Recommendation E.423

xe ""§OBSERVATIONS ON TRAFFIC SET UP BY OPERATORS

1 Comments concerning the use of Table 1/E.423

- 1.1 This table summarizes observations relating to manual and semi—automatic outgoing traffic originated by operators. These observations will be made, if possible, during the whole call durationxe "call duration"§. Observations for the categories 1 to 7 may be omitted in case of semi—automatic service, if there is no problem regarding the efficiency of international circuitsxe "efficiency of international circuits"§.
- 1.2 Administrations should, if possible, make a distinction between the different types of call, e.g. station—to—station, personal and collect callsxe " collect calls"§; they should use a separate column for each under the heading "Type of call".
- 1.3 For collect calls, the times to be recorded will be those observed in the country where the call request was made.
- 1.4 It is recommended that these observations be spread over the whole day.
- 1.5 Each outgoing Administration will select the international circuit groupsxe " circuit groups" on which observations should be carried out.
- 1.6 In completing this table, reference should be made to the following explanations:

2 How to fill in Table 1/E.423 (Traffic observations determined by the operators)

Category 1 — This category should show the mean duration of calls observed which are successful and have been charged for ("effective" calls).

Category 2 – This category will show the mean *chargeable* duration of all effective calls observed.

Category 3 – This category will show, for each type of observed call, the average time per effective call during which the international circuit has been occupied for manoeuvres or for call preparation.

This average should be based on the time during which the international circuit is held:

- a) to obtain information concerning the called number;
- b) to obtain information about routing and trunk codes;
- c) to call operators, in the incoming international exchange;
- d) to exchange information on how to set up the call;
- e) to (or attempt to) obtain the called number even when it is engaged or does not

reply;

- f) to (or attempt to) obtain the called person (in personal calls);
- g) between replacement of the receiver by the called person and release of the circuit;
- h) because the operator is holding the circuit (whether she is on the line or not) and for any other reasons for which the circuit is engaged.

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Observations on traffic set up by oper	TABLE 1/E.423	
International outgoing exchange Circuit group Service:		semi–automatica)
Period from to		,
	Type of callb)	
	Category	
	Ordinary	
	Personal	
1. Mean call duration – in seconds		
2. Mean chargeable duration – in second	ds	

3. Mean holding time of circuits for manoeuvres and preparation of calls – in seconds
4. Number of effective calls observed
5. Mean number of times the international circuit was seized per effective call
6. Mean number of "attempts" per effective call
7. Percentage of calls set up at the first "attempt"

8. Time-to-answer by operators

Total number of calls answered and unanswered

Calls answered

Calls unanswered (abandoned calls)

Num-ber

Mean waiting time in seconds

under 15 seconds

in 15 to 30 seconds

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After 30 seconds

Within 30 second

after 30 seconds

Operators

No.

%

No.

%

No.

%

No.

%

No.

%

- incoming operator (code 11)

- delay operator (code 12)

assistance operator

information operator

9. Quality of transmission from the subscriber's

Number

10. Comments

viewpoint:	
	.good

-....defective

Total

100

- Delete whichever is inapplicable. In accordance with § 1.2. a)
- b)

The times listed above, which exclude the conversation time, should be added together. This total should be divided by the number of effective calls observed during the period in question to obtain the value to be entered in Table 1/E.423.

- *Category 4* The number of effective calls observed considered in category 1.
- Category 5 The mean number of times the international circuit was seized per effective call (see category 3). This number is usually obtained by meter recordings.

Category 6 – The mean number of attempts (as specifically defined hereafter from the operating point of view) to set up a call. Should the operator try several times to set up a call while continuously occupied on that call, all these operations must be considered as being one attempt. Similarly, if the operator makes several tries to set up a call and each time encounters a congestion or busy condition and if, after the last try, she informs the caller, only one attempt must be entered. Calls to information services or to obtain routing particulars, and all calls not directly related to the establishment of a call or to information required by the caller, should not be considered as attempts and should not be included.

The total number of attempts during the period of observation should be divided by the number of effective calls observed in the same period to obtain the mean number of attempts per call.

The total number of attempts is usually determined from markings or notations on call ticketsxe "call tickets"§.

Category 7 – The data for this category will be taken from all tickets prepared for the relation concerned, during the period of observation or a comparable period.

Category 8 – The mean waiting time for outgoing operators to receive an answer will be indicated in seconds. This average will include both answered and unanswered calls.

An outgoing operator waits on the circuit (waiting time) for the period:

- a) until the incoming operator answers, or
- b) until she abandons the attempt, should the incoming operator not answer.

Thus while mean waiting time relates to the outgoing operator it is also a measure of the performance of the incoming operators.

Category 9 — It will be difficult to obtain absolutely comparable results from all observers for this category. However, the observer should consider the quality of transmission from the subscribers' viewpoint, taking into account comments made in this respect by subscribers and the number of requests for conversation to be repeated.

Category 10 – This category should include any comments likely to explain the probable cause of difficulties frequently noted during the observations.

3 Automatic observations of thexe ""§ time-to-answerby operators (Comments concerning the use of Table 2/E.423)

- 3.1 This table summarizes observation of the time—to—answer by operators.
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- 3.2 Administrations should make a distinction between the different types of incoming operators if the types of operators are distinguished by the selecting digits.
- 3.3 It is recommended that these observations be spread over the whole day.
- 3.4 Each outgoing Administration will select the international circuit groups on which observations should be carried out.
- 3.5 The time—to—answer of the assistance operatorxe " time—to—answer of the assistance operator"§ cannot be measured automatically.
- 3.6 In completing this table, reference should be made to the explanations in § 4.

4 How to fill in Table 2/E.423 (Automatic observations of the time—to—answer by operators)

The mean waiting time for outgoing operators to receive an answer will be indicated in seconds. This average will include both answered and unanswered calls.

The mean waiting time is defined as the time interval between the instant the outgoing circuit is seized (the seizing signal is sent) and:

- a) the instant the incoming operator answers, or
- b) the instant the outgoing operator abandons the attempt (a clear–forward signal is sent).

TABLE 2/E.423

Automatic	observati	ions of t	the time	–to–answer	by o	perators
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International outgoing exchange
Circuit group
Service: semi–automatic
Period from to
Time–to–answer by operators
Total number of calls answered and unanswered
Calls answered
Calls unanswered (abandoned calls)
Operators:
Number
Mean waiting time in seconds

under 15 seconds

in 15 to 30 seconds

after 30 seconds

within 30 seconds

after 30 seconds

Num-ber

%

Num-ber

%

Num-ber

%

Num-ber

%

Num-ber

– incoming operator

– delay operator

– information operator