data: 50 GB per month

(Unit: Yen) (Including tax)



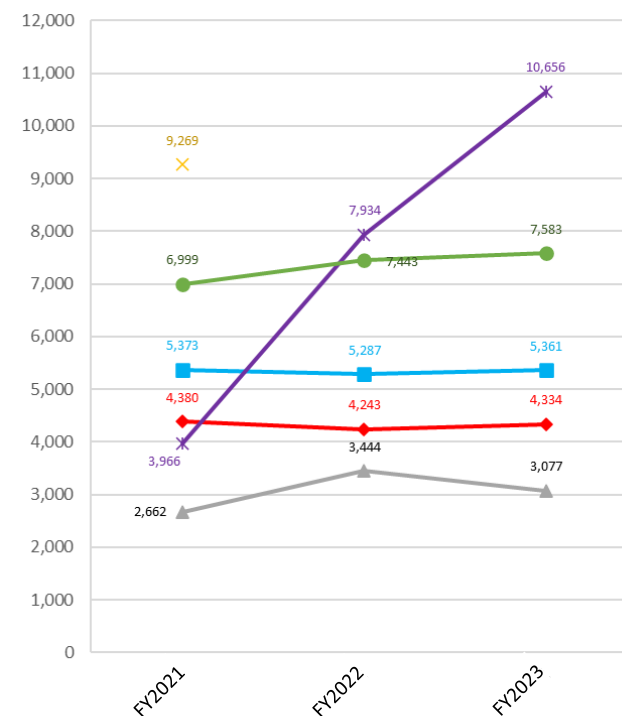
Data: 100 GB per month

(Unit: Yen) (Including tax)



Data: Unlimited per month

(Unit: Yen) (Including tax)



Note: The purchasing power parity values used for currency conversion vary for each fiscal year.

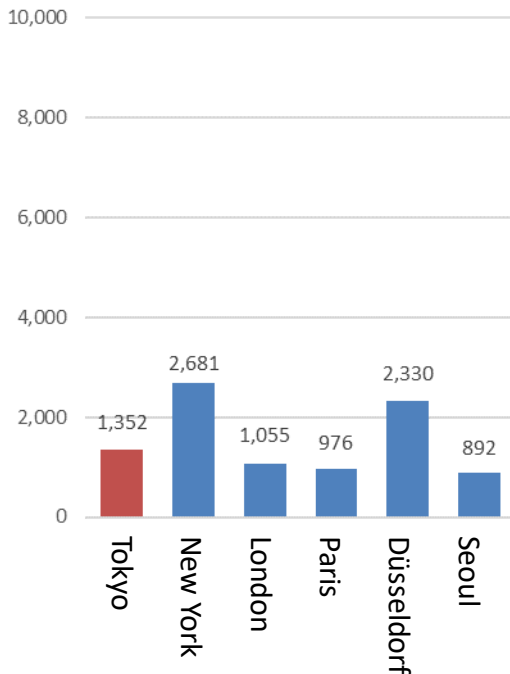
### 3. Smartphone 4G (MVNO)

10

- The monthly payment was compared for the most affordable general user rate plan (for new subscriptions) offered by the market-leading carrier in terms of usage models such as call duration and data allowance.
- Charges of carriers in Tokyo are in the middle range for 2 GB, 5 GB, 20 GB and 50 GB plans.

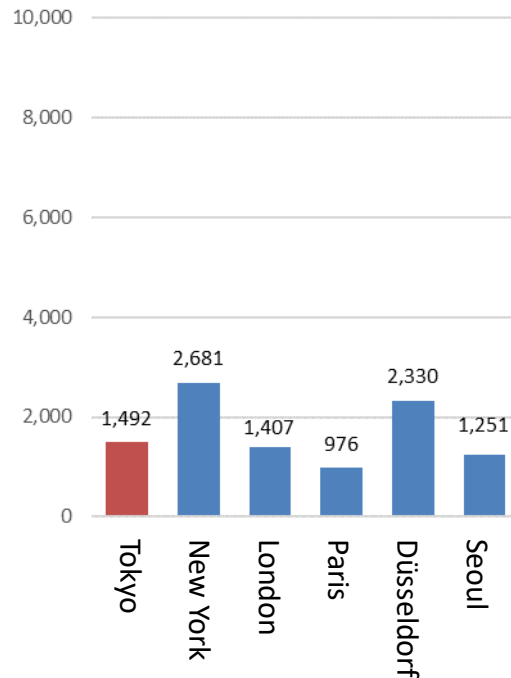
Data: 2 GB per month

(Unit: Yen) (Including tax)



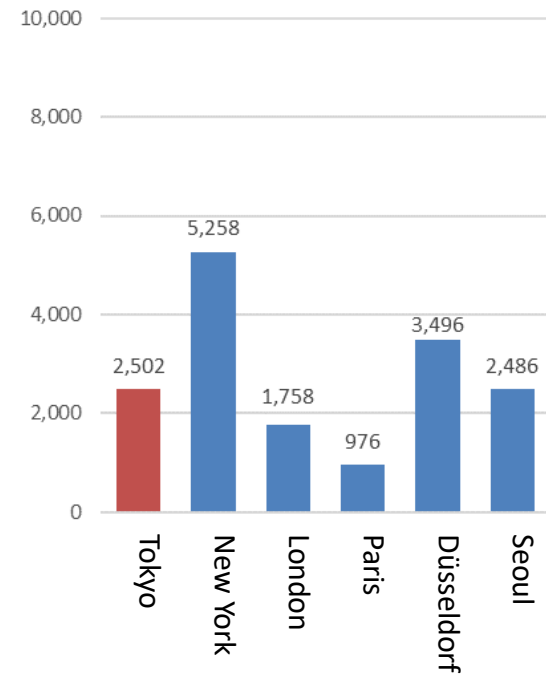
Data: 5 GB per month

(Unit: Yen) (Including tax)



Data: 20 GB per month

(Unit: Yen) (Including tax)

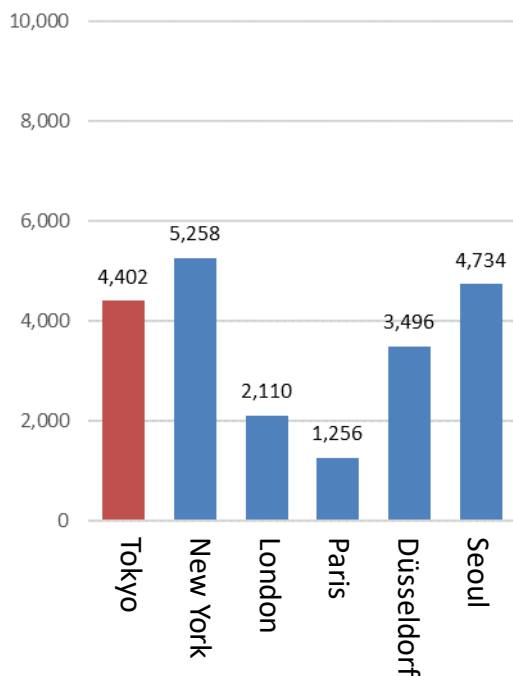


### 3. Smartphone 4G (MVNO)

11

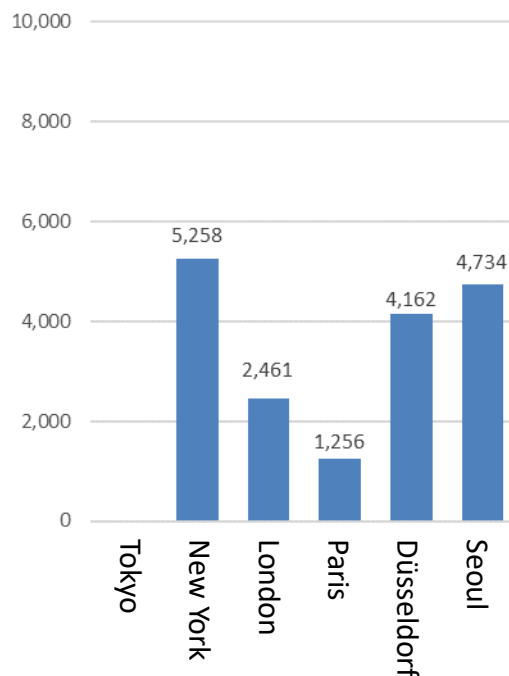
Data: 50 GB per month

(Unit: Yen) (Including tax)



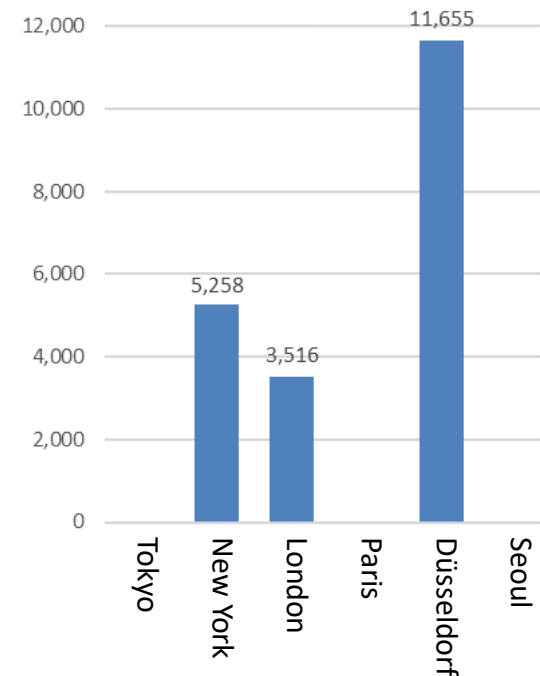
Data: 100 GB per month

(Unit: Yen) (Including tax)

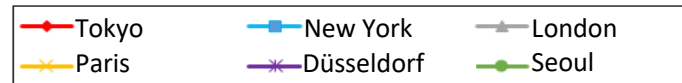


Data: Unlimited per month

(Unit: Yen) (Including tax)

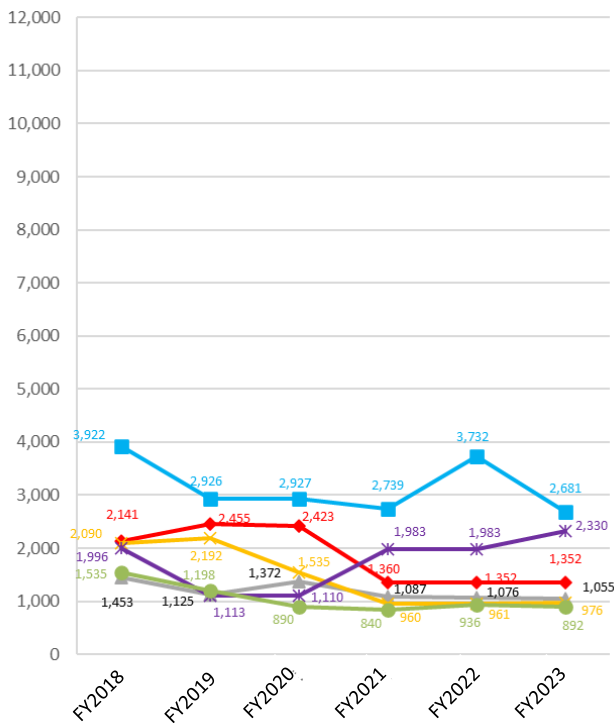


Note: No carriers offered 100 GB/month and unlimited plans in Tokyo, and unlimited plans in Paris and Seoul.



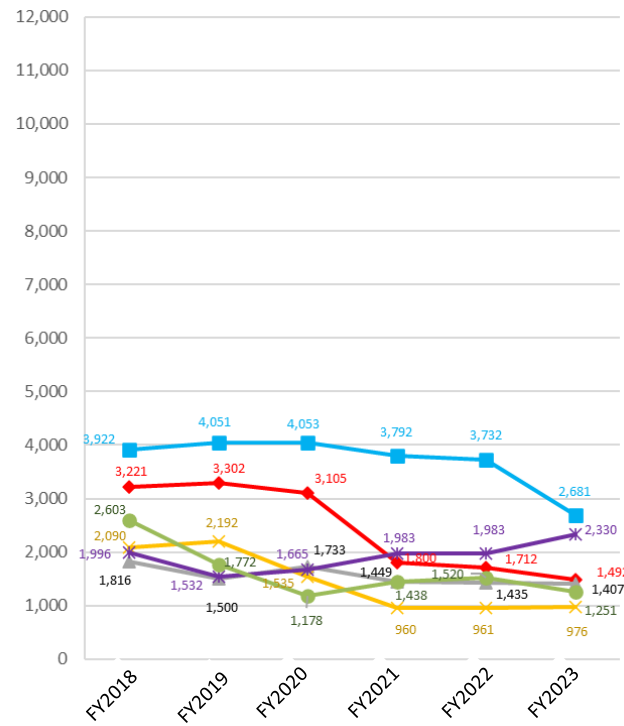
Data: 2 GB per month

(Unit: Yen) (Including tax)



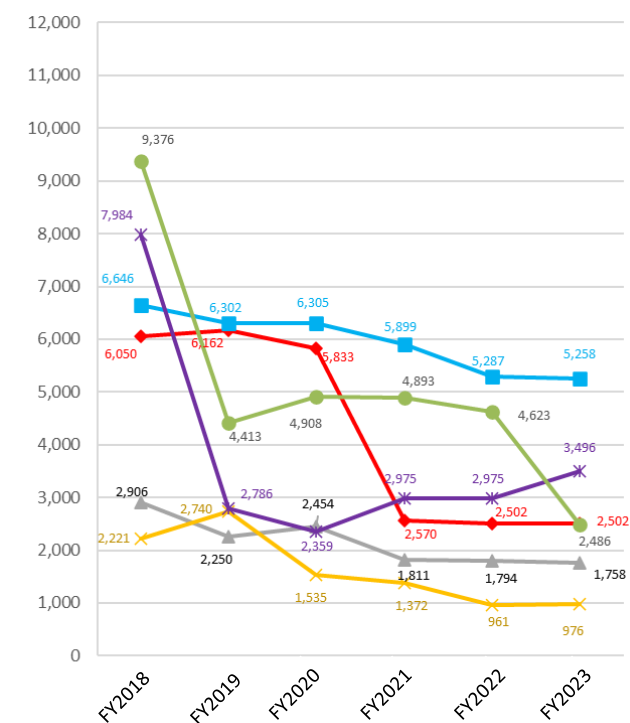
Data: 5 GB per month

(Unit: Yen) (Including tax)



Data: 20 GB per month

(Unit: Yen) (Including tax)

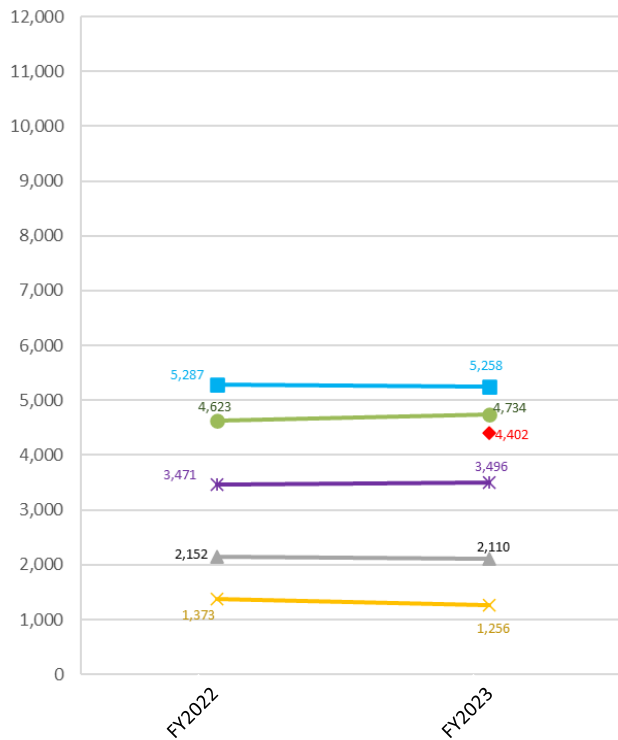


Note: The purchasing power parity values used for currency conversion vary for each fiscal year.



Data: 50 GB per month

(Unit: Yen) (Including tax)



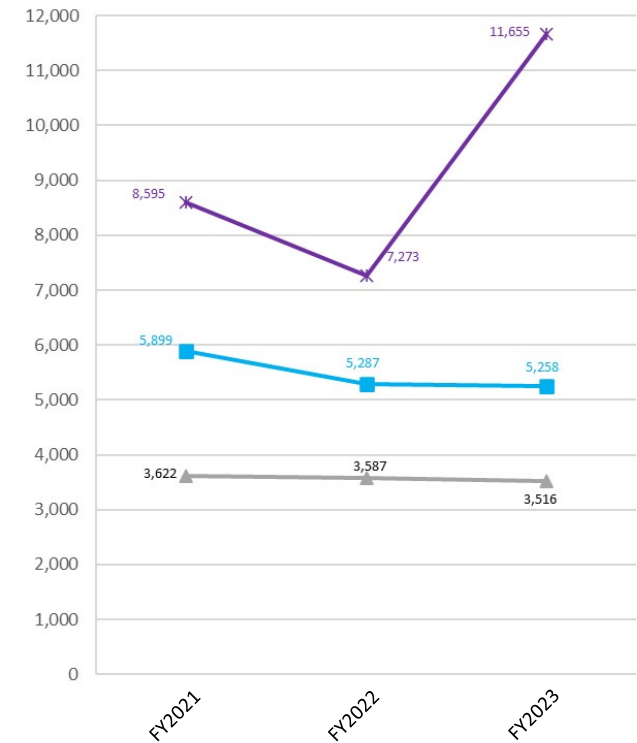
Data: 100 GB per month

(Unit: Yen) (Including tax)



Data: Unlimited per month

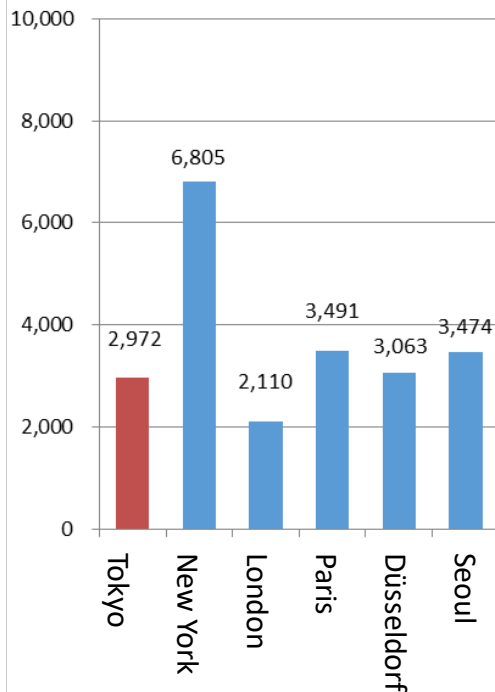
(Unit: Yen) (Including tax)



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- Charges of carriers in Tokyo are in the lower range for 2 GB, 5 GB and 20 GB plans and in the middle range for 50 GB, 100 GB and unlimited plans.

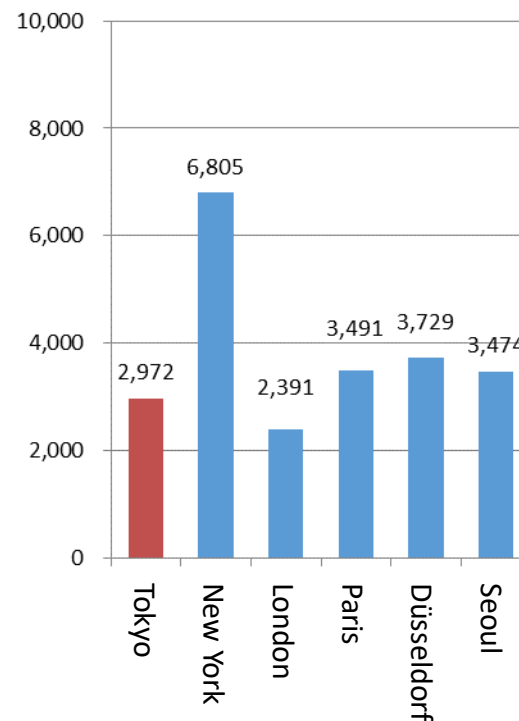
Data: 2 GB per month

(Unit: Yen) (Including tax)



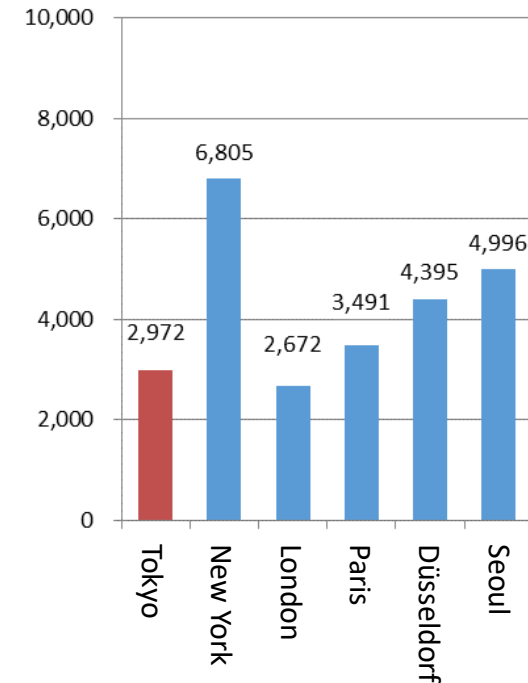
Data: 5 GB per month

(Unit: Yen) (Including tax)



Data: 20 GB per month

(Unit: Yen) (Including tax)

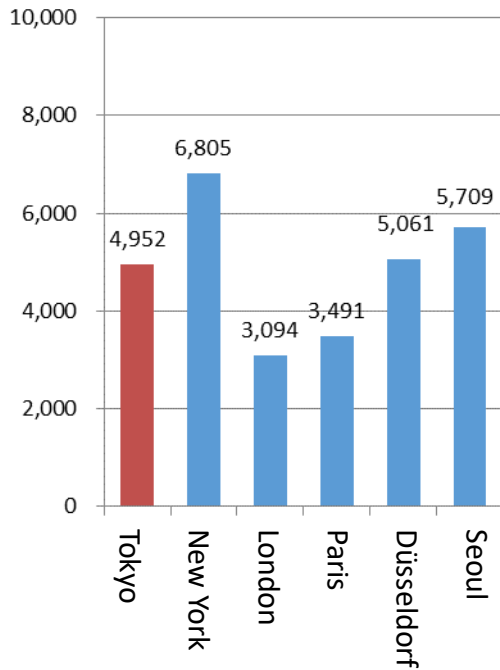


## 4. Smartphone 5G (MNO: Carrier With No. 1 Market Share)

15

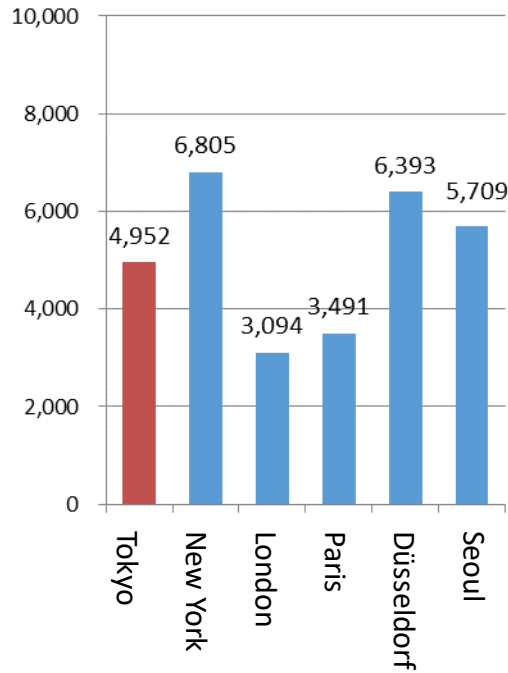
Data: 50 GB per month

(Unit: Yen) (Including tax)



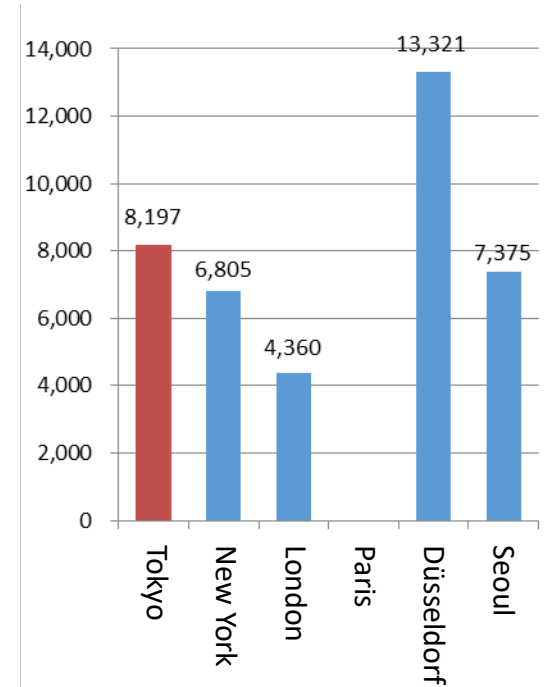
Data: 100 GB per month

(Unit: Yen) (Including tax)



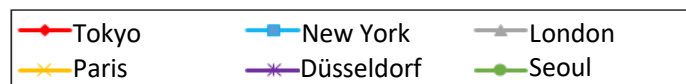
Data: Unlimited per month

(Unit: Yen) (Including tax)



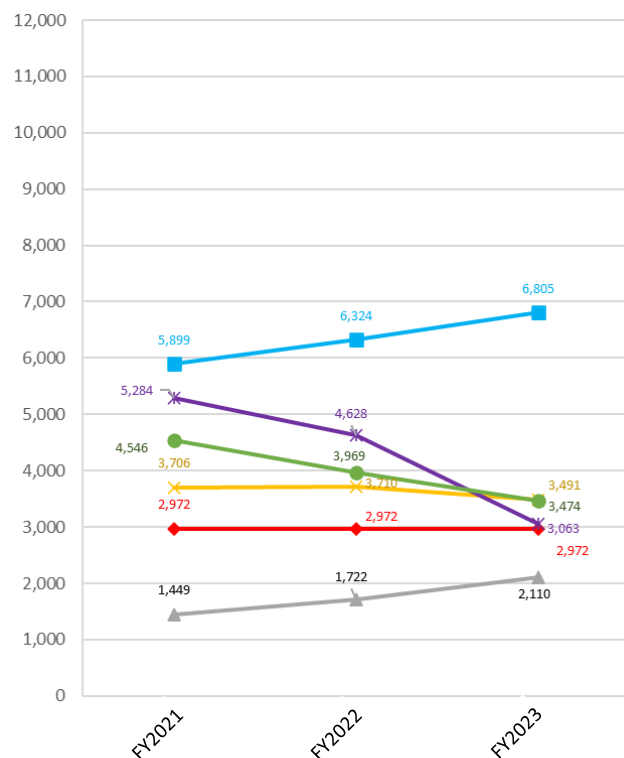
Note: No carriers offered unlimited plans in Paris.





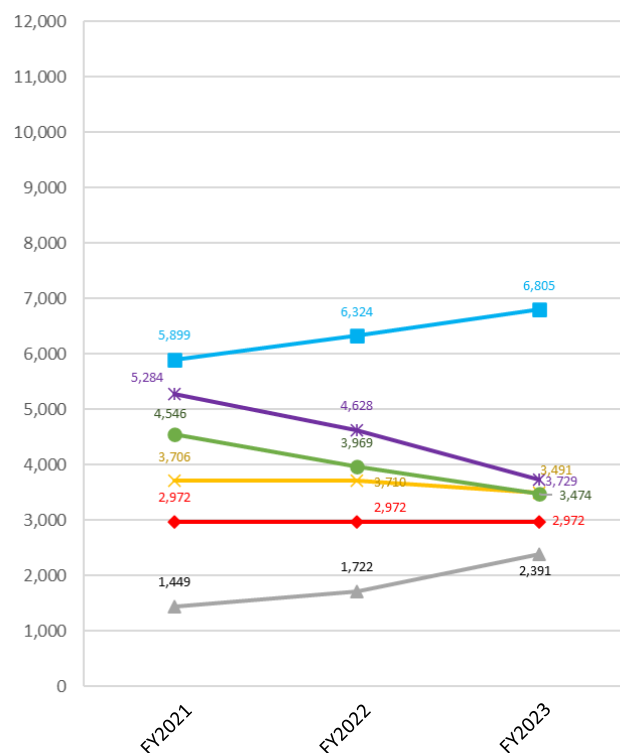
Data: 2 GB per month

(Unit: Yen) (Including tax)



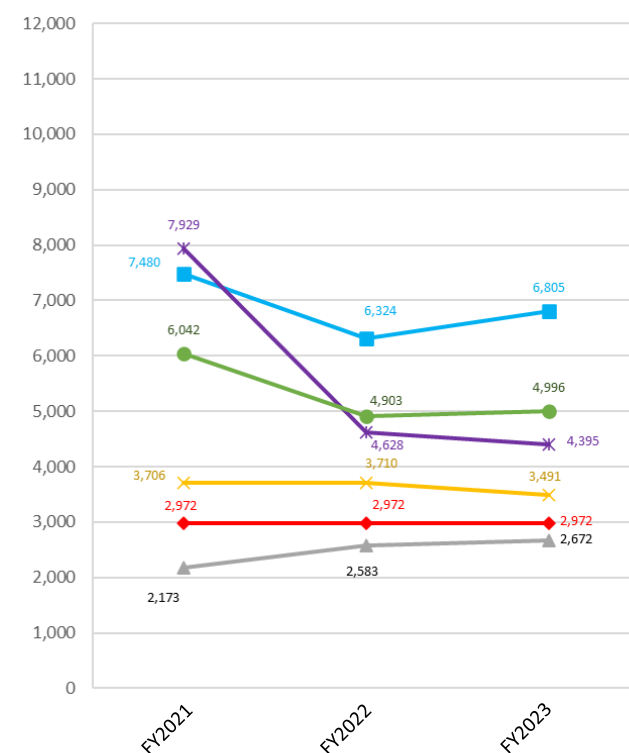
Data: 5 GB per month

(Unit: Yen) (Including tax)



Data: 20 GB per month

(Unit: Yen) (Including tax)



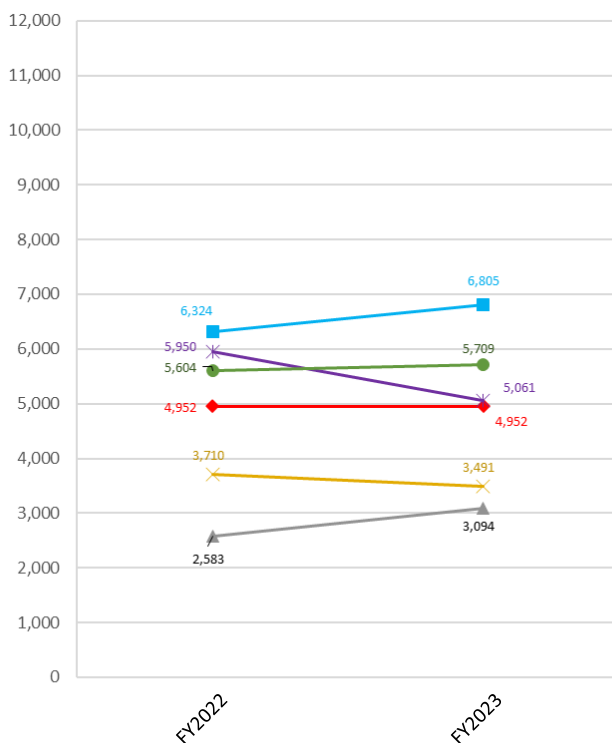
Note 1: The purchasing power parity values used for currency conversion differ for each fiscal year.

Note 2: The survey included monthly 2 GB, 5 GB, 20 GB and unlimited data starting from FY 2021 and monthly 50 GB and 100 GB data starting from FY 2022.



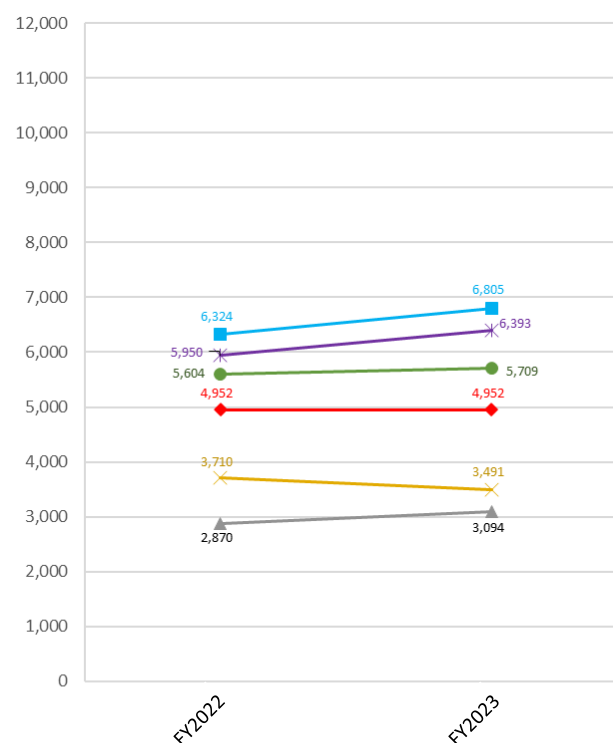
Data: 50 GB per month

(Unit: Yen) (Including tax)



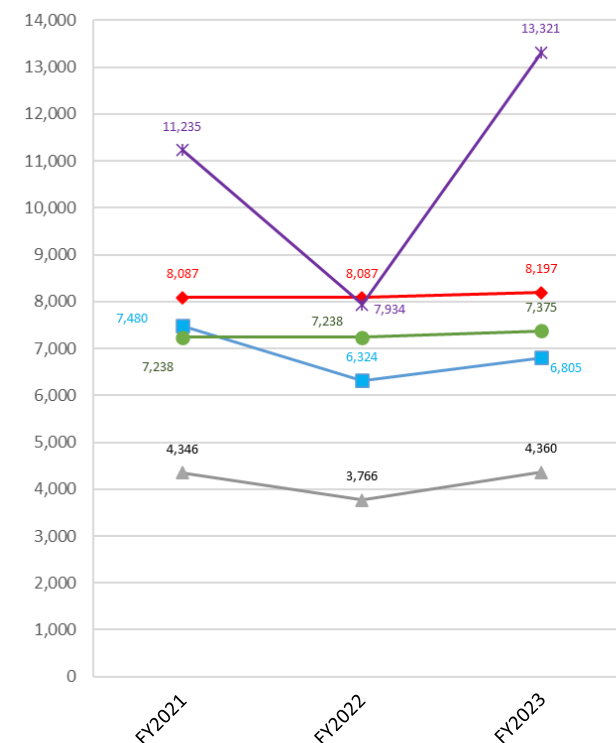
Data: 100 GB per month

(Unit: Yen) (Including tax)



Data: Unlimited per month

(Unit: Yen) (Including tax)



Note 1: The purchasing power parity values used for currency conversion differ for each fiscal year.

Note 2: The survey included monthly 2 GB, 5 GB, 20 GB and unlimited data starting from FY 2021 and monthly 50 GB and 100 GB data starting from FY 2022.

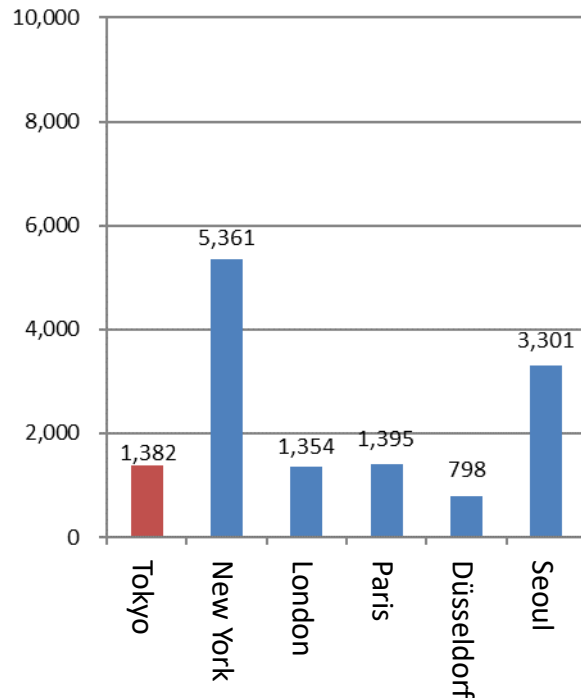
## 5. Smartphone 5G (MNO: Cheapest)

18

- The monthly payment was compared for the most affordable general user rate plan (for new subscriptions) of the top three or four carriers in terms of market share (including sub-brands) based on usage models such as call duration and data allowance.
- Charges of carriers in Tokyo are in the middle range for 2 GB, 5 GB, 20 GB, 50 GB and 100 GB plans and in the lower range for unlimited plans.

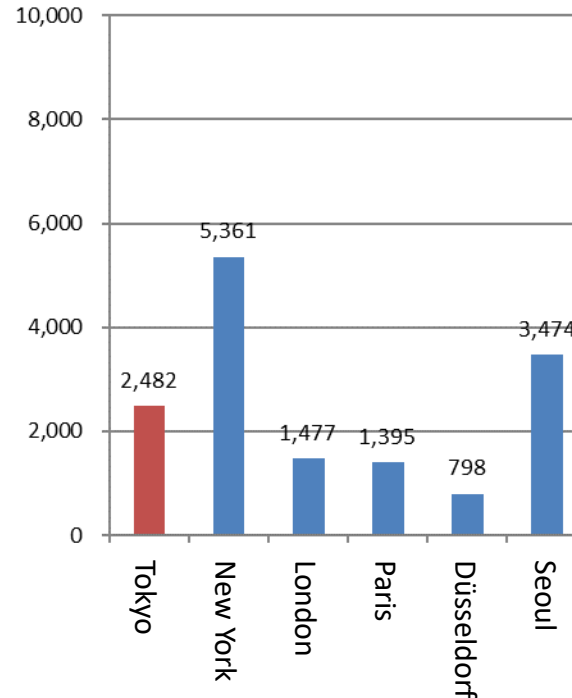
Data: 2 GB per month

(Unit: Yen) (Including tax)



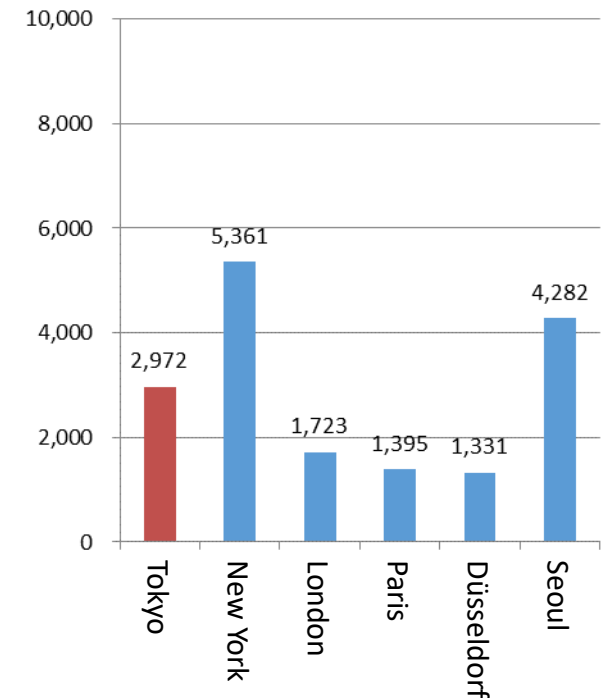
Data: 5 GB per month

(Unit: Yen) (Including tax)



Data: 20 GB per month

(Unit: Yen) (Including tax)

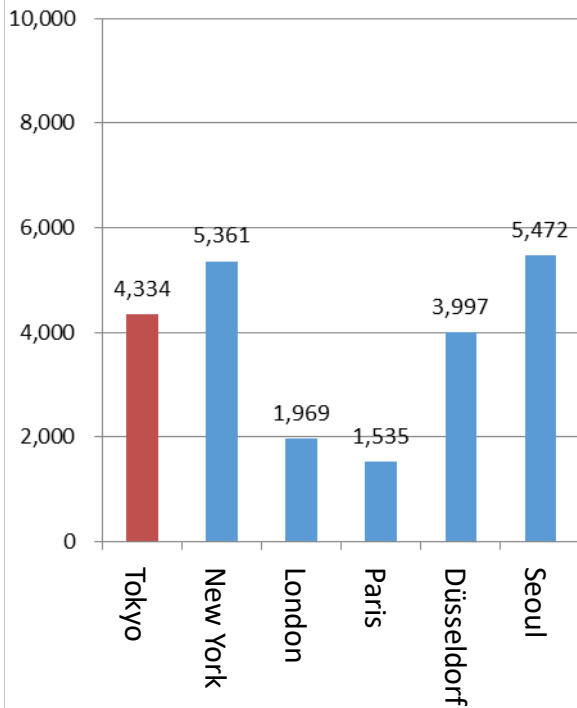


# 5. Smartphone 5G (MNO: Cheapest)

19

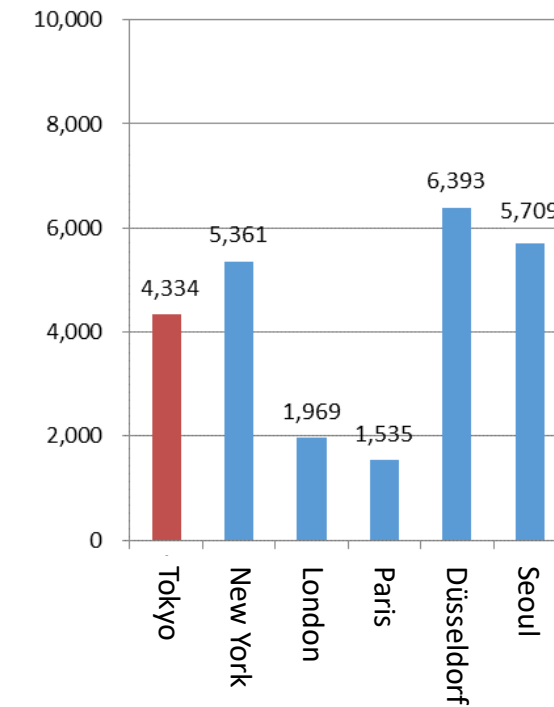
Data: 50 GB per month

(Unit: Yen) (Including tax)



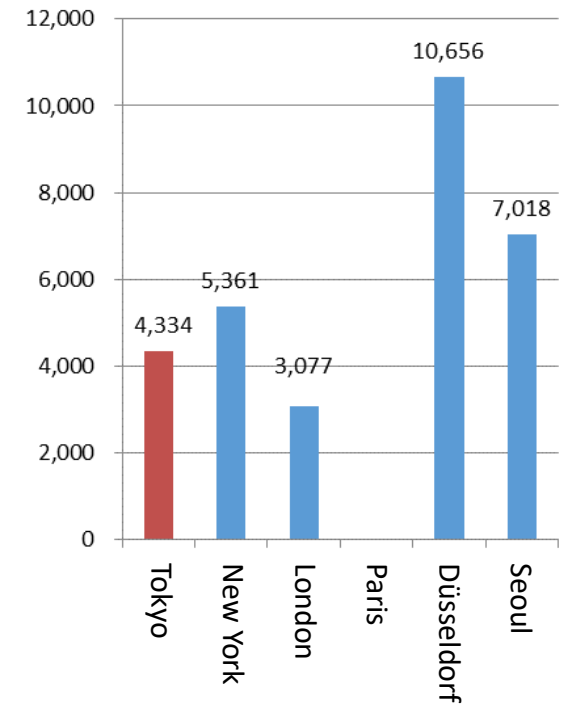
Data: 100 GB per month

(Unit: Yen) (Including tax)



Data: Unlimited per month

(Unit: Yen) (Including tax)

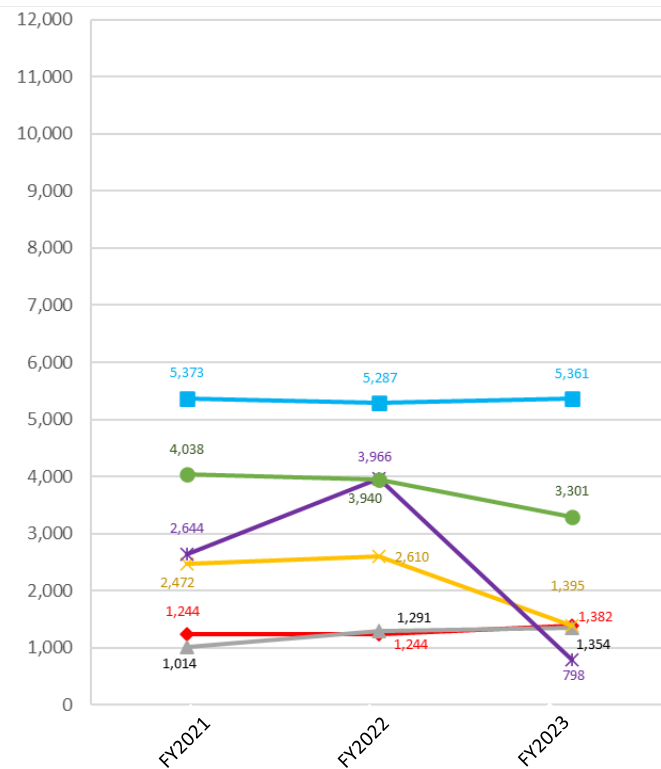


Note: No carriers offered unlimited plans in Paris.



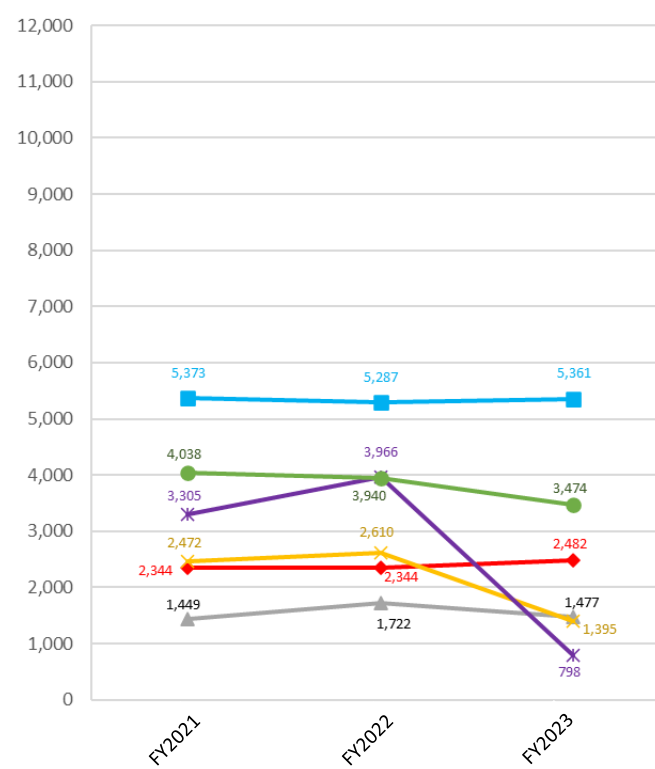
Data: 2 GB per month

(Unit: Yen) (Including tax)



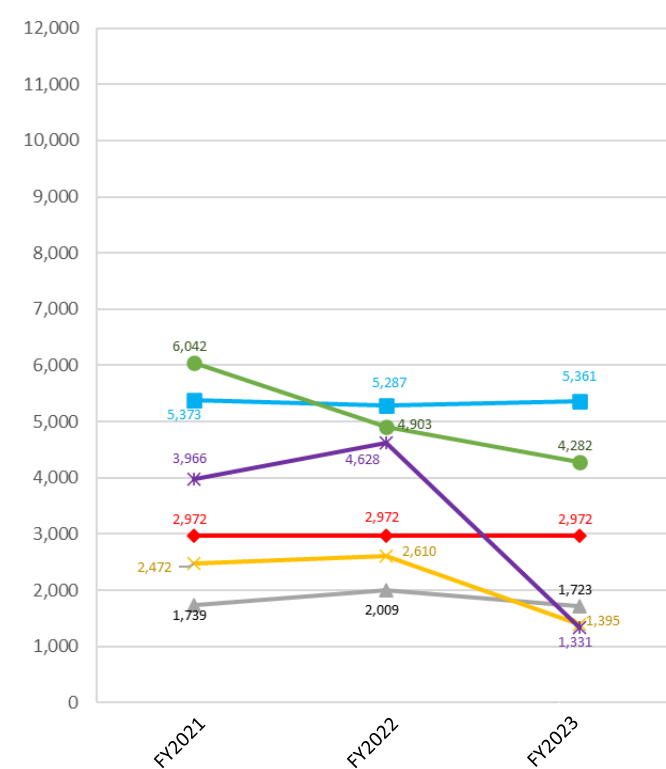
Data: 5 GB per month

(Unit: Yen) (Including tax)

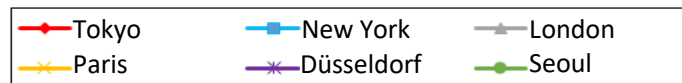


Data: 20 GB per month

(Unit: Yen) (Including tax)

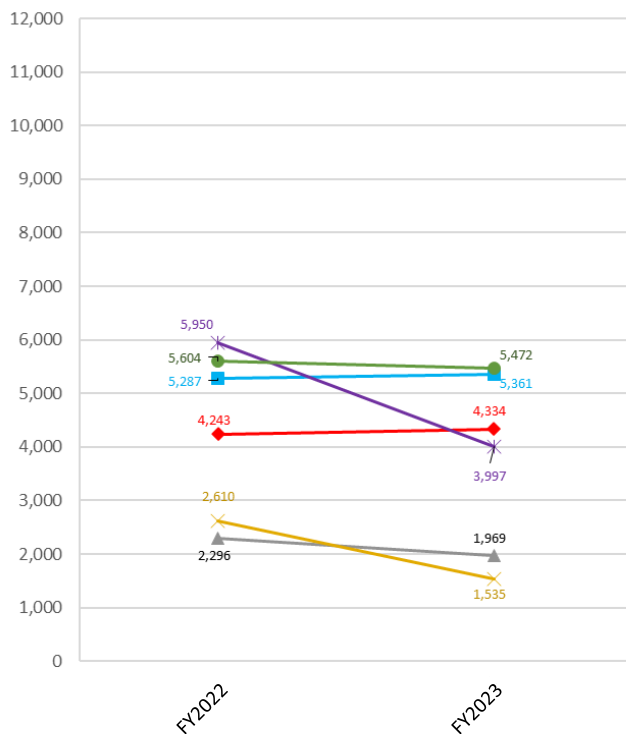


Note: The purchasing power parity values used for currency conversion vary for each fiscal year.



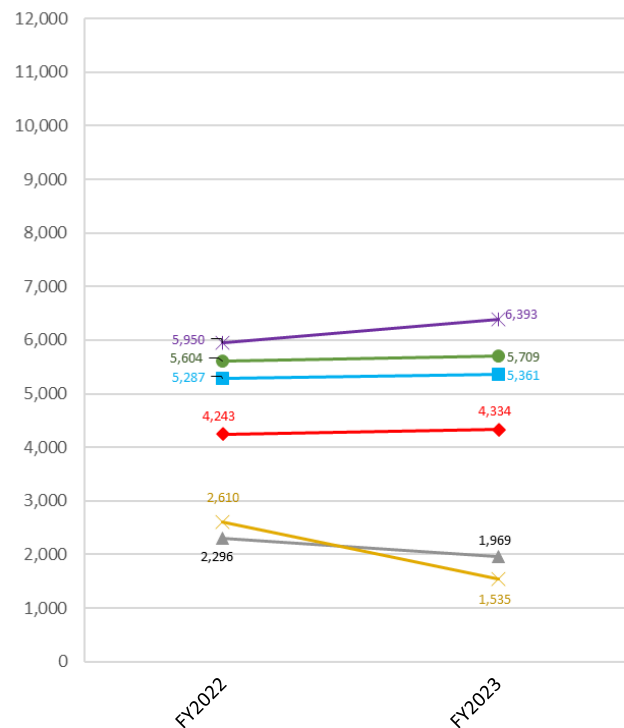
Data: 50 GB per month

(Unit: Yen) (Including tax)



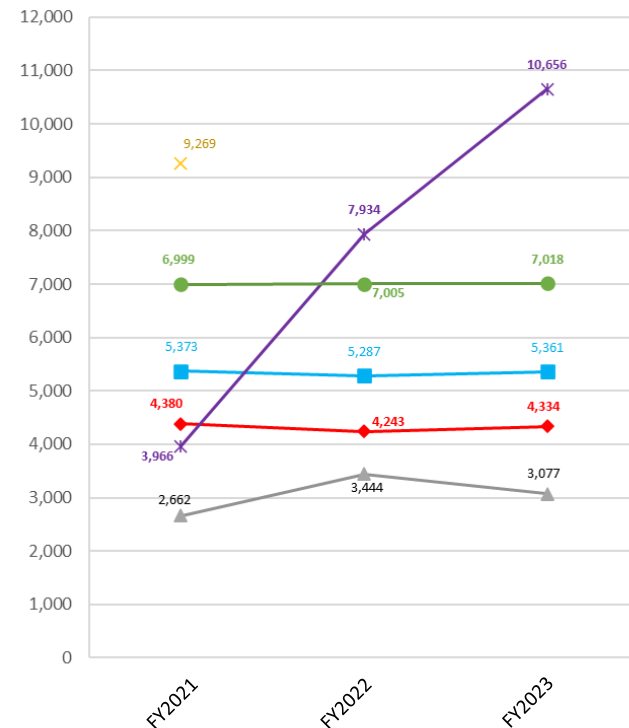
Data: 100 GB per month

(Unit: Yen) (Including tax)



Data: Unlimited per month

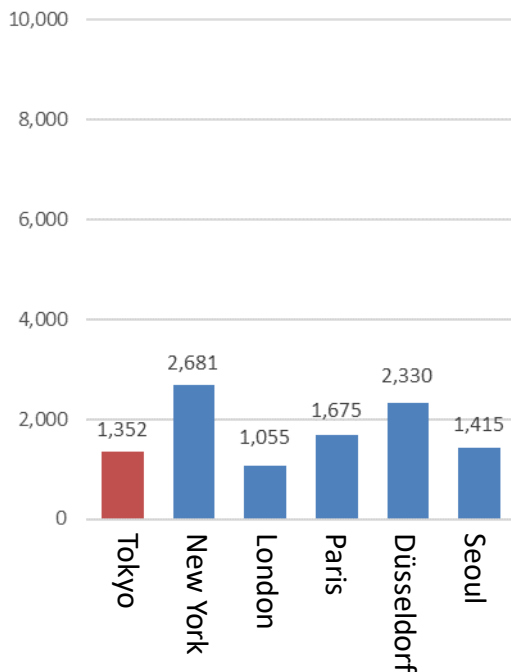
(Unit: Yen) (Including tax)



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- Charges of carriers in Tokyo are in the lower range for the 2 GB and 5 GB plans and in the middle range for the 20 GB and 50 GB plans.

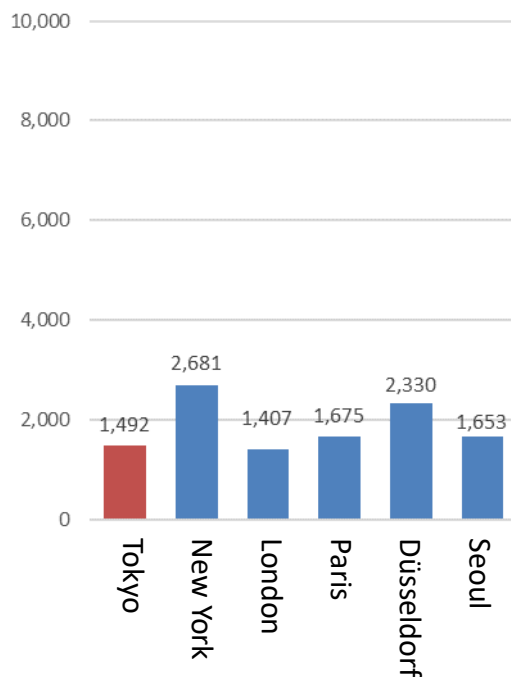
Data: 2 GB per month

(Unit: Yen) (Including tax)



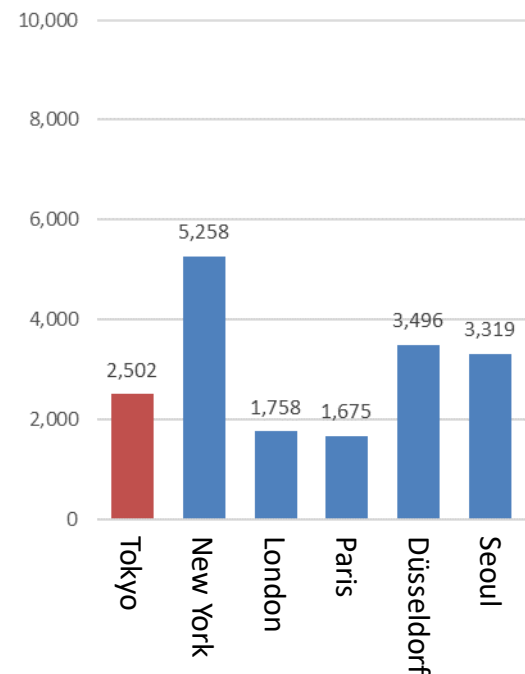
Data: 5 GB per month

(Unit: Yen) (Including tax)



Data: 20 GB per month

(Unit: Yen) (Including tax)

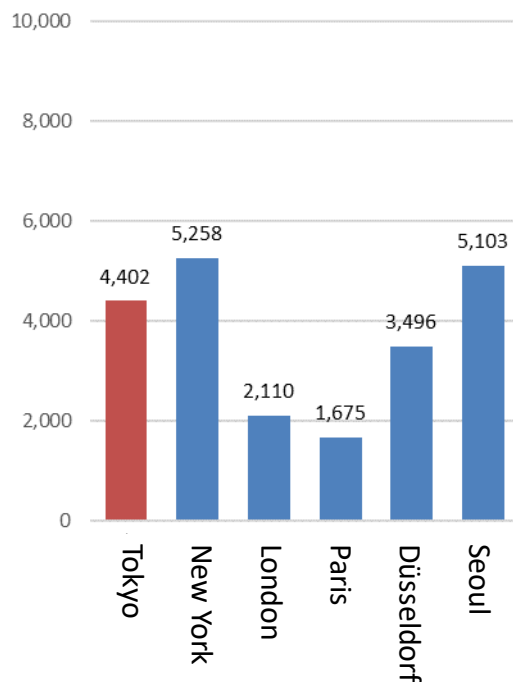


## 6. Smartphone 5G (MVNO)

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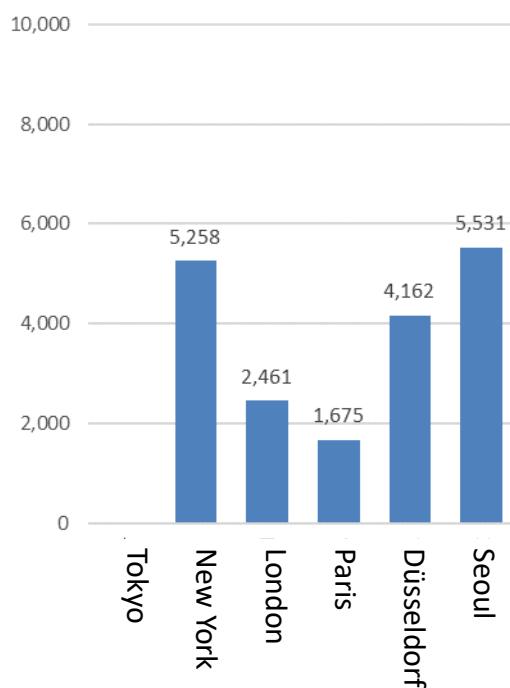
Data: 50 GB per month

(Unit: Yen) (Including tax)



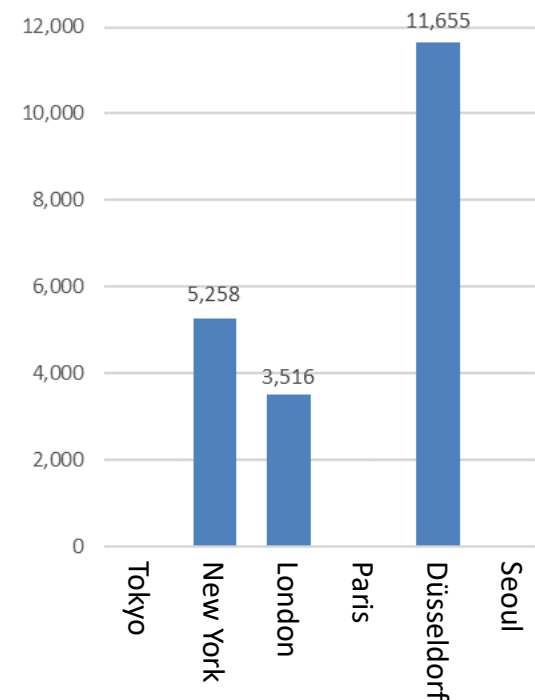
Data: 100 GB per month

(Unit: Yen) (Including tax)



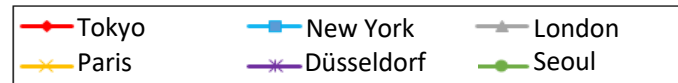
Data: Unlimited per month

(Unit: Yen) (Including tax)



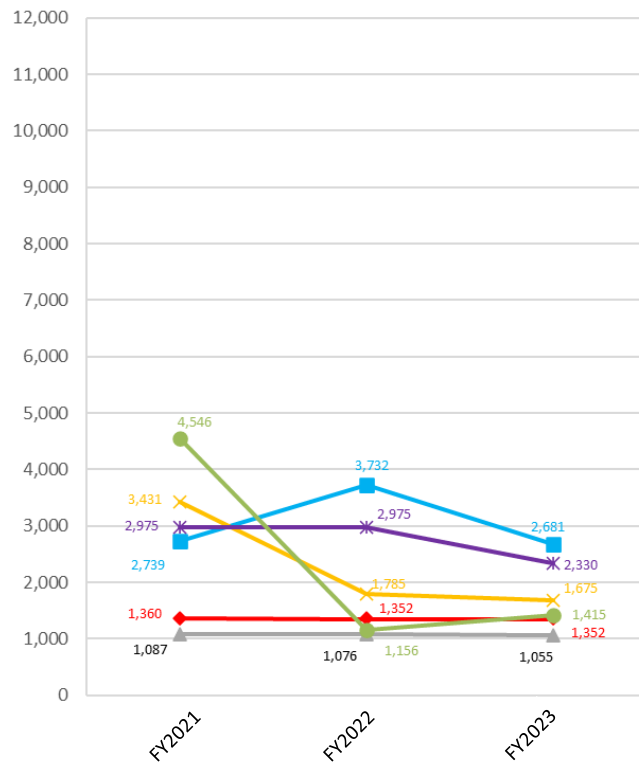
Note: No carriers offered 100 GB/month and unlimited plans in Tokyo, and unlimited plans in Paris and Seoul.





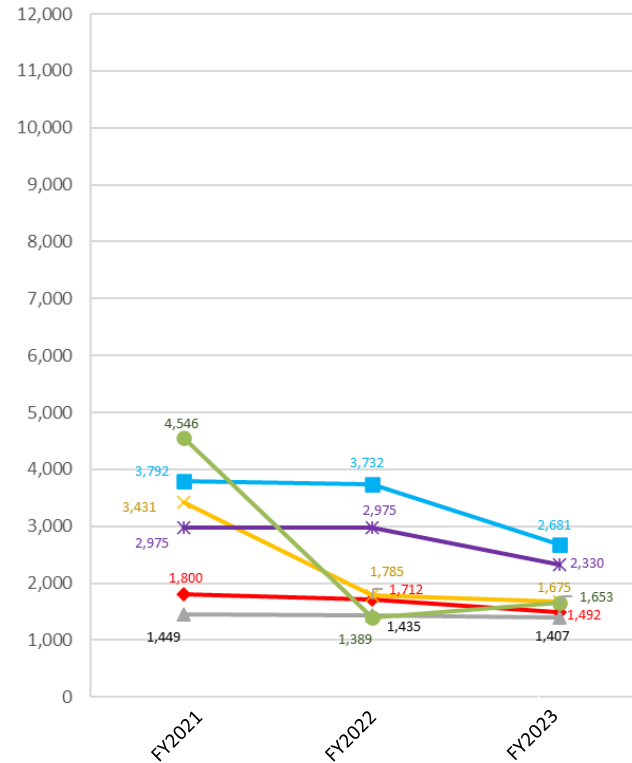
Data: 2 GB per month

(Unit: Yen) (Including tax)



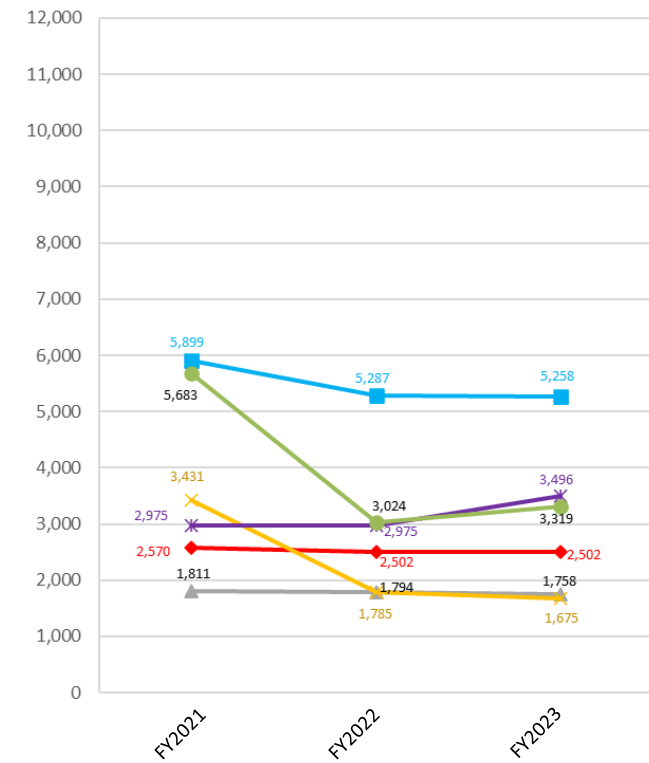
Data: 5 GB per month

(Unit: Yen) (Including tax)

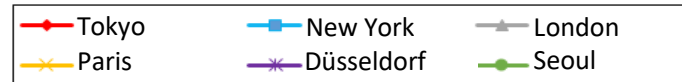


Data: 20 GB per month

(Unit: Yen) (Including tax)

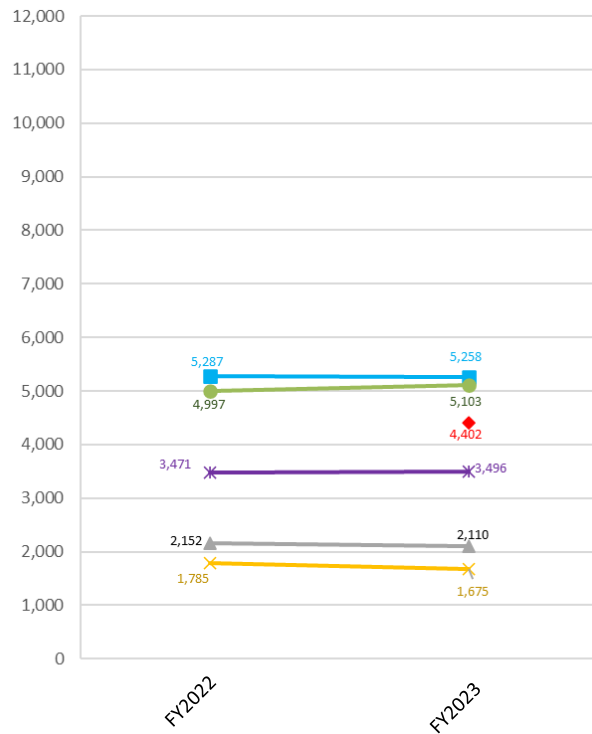


Note: The purchasing power parity values used for currency conversion vary for each fiscal year.



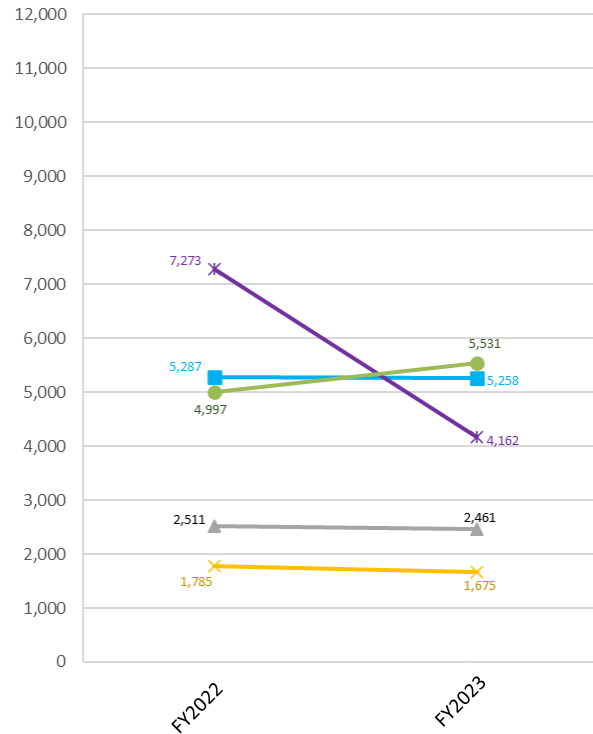
Data: 50 GB per month

(Unit: Yen) (Including tax)



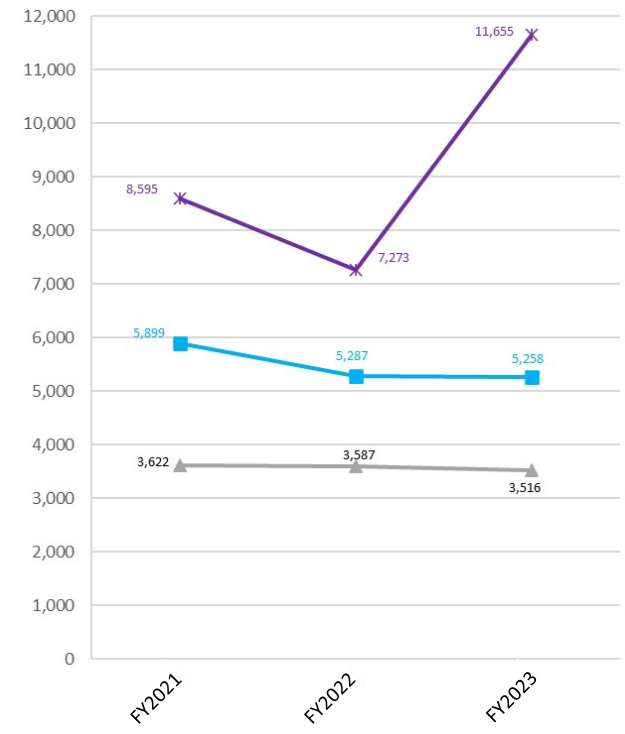
Data: 100 GB per month

(Unit: Yen) (Including tax)



Data: Unlimited per month

(Unit: Yen) (Including tax)



- The monthly charges for Internet access services using FTTH lines from the carrier with the largest market share were compared by adding up the monthly charges for line usage fee (\*), in-home device rental and ISP fees.

(\*) The comparison was based on residential rate plans with a maximum download speed of 100 Mbps (if a plan offers a higher speed for the same charge, then that plan was used. If a plan of 100 Mbps or more is not set, the plan closest to 100 Mbps was used).

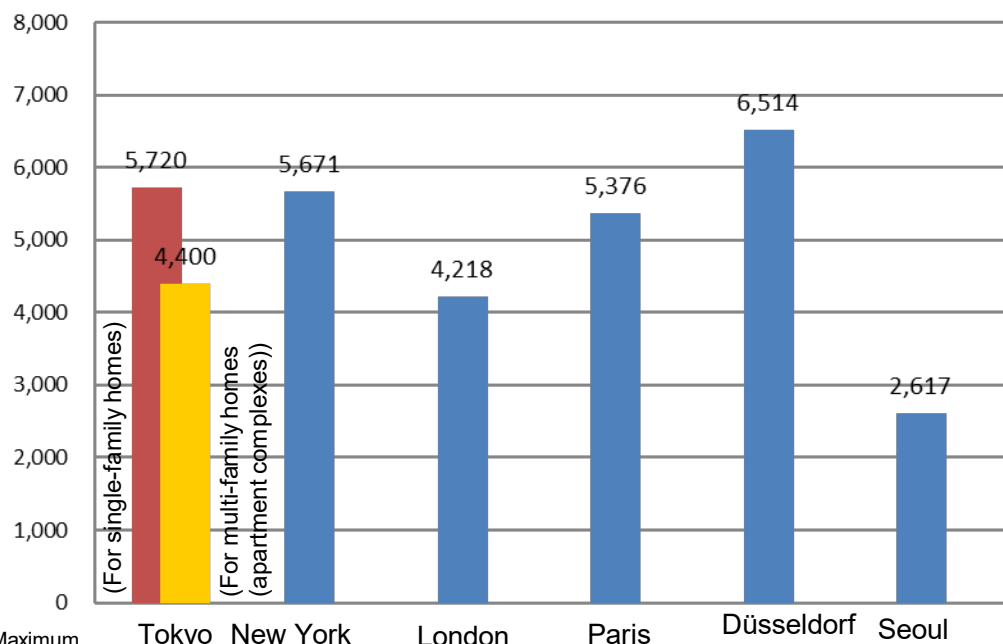
- Carriers in Tokyo (for apartment complexes) have the lowest level charges per Mbps of download speed.

(\*) Carriers in cities other than Tokyo do not have a classification of rate plans based on the type of housing, such as single-family and multi-family homes.

Monthly charges (FTTH line usage fee + in-home device rental fee + ISP fee)

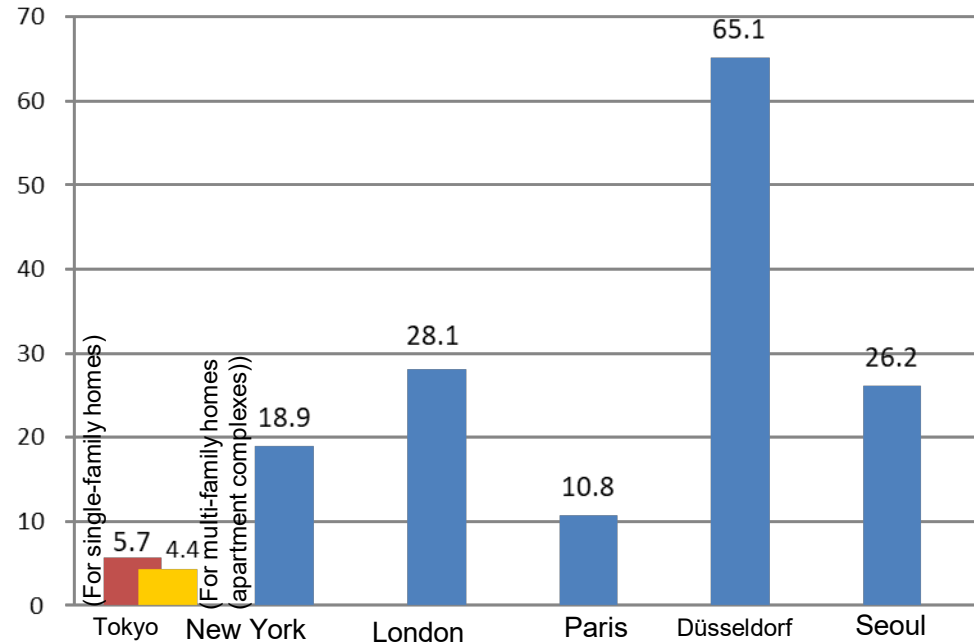
Rate per Mbps

(Unit: Yen) (Including tax)



Maximum  
downlink  
communication  
speed

(Unit: Yen) (Including tax)



1000 Mbps 300 Mbps 150 Mbps 500 Mbps 100 Mbps 100 Mbps

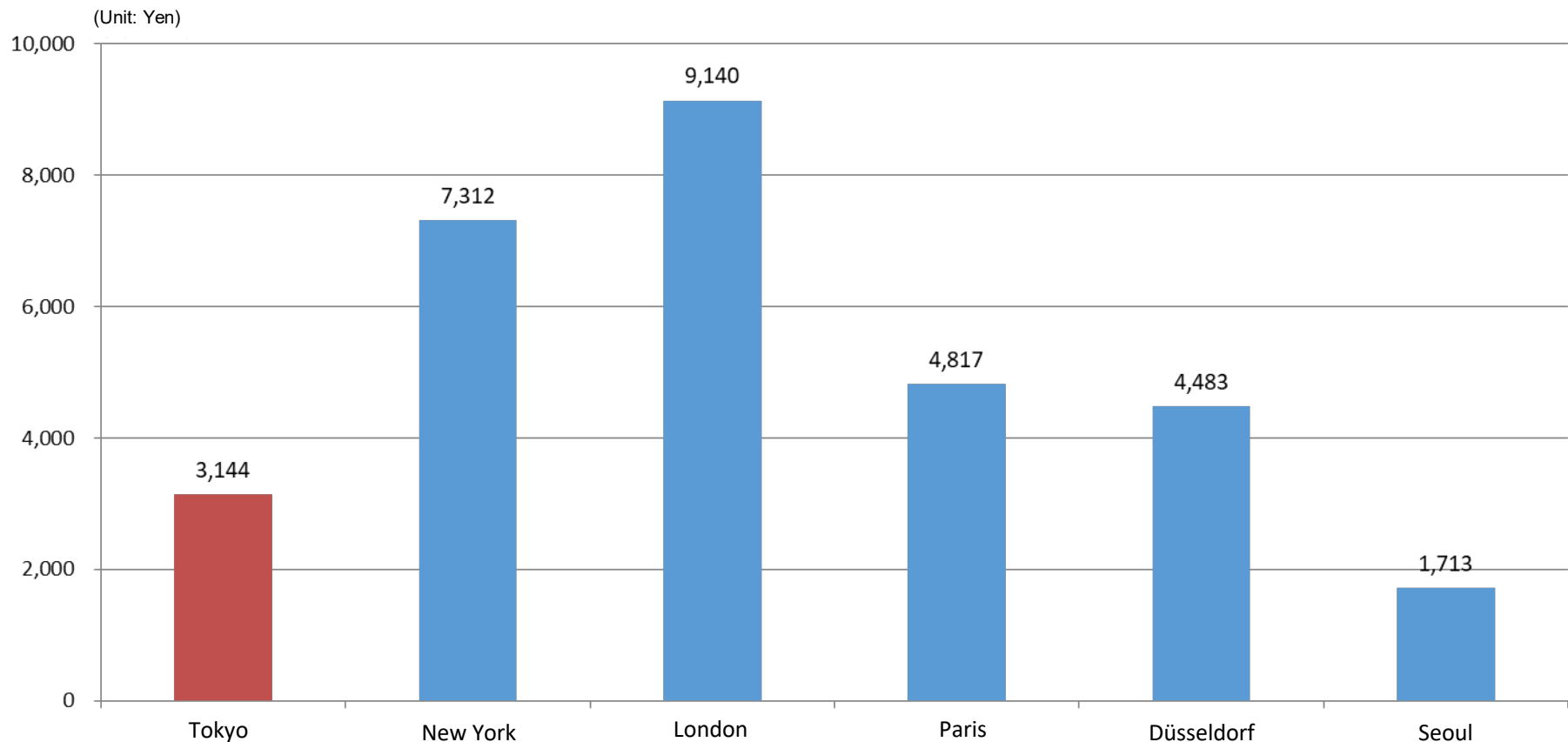
## 8. Landline Telephone

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- Comparison of monthly charges for analog landline telephones equivalent to universal service in each city by the carrier with the largest market share based on usage model (\*).

(\*) Comparison based on the model used by the OECD to compare residential telephone charges in each country (Monthly average: 36 local calls totaling 105 minutes, 9 long-distance calls totaling 45 minutes, and 15 calls on cell phone totaling 30 minutes).

- Charges of carriers in Tokyo are in the lower range.



Note: Since carriers in New York and Düsseldorf are not accepting new subscribers for landline telephone services that use conventional telephone lines, the charges listed are for IP telephone services (including Internet usage fees).

## Carriers covered by the survey

		Tokyo	New York	London	Paris	Düsseldorf	Seoul
Smartphone (MNO) <small>* (1) to (4) is in the order of market share</small>	(1)	NTT DoCoMo	Verizon Wireless	Telefonica UK	Orange (Sosh)	Telefonica Deutschland Holding (Blau)	SK Telecom
	(2)	KDDI (UQ mobile, povo)	T-Mobile US (metro)	BT Group(EE)	SFR (RED)	Vodafone Germany (Otel, SIMon mobile)	KT
	(3)	SoftBank (Y!mobile, LINEMO)	AT&T Mobility	Vodafone UK (VOXI)	Bouygues Telecom (B&YOU)	Telekom Deutschland (Congstar, fraenk)	LG Uplus
	(4)	Rakuten Mobile	-	Three (SMARTY)	Free Mobile	-	-
Smartphone (MVNO)		IJJ	Consumer Cellular	Tesco Mobile	NRJ Mobile (BTBD)	1&1 Drillisch AG	KT M mobile
FTTH		NTT DoCoMo	AT&T Mobility	BT Group	Orange	Telekom Deutschland	KT
Landline telephone		NTT East Japan	Verizon Communications	BT Group	Orange	Telekom Deutschland	KT

\* In principle, the top three to four smartphone (MNO) carriers were selected based on their market share at the time of the survey in March 2024, and the carrier with the highest market share was selected for other.

## Purchasing power parity used for comparison (unit: yen)

	United States (USD)	United Kingdom (Pound)	France (Euro)	Germany (Euro)	South Korea (Won)
Purchasing power parity* (2023)	94.70	140.65	139.68	133.22	0.12

\* Purchasing Power Parity (PPP): <OECD.stat, PPPs and exchange rates> Figures published by the OECD for 2023 were used. The effects and fluctuations of international transactions, such as trade and speculation, are eliminated, allowing for comparisons based on actual economic conditions.

PPP has the advantage of eliminating short-term rate fluctuations, serves as a guideline for long-term rates, and allows values to be obtained that are closer to reality in daily life.