

# OCDE

ORGANISATION DE COOPÉRATION ET  
DE DÉVELOPPEMENT ÉCONOMIQUES

# OECD

ORGANISATION FOR ECONOMIC  
CO-OPERATION AND DEVELOPMENT

DIRECTION DES STATISTIQUES  
STATISTICS DIRECTORATE

Paris, 31 August 1998

VOORBURG GROUP ON STATISTICS  
THIRTEENTH MEETING

Rome, 21-24 September 1998

Producer prices Session 7

**PRICES OF SERVICES TO ENTERPRISES**  
**Part 1: REPORT**

Contribution by Ann Chadeau

The opinions expressed in this paper reflect those of the author and not necessarily those of the OECD nor its Member countries.



## **ENQUIRY ON PRICES OF SERVICES TO ENTERPRISES**

### **ABSTRACT**

The paper summarises results of a two-step OECD enquiry on Member country practices in the field of data collection of prices of services to enterprises. Countries were first asked to report on types of prices collected (list, transaction, mark-up, other) and types of services observed (simple service, composite services, service bundle, other) by ISIC group of service activity. Frequency of pricing and number of price quotations per period were also asked for. Countries which responded to the first part of the enquiry were then asked to indicate for which CPC classes, within each ISIC group, prices are collected. Responses show a large diversity in both service sector coverage and national practices. Some service activities are well covered by a small number of countries, others are poorly covered or not covered at all. Coverage of services products varies among activity groups. There are only a few cases where the service products of an activity group are well covered and then it is only by small number of countries. There is also variation amongst types of prices collected and types of services priced though transaction prices and simple services are reported more frequently. The results of the enquiry could be used to formulate recommendations on priority areas in the service sector and best practices for price data collection.

### **ISSUES PARTICIPANTS MAY WISH TO ADDRESS**

- i. Is the summary correct and accurate? If not, what changes should be introduced?
- ii. Is further information required? If so, what additional information should be asked for?
- iii. Is it desirable and timely to formulate recommendations on priority areas to be covered?
- iv. Is it desirable and timely to formulate recommendations on best practices?
- v. On what issues should future work of the OECD focus?

## INTRODUCTION

1. This report presents the results of the study on prices of services to enterprises carried out by the National Accounts Division of the Statistics Directorate of the OECD. It is presented in two parts: Part 1 contains the Report, Part 2 contains the Tables and the explanatory notes.

2. A first questionnaire was sent out to OECD Member countries in 1997 and a report summarizing the answers received from eight countries was presented at the 1997 meeting of the Voorburg Group on Services (Copenhagen, 15-19 September 1997). At this meeting, the OECD was requested by participants to extend the enquiry on national practices on price data collection to the whole of the OECD area and to gather information on the coverage of service products as well as of service activities.

3. In 1998, the following steps were taken:

- The questionnaire, *Prices of services to enterprises*, initially sent out in 1997, (hereafter referred to as the “1997 questionnaire”), was sent again to countries which had not responded to it, together with the report, *Prices of Services to Enterprises*, based on the answers received in 1997.
- A second questionnaire, *Prices of services to enterprises: identification of prices collected in terms of service products*, (hereafter referred to as the “1998 questionnaire”), was sent to the ten countries which had reported in 1997 that they collected data on prices of services to enterprises. The 1998 questionnaire aims at identifying service products for which prices are collected. Countries were asked to indicate these services in terms of the Central Product Classification (CPC) Version 1.0 when possible, or to describe the service products priced when they do not match a CPC class.

4. Responses to these two questionnaires are summarised in Table 1 - *State of the Enquiry on Prices of Services to Enterprises*. Answers to the 1997 questionnaire have now been received from 22 countries and are summarised in Table 2 - *Prices of services to enterprises: summary of answers to the 1997 questionnaire - Identification of Service Activities*. Answers to the 1998 questionnaire have been received from eight countries and are shown in Table 3 - *Prices of Services to Enterprises: summary of answers to the 1998 questionnaire - Identification of Service Products*.

5. The 1997 questionnaire asks countries to indicate for ISIC Rev.3 service groups or classes, the type of price collected (list, transaction, mark-up price, other), the frequency of pricing (monthly, quarterly, annually), the number of price quotations per period, the type of service priced (simple service, composite service, service bundle, other), the start date of data collection.

6. The 1998 questionnaire establishes the correspondence between those ISIC groups or classes for which prices of services to enterprises are collected (listed in the response to the 1997 questionnaire) and the CPC version 1.0, at the five or occasionally four digit level. The correspondence between ISIC and CPC is that given in the *Draft Central Product Classification (Services Part; Sections 5-9) Version 1.0, ST/ESA/STAT/SER.M/77, 30 October 1996*. Respondents were requested to indicate for which CPC classes price data are collected, or to describe which service products are observed where they do not fit CPC classes.

## RESULTS

### I. Description of summary Tables

#### A. Prices of services to enterprises by service activity

7. Table 2, *Prices of services to enterprises: summary of answers to 1997 Questionnaire - Identification of service activities*, is an updated version of the table in the report, *Prices of Services to Enterprises*, that was presented to the Voorburg Group in 1997. Besides showing the practices of countries that responded in 1998, it also includes information on new surveys conducted by countries which answered in 1997.

- In columns 1 and 2, *ISIC Rev.3, Code, group/class*, codes and headings of groups (three digit level) or classes (four digit level) of the classification are listed.
- In column 3, *Country*, acronyms of countries which report collecting prices of services to enterprises are given.
- In column 4, *type of price collected*, three types of prices are identified, list prices, transaction prices, mark-up prices and a residual category “other” is provided for those prices which do not correspond to any of the three differentiated types of prices:

-- A *list price* is a price or tariff published by the service provider which can be collected by simply reading the list; list prices are gross of any discounts which some customers may be able to negotiate.

-- A *transaction price* is the price actually charged by the producer after deduction of any discounts.

-- A *mark-up price* is calculated by the statistical office by adding a mark-up, reported by the service provider, to the estimated cost of hours of work. This type of price is used for services consisting mainly of labour inputs.

- Column 5, *frequency of pricing*, indicates whether prices are collected monthly (M), quarterly (Q) or annually (A); column 6 shows the *number of quotations* per period.
- In column 7, *type of service priced*, three types of services are identified, a simple service, a composite service, a service bundle; a residual category “other” is provided for those services which do not correspond to any of the three differentiated types.

-- A *simple service* is a standard service often measured in physical quantity units such as ton-miles, number of hours.

-- A *composite service* is a service composed of a number of simple services which are necessarily produced together due to existing regulations, security measures or production processes. The customer is not free to choose to purchase only some of the components of a composite service. Either all are purchased together or none are purchased at all.

-- A *service bundle* is composed of a set of services negotiated between the service provider and the customer. The bundle of services provided may differ according to the customer.

- In column 8, *start date*, the actual or planned date for data collection of prices is indicated.
- *Explanatory notes* at the end of the table give additional information on coverage, type of price collected and type of service priced.

## **B. Prices of services to enterprises by service product**

8. Table 3, *Prices of services to enterprises: summary of answers to the 1998 questionnaire - Identification of service products*, indicates the CPC classes, or other service products which do not match the CPC, for which prices are collected. CPC classes are listed so as to show the correspondence with the ISIC groups given in Table 2.

9. To understand the links between Tables 2 and 3, it should be noted that only those ISIC groups or classes for which price collection was mentioned in the 1997 report are listed in the 1998 questionnaire. This explains why Human health activities (ISIC 851), Veterinary activities (ISIC 852), Social work activities (ISIC 853), Motion picture and video production and distribution (ISIC 921), Library, archives, museums and other cultural activities (ISIC 923), Sporting and other recreational activities (ISIC 924) are not included in the 1998 questionnaire.

10. Table 3 is laid out as follows:

- Columns 1, 2 and 3 are identical to columns 1, 2 and 3 of Table 2. ISIC Rev.3 codes and headings are given in columns 1 and 2, acronyms of countries which collect data on these service activities are given in column 3.
- Columns 4 and 5 list the codes and headings of the CPC version 1.0 corresponding to the ISIC headings given in columns 1 and 2.
- Column 6 indicates the acronyms of countries which are able to identify service products for which prices are collected in terms of the CPC.
- Column 7 indicates service products for which prices are collected but do not fit the CPC classes. The description of services listed in this column repeat the wording used in the responses to the questionnaire.
- Explanatory notes at the end of the table provide additional information on coverage and type of price.

## **II. Comments on results**

### **A. Prices of services to enterprises by service activity**

11. The following comments refer to Table 2. Out of the 22 countries which have answered the 1997 questionnaire, fourteen report that they collect prices of services to enterprises (Australia, Canada, Czech Republic, Finland, France, Germany, Japan, Mexico, Netherlands, New Zealand, Norway, Sweden, United Kingdom, United States.), eight report that they do not as yet collect prices of services to

12. Over a third of the countries which report collecting prices of services to enterprises, collect prices for:

- Hotels, camping sites and other provision of short-stay accommodation (ISIC 551)- 6 countries
- Transport via railways (ISIC 601) - 9 countries
- Freight transport by road (ISIC 6023) - 9 countries
- Sea and coastal transport (ISIC 611) - 8 countries
- Scheduled air transport (ISIC 621) - 9 countries
- National post activities (ISIC 6411) - 8 countries
- Telecommunications (ISIC 642) - 10 countries
- Real estate activities with own or leased property (ISIC 701) - 8 countries
- Real estate activities on a fee or contract basis (ISIC 702) - 7 countries
- Renting of land transport equipment (ISIC 7111) - 8 countries
- Renting of construction and civil engineering machinery and equipment (ISIC 7122) - 6 countries
- Software consultancy and supply (ISIC 722) - 6 countries
- Accounting, book-keeping and auditing activities; tax consultancy (ISIC 7412) - 8 countries
- Architectural and engineering activities and related technical consultancy (ISIC 7421) - 10 countries
- Advertising (ISIC 743) - 7 countries
- Labour recruitment and provision of personnel (ISIC 7491) - 6 countries
- Investigation and security activities (ISIC 7492) - 7 countries
- Building cleaning activities (ISIC 7493) - 8 countries.

13. Prices for some ISIC groups are collected by only one or two countries. This is the case for:

- Activities of other transport agencies (ISIC 6309)
- Financial leasing (ISIC 6591)
- Other credit granting (ISIC 6592)
- Maintenance and repair of office, accounting and computing machinery (ISIC 725)
- Research and development (ISIC 73)
- Business and management consultancy services (ISIC 7414)
- Technical testing and analysis (ISIC 7422)
- Packaging activities (ISIC 7495)
- Veterinary activities (ISIC 852)
- Social work activities (ISIC 853).

14. The frequency of pricing for the activities listed above is either quarterly or monthly. The type of price collected is a transaction price or, slightly less frequently, a list price; mark-up prices and other prices are relatively seldom. The type of service most frequently priced is a simple service. Composite services and, to a lesser degree, service bundles are also priced, sometimes in conjunction with a simple service. The number of price quotations varies widely between countries within each ISIC group and from one ISIC group to another. Most countries started collecting data on prices of services to enterprises during the 1990s. Some countries (Finland, Japan, Mexico, New Zealand) have some data which go back to the 1970s or 1980s.

15. These results could serve as a starting point to define best practices for data collection on prices of services to enterprises. It would appear that there is a preference for simple services, transaction prices and monthly data. A minimum number of price quotations would need to be set for the sample to be statistically significant. These issues could be usefully discussed by participants.

16. New surveys have been launched since 1997 by Australia and United Kingdom on:

- Transport via railways (ISIC 601) - UK
- Sea and coastal transport (ISIC 611) - AL
- Scheduled air transport (ISIC 621) - AL
- Activities of other transport agencies (ISIC 6309) - UK
- Real estate activities with own or leased property (ISIC 701) - UK
- Hardware consultancy, software consultancy and supply (ISIC 721 and 722) - AL
- Software consultancy and supply (ISIC 722) - UK
- Data processing (ISIC 723) - AL
- Data base activities (ISIC 724) - AL
- Accounting, book-keeping and auditing; tax consultancy (ISIC 7412) - AL
- Market research and public opinion polling (ISIC 7413) - UK
- Architectural and engineering activities (ISIC 7421) - AL
- Advertising (ISIC 743) - AL
- Labour recruitment and provision of personnel (ISIC 7491) - AL
- Investigation and security activities (ISIC 7492) - AL
- Building cleaning activities (ISIC 7493) - AL.

17. New surveys are planned by France, Sweden, United Kingdom and United States on:

- Maintenance and repair of motor vehicles (ISIC 502) - UK
- Transport via railways (ISIC 601) - SE
- Freight transport by road (ISIC 6023) - SE
- Scheduled air transport (ISIC 621) - SE
- Cargo handling (ISIC 6301) - UK
- Storage and warehousing (ISIC 6302) - UK
- Telecommunications (ISIC 642) - UK, SE
- Activities auxiliary to financial intermediation, except insurance and pension funding (ISIC 671) - US
- Renting of land transport equipment (ISIC 7111) - FR
- Renting of agricultural machinery and equipment (ISIC 7121) - UK
- Renting of construction and civil engineering machinery and equipment (ISIC 7122) - FR
- Renting of office machinery and equipment (ISIC 7123) - UK
- Renting of other machinery and equipment n.e.c. (ISIC 7129) - FR
- Software consultancy and supply (ISIC 722) - FR
- Architectural and engineering activities and related technical consultancy (ISIC 7421) - FR
- Labour recruitment and provision of personnel (ISIC 7491) - FR.

## **B. Prices of services to enterprises by service product**

18. The 1998 questionnaire was sent to the ten countries which had reported in 1997 that they collected data on prices of services to enterprises. To date, eight countries have answered (Australia, Canada, France, Germany, Japan, New Zealand, United Kingdom, United States).

19. The answers are summarised in Table 3. In column 6, *CPC*, the acronyms of countries are indicated on the line of the CPC class for which prices of services to enterprises are collected. The notes following the table provide additional information on country practices included in the questionnaire



responses. In column 7, *Other*, services which do not match the CPC are described in the terms used by respondents. The description of the service is aligned either with the CPC class to which it comes closest or on a separate line when a correspondence with CPC is not possible.

20. A basic count of CPC classes and “other services” priced shows that, out of a total of 201 CPC classes corresponding to the 46 ISIC groups for which prices are collected, 145 CPC service products are priced. This represents a total coverage of 72 per cent of the CPC services listed in the questionnaire. Prices for 55 “Other services” are also collected. If these are added to the CPC classes, under the assumption that all “other services” correspond to different products, a total of 200 service products are priced by the eight respondent countries together. This does not mean, of course, that each of the eight countries collect data for 200 service products. For countries individually, the number of products priced varies between six (Germany) and a hundred (New Zealand).

21. The figures above give a rough indication of the extent to which services to enterprises are priced. The following detailed review of responses summarised in Table 3 highlights the variability of price data collection by service product and by country for each ISIC service activity group. In some cases, prices are collected but not released for lack of reliability; in other cases, prices of services to enterprises are completed by prices of services to consumers in order to obtain a sufficiently large number of price observations for the price index to be significant; sometimes, only components of the consumer price index are used as a proxy. These practices are indicated in the comments below.

- ***Maintenance and repair of motor vehicles***: Prices are collected by Japan, New Zealand and United Kingdom.
- ***Hotel and motel lodging services***: Prices are collected by New Zealand, United Kingdom, United States. New Zealand uses the CPI as a proxy.
- ***Restaurant, bars and canteens***: New Zealand collects prices for one CPC class and uses the CPI as a proxy. United Kingdom collects prices for canteens only.
- ***Transport services***: Out of six CPC classes for *Railway transport*, prices for five are collected by Australia and New Zealand, though the price index for passenger transport is not published by Australia and the CPI is used as a proxy by New Zealand. Japan collects prices for three CPC classes. United States collects prices for three different service products, one corresponds to a CPC class, the other two fall into the category “other services”. United Kingdom collects prices for all rail freight combined and no price for passenger transport.

Out of eight CPC classes for *Freight transport by road*, prices for seven are collected by Australia and New Zealand, but Australia indicates that only a global road freight index is releasable. United States differentiates between three service products but only one matches a CPC class. Japan collects prices for one CPC class. United Kingdom produces one index for freight forwarding.

Prices for *Transport services via pipelines* are collected by New Zealand for one out of two CPC classes. United States collects prices relating to petroleum products which does not fit a CPC class.

Out of the four CPC classes for *Sea and coastal transport*, prices for two are collected by Australia, one by Germany and Japan. Australia and Germany also collect price data for transport services of freight not identifiable against CPC classes. New Zealand, United States and United Kingdom collect price data on sea and coastal transport of freight which does not fit the CPC breakdown of products.

Out of six CPC classes for *Inland water transport*, prices for two are collected by Japan, for one by New Zealand and United States; New Zealand uses the CPI as a proxy; United States also collects prices for a second group of freight services which does not match the CPC.

Prices for *Scheduled air transport* are collected for all three CPC classes by New Zealand and United States, for two by Japan and for one by Australia and United Kingdom.

Out of four CPC classes for *Non-scheduled air transport*, prices for three are collected by New Zealand. United States collects prices for one single service covering two CPC classes without allowing for a distinction between passenger and freight transport.

Prices for the two CPC classes for *Cargo handling* are collected by Japan and New Zealand. United States collects prices for one of them and also for a second service product which is not singled out in the CPC. United Kingdom includes the prices of these services in a broader category which also includes freight transport by road.

Prices for the three CPC classes for *Storage and warehousing* are collected by Australia, but only one index for “other than grain handling storage” is released. New Zealand collects prices for two CPC classes and United States for one. United States also collects prices for a second group of storage and warehousing services which does not match the CPC.

Out of the four CPC classes for *Travel agencies and tour operators*, prices for two are collected by New Zealand and one by United States.

Prices for the two CPC classes for *Other transport agency services* are collected by United States.

- **Post and telecommunications:** For *National post services*, Germany and Japan collect prices for three out of four CPC classes, New Zealand for two and United Kingdom for one. United Kingdom uses the consumer price for postage as a proxy. Germany collects prices for a fourth group of services which does not match the CPC breakdown. United States collects prices for three types of postal activities which do not fit the CPC classes. Prices for *Courier services* are collected by New Zealand and United Kingdom. United States also collects prices for these services but the classification used does not fit the CPC.

Out of three CPC classes for *Telecommunications*, prices for two are collected by Germany, Japan, New Zealand and United States (one is not yet published), one by Canada. United Kingdom collects prices for two classes of services which do not match the CPC classes.

- **Financial intermediation:** Prices of *Financial intermediation services except investment banking, insurance services and pension services* are collected by New Zealand. Out of the thirteen CPC classes for *Services auxiliary to financial intermediation other than to insurance and pensions*, prices for four are in the process of being surveyed by United States, three are collected by Japan, two by New Zealand.
- **Real estate services:** Out of three CPC classes for *Real estate services involving own or leased property*, prices for two are collected by Australia, one by Japan, New Zealand and United States. United Kingdom collects prices for one group of services covering selling, letting and acquisition of property. New Zealand collects prices for all three classes of *Real estate on a fee or contract basis*, United States for one and also collects prices for two other types of services which do not match the CPC. Australia collects prices for one group of services which does not fit the CPC.

- ***Renting of machinery and equipment without operator:*** Out of five CPC classes for *Leasing or rental services concerning transport equipment without operator*, New Zealand collects prices for four, United States for three, though one is not published, Australia and Japan for one. United Kingdom collects prices for one service which does not fit a CPC class. Prices for *Leasing or rental services concerning other machinery and equipment without operator* are collected for *Agricultural machinery and equipment* and for *Construction machinery and equipment* by Australia, New Zealand and United Kingdom. Japan collects prices for *Construction machinery and equipment*. Australia and Japan also collect prices for *Office machinery and equipment*, for *Computers* and for *Other machinery and equipment*. Australia only releases one plant hiring or leasing index for these CPC classes. United Kingdom collects prices for office machinery and equipment which does not match the CPC breakdown.
- ***Computer and related services:*** Out of five CPC classes corresponding to *Hardware consultancy; Software consultancy and supply* Canada collects prices for all five but releases only one index which covers all. Australia collects prices for three CPC classes, New Zealand for two, Japan for one. United Kingdom and United States collect prices for software products which do not fit the CPC breakdown. Prices for *Data processing services* are collected by Australia, Japan, New Zealand and United Kingdom. Prices for *On-line access services* are collected by Australia, Japan and United Kingdom. Prices for *Other information retrieval and supply services n.e.c.* are collected by Australia and New Zealand; United Kingdom collects prices for disaster recovery services. Prices for *Computer hardware servicing and repair services* are collected by New Zealand.
- ***Research and development:*** New Zealand is the only country to collect prices for one of the three CPC classes in this category.
- ***Legal services:*** Japan and New Zealand collect prices for all five CPC classes in this group. United States collects prices for two categories of legal services which do not match the CPC breakdown. United Kingdom collects prices for legal services as a whole on an experimental basis.
- ***Accounting, book-keeping and auditing activities; tax consultancy:*** Australia collects prices for all eight classes in this group but only releases one global index. France and New Zealand collect prices for six CPC classes, United Kingdom for four, Japan and United States for three. United States also collects prices for two other services belonging to this group and United Kingdom for one, which do not fit the CPC breakdown.
- ***Market research and public opinion polling:*** Japan, New Zealand and United Kingdom collect prices for these services, Australia collects prices for market research only.
- ***Business and management consultancy services:*** New Zealand collects prices for four out of the ten CPC classes in this group.
- ***Architectural and engineering services and related technical consultancy:*** Out of eighteen CPC classes in this group, New Zealand collects prices for nine, Canada for six, Australia and Japan for two. United States collects prices for three service groups and United Kingdom for one, which do not match the CPC classes.

- **Technical testing and analysis:** The CPC distinguishes between five classes for which prices are collected by none of the countries. New Zealand collects prices for only one group of services which does not fit the CPC breakdown.
- **Advertising:** Australia and New Zealand collect prices for all three CPC classes in this group but Australia publishes one global index only. Japan and United States collect prices for one CPC class.
- **Labour recruitment and provision of personnel:** Out of six CPC classes, prices are collected by New Zealand for three and by Japan and United Kingdom for one. United States collects prices for five different services in this group which do not match the CPC breakdown.
- **Investigation and security services:** Out of six CPC classes in this group, prices for all are collected by Australia but only one global index is released. Prices for three are collected by France and New Zealand. Japan collects prices for one CPC class. United States and United Kingdom collect prices for one group of services which does not fit the CPC breakdown.
- **Building cleaning services:** Prices for the four CPC classes are collected by Australia, Japan and New Zealand. France collects prices for three of them. United States and United Kingdom collect prices for one group of services which does not fit the CPC breakdown.
- **Photographic services:** Out of six CPC classes in this group, New Zealand collects prices for three of them and uses the CPI as a proxy for one. United Kingdom collects prices for one service which does not fit the CPC.
- **Packaging services:** Prices are collected by Japan and New Zealand.
- **Other business activities:** Out of eleven CPC classes, New Zealand collects price data for three, Japan and United Kingdom for one. United Kingdom also collects prices for secretarial services not singled out in the CPC.
- **Adult and other education:** New Zealand and United Kingdom collect prices for these services.
- **Sewage and refuse disposal, sanitation and similar services:** Japan collects price data for seven out of nine CPC classes, New Zealand for one. United Kingdom collects prices for two categories of services which do not match the CPC breakdown.

## C. Other information

22. **Quality adjustments:** Australia, Germany, Mexico, New Zealand, United Kingdom and United States, have provided explanations on how quality adjustments are dealt with when pricing services to enterprises. These are copied in the Annex to this report.

23. **Price index:** The price index used is generally a Laspeyres type index.

## SOME CONCLUDING REMARKS

24. The review of responses to the two questionnaires shows that the coverage of the service sector varies considerably between countries. Some have achieved a fairly wide coverage, whereas others

provide a limited coverage or no coverage at all but there are plans for further development. In a significant number of countries prices of services are not collected and there are no plans for price data collection in the short or medium term.

25. Practices of those countries which do collect price data raise a series of questions as to the lessons which can be usefully drawn from national experiences concerning the:

- **Setting of priorities for price data collection.** Prices for the services listed in paragraph 12 are collected by more than one third of respondents. Are they the easiest service categories for which prices can be collected and should they therefore be considered as priority for those countries which do not collect prices? On the other hand, what priority should be given to price data collection for products not yet surveyed?
- **Choice of the type of price.** Transaction prices reflect the price received and charged in service transactions. Should they, on this stand, be preferred to other types of prices? To what extent are other types of prices good proxies? The United Kingdom refers to list prices when discounts are not granted or are rare. CPI components are used as a proxy by New Zealand. It is argued that components of the consumer price index can be used for cost effective reasons when price changes faced by businesses are expected to be similar to price changes faced by households. Under this assumption, when the number of items covered by surveys of prices of services to enterprises is too small to be statistically significant, a mix of prices to enterprises and to households are used. Indirect taxes charged to consumers, included in the CPI, can easily be removed and there are usually no transport costs linked to the supply of services.
- **Choice of the type of service.** Simple services present the advantage of a clear definition which facilitates data collection and serves international comparability. They cannot always be easily identified by producers. When this is the case composite services or service bundles are priced. It may be useful to gain further insight into their content for the assessment of comparability.
- **Setting of a minimum number of quotations per period.** The number of price quotations per period varies considerably between service categories within one country and between countries for the same service. Should a minimum coverage threshold be recommended? If so, on the basis of which criteria should it be defined?
- **Need for additional information.** The information received from OECD Member countries already provides an instructive description of national practices in the field of data collection of prices of services to enterprises. Should additional information be collected in order to strengthen experience sharing between countries? If so, what information is missing?

## **ANNEX**

### **Quality adjustments - Comments by:**

#### **Australia**

In compiling the price indexes we attempt to identify and adjust for changes in the quality of the services priced. This involves regular contact with respondents.

Where changes in services are detected we seek both qualitative and quantitative data e.g. cost data. In general, the quality adjustment reflects the change in the costs of providing the service.

#### **Germany**

Quality adjustments in producer price statistics for services are restricted to cases where a substitution is necessitated because a priced item is no longer offered on the market.

When a replacement of a priced item is necessary, a stipulated procedure for quality adjustment is applied

1. First there is a search for a new variety, which is of the same quality as the one to be replaced or which has only minimal differences in the relevant quality characteristics. The prices of the old and the new variety are then directly compared, that is, the price change is equal to the difference of the observed prices.
2. If a new variety with relevant quality differences has to be selected, there are two possibilities. Either an expert makes an explicit estimation of the money value of the quality difference and this money value is subtracted (quality improvement) respectively added (quality deterioration) to the observed price of the new variety. Or, if an expert judgment is not available, the new variety is brought into the index showing no price change from the previous month. The implication of the link method is that all of the difference in the price between the two varieties is due to quality difference.

#### **Mexico**

The quality adjustments made reflect the change in the cost of the service provided.

Prices are adjusted for quality changes in the following : 551 Hotels; 552 Restaurants, bars and canteens; 642 Telecommunications; 660 Insurance and pension funding; 7111 Renting of land transport equipment; 809 Adult and other education.

#### **New Zealand**

Several strategies are used to minimise the effects of changing quality on price movements:

1. The items to price are generally for simple services and are clearly defined so that changes in quality can be more easily identified and quantified.
2. Respondents are contacted to ensure that questionnaires specify commodities that they are able to price.

3. When quality changes are noted by the respondent, or a change in price occurs, the respondents are contacted. In most cases the respondents are happy to provide further information that is useful in deciding how to deal with the quality change.

Process when a quality change occurs, then :

1. Obtain overlapping prices, which allows a price change for the relevant periods to be calculated. Where overlapping prices are not available then a price change is decided based on available information.
2. Either :
  - 2a. In most cases no change in price is recorded and the commodities are treated as being different and the 'new' commodity is spliced in to replace the old one.
  - 2b. If the respondent notes that the change in quality and a change in price has occurred then either a butt or a spilt (partial splice/butt) is performed. The price change is estimated.

### **United Kingdom**

Our approach is to seek a detailed specification for each service priced. Contributors are then asked to notify us if any aspect of the specification changes. ( An example would be more intensive cleaning services under an office cleaning contract). In addition, when we identify a price change, we check with contributors that there has been no change in specification. Where a change in specification has occurred, we ask contributors to estimate the full costs (including profit) incurred, or saved, by the change. Price relatives are adjusted so that they do not reflect changes in charges that are due to specification changes.

### **United States**

In general, the Producer Price Index is not quality adjusted for changes in technology. The PPI's detailed specification pricing enables quality adjustment for changes in the service provided. When price determining features of the detailed service specification change, a value of the change is ascertained and a calculation is performed to account for this value in relation to the prices or price change reported. If that value of quality adjustment cannot be obtained or is not appropriate, then overlap prices are requested. The overlap prices are from the same time period for the same service but before and after the service change. The PPI uses net transaction prices which generally allow quantity to be held constant. For changes to the input mix of the services priced, the prices are linked showing no price change or linked showing only the amount of price change that is not related to the input mix change, if that can be determined.

## **Prices of services to enterprises**

### **Country abbreviations used**

CA	Canada
US	United States
JA	Japan
AL	Australia
NZ	New Zealand
FR	France
GE	Germany
UK	United Kingdom
NL	Netherlands
SE	Sweden
MX	Mexico
CZ	Czech Republic
NO	Norway
FI	Finland
KO	Korea
BE	Belgium
DK	Denmark
HU	Hungary
IR	Ireland
IT	Italy
PO	Portugal
SW	Switzerland
AU	Austria
GR	Greece
IC	Iceland
LU	Luxembourg
PL	Poland
SP	Spain
TU	Turkey



# OCDE

ORGANISATION DE COOPÉRATION ET  
DE DÉVELOPPEMENT ÉCONOMIQUES

# OECD

ORGANISATION FOR ECONOMIC  
CO-OPERATION AND DEVELOPMENT

DIRECTION DES STATISTIQUES  
STATISTICS DIRECTORATE

Paris, 31 August 1998

VOORBURG GROUP ON STATISTICS  
THIRTEENTH MEETING

Rome, 21-24 September 1998

Producer prices Session 7

**PRICES OF SERVICES TO ENTERPRISES**  
**Part 2: TABLES**

Contribution by Ann Chadeau

The opinions expressed in this paper reflect those of the author and not necessarily those of the OECD nor its Member countries.



## **Prices of services to enterprises**

### **Contents of Part 2 : Tables**

Country abbreviations used .....	2
Table 1 - State of enquiry "Prices of services to enterprises" .....	3
Table 2 - Summary of answers to questionnaire on prices for service activities .....	4
Table 2 - Notes	16
Table 3 - Summary of answers to questionnaire on prices for service products .....	19
Table 3 - Notes	31

**Table 1****State of enquiry "Prices of services to enterprises"**

COUNTRY	Questionnaire on prices for service activities						Questionnaire on prices for service products	
	Collects data	Does not collect data	CPI used as proxy		Plans for future collection	No answer	Sent to	Response received from
			for some items	for all items				
CA	X						X	X
US	X						X	X
JA	X						X	X
AL	X						X	X
NZ	X		X				X	X
FR	X				X		X	X
GE	X						X	X
UK	X				X		X	X
NL	X						X	
SE	X						X	
MX	X							
CZ	X							
NO	X							
FI				X				
KO		X			X			
BE		X						
DK		X						
HU		X						
IR		X						
IT		X						
PO		X						
SW		X			X			
AU						X		
GR						X		
IC						X		
LU						X		
PL						X		
SP						X		
TU						X		

**Prices of services to enterprises****Country abbreviations used**

CA	Canada
US	United States
JA	Japan
AL	Australia
NZ	New Zealand
FR	France
GE	Germany
UK	United Kingdom
NL	Netherlands
SE	Sweden
MX	Mexico
CZ	Czech Republic
NO	Norway
FI	Finland
KO	Korea
BE	Belgium
DK	Denmark
HU	Hungary
IR	Ireland
IT	Italy
PO	Portugal
SW	Switzerland
AU	Austria
GR	Greece
IC	Iceland
LU	Luxembourg
PL	Poland
SP	Spain
TU	Turkey

**Table 2**

**Prices of services to enterprises**

Statistics Directorate

**Summary of answers to questionnaire on prices for service activities**

ISIC Revision 3		Country		Frequency of pricing	Type of service priced	
			Type of price collected		Number of price quotations per period	Start date
Code	Group / Class					
1	2	3	4	5	6	7
502	Maintenance and repair of motor vehicles	UK	List (1) or transaction	Q		Simple service or service bundle (2)
		NZ	Transaction	Q	124	Simple service, composite service (3) or service bundle (4)
		MX	Transaction	M	162	Service bundle Jan./1969
		FI	Transaction (5)	Q	several	Simple service 1990
		JA (6)	Transaction			Simple service Jan./1990
551	Hotels; camping sites and other provision of short-stay accommodation	UK	Transaction (7)	Q	140	Simple service or service bundle (8)
		SE	Transaction	Q	130	Simple service 1995
		US	Transaction	M	863	Simple service Jun./1993
		NZ (9)		Q		Simple service unsure
		MX	List	M	724	Simple service Jan./1969
		FI	Transaction (10)	Q	56	Simple service 1967
552	Restaurants, bars and canteens	UK	Transaction (11)	Q		Simple service or service bundle (12)
		NZ (9)		Q		Simple service unsure
		MX	List	M	459	Simple service Jan./1969
		FI	Transaction (10)	M	56	Simple service 1967
601	Transport via railways	UK	List (13) or transaction (14)	Q		Simple service or composite service (15) Q3 /1997
		US	Transaction	M	26	Simple service Dec./1984
		SE	Transaction	Q	361	Simple service 1998 planned
		AL	Transaction	Q	65	Simple service Jun./1996
		NZ	List or other (16)	Q	74	Simple service 1977
		MX	List	M	178	Simple service Jan./1980
		CZ	Transaction	M	20	Simple service 1/1/1994
		FI	Transaction (10)	M		Simple service 1967
		JA (6)	Transaction			Simple service Jan./1985

6023	Freight transport by road	UK	List (1) or transaction	Q	215	Service bundle (17)	Q1/1992
		US	Transaction	M	290	Service bundle (18)	Jun./1993
		SE	Other (19)	M	1	Composite service	1997
				M	many	Composite service	1998 planned
		NL	Transaction	Q/A	variable	Simple service	
		AL	Transaction	Q	600	Simple service (20) or service bundle (21)	
		NZ	List or transaction	Q	173	Simple service or composite service (22) or service bundle	
		MX	List	M	114	Simple service	Jan./1980
		CZ	Transaction	M	600	Simple service	1/1/1994
603	Transport via pipelines	JA (6)	Transaction			Simple service	Jan./1985
		US	Transaction	M	141	Simple service	Jun./1986
		NZ	Transaction	Q	not priced directly	Service bundle (23)	1977
611	Sea and coastal transport	CZ	Transaction	M	5	Composite service	1/1/1994
		UK	Transaction or other (24)	Q	104	Simple service or Composite service (15)	
		GE	Transaction	M	640	Simple service	1978
		US	Transaction	M	104	Simple service	Jun./1986
		AL	Transaction	Q	198 (25) 77 (26)	Simple service or Composite service	
		NZ	List or transaction	Q	76	Simple service	1977
		MX	List	M	18	Simple service	Jan./1980
		FI	Transaction (10)	M		Simple service	1967
612	Inland water transport	JA (6)	Transaction			Simple service	Jan./1985
		US	Transaction	M	178	Simple service	Dec./1990
		NZ	List or transaction	Q	10	Simple service	
		CZ	Transaction	M	20	Composite service	1/1/1990
621	Scheduled air transport	JA (6)	Transaction			Simple service	
		UK	List (13)	Q	60	Service bundle (27)	Q2/1996
		US	Transaction	M	280	Simple service	Dec./1987
		SE (28)	Transaction	Q		Simple service	1996
			Transaction	Q		Simple service	1998 planned
		AL	Transaction	Q	170 (29)	Simple service	Sept./1996
				Q	134 (30)	Simple service or composite service	
		NZ	List or transaction	Q	138	Simple service or service bundle (31)	
		MX	List	M	113	Composite service	Jan./1969
621		CZ	Transaction	M	5	Simple service	1/1/1990
		FI	Transaction (10)	M		Simple service	1972
		JA (6)	Transaction			Simple service	Jan./1985

622	Non-scheduled air transport	US	Transaction	M	82	Simple service	Jun./1992
		NZ	Transaction	Q/A	23	Simple service	1977
		MX	List	M	23	Composite service including handling	
630 1	Cargo handling	UK	Transaction			Simple service or composite service (not yet defined)	
		US	Transaction	M	116	Simple service	Dec./1991
		NZ	Transaction	Q	28	Simple service or composite service (32)	
		JA (6)	Transaction			Simple service	Jan./1985
630 2	Storage and warehousing	UK	List (1) or transaction	Q		Simple service or composite service (not yet defined)	
		US	Transaction	M	201	Service bundle (33)	Dec./1991
		AL	Transaction	Q	100	Simple service or composite service (34)	
		NZ	Transaction	Q	18	Simple service	1977
		MX	Transaction	M	37	Simple service	Jan./1990
		JA (6)	Transaction			Simple service	Jan./1985
630 4	Travel agencies and tour operators; tourist assistance activities n.e.c.	US	Transaction	M	192	Simple service	Dec./1989
		NZ	Transaction (35)	Q	11	Composite service	
		MX	List	M	22	Simple service	Jan./1969
		FI	Transaction (10)	M	20-30	Simple service	1972
630 9	Activities of other transport agencies	UK	Transaction (36)	Q	100	Service bundle (37)	Q1/1997
		US	?	?	?	?	?
641 1	National post activities	UK	List (38)	Q	14	Simple service	Q1/1996
		US	Transaction	M	24	Simple service	Jun./1988
		GE	List	M	81	Simple service	1950
		NZ	List or transaction	Q	17	Simple service	1977
		MX	List	M	40	Simple service	Jan./1980
		CZ	List	M	20	Simple service	1/1/1990
		FI	Transaction (10)	M		Simple service	1951
		JA (6)	Transaction			Simple service	Jan./1985
641 2	Courier activities other than national post	UK	List (1) or transaction	Q	149	Simple service	Q1/1996
		US	Transaction	M	198	Simple service	Dec./1987
		NZ	Transaction	Q	4	Simple service	1977
642	Telecommunications	UK	List (1) or transaction	Q		Composite service (39)	Q2 /1997 planned
		US	Transaction	M	1265	Service bundle (40)	Jun./1995
		GE	List	M	156	Simple service	1950
		SE	Other (41)			Simple service	1998 to be



						tested
		NZ	List or transaction	Q	42	Simple service 1977
		CA	Transaction	M		Service bundle (42) 1996
			Transaction	A		Service bundle (43) 1992
		MX	List or transaction	M	707	Simple service Jan./1980
		CZ	List	M	40	Simple service 1/1/1990
		FI	Transaction (10)	M		Simple service 1951
		JA (6)	Transaction			Simple service Jan./1985
6519	Other monetary intermediation	NZ	Transaction (44)	Q	88	Simple service 1977
		MX	List	M	88	Simple service Jan./1969
		CZ	Transaction	M	60	Simple service 1/1/1990
		FI	Transaction (10)	M		Simple service 1981
6591	Financial leasing	CZ	Transaction	M	20	Simple service 1/1/1994
6592	Other credit granting	MX	Transaction	M		Apr./1995
660	Insurance and pension funding, except compulsory social security	MX	List or transaction	M	25	Service bundle Jan./1969
		CZ	Model cases	M	40	Composite service 1/1/1994
		FI	List (10)	M		Simple service 1981
671	Activities auxiliary to fin. intermediation, except ins. and pension funding	US				Jul./1998 planned
		NZ	Transaction and other (45)	M,Q	3	Simple service 1977
		MX	List	M	7	Jan./1969
		JA (6)	Transaction			Simple service Jan./1985
701	Real estate activities with own or leased properties	UK	Transaction	Q	2263	Composite service Q1 /1997
		US	Transaction	M	612	Service bundle (46) Dec./1995
		AL (47)	Transaction	Q	300	Simple service Jun./1995
		NZ	Transaction	Q/A	530	Simple service 1977
		MX	Transaction	M	1500	Simple service Jan./1990
		CZ	Transaction	M	80	Simple service 1/1/1994
		FI	Transaction (48)	Q	5000	Simple service 1970
		JA (6)	Transaction			Simple service Jan./1985
702	Real estate activities on a fee or contract	US	Transaction	M	1115	Simple service Dec./1995
		SE	Transaction	A		Simple service 1994

	basis	(49)				experimental 1996 full scale
		AL	Transaction		1500 +	Sept./1989
		NZ	Transaction (50)	Q	26	Simple service 1977
		MX	Transaction	M	10	Simple service Jan./1990
		CZ	Transaction	M	90	Simple service 1/1/1994
		FI	Transaction (10)	Q	3000 15000	Simple service 1925 Simple service 1961
711 1	Renting of land transport equipment	UK (51)	List	Q		Simple service Apr./1996
		US	Transaction	M	212	Service bundle (52) Jun./1991
		AL	Transaction	M/Q	150	Simple service (53) or service bundle (54) 1998 planned
		FR				
		NZ	Transaction	Q	31	Simple service or composite service (55)
		MX	List	M	24	Simple service Jan./1980
		CZ	Transaction	M	200	Simple service 1/1/1994
		JA (6)	Transaction			Simple service Jan./1985
712 1	Renting of agricultural machinery and equipment	UK				Q1/1998 planned
		AL	Transaction	Q		Service bundle (56) Jun./1996
		NZ (57)	Transaction	Q	97	Simple service or composite service (58)
		MX	List	M	10	Service bundle Jan./1980
712 2	Renting of construction and civil engineering ma- chinery and equipment	UK	Transaction (59)	Q	1300	Simple service Q1/1996
		AL	Transaction	Q		Service bundle (56) Jun./1996
		FR				1998 planned
		MX	List	M	7	Service bundle Jan./1980
		CZ	Transaction	M	70	Simple service 1/1/1994
		JA (6)	Transaction			Simple service Jan./1985
712 3	Renting of office machinery and equipment	UK				Q1/1998 planned
		AL	Transaction	Q	110	Service bundle (56) Jun./1996
		MX	Transaction	M	21	Service bundle Jan./1980
		JA (6)	Transaction			Simple service Jan./1985
712 9	Renting of other machinery and equipment n.e.c.	AL	Transaction	Q		Service bundle (56) Jun./1996
		FR				1998 planned
		MX	Transaction	M	32	Service bundle Jan./1980
		CZ	Transaction	M	40	Simple service 1/1/1994
		JA (6)	Transaction			Simple service Jan./1985
721	Hardware	CA	Mark-up	A	60 (60)	Composite service (61) 1993

+ 722	consultancy Software consultancy and supply					
		AL	Transaction	Q	32	Simple service or composite service
		NZ	Transaction	Q	9	Simple service 1977
		NO	Transaction	Q	3	not yet published
722	Software consultancy and supply					
		UK	Transaction (62)	Q	140	Simple service or other (62) Q1/1997
		US	Transaction	M		Service bundle (63)
		FR				1998 planned
		MX	Transaction	M	1	Service bundle Jan./1997
		CZ	Mark-up	M	250	Simple service 1/1/1994
		JA (6)	Transaction			Simple service Jan./1985
723	Data processing					
		AL	Transaction	Q	30	Simple service or service bundle
		NZ	Transaction	Q	15	Simple service 1977
		CZ	Transaction	M	20	Simple service 1/1/1994
		JA (6)	Transaction			Simple service Jan./1985
724	Data base activities					
		UK (64)	Transaction	Q		Simple service
		AL	Transaction	Q	20	Simple service or composite service
		NZ	Transaction	Q	3	Simple service 1977
		JA (6)	Transaction			Simple service Jan./1985
725	Maintenance and repair of office, accounting and computing machinery					
		NZ	List or transaction	Q	8	Simple service 1977
729	Other computer- related activities					
		UK	Transaction	Q	6 (65), 5 (66)	Simple service or composite service
		MX	List	M	54	Simple service Jan./1997
		NZ	Transaction	Q	13	Simple service 1977
73	Research and development					
		NZ	Transaction	Q	2	Simple service 1977
741 1	Legal activities					
		US	Transaction	M	650	Service bundle (67) Dec./1996
		UK	Model prices (68)	Q	36	Composite service (69) Q1/1997
		NZ	Transaction	Q	85	Simple service or composite service
		MX	List or transaction	M	12	Composite service Jan./1994
		JA (6)	Transaction			Simple service Jan./1985
741 2	Accounting, book-	UK	Model prices (70)	Q	160	Composite service (69) Q3/1996

	keeping and auditing activities; tax consultancy	US	Transaction	M	257	Service bundle (71)	Jun./1995
		AL	Transaction	Q	2911	Simple service or composite service	
		FR	Transaction	A	2400	Composite service (72)	July/1997 under development
		NZ	Transaction	Q	52	Simple service or composite service	
		MX	List or transaction	M	7	Composite service	Jan./1994
		CZ	Mark-up	M	150		1/1/1994
		JA (6)	Transaction			Simple service	Jan./1985
7413	Market research and public opinion polling	UK	Mark-up	Q	110	Composite service	Apr./1998
		AL	Transaction	Q	20	Simple service or composite service	
		NZ	Transaction	Q	2	Simple service	1977
		JA (6)	Transaction			Simple service	Jan./1985
7414	Business and management consultancy activities	NZ	Transaction	Q	26	Simple service	1977
7421	Architectural and engineering activities and related technical consultancy	UK (73)	Model prices	Q	109	Composite service (69)	Q3/1996
		US	Transaction	M	565	Service bundle (74)	Dec./1995
		AL	Transaction	Q	40	Simple service or service bundle (75)	
		CA	Mark-up	A	250	Composite service (61)	1989
		FR	Transaction	Q			1998 planned
		NZ	Transaction	Q	6	Simple service	1977
		MX	Mark-up	M	1	Composite service	Jan./1994
		CZ	Mark-up	M	85	Composite service	1/1/1994
		NO	Transaction	Q	3		not yet published
7422	Technical testing and analysis	JA (6)	Transaction			Simple service	Jan./1985
743	Advertising	NZ	Transaction	Q	15	Simple service	1977
		NO	Transaction	Q	3		not yet published
		US	Transaction	M	196	Service bundle (76)	Jun./1995
		AL	Transaction	Q	20	Simple service or composite service	
		NZ	Transaction	Q	44	Simple service or composite service	
		MX	List	M	47	Simple service	Jan./1994
		CZ	Transaction	M	30	Composite service	1/1/1994
		NO	Transaction	Q	3		not yet published
		JA (6)	Transaction			Simple service	Jan./1985

749 1	Labour recruitment and provision of personnel	UK	Mark-up or transaction (77)	Q	300	Simple service	Q1/1997
		US	Transaction	M	67	Simple service	Jun./1994
		AL	Transaction	Q	20	Composite services	under development
		FR	Transaction	M	1000	Simple service	1998 planned
		NZ	Transaction	Q	11	Simple service	1977
		JA (6)	Transaction			Simple service	Jan./1990
749 2	Investigation and security activities	UK	List or transaction (1)	Q	113	Simple service or composite service (78)	
		AL	Transaction	Q	24	Simple service or composite service	
		FR	Transaction	Q	450	Composite service (79)	
		NZ	Transaction	Q	12	Simple service or service bundle (80)	
		MX	Mark-up	M	4	Simple service	Jan./1997
		CZ	Mark-up	M	30	Simple service	1/1/1994
		JA (6)	Transaction			Simple service	Jan./1985
749 3	Building cleaning activities	UK	List or transaction (1)	Q	194	Simple service or composite service (81)	
		US	Transaction	M	157	Service bundle (82)	Dec./1994
		AL	Transaction	Q	22 (83) 84 (84)	Simple service or composite service	
		FR	Transaction	Q	300	Composite service (85)	1995
		NZ	Transaction	Q	20	Simple service	1977
		MX	Mark-up	M	4	Service bundle	Jan./1997
		CZ	Transaction	M	30	Simple service	1/1/1994
		JA (6)	Transaction			Simple service	Jan./1985
749 4	Photographic activities	UK	List or transaction (1)	Q	41	Simple service	Q1/1992
		NZ	Transaction	Q	7	Simple service	1977
		MX	List	M	51	Simple service	Jan./1969
		FI	Transaction (10)	M	56	Simple service	1972
749 5	Packaging activities	NZ	Transaction	Q	2	Simple service	1977
		JA (6)	Transaction			Simple service	Jan./1985
749 9	Other business activities n.e.c.	UK	Mark-up	Q	400 (86) 145 (87)	Simple service or composite service	
							Jan./1998
		NZ	Transaction	Q	30	Simple service	1977
		JA (6)	Transaction			Simple service	Jan./1985
809	Adult and other education	UK	List or transaction (1)	Q	214	Composite service	Q1/1992
		MX	List	M	170	Simple service	Jan./1994
		FI	Transaction (10)	Q	56	Simple service	1972

		NZ	Transition (9)	Q		Simple service	unsure
851	Human health activities	MX	List	M	530	Simple service	Jan./1994
		NZ	Transaction	Q	77 (88)	Simple service or composite service or service bundle	
		FI	Transaction (10)	M		Simple service	1967
852	Veterinary activities	NZ	Transaction	Q	44 (88)	Simple service or composite service	
		FI	List (89)	Q		Simple service	1990
853	Social work activities	NZ	Transaction	Q	9	Simple service or composite service	
900	Sewage and refuse disposal, sanitation and similar activities	UK	List or transaction (1)	Q	184	Simple service or composite service (90)	
		NZ	Transaction	Q	6	Simple service or composite service (91)	
		CZ	Transaction	M	90		1/1/1990
		FI	Transaction (10)	M		Simple service	1981
		JA (6)	Transaction			Simple service	Jan./1985
921	Motion picture and video production and distribution	MX	List	M	207	Simple service	Jan./1969
		NZ	Transaction	M,Q,A	21	Simple service or composite service	
		FI	Transaction (10)	M		Simple service	1967
923	Library, archives, museums and other cultural activities	MX	List	M	22		Jan./1969
		NZ	Transaction	Q	2	Simple service	1977
		FI	Transaction (10)	M		Simple service	1967
924	Sporting and other recreational activities	MX	List	M	115	Simple service	Jan./1969
		NZ	Transaction (9)	Q,A	40	Simple service	1977
		FI	Transaction (10)	M		Simple service	1967

**Table 2**

**Prices of services to enterprises**

**Summary of answers to questionnaire on prices for service activities**

**NOTES**

1. UK List prices used only when discounting not prevalent.
2. UK Contract prices for comprehensive fleet maintenance services.
3. NZ Some composite services are priced, such as panel beating and painting.
4. NZ Some service bundles are priced, such as car lease contracts which include maintenance.

5. FI Cost index for road transport of goods.
6. JA Information concerning the frequency of pricing and the number of price quotations per period is not available for any ISIC Group or Class because only representative monthly transaction prices of principal companies are surveyed.
7. UK Only hotels and motels with restaurants - business rates.
8. UK Conference package deals.
9. NZ CPI items used as proxy.
10. FI Uses CPI components.
11. UK Only provision of workers canteens and airline meals - charges to businesses.
12. UK Comprehensive catering services.
13. UK Business passenger fares (rail fares for Group 601; air fares for Group 621).
14. UK Freight by rail : contract prices.
15. UK Transportation plus handling.
16. NZ "Other" refers to the average price for several classes of freight.
17. UK Contract prices for combined transport and warehousing services.
18. US Selected additional charges are sometimes bundled with the transport charge.
19. SE "Other" refers to direct computation of production in constant prices.
20. AL Diverse range of activities covered from simple point to point transport of goods to full logistics service.
21. AL Service bundle including services such as freight plus warehousing plus stock control.
22. NZ Some composite services such as transport and handling/warehousing are priced.
23. NZ Service bundle refers to delivered bulk gas and petroleum prices.
24. UK "Other" refers to average prices for commercial vehicle ferries.
25. AL Covers international sea freight.
26. AL Covers coastal water transport of freight.
27. UK Air travel includes meals, etc.
28. SE Domestic air transport only.
29. AL Covers domestic air freight.
30. AL Covers international air freight.
31. NZ Only some service bundles such as package travel are priced.
32. NZ Some composite services such as container hire and handling are priced.
33. US In/out charges bundled with storage service.
34. AL Diverse category covering simple self storage to more complex records storage and management. Warehousing can include handling and distribution.
35. NZ Percent of commission fees converted to dollar value.
36. UK Only freight forwarding activities.
37. UK Total charge for arranging transportation of goods.
38. UK Only business post and parcel post activities.
39. UK Total charge for representative baskets of services.

40. US Local service bills are bundled.
41. SE “Other” refers to direct volume index and price index.
42. CA Telephone business: telephone services by plan. Average revenue per minute by type of service.
43. CA Television broadcasting of advertisement. Advertising revenues by station.
44. NZ Bank margin on borrowing/lending converted to dollar value and deflated by CPI.
45. NZ “Other” refers to brokerage based on stock exchange index movements adjusted for percentage commission rates.
46. US Expenses and utilities are bundled with leases.
47. AL Refers to commercial property operators and developers.
48. FI House price index, dwellings in old index.
49. SE Rentals of offices.
50. NZ Real estate commission fees in percentage inflated by rental index to derive value.
51. UK Contract car hire bought from a private company.
52. US Selected required services bundled with rental services.
53. AL Simple service corresponds to renting.
54. AL Composite service corresponds to a fully maintained operating lease.
55. NZ Some composite services such as car leases with service contracts or crane hire with operator are priced.
56. AL Fully maintained operating lease.
57. NZ Description for ISIC group 7121 includes prices collected for groups 7122, 7123 and 7129.
58. NZ Some composite services such as machinery including operator or machinery including maintenance are priced.
59. UK Commercially produced index of property values and rental payments is used.
60. CA Sixty firms surveyed for one type of service.
61. CA Advisory, predesign and project management are included in the price index.
62. UK Only supply of software and contract price for outsourcing of comprehensive IS services.
63. US Software sold in suites are bundled.
64. UK On-line access services.
65. UK Computer processing services.
66. UK Disaster recovery services.
67. US Selected bills for various hourly wages are bundled.
68. UK Experimental small scale index.
69. UK Model package of services as specified by contributor.
70. UK Including some charge-out (external fee) rates.
71. US Multiple services transactions are bundled.
72. FR Price of a “mission” carried out for a client. “Missions” are classified beforehand.
73. UK Covers only part of the class - consulting engineering activities including some charge-out (external fee) rate.



74. US Project input costs are bundled.
75. AL Service bundle priced for surveying only. Bundles may vary from job to job.
76. US Selected contracts for multiple advertisements are bundled.
77. UK Mark-up prices for recruitment and transaction prices for provision of personnel.
78. UK Some contract prices for composite security services are priced.
79. FR Real contracts which may include one or several types of security services are priced.
80. NZ Some composite services such as security storage and armoured transportation are priced.
81. UK Some contract prices for composite cleaning services are priced.
82. US Selected contracts for multiple services are bundled.
83. AL Covers pest control.
84. AL Covers cleaning services.
85. FR Real contracts including one or several types of cleaning services are priced.
86. UK Translation services.
87. UK Secretarial services.
88. NZ Plus CPI items.
89. FI EC index of purchase prices of inputs in agricultural production.
90. UK Some composite waste disposal and sewerage services are priced.
91. NZ Some composite services such as bin hire and rubbish disposal are priced.

OCDE

ORGANISATION DE COOPÉRATION ET  
DE DÉVELOPPEMENT ÉCONOMIQUES

OECD

ORGANISATION FOR ECONOMIC  
CO-OPERATION AND DEVELOPMENT

DIRECTION DES STATISTIQUES

STATISTICS DIRECTORATE

**Table 3**

**Prices of services to enterprises**

Statistics Directorate

**Summary of answers to questionnaire on prices for service products**

ISIC Revision 3		Country	CPC Version 1.0		Identification of service products	
Code	Group / Class		Code	Class / Sub-class	CPC	Other
1	2	3	4	5	6	7
502	Maintenance and repair of motor vehicles	UK	8714 1	Maintenance and repair of motor vehicles	UK, NZ	
		NZ				
		JA				
551	Hotels; camping sites and other provision of short-stay accommodation	UK	6311 0	Hotel and motel lodging services	UK, US, NZ (1)	
		US	6319	Other lodging services		
		SE				
552	Restaurants, bars and canteens	NZ	6321 0	Meal serving services with full restaurant services	NZ (1)	
			6322 0	Meal serving services in self-service facilities		
			6323 0	Caterer services, providing meals to outside		
			6329 0	Other food serving services		
			6330 0	Beverage serving services for consumption on the premises		
						UK - canteens (SIC)
			6411 1	Interurban railway transport services of passengers	NZ (1), JA	US - railroad passenger transportation

601	Transport via railways	UK	6412 1	Railway transport services of freight by refrigerator cars	AL (2)	US - railroad non-trailer on flat-car shipments (13 commodities)
		US	6412 2	Railway transport of freight by tanker cars	AL, NZ, JA	
		SE	6412 3	Railway transport services of containerised freight by flat cars	US, AL, NZ, JA	
		AL	6412 4	Railway transport of mail by mail cars	AL, NZ	US - railroad non-trailer on flat-car shipments
		NZ	6412 9	Other railway transport services of freight	AL, NZ	(13 commodities)
		JA	6413 0	Railway pushing or towing services		
						UK - rail freight (SIC)
6023	Freight transport by road	UK	6423 1	Road transport services of freight by refrigerator vehicles	AL (3), NZ	US - local trucking without storage; Local trucking with storage; Trucking, except local
			6423 2	Road transport services of freight by tank truck or semi-trailers	AL, NZ, JA	
			6423 3	Road transport services of containerised freight by trucks equipped with a container chassis	AL, NZ	
		SE	6423 4	Road transport services of freight by man- or animal-drawn vehicles	AL	
		NL	6423 5	Moving services of household and office furniture and other goods	AL, NZ	US - local trucking without storage, household goods moving ; local trucking with storage; trucking, except local, household goods carriage
		AL	6423 6	Road transport services of mail by mail trucks	NZ	US - local trucking without storage; Local trucking
		NZ	6423 9	Other road transport services of freight	AL, NZ	with storage; Trucking, except local
		JA	6425 0	Rental services of trucks with operator	US, AL, NZ	
						UK - freight forwarding (SIC)
603	Transport via pipelines	US	6431 0	Transport services via pipeline of petroleum and natural gas	NZ	US - crude petroleum pipelines; refined petroleum pipelines
		NZ	6439 0	Transport services via pipeline of other goods		
611	Sea and coastal	UK	6511 1	Coastal and transoceanic water transport services of passengers by ferries	AL	
		US	6511 9	Other coastal and transoceanic water transport services of passengers		

	transport	GE AL NZ  JA	6512 1	Coastal and transoceanic water transport services of freight by refrigerator vessels	AL, JA	US - deep sea foreign transportation of freight ; deep sea domestic transportation of freight AL - international sea freight; coastal water transport of freight (4) NZ - coastal transportation of containerised freight ; sea transportation of containerised freight; coastal transportation of general freight; sea transportation of general freight
			6512 2	Coastal and transoceanic water transport services of freight by tankers	GE	
						UK - commercial vehicle ferries (SIC) GE - Transportation services of containerised freight; other transport services of freight
612	Inland water transport	US NZ JA	6521	Inland water transport services of passengers	NZ (1)	
			6522 1	Inland water transport services of freight by refrigerator vessels		US - freight transportation on the Great Lakes-St Lawrence seaway; Mississippi River transportation ; Pacific Inland Waterways transportation
			6522 2	Inland water transport services of freight by tankers	JA	
			6522 9	Other inland water transport services of freight	JA	
			6523 0	Rental services of inland water vessels with operator		
			6524 0	Towing and pushing services on inland waters	US	
621	Scheduled air transport	UK US SE AL NZ JA	6611 0	Scheduled air transport services of passengers	US, UK, NZ, JA	
			6621 0	Air transport services of mail	US, NZ	
			6629 0	Air transport services of other freight	US, AL, NZ, JA	
622	Non-scheduled air transport	US NZ	6612 0	Non-scheduled air transport services of passengers	NZ	US - air transportation, non-scheduled
			6630 0	Transport services via space		

			6629 0	Air transport services of other freight	NZ	US - air transportation, non-scheduled
			6640 0	Rental services of aircraft with operator	NZ	
6301	Cargo handling	UK	6711 0	Container handling services	US, NZ, JA	
		US	6719 0	Other cargo handling services	NZ, JA	US - marine cargo handling
		NZ JA				UK - freight forwarding (SIC)
6302	Storage and warehousing	UK	6721 0	Refrigerated storage services	US, AL (5), NZ, JA	
		US	6722 0	Bulk liquid or gas storage services	AL (5)	
		AL	6729 0	Other storage or warehousing services	AL (5), NZ, JA	US - farm product warehousing and storage; general warehousing and storage
		NZ JA				
6304	Travel agencies and tour operators ; tourist assistance activities n.e.c.	US	6781 1	Travel agency services	US, NZ	
		NZ	6781 2	Tour operator services	NZ	
			6781 3	Tourist information services		
			6782 0	Tourist guide services		
6309	Activities of other transport agencies	US	6791 0	Freight transport agency services and other auxiliary freight transport services	US	
		UK	6799 0	Other supporting transport services n.e.c.	US	
					UK ?	
		UK	6811 1	Postal services related to letters	GE, NZ, JA	US - first class mail; international air mail

6411	National post activities	US	6811 2	Postal services related to parcels	UK(6), GE, NZ, JA	US - second, third, fourth class mail; international surface mail
		GE	6811 3	Post office counter services	GE	
		NZ	6811 9	Other postal services	JA	US - terminal dues and transit fees; express mail; mailgram service
		JA				GE - services related to postal, giro and postal savings accounts
6412	Courier activities other than national post	UK US NZ	6812 0	Courier services	UK, NZ	US - courier services except by air; air courier services
642	Telecommunications	UK	8411 0	Wired telecommunication services	US, GE, NZ, CA (7), JA	UK - fixed telecommunication services
		US	8412 0	Wireless telecommunications services, except satellite	US(8), GE, NZ, JA	UK - mobile telecommunication services
		GE	8413 0	Satellite telecommunications services		
		SE NZ CA JA				
6519	Other monetary intermediation	NZ	7110 0	Financial intermediation services, except investment banking, insurance services and pension services	NZ	
671	Activities auxiliary to financial intermediation, except insurance and pension funding	US	7152 1	Securities brokerage services	US (9), NZ	
		NZ	7152 2	Commodity brokerage services		
		JA	7152 3	Processing and clearing services of securities transactions	US (9)	
			7153 1	Portfolio management services	US (9)	
			7153 2	Trust services		
			7153 3	Custody services		

			7154 1	Financial market operational services		
			7154 2	Financial market regulatory services		
			7154 9	Other financial market administration services		
			7155 1	Financial consultancy services	US (9)	
			7155 2	Foreign exchange services	NZ, JA	
			7155 3	Financial transactions processing and clearinghouse services	JA	
			7155 9	Other services auxiliary to financial intermediation n.e.c.	JA	
701	Real estate activities with own or leased property	UK	7211 2	Renting or leasing services involving own or leased non-residential property	US, AL, NZ, JA	
		US	7212 2	Trade services of non-residential buildings (and land)	AL	
		AL	7213 0	Trade services of vacant and subdivided land		
		NZ JA				UK - agency services split into selling, letting and acquisition of property
702	Real estate activities on a fee or contract basis	US	7221 2	Non-residential property management services on a fee or contract basis	US, NZ	
		SE	7222 2	Non-residential buildings (and land) sales on a fee or contract basis	NZ	US - real estate brokerage, commercial sales
		AL	7223 0	Land sales on a fee or contract basis	NZ	US - real estate brokerage, commercial sales, farms and land
		NZ				AL - real estate agents residential sale or rent for others
7111	Renting of land transport equipment	UK	7311 1	Leasing or rental services concerning cars and light vans without operator	US, AL, NZ, JA	
		US	7311 2	Leasing or rental services concerning goods transport motor vehicles without operator	US, NZ	
		FR	7311 3	Leasing or rental services concerning railroad vehicles without operator		



		AL NZ JA	7311 4	Leasing or rental services concerning other land transport equipment without operator	US (8), NZ	
			7311 7	Leasing or rental services of containers	NZ	
						UK - contract car hire (SIC)
7121	Renting of agricultural machinery and equipment	UK  AL NZ	7312 1	Leasing or rental services concerning agricultural machinery and equipment without operator	UK, AL, NZ	
7122	Renting of construction and civil engineering machinery and equipment	UK  FR  AL NZ JA	7312 2	Leasing or rental services concerning construction machinery and equipment without operator	UK, AL(10), NZ, JA	
7123	Renting of office machinery and equipment	UK  AL NZ JA	7312 3	Leasing or rental services concerning office machinery and equipment (excl. computers) without operator	AL (10), JA	
			7312 4	Leasing or rental services concerning computers without operator	AL (10), JA	
						UK - renting of office machinery (SIC)
7129	Renting of other machinery and equipment n.e.c.	FR  AL NZ JA	7312 9	Leasing or rental services concerning other machinery and equipment without operator	AL (10), JA	
721 + 722	Hardware consultancy . Software consultancy and supply	CA  AL NZ	8314 1	Hardware consultancy services	CA (11), AL, NZ	
			8314 2	Software consultancy services	CA (11), AL, NZ	
			8314 9	Other computer consultancy services	CA (11), AL	
			8315	Computer facilities management services	CA (11)	

			0			
			8316 0	Systems maintenance services	CA (11)	
722	Software consultancy and supply	UK	8314 2	Software consultancy services		US - pre-packaged software UK - software products and software support services
		US	8314 9	Other computer consultancy services		
		FR	8315 0	Computer facilities management services		
		JA	8316 0	Systems maintenance services	JA	
723	Data processing	UK	8596 0	Computer processing services	UK, AL, NZ, JA	
		AL				
		NZ				
		JA				
724	Data base activities	UK	8421 0	On-line access services	UK, AL, JA	
		AL	8429 0	Other information retrieval and supply n.e.c.	AL, NZ	UK - disaster recovery
		NZ				
		JA				
725	Maintenance and repair of office, accounting & computing machinery	NZ	8713 0	Computer hardware servicing, repair and maintenance	NZ	
73	Research and development	NZ	811	Research and experimental development services in natural sciences and engineering		
			812	Research and experimental development services in social sciences and humanities	NZ	
			813	Interdisciplinary research and experimental development services		

7411	Legal activities	UK US NZ JA	8211 1	Legal advisory and representation services concerning criminal law	JA	NZ,	US - other legal services
			8211 9	Legal advisory and rep. services in judicial procedures concerning other fields of law	JA	NZ,	US - legal services
			8212 0	Legal advisory and rep. services in statutory procedures of quasi-judicial tribunals, boards, etc.		NZ, JA	
			8213 0	Legal documentation and certification services		NZ, JA	
			8219 9	Other legal advisory and information services n.e.c.		NZ, JA	
							UK - legal activities (SIC)
7412	Accounting, book-keeping and auditing activities; tax consultancy	UK US FR AL NZ JA	8221 1	Financial auditing services	US, UK, FR, AL(12), NZ, JA		
			8221 2	Accounting review services	FR, AL(12), NZ, JA		US - accounting compilation and review
			8221 3	Compilation of financial statement services	FR, AL(12), NZ		
			8221 9	Other accounting services	US, UK, FR, AL(12), NZ		
			8222 0	Book-keeping services, except tax returns	US, UK, FR, AL(12), NZ, JA		
			8231 0	Corporate tax planning and consultancy services	UK, FR, AL(12)		US - accounting tax preparation and planning
			8232 0	Corporate tax preparation and review services	AL(12)		
			8240 0	Insolvency and receivership services	UK, AL(12), NZ		
							UK - also Financial management consultancy and Other management consultancy
7413	Market research and public opinion polling	UK AL NZ	8370 0	Market research and public opinion polling services	UK, AL(13), NZ, JA		
7414	Business and management consultancy services	NZ	8219 1	Arbitration and conciliation services			
			8311 1	General management consultancy services		NZ	
			8311 2	Financial management consultancy services			
			8311 3	Human resources management consultancy services			

			8311 4	Marketing management consultancy services	NZ	
			8311 5	Production management consultancy services	NZ	
			8311 9	Other management consultancy services		
			8312 1	Public relations services	NZ	
			8312 9	Other business consulting services		
			8319 0	Other management services, except construction project management services		
7421	Architectural and engineering activities and related technical consultancy	UK	8313 1	Environmental consulting services		
		US	8313 9	Other scientific and technical consulting services n.e.c.		
		CA	8321 1	Architectural advisory and pre-design services	NZ	US - architectural design, analysis and consulting services
		FR	8321 2	Architectural design and contract administration services	NZ, JA	
		AL	8321 9	Other architectural services	NZ	
		NZ	8322 1	Urban planning services		
		JA	8322 2	Landscape architectural services	NZ	
			8331	Integrated engineering services	CA(14)	
			8332	Project management services concerning construction	CA(14)	
			8333	Advisory and predesign services	CA(14)	
			8334	Engineering design services	CA(14), NZ	US - engineering design, analysis and consulting services
			8335	Engineering services during the construction and installation phase	CA(14), NZ	
			8339	Other engineering services	CA(14), NZ	
			8351 0	Geological, geophysical and other prospecting services	JA	US - metal mining prospect and test drilling; oil and gas exploration services, geophysical exploration; coal mining services, exploration and development work
			8352 0	Subsurface surveying services	AL	
			8353 0	Surface surveying services	AL, NZ	
			8354	Map making services		

			0			
			8355 0	Weather forecasting and meteorological services	NZ	
						UK - consulting engineers (SIC - part)
7422	Technical testing and analysis	NZ	8356 1	Composition and purity testing and analysis services		
			8356 2	Testing and analysis services of physical properties		
			8356 3	Testing and analysis services of integrated mechanical and electrical systems		
			8356 4	Technical inspection services		
			8356 9	Other technical testing and analysis services		
						NZ - maintenance and servicing of medical/testing equipment
743	Advertising	US	8361 0	Planning, creating and placement services of advertising	US, AL(15), NZ	
		AL	8362 0	Purchase or sale of advertising space or time on commission	AL(15), NZ, JA	
		NZ	8369 0	Other advertising services	AL(15), NZ	
		JA				
7491	Labour recruitment and provision of personnel	UK	8511 1	Executive search services	NZ	US - employment agencies, professional/
		US	8511 2	Employment agency services	UK, NZ	managerial occupations
		FR	8512 1	Supply of office support personnel services	NZ, JA	US - temporary help supply services, office and clerical occupations
		AL	8512 3	Supply of other commercial or industrial workers services		US - temporary help supply services, light and heavy industrial occupations
		NZ	8512 4	Supply of medical personnel services		US - temporary help supply services, medical and personal occupations
		JA	8512 9	Supply of other personnel services		US - other help supply services, except temporary
			8521 0	Investigation services	AL(16)	

7492	Investigation and security activities	UK	85220	Security consultation services	AL(16)	
		FR	85230	Alarm monitoring services	FR, AL(16), NZ	
		AL	85240	Armoured car services	FR, AL(16), NZ	
		NZ	85250	Guard services	FR, AL(16), NZ, JA	
		JA	85290	Other security services	AL(16)	
						UK - security services (SIC)
7493	Building cleaning activities	UK	85310	Disinfecting and exterminating services	AL, NZ, JA	
		US	85320	Window cleaning services	FR, AL(17), NZ, JA	US - building cleaning and maintenance services
		FR	85330	General cleaning services	FR, AL(17), NZ, JA	n.e.c.
		AL	85340	Specialised cleaning services	FR, AL(17), NZ, JA	
		NZ JA				UK - industrial cleaning (SIC)
7494	Photographic activities	UK NZ	83111	Portrait photography services	NZ (1)	
			83812	Advertising and related photography services	NZ	
			83813	Action photography services		
			83814	Speciality photography services		
			83815	Restoration, copying and retouching services of photography		
			83819	Other photographic services	NZ	
						UK - commercial film processing (SIC)
7495	Packaging activities	NZ	85400	Packaging services	NZ, JA	
		JA				
7499	Other business	UK	8341	Interior design services		

			0			
	activities n.e.c.	NZ	83490	Other speciality design services		
		JA	83910	Translation and interpretation services	UK	
			83990	Other professional, scientific and technical services n.e.c.		
			85910	Credit reporting services		
			85920	Collection agency services	NZ	
			85930	Telephone answering services		
			85940	Duplicating services	NZ	
			85950	Mailing list compilation and mailing services	JA	
			85970	Trade fair and exhibition organisation services		
			85990	Other support services n.e.c.	NZ	
						UK - also secretarial services (SIC - part)

