

TRAFFIC THEORY AND ITS APPLICATION

A. GENERAL

1.01 In performance of the job, a Business Services Facility Engineer has the basic task of determining the proper number of servers (trunks, switches, consoles, etc.) required to carry a given load at a specified level of service.

1.02 Various capacity tables and curves have been developed to assist the Facility Engineer in this regard. It is most important that the Facility Engineer fully understand the assumptions underlying these tables and curves because a failure of an assumption to be applicable to the system under consideration can result in a gross error in engineering the system.

1.03 This section provides explanations of the various theories underlying the traffic capacity tables and curves as well as practical application of these tables and curves. No attempt has been made to present mathematical derivations of these theories. These are described in other system literature and will not be dealt with here. Before entering into a discussion of the capacity tables and curves, it is well that the terms "load" and "service level" be defined.

1.04 Loads are expressed in terms of CCS or Erlangs and are normally measured over a time frame of one hour. CCS is an abbreviation meaning one hundred call seconds per hour and can be described as that load consisting of one call of 100 second duration, two calls of 50 second duration, etc. An Erlang is simply the load that would occupy one server continuously for one hour or two servers one-half hour each, etc. Traffic loads, then, are the product of the two components — the number of calls and their duration or holding time.

To go a step further, if a server were busy for an entire hour, the CCS load carried could be determined as follows:

$$\text{Number Sec./Hr.} = 60 \text{ Min./Hr.} \times 60 \text{ Sec./Min.} = 3600 \text{ Sec./Hr.}$$

$$\text{If 1 CCS} = 100 \text{ Sec./Hr.,}$$

$$\text{Then CCS/Hr.} = 3600 \text{ Sec./Hr.} \div 100 \text{ Sec./Hr./CCS} = 36 \text{ CCS}$$

Obviously, this is the maximum load a single server can carry during an hour. The relationship, then, between CCS and Erlangs is:

$$1 \text{ Erlang} = 36 \text{ CCS}$$

1.05 Service levels are generally measured by

the following criteria. They are:

- 1) The per cent of demands for service which fail to receive service — expressed as per cent blockage.
- 2) The per cent of demands for service which are delayed and/or the duration of delay.

1.06 Often two other terms that are synonymous with per cent blockage are used to express blocked attempt service levels. A mathematical expression, such as P.01, that states the probability (P) of an attempt being blocked and a Poisson traffic capacity table number, such as Table 10 which, states the number of attempts in 1,000 that will be blocked are used interchangeably with per cent blockage. A comparison of the terms that describe blocked attempt service levels follows:

<u>Blockage</u>	<u>Mathematical Expression</u>	<u>Traffic Capacity Table Number</u>
.1%	P.001	Table 1
.5%	P.005	Table 5
1%	P.01	Table 10
2%	P.02	Table 20
	Etc.	

1.07 Service levels for delayed attempt traffic are most often expressed by terms such as $1.5\% > 3''$ or d (pronounced "d-bar" and means the average delay of all attempts). The former is the dial tone service objective and means no more than one and one-half per cent of total attempts delayed for more than three seconds. The latter term is most often used to describe service provided by ACD's, switchboards or consoles and is referred to as the average answer time.

1.08 Objective service levels have been established for all traffic sensitive components with which the Facility Engineer will deal.

1.09 Following is a discussion of the various traffic theories that will allow the Facility Engineer to accurately predict service levels.

B. SUMMARY OF TRAFFIC THEORIES

1. Binomial

2.01 The first known attempt to apply the theory of probability to telephone traffic problems was made by Malcolm C. Rorty of the

American Bell Telephone Company in Boston in 1903. Rorty, in attempting to calculate the number of calls expected to fall within a specific period of time, used the binomial distribution as his basic distribution formula. The binomial distribution is a frequency distribution that describes in terms of probabilities the number of times a particular event will occur in a series of events.

2.02 Edward C. Molina of the Research Department of the American Telephone and Telegraph Company, forerunner to the Bell Telephone Laboratories, in 1907 refined Rorty's approach through a further mathematical analysis. Molina demonstrated that, given a certain number of calls in the busy hour and a certain number of servers, a determination can be made of the probability that all servers will be busy when a particular call is placed.

2.03 The binomial distribution formula as applied to telephone traffic makes certain assumptions. The basic assumptions are as follows:

- 1) The sources (subscribers) act independently of one another in the origination of their calls.
- 2) Calls are offered in a random manner.
- 3) The offered load is constant in that there are no systematic, or recurring, within-the-hour or day-to-day variations.
- 4) All sources have equal access to all servers in the group.
- 5) The total sources (telephone users) are limited to a finite number.
- 6) If a server is not obtained immediately, the source waits for an interval of time exactly equal to his intended holding time. If a server becomes idle before the holding time expires, the call will seize it and use it for the remaining part of its holding time. This is known as the "blocked calls held" assumption. This does not describe actual conditions because a blocked call will be either abandoned or regenerated. However, in actual application, this assumption may be viewed as equivalent to a moderate amount of regeneration by blocked attempts, so that blocking prediction can be quite accurate.
- 7) Holding time variations do not limit the use of the binomial as it is an exact solution for any holding time distribution.

2.04 A major difficulty in utilizing the binomial formula for practical facility engineering applications lies in the finite source assumption; the number of sources must be identified before the formula can be effectively used. For general engineering purposes, such a limitation requires a separate set of values or tables for each number of sources. Such a requirement is obviously not practical and the binomial theory is not directly used for general facility engineering applications.

2. Poisson

2.05 Recognizing that the binomial summation was a very laborious formula to utilize, Molina developed several approximations. In the process of making up a set of tables on the basis of these approximations, it was noticed that in certain ranges the probability of blocking seemed to depend more on the product of the number of sources and the probability that any particular source is making a call than on their separate values.

2.06 This property was utilized to develop a mathematical approximation to the binomial summation which greatly simplified its practical use. The approximation became known as the Molina Formula and capacity tables and curves were drawn up and distributed for general use throughout the Bell System. Later, it was discovered that a French mathematician, S. D. Poisson, had already derived a similar approximation called "Poisson's Exponential Binomial Limit." Poisson's name was then associated with the formula.

2.07 The Poisson Theory as it applies to the telecommunications field, makes most of the same assumptions as the binomial. The sources are considered to be independent, calls are offered at random, the load is constant, calls have full access, and blocked calls are held. The one assumption that is quite different is the one regarding the number of sources.

The Poisson assumes an infinite number of sources while the binomial restricts itself to a finite number of sources.

It can be shown, however, that with a sufficiently large number of sources — a ratio of sources to servers of 8:1 or greater, the Poisson very closely approximates the binomial. Therefore, it is possible to apply the Poisson formula to facility engineering situations as an accurate predictor of the probability of blocking.

3. Erlang "B"

2.08 One of the basic assumptions in the use of the Binomial and Poisson formulas for facility engineering purposes is that of "Lost or Blocked Calls Held". Another formula also being used, called the Erlang B was derived by A. K. Erlang of the Copenhagen Telephone Company.

2.09 This formula is based on the same assumptions as the Poisson with the exception that lost or blocked calls are assumed to be cleared. Calls which fail to find an idle server immediately do not wait at all and are immediately abandoned. They also do not reappear as subsequent attempts.

2.10 The Erlang B formula, with its Poisson characteristics and blocked calls cleared assumption, is appropriate for the engineering and administration of primary high usage trunk groups. Indeed it is the fundamental basis for the alternate routing trunking tables used for engineering such groups.

4. Erlang "C"

2.11 In the presentation of the trunking theories above, two assumptions have been made regarding the behavior of calls which fail to find an idle server immediately. It has been assumed that the blocked calls are either "held" as in the Poisson, or "cleared" as in Erlang B. There is, however, another condition which blocked calls may experience in their attempt to seize an idle server. This condition is the blocked or lost calls "delayed" assumption, Erlang C, which states that blocked calls are willing to wait indefinitely for an idle server. It should be pointed out here that, unlike the blocked calls held assumption, the extent of the wait for an idle server does not affect the call holding time.

2.12 A. K. Erlang also presented a formula for computing call loss in the case of the blocked calls delayed assumption. In the development of this formula, Erlang assumed an exponential distribution of holding times; that is, a great number of calls have a relatively short holding time while decreasing numbers of calls have longer and longer holding times. Measurement of actual call holding times show that generally an exponential distribution is displayed. In previous formulas, the kind of assumption made in regard to holding time distribution was not important in the effect it had

on the overall probability of blocking. However, in this case where blocked calls are assumed to wait indefinitely for an idle server, the holding time of calls being served does have a very definite effect on the extent of delay experienced by individual calls waiting to be served. The longer the holding times of the calls being served, the longer the delayed calls will wait to be served.

2.13 The distribution of delay is also dependent upon the order in which the delayed calls are served as facilities become idle. The average delay and the probability of delay, however, are not affected by the order of service. There are two fundamental order of service or order of handling considerations in common use in the practical application of delay theory. These are "order of arrival" and "random order." In "order of arrival," the delayed calls are served in the approximate order in which they arrived in the system; that is, the call which has waited the longest is served first (e.g., Automatic Call Distributors). In "random order" a new call arrival has the same chance of being selected and served as an old arrival (e.g., Line Finders). The new arrival may be served first while the old call arrival may still be kept waiting. The random order of service will result in a shorter duration of delay for a larger number of calls than the "order of arrival" consideration; however, those calls which experience long delays will wait even longer since new arrivals receive equal preference for service. Where the distribution of delays is significant, "order of arrival" selection is often preferable from the customer point of view.

2.14 Erlang's formula, now known as the Erlang C, is based on the same assumptions as the Erlang B except for the blocked calls "delayed" assumption and it deals only with exponential holding time distributions. The Erlang C formula has many applications in the field of facility engineering and is particularly useful in determining the capacities of switchboards, ACD's and many switching components, such as line finders and registers. In such cases, blocked calls waiting for an idle server (operator, line finder, etc.) are not advanced (cleared) to an alternate route or to a tone, announcement, or intercept trunk.

5. Wilkinson Equivalent Random

2.15 The theories discussed above are based on a Binomial (finite source) or Poisson (infinite source) distribution of traffic. Such distribu-

tion assumptions are quite descriptive of actual traffic if there are no significant day-to-day or within-the-hour load variations. However, such variations are encountered in actual practice, and they can affect the character of the offered traffic. If formulas based on a Binomial or Poisson distribution are applied to such traffic, the result could be an inaccurate statement of requirements depending on the particular application.

2.16 Recognizing that prevailing theory did not allow for the above variations, R. I. Wilkinson of the Bell Laboratories proposed his Equivalent Random theory which takes into account non-random variations in the offered load. Wilkinson's Equivalent Random Theory is generally based on the same assumptions as the Erlang B. The sources are considered to be infinite and act independently of one another and calls have full access to all trunks. Blocked or lost calls are cleared. However, there are two important differences:

- 1) The Erlang B theory assumes a random offered load within the individual study period, such as the busy hour. The Wilkinson theory is likewise applicable for a random offered load, but it also can be used for offered loads which exhibit non-random or peaked variations within the hour.
- 2) In Erlang B, the source load is assumed to be constant with no significant variations from one individual study period to the next. The Wilkinson theory includes Erlang B in that it can be used for constant loads. However, it also can be applied to source loads which are variable as a result of day-to-day variations.

2.17 Use of the Wilkinson Equivalent Random Theory requires a knowledge of the degree of within-the-hour variations and the degree of day-to-day variations. Methodology for determining these factors for business customer switching systems is currently being developed. When this work is completed, detailed instructions concerning its use in PBX trunking engineering will be issued as a supplement to this practice.

6. S x S Capacity Tables

2.18 Until now, discussion has been limited to those cases where all sources have equal access to all servers. Situations do exist, however,

in Step-by-Step (S x S) graded trunk arrangements where this is not true.

2.19 Theoretical approaches were used to estimate capacities of these arrangements. Discrepancies revealed by actual measurements led to the adjustment of the theoretical approach, and from this adjusted theory, capacity tables were developed to predict blocking on S x S graded multiple. However, in 1970, simulation studies at Bell Laboratories revealed inaccuracies in the capacity tables that could lead to erroneous statements of equipment requirements. As a result, a new set of tables for the engineering of S x S trunk groups was generated in late 1970 using simulation techniques. The Bell Graded Step tables are non-theoretical in that they are the result of simulation, rather than analytical studies. However, the tables are deserving of mention in this section on traffic theory because they have wholly replaced the previously recommended capacity tables for the determination of probability-engineered Step-by-Step trunk group requirements.

7. Summary

2.20 The foregoing discussion has dealt with the assumptions underlying the traffic theories that the Business Services Facility Engineer will need to employ. Figure 1 summarizes the theories and assumptions to provide a means to quickly determine the appropriate theory in a given situation.

C. APPLICATION OF TRAFFIC THEORY

1. General

3.01 The foregoing paragraphs have reviewed some of the basic probability theories as applied to telecommunications situations. This section will discuss the practical use of the tables and curves derived from theory. Situations unique to specific serving vehicles are described in other Business Services Facility Engineering Practices, therefore, only general use of the tables and curves will be discussed here.

3.02 Contained in E of this section are the tables and curves representing the three major theories (Poisson, Erlang B & Erlang C) previously discussed. Also included are the Bell S x S graded tables derived by simulation, rotary out trunk switch (ROTS) tables, and a series of tables referred to as trunk adjustment tables. The Bell

Graded $S \times S$ tables and ROTS tables applications are discussed in Business Services Facility Engineering Practice, Division C. The trunk adjustment tables are explained in Paragraphs 3.25 through 3.35 of this section.

3.03 For most practical engineering situations, service levels relate to an hour time frame. The capacity tables are, therefore, developed for hourly loads. The Facility Engineer must, then, select the hour load (or series of hour loads to be averaged) which will be entered into the tables. The method of determining the hour or hours to be used, referred to as the "Busy Hour," is covered in Section 3 of this practice.

3.04 With most systems, there are recommended service levels and methods of determining service requirements usually based on future loads, calls or stations. However, even with the best forecast of these items, service objectives may not be met if professional judgment is not used in the application of these data. The Facility Engineer must have a thorough understanding of equipment functions, call flow and trunking arrangements to determine blocked call disposition, probable holding time distributions, etc., which will determine which theory to apply. Where circumstances deviate substantially from the theoretical (such as access, number of sources, etc.), the Facility Engineer has the responsibility to adjust quantities and arrangements to meet these circumstances. In these situations, the Facility Engineer must be able to support the decision to deviate with sound and valid arguments. This, however, should not deter him from such deviations if the data have been carefully validated and the system checked to assure that inadequate maintenance or improper administration are not at fault rather than the table assumptions. Such checks of the system will aid in explaining why the table "doesn't fit" as well as pointing out at least qualitatively what and where adjustments should be made.

3.05 By reviewing Figure 1, it can be readily seen that the main criterion for determining which theory applies is the disposition of blocked calls. It should also be noted that in the case of blocked calls delayed, the Erlang C deals only with exponential holding time distributions. All other assumptions for the three theories (Poisson, Erlang B and Erlang C) are the same.

3.06 Once the proper theory has been identi-

fied for a given situation, the use of the tables and curves is relatively simple. The following paragraphs will discuss the format of the tables and charts included in this section as well as presenting examples of their practical application.

2. Poisson

3.07 The Poisson tables are found in E of this section. Examination of these tables will reveal that three parameters are involved: Load (CCS), number of servers and probability of blockage (service level). Given any two, the third can be determined. The use of these tables will be demonstrated by the examples that follow.

3.08 Example 1

Given:

A PBX that will serve 350 non-restricted stations has a forecasted load of 241 CCS outgoing (dial "9") to the central office and 320 CCS incoming (LDN) from the central office. The loads are to be carried on directional trunk groups (one-way outgoing and one-way incoming). The objective service level outgoing is P.02 (2% blockage) and incoming is P.01 (1% blockage).

Determine:

- 1) What quantities of central office trunks are required to meet service objectives?

Solution:

Refer to Figure 1 and compare the theory assumptions to the actual case to determine which theory will apply. The PBX will serve 350 non-restricted stations which should satisfy the infinite source assumption (see Paragraph 2.07) for outgoing loads. The incoming central office load will also satisfy this assumption because of the number of subscribers that could access the trunk group. Knowledge of the PBX and CO switching systems and trunking arrangements will be required to determine what type of access exists to the trunk groups. In this example, universal (full) access will be assumed for both the PBX and CO. Unless there is evidence to the contrary, it is proper to assume that offered loads are random and constant in nature and are generated by sources that are independent of one another. This leaves disposition of blocked calls as the only remaining determination. It was

stated that the loads are to be carried on directional trunk groups. Therefore, blocked calls "cleared" cannot apply, as no alternate route exists to "clear" the calls. Again, knowledge of the switching systems comes into play in determining what actually happens to a blocked call. In the case of PBX-CO trunk groups, however, in almost all cases, the blocked call "held" assumption applies. As previously stated, the "blocked call held" assumption does not describe actual conditions because a blocked call will either be abandoned or regenerated. In actual application, this assumption may be viewed as providing for a moderate number of second attempts. Therefore, Poisson is the proper theory to apply in this example. Now all that remains is to apply the known parameters, load and objective service level, to the tables to determine the third parameter-the-required number of trunks. The forecasted load outgoing is 241 CCS and the objective service is P.02 and read vertically to the line that indicates 241 CCS. Read this line to the margin and 13 servers as indicated as the requirement to carry 241 CCS at P.02 grade of service. Employ the same process for the incoming load by reading vertically the P.01 column to the line that shows 320 CCS and we find that 17 incoming trunks are required.

3.09 Example 2

Given:

Measurement of the load on the 13 outgoing trunks in Example 1 indicates an actual busy hour load of 267 CCS.

Determine:

- 1) What is the approximate grade of service being provided by the 13 outgoing trunks?
- 2) What adjustment is necessary to restore the objective P.02 service level in the busy hour?

Solution:

- 1) In the Poisson tables, locate the line for 13 trunks and read across to the column that is nearest the measured busy hour load. In this case, the column headed P.04 indicates exactly 267 CCS. Therefore, it can be estimated that the actual service level during the

busy hour was P. 04 (4% blockage).

- 2) To determine the adjustment required to provide to P. 02 service, return to the column headed P.02, read vertically to 267 CCS which indicates 14 trunks. Therefore, the addition of one trunk is required.

3.10 Obviously, in actual situations, the busy hour CCS loads will seldom be exactly equal to those in the tables, therefore, a method of interpolation must be employed. Realizing that server adjustments cannot be fractional, we then assume that a server group of a given size can provide a specific service level over a narrow range of loads rather than at a specific load. This is not precisely true in that the service level will, in fact, be slightly higher at the lower loads and slightly lower at the higher loads. However, this effect is not significant enough to consider and by assuming the constant service level over a range of loads, the tables can be used for any load and not just specific values

3.11 To determine what the load range is for a server group of size X, determine the load values midway between the capacities of X and X-1 servers and X and X+1 servers. These values are the low and high limits of the load range for X servers. For example, consider the capacity of 17 servers at P.01 service level. The tables give the capacity of 17 (X) servers at 320 CCS, 16 (X-1) servers at 294 CCS and 18 (X+1) servers at 346 CCS. The load range for 17 servers is then:

FROM		TO
[320 - (320-294)] CCS		[320 + (346-320)] CCS
2		2
307 CCS	OR	333 CCS

This method of interpolation can be used for server groups of any size.

3. Erlang "B"

3.12 The Erlang "B" tables (often referred to as alternate route tables) are found in Division E of this section. These tables like the Poisson are three parameter tables (load, servers, and probability of blockage). However, because of the difference in application of the theories, the format of the tables is quite different. The arrangement of data in the Erlang "B" tables allows the user, given the offered load, to predict the load carried by each of N servers, the cumulative load carried by N servers and the amount of load overflowing each server.

3.13 Refer again to Figure 1. A comparison of Erlang "B" and Poisson assumptions reveals that the difference in these theories lies with the disposition of blocked calls. The Poisson assumes "held" and Erlang "B" assumes "cleared" which implies that an attempt not finding an idle server leaves the system and does not re-appear within the hour. This describes what, in fact, happens when blocked attempts are advanced to a subsequent group of servers to be served, hence the term alternate route tables. The construction of the tables suggests that the load is always offered the first trunk, then the second trunk, etc., as though the trunks are accessed in a low to high manner. This may or may not be the case depending on the switching system and/or trunking arrangement. Therefore, the load on a specific trunk may not be exactly as the table indicates. However, the additional capacity accrued by adding a server is properly described by the table as is the cumulative capacity of the servers. Perhaps an example is the best way to show how the Erlang "B" is used.

3.14 Example 3

Consider again the PBX in Examples 1 and 2, Paragraph 3.08 and 3.09.

Given:

- 1) 17 incoming trunks carrying 320 CCS.
- 2) 14 outgoing trunks carrying 267 CCS.
- 3) A decision has been made to provide only four incoming and three outgoing trunks and the remaining load to be handled in a two-way trunk group.
- 4) Directional trunks will be selected before the two-way trunks.
- 5) Directional loads have coincident busy hour.

Determine:

- 1) The load that will be offered the two-way trunk group.

Solution:

- 1) 320 CCS will be offered to four incoming trunks. In the Erlang "B", tables under the column headed "CCS offered" locate 320 and read horizontally to the column with the heading "4 trunks." This indicates that the fourth trunk carries 30 CCS, the cumulative load carried by the four trunks is 125

CCS and that 195 CCS are overflowed. In other words, the two-way trunk group will be offered 195 CCS of incoming load. The same procedure is applied to the 267 CCS outgoing load. 267 CCS does not appear under the "CCS offered" column, however, 266 and 268 CCS do appear, so simple interpolation can be used. Reading horizontally to the three trunk column, it can be determined that the three outgoing trunks will carry 93 CCS and overflow 174 CCS. The two-way trunk group will then be offered 174 CCS outgoing load and 195 CCS incoming load for a total of 369 CCS of overflowed traffic.

3.15 It must be emphasized here that no blockage occurs in the directional groups. All attempts that are not handled are overflowed to the two-way group. The method for provisioning a two-way trunk group that carries alternate routed traffic is covered in Section 5, Engineering Considerations.

4. Erlang "C"

3.16 The Erlang "C" formula differs from the Poisson and Erlang "B" in that it assumes a blocked attempt will wait indefinitely for a server.

3.17 The service criteria in this situation are the probability of delay as well as the duration of delay. The greater emphasis generally is on the latter.

3.18 It has been stated that holding time distributions have an effect on the duration of the delay. Therefore, holding time distribution is a parameter as well as delay interval, load, number of servers, and probability of delay.

3.19 Because of the number of parameters involved, the Erlang "C" cannot be easily depicted either in tabular form or graphically unless some of the parameters are constant or certain relationships between parameters are constant. Therefore, the Erlang "C" formula will appear in a number of formats on graphs and in tables depending on the particular application of the theory.

3.20 Because of the variety of applications of the Erlang "C" formula, a demonstration of a general application is not possible. Any demonstration would apply only to a specific situation, therefore, the description of the use of Erlang "C" will be left for those BS FEP's dealing with specific

situations.

3.21 One case of delay engineering where Erlang "C" is not employed is in the provision of $S \times S$ line finders. The service objective in this case is $1.5\% > 3$. The normal average holding time of line finders as compared to the three second objective delay interval results in the Erlang "C" curves being difficult to accurately interpret. However, with this holding time-delay interval relationship and the probability of delay of 1.5%, Erlang "C" and Poisson P.02 very closely approximate one another and Poisson can be substituted for Erlang "C" to determine finder quantities.

5. Trunk Adjustment Tables

3.25 The trunk adjustment tables contained in Division E of this section were derived analytically to be consistent with the CCS capacity tables already presented. Assuming a 100 second holding time, it was determined theoretically the number of hourly all trunks busy (ATB), last trunk busy (LTB), or overflow (OFL) registrations that would occur on a server group carrying various traffic loads.

3.26 The tables are constructed in such a way as to allow adjustment of server groups based on register data only. It is recommended, however, that adjustments be made by this method only in these cases where CCS data cannot be provided, and then only with hourly data.

3.27 The basic application of these tables by the Facility Engineer is as a tool to interpret register data as an aid in validating CCS data. In other words, register data should support any adjustments indicated by CCS data. If they do not, the validity of the CCS and/or register data will come into question and must be resolved.

3.28 Another very important use of these tables is one of basically an administrative nature but of interest to the Facility Engineer as well. It is the ongoing evaluation of periodic register data to identify trends and potential problem situations so that more explicit data, generally CCS loads, can be collected and utilized before capacity problems develop.

3.29 When using the trunk adjustment tables, care should be used in selecting the proper

table. Be certain the table represents the desired grade of service, the proper type of register data, the type of access (graded or ungraded) that exists and the correct number of selectors if access is graded.

3.30 Once the table is selected, values in the table must be adjusted to compensate for the difference between the actual average holding time of the server group and the assumed 100 second holding time. This is done by multiplying the table values by the ratio of 100 seconds to the actual holding time.

3.31 To use the table, the appropriate "Trunks per Group" horizontal line should be followed until the blank column is reached where the figure at the left of the blank column is equal to or smaller than, and the one at the right is larger than the number of average busy hour registrations involved. The adjustment figure at the head of that blank column then indicates the number of trunks, if any, that should be added to or removed from the group. If the average busy hour registrations for a given group fall within the values in the columns to the right and left of the "0" column, that group is considered to be at the normal service objective indicated by the table.

D. SERVICE OBJECTIVES

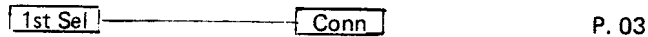
4.01 Service objectives for specific traffic sensitive components are often viewed as requirements determined independently of other considerations. Actually, however, individual service objectives are a result of an overall end-to-end objective for each type of call. These overall objectives are arrived at by resolving what is generally considered good service by our customers with economic prudence from the company standpoint.

4.02 When considering end-to-end losses, all blocking probabilities in the various stages are considered to be cumulative. For example, the service objective for a PBX station-to-station call is P.03. This overall probability of blockage is composed of loss in the network plus intercom trunk or connector group loss.

The following diagram demonstrates this cumulative loss under three different conditions.

Service Objectives
for Components Overall Probability
of Blockage

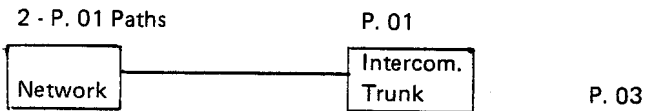
THREE DIGIT STATION – S x S SYSTEM



FOUR DIGIT STATION – S x S SYSTEM



COMMON CONTROL SYSTEM



- 4.03 The following are end-to-end objectives for the major types of calls in PBX/Centrex systems from which individual component service objectives are derived.

<u>Call Type</u>	<u>End-to-End Service Objectives</u>
<u>PBX/CTRX-CU STATION TO:</u>	
PBX/CTRX-CU Station	P.03
Attendant	P.02
Outgoing Central Office Trunk	P.03
Tie Trunk	(See Note 1)
WATS	(See Note 1)
Dial Tone	1.5% > .3"
<u>INCOMING, TWO-WAY or DID CENTRAL OFFICE TRUNKS TO:</u>	
Attendant (LDN)	P.01 (See Note 2)
DID Station	P.02
<u>INWATS OR FX TO:</u>	
Attendant	(See Note 1)

NOTE 1: For these types of circuits decisions regarding quantities are more often made on the basis of economics than on the basis of blocking objectives.

NOTE 2: A Delay Factor (Average Answer Time) is also involved. See BS FAP - Div. 5, Sec. 2 for Objectives

FIGURE 1

ASSUMPTIONS UNDERLYING VARIOUS BLOCKING AND DELAY FORMULAE

<u>Formula</u>	<u>Source Activity</u>	<u>Number of Sources</u>	<u>Offered Load</u>	<u>Access</u>	<u>Holding Time</u>	<u>Disposition of Blocked Calls</u>
Poisson	Independent	Infinite	Random-Constant	Full	All Distributions	(1) Held
Erlang B	Independent	Infinite	Random-Constant	Full	All Distributions	Cleared
Erlang C	Independent	Infinite	Random-Constant	Full	Exponential	Delayed
(2) (3) Bell Graded Step-by- Step	Independent	Infinite	Random-Constant	Limited	Exponential	(4) Cleared

NOTES:

1. Under actual conditions, calls will be either abandoned or regenerated.
2. Bell Graded Step-by-Step tables are a result of simulation rather than theory.
3. Bell Graded Step-by-Step tables should be used for all Step-by-Step trunking requirements.
4. Up to 5% re-trial will not affect accuracy.

E. CAPACITY AND ADJUSTMENT TABLES

- 1) Poisson
- 2) Erlang "B"
- 3) Graded S x S
- 4) ROTS
- 5) Trunk Adjustment

POISSON SINGLE GROUP CAPACITY TABLES

(LOST CALLS (CLEARED)

HELD

The tables contained in this subsection are used primarily in determining trunk requirements in final groups and full groups and for determining quantities of certain other types of equipment. They show the relationship between load per hour in CCS offered to a group of trunks in terms of the probable proportion of such load which would be blocked according to the Poisson formula.

The probability of blocking (or NC) is expressed as a stated number of parts in one thousand and the number of trunks per group ranges from 1 to 200, inclusive. The probability range covers the practicable limits of the Poisson theory for trunking problems namely, from one part in one thousand, Table 1, to 100 parts in one thousand, Table 100. These probabilities are more commonly expressed as percentages. Thus Table 10 represents

one delay in one hundred or one per cent which is usually written as P.01. Similarly Table 50 connotes P.05 delay and so on.

The basic assumptions behind "Poisson's Exponential Binomial" theorem are as follows:

Calls are randomly offered from unlimited sources.

Lost calls held — A call failing to find an idle trunk, waits for a period equal to its holding time and then disappears. If during this waiting period a trunk becomes idle, the trunk is seized and held for the interval of the holding time that remains.

Holding time — Either constant (same for all calls) or varying exponentially with respect to an average value.

TABLE 1
POISSON CAPACITY TABLE

POISSON SINGLE GROUP CAPACITY TABLES

The Table Number Indicates the Expected Number of Calls per 1000 Encountering All Trunks in the Group Busy

Table

Trunks	1	5	10	20	30	40	50	60	70	80	90	100	Trunks
1	.1	.2	.4	.7	1.1	1.5	1.9	2.2	2.6	3.0	3.4	3.8	1
2	1.6	3.7	5.4	7.9	9.7	11.3	12.9	14.2	15.5	16.8	18.0	19.1	2
3	6.9	12.2	15.7	20.4	24.0	26.9	29.4	31.7	33.9	35.9	37.8	39.6	3
4	15.4	24.2	29.6	36.7	41.6	45.7	49.1	52	55	58	60	63	4
5	26.6	38.9	46.1	55.8	61.6	66.6	70.9	75	78	81	85	88	5
6	40.0	55.4	64.4	76.0	82.8	89.3	94.1	99	103	107	110	113	6
7	54.7	73.4	83.9	96.8	105	112	118	123	128	132	136	140	7
8	70.9	92.5	105	119	129	137	143	149	154	159	163	168	8
9	88.2	113	126	142	153	162	169	175	181	186	191	195	9
10	107	134	149	166	178	188	195	202	208	214	219	224	10
11	126	156	172	191	204	214	222	230	236	242	248	253	11
12	145	178	195	216	230	240	249	258	264	270	277	282	12
13	166	201	220	241	256	267	277	286	292	299	306	311	13
14	187	224	244	267	283	295	305	314	321	328	335	341	14
15	208	248	269	293	310	322	333	342	350	357	364	370	15
16	231	273	294	320	337	350	362	371	379	387	394	401	16
17	253	297	320	347	365	378	390	400	409	416	424	431	17
18	276	322	346	374	392	407	419	429	438	446	455	462	18
19	299	347	373	401	420	436	448	458	468	476	485	492	19
20	323	373	399	429	449	465	477	488	498	506	516	523	20
21	346	399	426	458	478	494	507	517	528	537	546	554	21
22	370	424	453	486	507	523	536	547	558	567	577	585	22
23	395	451	480	514	536	552	566	577	589	598	607	616	23
24	419	477	507	542	564	582	596	608	619	629	638	647	24
25	444	504	535	571	593	611	626	638	650	660	669	678	25
26	469	531	562	599	623	641	656	669	680	691	700	710	26
27	495	558	590	627	652	671	686	699	711	722	731	741	27
28	520	585	618	656	682	701	717	730	742	753	763	773	28
29	545	612	647	685	711	731	747	761	773	784	794	805	29
30	571	640	675	715	741	762	778	792	804	815	826	836	30
31	597	667	703	744	771	792	809	823	835	846	858	868	31
32	624	695	732	773	801	822	840	854	867	878	890	900	32
33	650	723	760	803	831	852	871	885	898	909	922	932	33
34	676	751	789	832	861	883	902	917	930	941	954	964	34
35	703	779	818	862	891	913	933	948	961	973	986	996	35
36	729	807	847	892	922	944	964	979	993	1005	1018	1028	36
37	756	836	878	922	952	975	995	1011	1024	1037	1050	1060	37
38	783	864	905	952	982	1006	1026	1042	1056	1069	1082	1092	38
39	810	892	935	982	1013	1037	1057	1074	1087	1101	1114	1125	39
40	837	921	964	1012	1043	1069	1088	1105	1119	1133	1146	1157	40
41	865	950	993	1042	1074	1099	1120	1137	1151	1165	1178	1190	41
42	892	979	1023	1072	1104	1130	1151	1168	1183	1197	1210	1222	42
43	919	1008	1052	1103	1135	1161	1183	1200	1215	1229	1243	1255	43
44	947	1036	1082	1133	1166	1192	1214	1232	1247	1262	1275	1287	44
45	975	1066	1112	1164	1197	1223	1246	1263	1279	1294	1308	1320	45
46	1003	1095	1142	1194	1228	1255	1277	1295	1311	1326	1340	1352	46
47	1030	1124	1171	1225	1259	1286	1309	1327	1343	1358	1373	1385	47
48	1058	1153	1201	1255	1291	1317	1340	1359	1375	1391	1405	1417	48
49	1086	1183	1231	1286	1322	1349	1372	1390	1407	1423	1438	1450	49
50	1115	1212	1261	1317	1353	1381	1403	1422	1439	1455	1470	1482	50

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Table													
Trunks	1	5	10	20	30	40	50	60	70	80	90	100	Trunks
51	1143	1241	1291	1348	1384	1412	1435	1454	1471	1488	1503	1515	51
52	1171	1271	1322	1374	1416	1444	1467	1486	1503	1520	1535	1548	52
53	1200	1301	1352	1410	1447	1475	1499	1518	1536	1553	1568	1581	53
54	1228	1330	1382	1441	1478	1507	1531	1551	1568	1585	1600	1614	54
55	1256	1360	1412	1472	1509	1539	1563	1583	1601	1618	1633	1646	55
56	1285	1390	1443	1503	1541	1571	1595	1615	1633	1650	1666	1679	56
57	1313	1419	1473	1534	1572	1602	1627	1647	1666	1683	1698	1712	57
58	1342	1449	1504	1565	1604	1634	1659	1680	1698	1715	1731	1745	58
59	1371	1479	1534	1596	1635	1666	1691	1712	1731	1748	1764	1778	59
60	1400	1509	1565	1627	1667	1698	1723	1744	1763	1780	1797	1811	60
61	1428	1539	1595	1659	1698	1730	1755	1777	1796	1813	1830	1844	61
62	1457	1570	1626	1690	1730	1762	1787	1809	1828	1845	1863	1877	62
63	1486	1599	1657	1722	1762	1794	1819	1842	1861	1878	1896	1910	63
64	1516	1630	1687	1752	1794	1826	1851	1874	1894	1911	1929	1943	64
65	1544	1660	1718	1784	1825	1858	1884	1907	1926	1944	1962	1976	65
66	1574	1690	1749	1816	1857	1890	1916	1939	1959	1977	1995	2009	66
67	1603	1721	1780	1847	1889	1922	1948	1972	1992	2010	2028	2042	67
68	1632	1751	1811	1878	1921	1955	1981	2004	2024	2043	2061	2076	68
69	1661	1781	1842	1910	1953	1987	2013	2037	2057	2076	2094	2109	69
70	1691	1812	1873	1941	1985	2019	2046	2069	2090	2109	2127	2142	70
71	1720	1842	1904	1973	2017	2051	2078	2102	2123	2142	2160	2175	71
72	1750	1873	1935	2004	2048	2084	2111	2134	2156	2175	2193	2209	72
73	1779	1903	1966	2036	2080	2116	2143	2167	2189	2208	2227	2242	73
74	1809	1934	1997	2067	2112	2148	2176	2200	2222	2241	2260	2276	74
75	1838	1965	2028	2099	2145	2181	2208	2233	2255	2275	2293	2309	75
76	1868	1995	2059	2130	2176	2213	2241	2265	2288	2308	2327	2342	76
77	1898	2026	2091	2162	2209	2245	2274	2298	2321	2341	2360	2376	77
78	1927	2057	2122	2194	2241	2278	2306	2331	2354	2374	2393	2410	78
79	1957	2088	2153	2226	2273	2310	2339	2364	2387	2408	2427	2443	79
80	1986	2118	2184	2258	2305	2343	2372	2397	2420	2441	2460	2477	80
81	2016	2149	2215	2290	2337	2375	2405	2430	2453	2474	2493	2510	81
82	2046	2180	2247	2322	2370	2408	2437	2463	2486	2507	2527	2543	82
83	2076	2211	2278	2354	2402	2440	2470	2496	2519	2541	2560	2577	83
84	2106	2242	2310	2386	2435	2473	2503	2529	2552	2574	2593	2610	84
85	2136	2273	2341	2418	2467	2506	2536	2562	2585	2607	2627	2644	85
86	2166	2304	2373	2450	2499	2538	2569	2595	2618	2640	2660	2678	86
87	2196	2335	2404	2482	2532	2571	2601	2628	2652	2674	2694	2711	87
88	2226	2366	2436	2514	2564	2604	2634	2661	2685	2707	2727	2745	88
89	2256	2397	2467	2546	2596	2636	2667	2694	2718	2740	2761	2778	89
90	2286	2428	2499	2578	2629	2669	2700	2727	2751	2773	2794	2812	90
91	2317	2459	2530	2611	2661	2702	2733	2760	2784	2807	2828	2846	91
92	2346	2490	2562	2643	2694	2735	2766	2793	2817	2840	2861	2880	92
93	2377	2521	2594	2674	2726	2767	2798	2826	2851	2873	2895	2913	93
94	2407	2553	2625	2706	2759	2800	2831	2859	2884	2907	2928	2947	94
95	2437	2584	2657	2739	2791	2833	2864	2892	2917	2940	2962	2981	95
96	2468	2615	2689	2771	2824	2865	2897	2925	2950	2973	2995	3014	96
97	2498	2646	2721	2803	2857	2898	2930	2958	2984	3007	3029	3048	97
98	2528	2678	2752	2836	2889	2931	2963	2991	3017	3040	3062	3082	98
99	2559	2709	2784	2868	2921	2964	2996	3024	3050	3073	3096	3116	99
100	2589	2740	2816	2900	2954	2996	3029	3057	3083	3107	3129	3149	100

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Table

Trunks	1	5	10	20	30	40	50	60	70	80	90	100	Trunks
101	2620	2772	2847	2931	2986	3028	3062	3091	3116	3140	3161	3180	101
102	2650	2803	2879	2964	3019	3061	3095	3124	3150	3173	3194	3214	102
103	2681	2834	2910	2996	3051	3094	3128	3157	3183	3207	3228	3247	103
104	2711	2866	2942	3029	3084	3127	3161	3190	3217	3241	3261	3282	104
105	2742	2897	2974	3061	3116	3159	3194	3223	3250	3274	3295	3315	105
106	2772	2929	3006	3094	3149	3192	3227	3257	3283	3307	3328	3349	106
107	2803	2960	3038	3126	3182	3225	3260	3290	3317	3341	3362	3383	107
108	2834	2991	3070	3158	3215	3258	3293	3323	3350	3374	3396	3417	108
109	2864	3023	3102	3190	3248	3291	3326	3357	3384	3408	3430	3450	109
110	2895	3054	3135	3223	3281	3324	3359	3390	3417	3441	3464	3484	110
111	2926	3086	3166	3255	3313	3357	3393	3424	3450	3476	3497	3518	111
112	2956	3118	3198	3288	3346	3390	3426	3457	3484	3510	3531	3552	112
113	2987	3149	3230	3321	3379	3423	3459	3490	3517	3544	3565	3585	113
114	3018	3181	3262	3353	3411	3456	3493	3524	3551	3579	3599	3619	114
115	3049	3212	3294	3386	3444	3489	3526	3557	3584	3613	3632	3653	115
116	3080	3244	3326	3418	3477	3522	3559	3590	3618	3646	3666	3687	116
117	3110	3276	3359	3451	3510	3555	3592	3624	3651	3679	3700	3721	117
118	3141	3307	3391	3483	3543	3588	3625	3657	3684	3712	3734	3755	118
119	3172	3339	3423	3516	3576	3621	3659	3690	3718	3745	3767	3789	119
120	3203	3371	3456	3548	3609	3654	3692	3724	3751	3778	3801	3823	120
121	3234	3402	3488	3581	3642	3687	3725	3757	3785	3812	3835	3857	121
122	3265	3434	3520	3614	3675	3721	3758	3791	3818	3847	3869	3891	122
123	3296	3466	3552	3647	3708	3754	3792	3824	3852	3878	3902	3924	123
124	3327	3498	3584	3679	3741	3787	3825	3858	3886	3912	3936	3958	124
125	3358	3530	3616	3712	3774	3820	3859	3892	3919	3945	3970	3992	125
126	3389	3562	3648	3745	3806	3854	3892	3925	3953	3979	4004	4026	126
127	3420	3594	3681	3777	3839	3887	3925	3959	3987	4013	4038	4060	127
128	3451	3626	3713	3810	3872	3920	3959	3992	4020	4047	4072	4094	128
129	3482	3657	3746	3843	3905	3953	3992	4025	4054	4081	4106	4128	129
130	3513	3689	3778	3875	3938	3986	4026	4059	4088	4115	4140	4162	130
131	3544	3721	3810	3908	3971	4019	4059	4093	4121	4149	4174	4196	131
132	3576	3753	3843	3941	4005	4053	4092	4126	4155	4183	4207	4230	132
133	3607	3785	3875	3974	4038	4086	4126	4160	4188	4217	4241	4264	133
134	3638	3817	3907	4007	4071	4119	4159	4193	4222	4251	4275	4298	134
135	3669	3849	3939	4039	4104	4152	4192	4227	4256	4285	4309	4332	135
136	3700	3881	3972	4072	4137	4186	4226	4261	4290	4318	4343	4366	136
137	3732	3913	4004	4105	4170	4220	4259	4294	4323	4352	4377	4400	137
138	3763	3945	4037	4138	4203	4253	4293	4328	4357	4386	4411	4434	138
139	3794	3977	4070	4171	4236	4287	4327	4361	4390	4420	4445	4468	139
140	3825	4009	4102	4204	4269	4320	4360	4395	4424	4453	4479	4502	140
141	3857	4042	4134	4237	4302	4353	4394	4429	4458	4487	4513	4536	141
142	3888	4074	4167	4269	4336	4387	4427	4462	4492	4521	4547	4570	142
143	3920	4106	4199	4302	4369	4420	4461	4496	4526	4555	4581	4604	143
144	3951	4138	4231	4335	4402	4453	4494	4530	4560	4589	4615	4638	144
145	3982	4170	4264	4368	4435	4486	4528	4563	4594	4623	4649	4672	145
146	4014	4202	4297	4401	4468	4519	4561	4597	4627	4657	4683	4706	146
147	4045	4235	4329	4434	4502	4553	4595	4630	4661	4691	4717	4741	147
148	4076	4267	4362	4467	4535	4586	4628	4664	4695	4725	4751	4775	148
149	4108	4299	4395	4500	4568	4619	4662	4698	4729	4759	4785	4809	149
150	4139	4331	4427	4533	4601	4653	4695	4731	4763	4793	4819	4843	150

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Table

Trunks	1	5	10	20	30	40	50	60	70	80	90	100	Trunks
151	4171	4363	4460	4566	4634	4686	4729	4765	4797	4826	4853	4877	151
152	4202	4396	4492	4599	4668	4720	4762	4799	4830	4860	4887	4911	152
153	4234	4428	4525	4632	4701	4753	4796	4833	4864	4894	4921	4945	153
154	4265	4460	4557	4665	4734	4787	4830	4867	4898	4928	4955	4979	154
155	4297	4492	4590	4698	4767	4820	4864	4900	4932	4962	4989	5014	155
156	4328	4525	4622	4731	4801	4854	4897	4934	4966	4996	5023	5048	156
157	4360	4557	4655	4764	4834	4887	4931	4968	5000	5030	5057	5082	157
158	4392	4589	4688	4797	4867	4921	4964	5002	5034	5064	5091	5116	158
159	4423	4621	4721	4830	4901	4954	4998	5035	5067	5098	5125	5150	159
160	4455	4654	4754	4864	4934	4987	5032	5069	5101	5132	5159	5185	160
161	4486	4686	4786	4897	4968	5021	5065	5103	5135	5166	5193	5219	161
162	4518	4718	4819	4930	5001	5055	5099	5137	5169	5200	5228	5253	162
163	4550	4751	4851	4963	5034	5088	5132	5170	5203	5234	5262	5287	163
164	4581	4783	4884	4996	5067	5122	5166	5204	5237	5268	5296	5321	164
165	4613	4816	4917	5029	5101	5155	5200	5238	5271	5302	5330	5355	165
166	4645	4848	4949	5062	5134	5189	5234	5272	5305	5336	5364	5389	166
167	4676	4880	4982	5095	5167	5222	5267	5306	5339	5370	5398	5424	167
168	4708	4913	5015	5128	5201	5256	5301	5340	5373	5404	5432	5458	168
169	4740	4945	5048	5161	5234	5290	5335	5374	5407	5439	5466	5492	169
170	4771	4978	5081	5194	5268	5323	5369	5407	5441	5473	5500	5526	170
171	4803	5010	5114	5228	5301	5357	5402	5441	5475	5507	5535	5561	171
172	4835	5043	5146	5261	5335	5390	5436	5475	5509	5541	5569	5595	172
173	4867	5075	5179	5294	5368	5424	5470	5509	5543	5575	5603	5629	173
174	4898	5108	5212	5327	5402	5457	5504	5543	5577	5609	5637	5663	174
175	4930	5140	5245	5361	5435	5491	5537	5577	5612	5643	5671	5698	175
176	4962	5173	5277	5394	5469	5525	5571	5611	5646	5677	5705	5732	176
177	4994	5205	5310	5427	5502	5558	5605	5645	5680	5711	5740	5766	177
178	5026	5238	5343	5460	5535	5592	5638	5678	5714	5745	5774	5801	178
179	5058	5270	5376	5493	5569	5626	5672	5712	5748	5779	5808	5835	179
180	5089	5303	5409	5526	5602	5659	5706	5746	5782	5813	5842	5869	180
181	5121	5335	5442	5560	5635	5693	5740	5780	5816	5847	5876	5903	181
182	5153	5368	5475	5593	5669	5727	5774	5814	5850	5881	5911	5938	182
183	5185	5400	5508	5626	5702	5760	5808	5848	5884	5916	5945	5972	183
184	5217	5433	5541	5660	5736	5794	5841	5882	5918	5950	5979	6006	184
185	5249	5466	5574	5693	5769	5828	5875	5916	5952	5984	6014	6040	185
186	5281	5498	5606	5726	5803	5861	5909	5950	5986	6018	6048	6075	186
187	5313	5531	5639	5760	5837	5895	5943	5984	6020	6052	6082	6109	187
188	5345	5563	5672	5793	5870	5929	5977	6018	6054	6087	6116	6143	188
189	5377	5596	5705	5826	5904	5962	6011	6052	6088	6121	6150	6178	189
190	5409	5629	5738	5859	5937	5996	6045	6086	6122	6155	6184	6212	190
191	5441	5661	5771	5893	5971	6030	6078	6120	6156	6189	6219	6246	191
192	5473	5694	5804	5926	6004	6063	6112	6154	6190	6223	6253	6281	192
193	5505	5727	5837	5959	6038	6097	6146	6188	6224	6257	6287	6315	193
194	5537	5760	5871	5993	6071	6131	6180	6222	6258	6291	6321	6349	194
195	5569	5792	5904	6026	6105	6165	6214	6256	6292	6325	6356	6384	195
196	5601	5825	5937	6059	6138	6199	6247	6290	6326	6360	6390	6418	196
197	5633	5858	5969	6093	6172	6232	6281	6323	6360	6394	6424	6452	197
198	5665	5891	6002	6126	6206	6266	6315	6357	6394	6428	6458	6487	198
199	5697	5923	6035	6160	6239	6300	6349	6391	6428	6462	6493	6521	199
200	5729	5956	6068	6193	6273	6334	6383	6425	6462	6496	6527	6556	200

ERLANG "B" ALTERNATE ROUTING TRUNK TABLES (LOST CALLS CLEARED)

The tables contained in this subsection are used most frequently in trunk engineering, both inter-local and intertoll, when alternate routing arrangements are involved. They are based on the Erlang B "lost call cleared" formula and show for a given offered load per hour in CCS the amount carried by each of N trunks, the cumulative load carried by N trunks and the load overflowing each of N trunks and offered to the next succeeding trunk.

The arrangement of data in the tables implies that a given load is always offered first to trunk No. 1, then to trunk No. 2 and so on as if all trunks were arranged in a straight multiple. Actually, of course, various devices such as multiple turnovers and preferential hunting at opposite ends of a group, designed to equalize physical usage of trunks do not permit such precise loading of individual trunks. Nevertheless, the additional capacity accruing to a group by the addition of a trunk will always apply as described below.

Consider an offering of 200 CCS per hour to a group of $N = 7$ trunks. The tables indicate that trunk No. 1 will carry 31 CCS and overflow 169 CCS which is offered to trunk No. 2. The latter will carry 29 CCS and overflow 140 CCS which in turn is offered to trunk No. 3 and so on. Thus each trunk in succession carries less than the one immediately preceding until the seventh trunk carries only 16 CCS and overflows 31 CCS. The seven trunks as a group therefore carry (200-31) or 169 CCS, the cumulative total shown in the "carried total" column. As noted above the addition of the seventh trunk added only 16 CCS to the capacity of the preceding six trunks and this value is often referred to as the load carried by the "last" trunk — of a group of seven trunks in this example.

The CCS carried by the "last" trunk has a particular significance in connection with determining the number of trunks required in a given HU

group. This matter is discussed in detail in Division G, Section 2-a-(3).

For graded multiple use, assume an offered load of 300 CCS to 15 trunks from 40 selectors: Each 20 selectors would offer 150 CCS to each of two first choice trunks; each of these would carry 29 CCS and overflow (or offer) 121 CCS to each of two second choice trunks; each of the two second choice trunks would carry 27 CCS and overflow (or offer) 94 CCS to the two third choice trunks, etc. Since there are five sets of two trunks from terminals one through five, the steps are the same for trunks one through five. At trunk five, however, the two fifth choice trunks each overflow 32 CCS to one sixth choice trunk so the two overflow values must be combined (64 CCS) to determine what load is offered to the sixth trunk. These steps are useful only in obtaining the approximate load and distribution of traffic to each trunk of a graded multiple arrangement; therefore, the alternate route trunk tables cannot be used as a capacity table for graded multiples.

It will be noted that there are certain limits with respect to CCS per trunk carried and the size of offered load in the tables. While it is possible statistically to extend these limits it appears that the ranges provided are adequate for the great majority of practical problems. Any cases not covered herein will require special consultation.

The basic assumptions behind the Erlang B theorem are as follows:

Calls offered randomly from unlimited sources.

Lost call cleared — A call failing to find an idle trunk disappears from the system and does not reappear within the hour.

Holding time — Either constant (same for all calls) or varying exponentially with respect to an average value.

TABLE 2
ERLANG B TABLES

ALTERNATE ROUTING TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number												CCS Offered
	1			2			3			4			
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		
5	4	4	1										5
6	5	5	1										6
7	6	6	1										7
8	6	6	2										8
9	7	7	2										9
10	8	8	2										10
11	8	8	3										11
12	9	9	3										12
13	10	10	3										13
14	10	10	4										14
15	11	11	4	3	14	1							15
16	11	11	5	4	15	1							16
17	11	11	6	5	16	1							17
18	12	12	6	5	17	1							18
19	12	12	7	5	17	2							19
20	13	13	7	5	18	2							20
21	13	13	8	6	19	2							21
22	14	14	8	6	20	2							22
23	14	14	9	6	20	3							23
24	14	14	10	7	21	3							24
25	15	15	10	7	22	3							25
26	15	15	11	7	22	4							26
27	15	15	12	8	23	4							27
28	16	16	12	8	24	4							28
29	16	16	13	9	25	4							29
30	16	16	14	9	25	5	4	29	1				30
31	17	17	14	9	26	5	4	30	1				31
32	17	17	15	9	26	6	4	30	2				32
33	17	17	16	10	27	6	4	31	2				33
34	18	18	16	10	28	6	4	32	2				34
35	18	18	17	10	28	7	5	33	2				35
36	18	18	18	11	29	7	5	34	2				36
37	18	18	19	11	29	8	5	34	3				37
38	19	19	19	11	30	8	5	35	3				38
39	19	19	20	11	30	9	6	36	3				39
40	19	19	21	12	31	9	6	37	3				40
41	19	19	22	13	32	9	6	38	3				41
42	19	19	23	13	32	10	6	38	4				42
43	19	19	24	13	32	11	7	39	4				43
44	20	20	24	13	33	11	7	40	4				44
45	20	20	25	14	34	11	7	41	4				45
46	20	20	26	14	34	12	7	41	5				46
47	20	20	27	14	34	13	8	42	5	3	45	2	47
48	21	21	27	14	35	13	8	43	5	3	46	2	48
49	21	21	28	14	35	14	8	43	6	4	47	2	49
50	21	21	29	15	36	14	8	44	6	4	48	2	50

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number																		CCS Offered
	1			2			3			4			5			6			
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		
51	21	21	30	15	36	15	9	45	6	4	49	2							51
52	21	21	31	15	36	16	9	45	7	5	50	2							52
53	21	21	32	16	37	16	9	46	7	5	51	2							53
54	22	22	32	16	37	17	10	47	7	5	52	2							54
55	22	22	33	16	38	17	10	48	7	5	53	2							55
56	22	22	34	16	38	18	10	48	8	5	53	3							56
57	22	22	35	17	39	18	10	49	8	5	54	3							57
58	22	22	36	17	39	19	10	49	9	6	55	3							58
59	23	23	36	17	40	19	10	50	9	6	56	3							59
60	23	23	37	17	40	20	11	51	9	6	57	3							60
61	23	23	38	17	40	21	11	51	10	6	57	4							61
62	23	23	39	17	40	22	12	52	10	6	58	4							62
63	23	23	40	17	40	23	12	52	11	7	59	4							63
64	23	23	41	18	41	23	12	53	11	7	60	4							64
65	23	23	42	18	41	24	12	53	12	7	60	5							65
66	23	23	43	18	41	25	13	54	12	7	61	5							66
67	23	23	44	19	42	25	13	55	12	7	62	5	3	65	2				67
68	23	23	45	19	42	26	13	55	13	7	62	6	4	66	2				68
69	24	24	45	19	43	26	13	56	13	7	63	6	4	67	2				69
70	24	24	46	19	43	27	13	56	14	8	64	6	4	68	2				70
71	24	24	47	19	43	28	13	56	15	8	64	7	4	68	3				71
72	24	24	48	19	43	29	14	57	15	8	65	7	4	69	3				72
73	24	24	49	20	44	29	14	58	15	8	66	7	4	70	3				73
74	24	24	50	20	44	30	14	58	16	9	67	7	4	71	3				74
75	24	24	51	20	44	31	14	58	17	9	67	8	5	72	3				75
76	24	24	52	20	44	32	15	59	17	9	68	8	5	73	3				76
77	25	25	52	20	45	32	15	60	17	9	69	8	5	74	3				77
78	25	25	53	20	45	33	15	60	18	9	69	9	5	74	4				78
79	25	25	54	20	45	34	15	60	19	10	70	9	5	75	4				79
80	25	25	55	20	45	35	15	60	20	10	70	10	6	76	4				80
81	25	25	56	21	46	35	15	61	20	10	71	10	6	77	4				81
82	25	25	57	21	46	36	16	62	20	10	72	10	6	78	4				82
83	25	25	58	21	46	37	16	62	21	11	72	11	6	78	5				83
84	25	25	59	21	46	38	16	62	22	11	73	11	6	79	5				84
85	25	25	60	21	46	39	17	63	22	11	74	11	6	80	5				85
86	25	25	61	21	46	40	17	63	23	11	74	12	7	81	5				86
87	26	26	61	21	47	40	17	64	23	11	75	12	7	82	5				87
88	26	26	62	21	47	41	17	64	24	11	75	13	7	82	6	4	86	2	88
89	26	26	63	22	48	41	17	65	24	11	76	13	7	83	6	4	87	2	89
90	26	26	64	22	48	42	17	65	25	12	77	13	7	84	6	4	88	2	90
91	26	26	65	22	48	43	17	65	26	12	77	14	7	84	7	4	88	3	91
92	26	26	66	22	48	44	17	65	27	12	77	15	8	85	7	4	89	3	92
93	26	26	67	22	48	45	18	66	27	12	78	15	8	86	7	4	90	3	93
94	26	26	68	22	48	46	18	66	28	13	79	15	8	87	7	4	91	3	94
95	26	26	69	23	49	46	18	67	28	13	80	15	8	88	7	4	92	3	95
96	26	26	70	23	49	47	18	67	29	13	80	16	8	88	8	5	93	3	96
97	26	26	71	23	49	48	18	67	30	13	80	17	8	89	9	5	93	4	97
98	26	26	72	23	49	49	19	68	30	13	81	17	8	89	9	5	94	4	98
99	26	26	73	23	49	50	19	68	31	13	81	18	9	90	9	5	95		99
100	26	26	74	23	49	51	19	68	32	14	82	18	9	91	9	5	96	4	100
102	27	27	75	23	50	52	19	69	33	14	83	19	9	92	10	6	98	4	102
104	27	27	77	23	50	54	19	69	35	15	84	20	9	93	11	6	99	5	104
106	27	27	79	23	50	56	20	70	36	15	85	21	10	95	11	6	101	5	106
108	27	27	81	24	51	57	20	71	37	15	86	22	10	96	12	6	102	6	108
110	27	27	83	24	51	59	20	71	39	16	87	23	10	97	13	7	104	6	110
112	27	27	85	24	51	61	21	72	40	16	88	24	11	99	13	7	106	6	112
114	27	27	87	24	51	63	21	72	42	16	88	26	12	100	14	7	107	7	114
116	27	27	89	25	52	64	21	73	43	16	89	27	12	101	15	7	108	8	116
118	27	27	91	25	52	66	21	73	45	17	90	28	12	102	16	8	110	8	118
120	28	28	92	25	53	67	21	74	46	17	91	29	12	103	17	8	111	9	120
122	28	28	94	25	53	69	22	75	47	17	92	30	13	105	17	8	113	9	122
124	28	28	96	25	53	71	22	75	49	17	92	32	13	105	19	9	114	10	124
126	28	28	98	25	53	73	22	75	51	18	93	33	14	107	19	9	116	10	126
128	28	28	100	26	54	74	22	76	52	18	94	34	14	108	20	9	117	11	128
130	28	28	102	26	54	76	22	76	54	19	95	35	14	109	21	9	118	12	130

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number																		CCS Offered
	1			2			3			4			5			6			
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		
132	28	28	104	26	54	78	23	77	55	19	96	36	14	110	22	10	120	12	132
134	28	28	106	26	54	80	23	77	57	19	96	38	15	111	23	10	121	13	134
136	28	28	108	26	54	82	23	77	59	20	97	39	15	112	24	10	122	14	136
138	29	29	109	26	55	83	23	78	60	20	98	40	15	113	25	11	124	14	138
140	29	29	111	26	55	85	23	78	62	20	98	42	16	114	26	11	125	15	140
142	29	29	113	26	55	87	24	79	63	20	99	43	16	115	27	11	126	16	142
144	29	29	115	26	55	89	24	79	65	20	99	45	16	115	29	12	127	17	144
146	29	29	117	27	56	90	24	80	66	20	100	46	16	116	30	12	128	18	146
148	29	29	119	27	56	92	24	80	68	20	100	48	17	117	31	12	129	19	148
150	29	29	121	27	56	94	24	80	70	21	101	49	17	118	32	13	131	19	150
152	29	29	123	27	56	96	25	81	71	21	102	50	17	119	33	13	132	20	152
154	29	29	125	27	56	98	25	81	73	21	102	52	17	119	35	14	133	21	154
156	29	29	127	27	56	100	25	81	75	21	102	54	18	120	36	14	134	22	156
158	30	30	128	27	57	101	25	82	76	21	103	55	18	121	37	14	135	23	158
160	30	30	130	27	57	103	25	82	78	22	104	56	18	122	38	14	136	24	160
162	30	30	132	27	57	105	25	82	80	22	104	58	19	123	39	14	137	25	162
164	30	30	134	27	57	107	25	82	82	22	104	60	19	123	41	15	138	26	164
166	30	30	136	27	57	109	26	83	83	22	105	61	19	124	42	15	139	27	166
168	30	30	138	27	57	111	26	83	85	23	106	62	19	125	43	15	140	28	168
170	30	30	140	27	57	113	26	83	87	23	106	64	19	125	45	16	141	29	170
172	30	30	142	28	58	114	26	84	88	23	107	65	19	126	46	16	142	30	172
174	30	30	144	28	58	116	26	84	90	23	107	67	20	127	47	16	143	31	174
176	30	30	146	28	58	118	26	84	92	24	108	68	20	128	48	16	144	32	176
178	30	30	148	28	58	120	26	84	94	24	108	70	20	128	50	17	145	33	178
180	30	30	150	29	59	121	26	85	95	24	109	71	20	129	51	17	146	34	180
182	30	30	152	29	59	123	26	85	97	24	109	73	20	129	53	17	146	36	182
184	30	30	154	29	59	125	26	85	99	24	109	75	21	130	54	17	147	37	184
186	30	30	156	29	59	127	26	85	101	24	109	77	21	130	56	18	148	38	186
188	30	30	158	29	59	129	27	86	102	24	110	78	21	131	57	18	149	39	188
190	30	30	160	29	59	131	27	86	104	24	110	80	22	132	58	18	150	40	190
192	30	30	162	29	59	133	27	86	106	24	110	82	22	132	60	18	150	42	192
194	30	30	164	29	59	135	27	86	108	25	111	83	22	133	61	18	151	43	194
196	30	30	166	29	59	137	27	86	110	25	111	85	22	133	63	19	152	44	196
198	31	31	167	29	60	138	27	87	111	25	112	86	22	134	64	19	153	45	198
200	31	31	169	29	60	140	27	87	113	25	112	88	22	134	66	19	153	47	200
202	31	31	171	29	60	142	27	87	115	25	112	90	23	135	67	19	154	48	202
204	31	31	173	29	60	144	28	88	116	25	113	91	23	136	68	19	154	50	204
206	31	31	175	29	60	146	28	88	118	25	113	93	23	136	70	19	155	51	206
208	31	31	177	29	60	148	28	88	120	25	113	95	23	136	72	20	156	52	208
210	31	31	179	29	60	150	28	88	122	26	114	96	23	137	73	20	157	53	210
212	31	31	181	29	60	152	28	88	124	26	114	98	23	137	75	20	157	55	212
214	31	31	183	29	60	154	28	88	126	26	114	100	24	138	76	20	158	56	214
216	31	31	185	29	60	156	28	88	128	26	114	102	24	138	78	21	159	57	216
218	31	31	187	30	61	157	28	89	129	26	115	103	24	139	79	21	160	58	218
220	31	31	189	30	61	159	28	89	131	26	115	105	24	139	81	21	160	60	220
222	31	31	191	30	61	161	28	89	133	26	115	107	24	139	83	21	160	62	222
224	31	31	193	30	61	163	28	89	135	27	116	108	24	140	84	21	161	63	224
226	31	31	195	30	61	165	28	89	137	27	116	110	24	140	86	22	162	64	226
228	31	31	197	30	61	167	29	90	138	27	117	111	24	141	87	22	163	65	228
230	31	31	199	30	61	169	29	90	140	27	117	113	24	141	89	22	163	67	230
232	31	31	201	30	61	171	29	90	142	27	117	115	24	141	91	22	163	69	232
234	31	31	203	30	61	173	29	90	144	27	117	117	25	142	92	22	164	70	234
236	31	31	205	30	61	175	29	90	146	27	117	119	25	142	94	22	164	72	236
238	31	31	207	30	61	177	29	90	148	28	118	120	25	143	95	22	165	73	238
240	31	31	209	30	61	179	29	90	150	28	118	122	25	143	97	22	165	75	240
242	31	31	211	30	61	181	29	90	152	28	118	124	25	143	99	23	166	76	242
244	31	31	213	31	62	182	29	91	153	28	119	125	25	144	100	23	167	77	244
246	31	31	215	31	62	184	29	91	155	28	119	127	25	144	102	23	167	79	246
248	31	31	217	31	62	186	29	91	157	28	119	129	25	144	104	24	168	80	248
250	31	31	219	31	62	188	29	91	159	28	119	131	25	144	106	24	168	82	250
252	31	31	221	31	62	190	29	91	161	28	119	133	25	144	108	24	168	84	252
254	31	31	223	31	62	192	29	91	163	28	119	135	26	145	109	24	169	85	254
256	31	31	225	31	62	194	29	91	165	28	119	137	26	145	111	24	169	87	256
258	31	31	227	31	62	196	30	92	166	28	120	138	26	146	112	24	170	88	258
260	31	31	229	31	62	198	30	92	168	28	120	140	26	146	114	24	170	90	260

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number																		CCS Offered
	1			2			3			4			5			6			
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		
262	31	31	231	31	62	200	30	92	170	28	120	142	26	146	116	25	171	91	262
264	31	31	233	31	62	202	30	92	172	28	120	144	26	146	118	25	171	93	264
266	32	32	234	31	63	203	30	93	173	28	121	145	26	147	119	25	172	94	266
268	32	32	236	31	63	205	30	93	175	28	121	147	26	147	121	25	172	96	268
270	32	32	238	31	63	207	30	93	177	28	121	149	26	147	123	25	172	98	270
272	32	32	240	31	63	209	30	93	179	28	121	151	26	148	124	25	173	99	272
274	32	32	242	31	63	211	30	93	181	28	121	153	26	148	126	25	173	101	274
276	32	32	244	31	63	213	30	93	183	28	121	155	27	148	128	25	173	103	276
278	32	32	246	31	63	215	30	93	185	29	122	156	27	149	129	25	174	104	278
280	32	32	248	31	63	217	30	93	187	29	122	158	27	149	131	25	174	106	280
282	32	32	250	31	63	219	30	93	189	29	122	160	27	149	133	25	175	107	282
284	32	32	252	31	63	221	30	93	191	29	122	162	27	149	135	25	175	109	284
286	32	32	254	31	63	223	30	93	193	29	122	164	27	149	137	26	175	111	286
288	32	32	256	31	63	225	30	93	195	29	122	166	27	149	139	26	175	113	288
290	32	32	258	31	63	227	31	94	196	29	123	167	27	150	140	26	176	114	290
292	32	32	260	31	63	229	31	94	198	29	123	169	27	150	142	26	176	116	292
294	32	32	262	31	63	231	31	94	200	29	123	171	28	151	143	26	177	117	294
296	32	32	264	31	63	233	31	94	202	29	123	173	28	151	145	26	177	119	296
298	32	32	266	31	63	235	31	94	204	29	123	175	28	151	147	26	177	121	298
300	32	32	268	31	63	237	31	94	206	29	123	177	28	151	149	27	178	122	300
305				32	64	241	31	95	210	29	124	181	28	152	153	27	179	126	305
310				32	64	246	31	95	215	29	124	186	28	152	158	27	179	131	310
315				32	64	251	31	95	220	30	125	190	28	153	162	27	180	135	315
320				32	64	256	31	95	225	30	125	195	29	154	166	27	181	139	320
325				32	64	261	31	95	230	30	125	200	29	154	171	27	181	144	325
330				32	64	266	31	95	235	30	125	205	29	154	176	27	182	148	330
335				32	65	270	31	96	239	30	126	209	29	155	180	27	183	152	335
340				32	65	275	31	96	244	30	126	214	29	155	185	28	183	157	340
345				32	65	280	31	96	249	30	126	219	29	155	190	28	183	162	345
350				32	65	285	31	96	254	31	127	223	29	156	194	28	184	166	350
355				32	65	290	31	96	259	31	127	228	29	157	198	28	185	170	355
360				32	65	295	31	96	264	31	127	233	29	157	203	29	186	174	360
365				32	65	300	31	96	269	31	127	238	30	157	208	29	186	179	365
370				32	65	305	32	97	273	31	128	242	30	158	212	29	187	183	370
375				32	65	310	32	97	278	31	128	247	30	158	217	29	187	188	375
380				32	65	315	32	97	283	31	128	252	30	158	222	29	187	193	380
385				32	65	320	32	97	288	31	128	257	31	159	226	29	188	197	385
390				32	65	325	32	97	293	31	128	262	31	159	231	29	188	202	390
395				32	98	297	31	129	266	31	129	266	31	160	235	29	189	206	395
400				32	98	302	31	129	271	31	129	271	31	160	240	29	189	211	400
405				32	98	307	31	129	276	31	129	276	31	160	245	29	189	216	405
410				32	98	312	31	129	281	31	129	281	31	160	250	30	190	220	410
415				32	98	317	32	130	285	31	130	285	31	161	254	30	191	224	415
420				32	98	322	32	130	290	31	130	290	31	161	259	30	191	229	420
425				32	98	327	32	130	295	31	130	295	31	161	264	30	191	234	425
430				32	98	332	32	130	300	31	130	300	31	161	269	30	191	239	430
435				33	99	336	32	131	304	31	131	304	31	162	273	30	192	243	435
440				33	99	341	32	131	309	31	131	309	31	162	278	30	192	248	440
445				33	99	346	32	131	314	31	131	314	31	162	283	30	192	253	445
450				32	131	319	31	131	319	31	131	319	31	162	288	31	193	257	450
455				32	131	324	32	131	324	32	131	324	32	162	293	31	193	262	455
460				32	131	329	32	131	329	32	131	329	32	163	297	31	194	266	460
465				32	131	334	32	131	334	32	131	334	32	163	302	31	194	271	465
470				32	131	339	32	131	339	32	131	339	32	163	307	31	194	276	470
475				32	131	344	32	131	344	32	131	344	32	163	312	31	194	281	475
480													32	164	316	31	195	285	480
485													32	165	320	31	196	289	485
490													32	165	325	31	196	294	490
495													32	165	330	31	196	299	495
500													32	165	335	31	196	304	500
505													32	165	340	31	196	309	505
510													32	165	345	31	196	314	510
515													32	165	350	31	196	319	515
520													32	165	355	32	197	323	520
525													32	165	360	32	197	328	525

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Readings and
Total CCS Carried on Group

CCS Offered	Trunk Number															CCS Offered
	7			8			9			10			11			
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	
Trk	Tot	Trk		Tot	Trk		Tot	Trk		Tot	Trk		Tot			
110	3	107	3													110
112	3	109	3													112
114	4	111	3													114
116	4	112	4													116
118	4	114	4													118
120	5	116	4													120
122	5	118	4													122
124	5	119	5													124
126	5	121	5													126
128	6	123	5													128
130	6	124	6													130
132	6	126	6													132
134	6	127	7	4	131	3										134
136	7	129	7	4	133	3										136
138	7	131	7	4	135	3										138
140	7	132	8	4	136	4										140
142	8	134	8	4	138	4										142
144	8	135	9	5	140	4										144
146	8	136	10	5	141	5										146
148	9	138	10	5	143	5										148
150	9	140	10	5	145	5										150
152	9	141	11	5	146	6										152
154	9	142	12	6	148	6										154
156	9	143	13	6	149	7	4	153	3							156
158	10	145	13	6	151	7	4	155	3							158
160	10	146	14	7	153	7	4	157	3							160
162	10	147	15	7	154	8	4	158	4							162
164	11	149	15	7	156	8	4	160	4							164
166	11	150	16	7	157	9	4	161	5							166
168	11	151	17	8	159	9	4	163	5							168
170	11	152	18	8	160	10	5	165	5							170
172	12	154	18	8	162	10	5	167	5							172
174	12	155	19	8	163	11	5	168	6							174
176	12	156	20	9	165	11	5	170	6							176
178	12	157	21	9	166	12	6	172	6							178
180	12	158	22	9	167	13	6	173	7							180
182	13	159	23	10	169	13	6	175	7	4	179	3				182
184	13	160	24	10	170	14	6	176	8	4	180	4				184
186	14	162	24	10	172	14	6	178	8	4	182	4				186
188	14	163	25	10	173	15	7	180	8	4	184	4				188
190	14	164	26	10	174	16	7	181	9	4	185	5				190
192	15	165	27	10	175	17	7	182	10	5	187	5				192
194	15	166	28	11	177	17	7	184	10	5	189	5				194
196	15	167	29	11	178	18	8	186	10	5	191	5				196
198	15	168	30	11	179	19	8	187	11	5	192	6				198
200	16	169	31	12	181	19	8	189	11	5	194	6				200
202	16	170	32	12	182	20	8	190	12	5	195	7				202
204	16	171	33	12	183	21	9	192	12	5	197	7				204
206	16	171	35	13	184	22	9	193	13	6	199	7	3	202	4	206
208	16	172	36	13	185	23	9	194	14	6	200	8	4	204	4	208
210	16	173	37	13	186	24	10	196	14	6	202	8	4	206	4	210
212	17	174	38	13	187	25	10	197	15	6	203	9	4	207	5	212
214	17	175	39	13	188	26	10	198	16	7	205	9	4	209	5	214
216	17	176	40	14	190	26	10	200	16	7	207	9	4	211	5	216
218	17	177	41	14	191	27	10	201	17	7	208	10	5	213	5	218
220	18	178	42	14	192	28	10	202	18	7	209	11	5	214	6	220

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number												CCS Offered						
	7			8			9			10			11			12			
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		
222	18	178	44	15	193	29	11	204	18	7	211	11	5	216	6				222
224	18	179	45	15	194	30	11	205	19	8	213	11	5	218	6				224
226	18	180	46	15	195	31	11	206	20	8	214	12	5	219	7				226
228	18	181	47	15	196	32	12	208	20	8	216	12	5	221	7				228
230	19	182	48	15	197	33	12	209	21	8	217	13	6	223	7				230
232	19	182	50	16	198	34	12	210	22	9	219	13	6	225	7	3	228	4	232
234	19	183	51	16	199	35	12	211	23	9	220	14	6	226	8	4	230	4	234
236	20	184	52	16	200	36	12	212	24	9	221	15	6	227	9	4	231	5	236
238	20	185	53	16	201	37	13	214	24	9	223	15	6	229	9	4	233	5	238
240	20	185	55	16	201	39	13	214	26	10	224	16	7	231	9	4	235	5	240
242	20	186	56	17	203	39	13	216	26	10	226	16	7	233	9	4	237	5	242
244	20	187	57	17	204	40	13	217	27	10	227	17	7	234	10	4	238	6	244
246	20	187	59	17	204	42	14	218	28	10	228	18	7	235	11	5	240	6	246
248	20	188	60	17	205	43	14	219	29	11	230	18	7	237	11	5	242	6	248
250	21	189	61	17	206	44	14	220	30	11	231	19	7	238	12	5	243	7	250
252	21	189	63	18	207	45	14	221	31	11	232	20	8	240	12	5	245	7	252
254	21	190	64	18	208	46	14	222	32	11	233	21	8	241	13	6	247	7	254
256	21	190	66	18	208	48	15	223	33	12	235	21	8	243	13	6	249	7	256
258	21	191	67	18	209	49	15	224	34	12	236	22	8	244	14	6	250	8	258
260	22	192	68	18	210	50	15	225	35	12	237	23	9	246	14	6	252	8	260
262	22	193	69	18	211	51	15	226	36	12	238	24	9	247	15	6	253	9	262
264	22	193	71	19	212	52	15	227	37	12	239	25	9	248	16	7	255	9	264
266	22	194	72	19	213	53	16	229	37	12	241	25	9	250	16	7	257	9	266
268	22	194	74	19	213	55	16	229	39	13	242	26	9	251	17	7	258	10	268
270	22	194	76	20	214	56	16	230	40	13	243	27	10	253	17	7	260	10	270
272	22	195	77	20	215	57	16	231	41	13	244	28	10	254	18	7	261	11	272
274	23	196	78	20	216	58	16	232	42	14	246	28	10	256	18	7	263	11	274
276	23	196	80	20	216	60	17	233	43	14	247	29	10	257	19	7	264	12	276
278	23	197	81	20	217	61	17	234	44	14	248	30	10	258	20	8	266	12	278
280	23	197	83	21	218	62	17	235	45	14	249	31	10	259	21	8	267	13	280
282	23	198	84	21	219	63	17	236	46	14	250	32	11	261	21	8	269	13	282
284	23	198	86	21	219	65	17	236	48	15	251	33	11	262	22	8	270	14	284
286	23	198	88	21	219	67	18	237	49	15	252	34	11	263	23	8	271	15	286
288	24	199	89	21	220	68	18	238	50	15	253	35	11	264	24	9	273	15	288
290	24	200	90	21	221	69	18	239	51	15	254	36	12	266	24	9	275	15	290
292	24	200	92	21	221	71	19	240	52	15	255	37	12	267	25	9	276	16	292
294	24	201	93	21	222	72	19	241	53	15	256	38	12	268	26	10	278	16	294
296	24	201	95	21	222	74	19	241	55	16	257	39	12	269	27	10	279	17	296
298	24	201	97	22	223	75	19	242	56	16	258	40	12	270	28	10	280	18	298
300	24	202	98	22	224	76	19	243	57	16	259	41	13	272	28	10	282	18	300
302	24	203	102	22	225	80	20	245	60	16	261	44	14	275	30	10	285	20	302
310	25	204	106	23	227	83	20	247	63	17	264	46	14	278	32	10	288	22	310
315	25	205	110	23	228	87	20	248	67	18	266	49	14	280	35	11	291	24	315
320	25	206	114	23	229	91	21	250	70	18	268	52	15	283	37	11	294	26	320
325	26	207	118	23	230	95	21	251	74	19	270	55	16	286	39	12	298	27	325
330	26	208	122	24	232	98	21	253	77	19	272	58	16	288	42	13	301	29	330
335	26	209	126	24	233	102	22	255	80	19	274	61	16	290	45	13	303	32	335
340	27	210	130	24	234	106	22	256	84	19	275	65	17	292	48	14	306	34	340
345	27	210	135	25	235	110	23	258	87	20	278	67	17	295	50	14	309	36	345
350	27	211	139	25	236	114	23	259	91	20	279	71	18	297	53	14	311	39	350
355	27	212	143	25	237	118	23	260	95	21	281	74	18	299	56	15	314	41	355
360	27	213	147	25	238	122	24	262	98	21	283	77	18	301	59	16	317	43	360
365	27	213	152	26	239	126	24	263	102	21	284	81	19	303	62	16	319	46	365
370	27	214	156	26	240	130	24	264	106	22	286	84	19	305	65	17	322	48	370
375	28	215	160	26	241	134	24	265	110	22	287	88	20	307	68	17	324	51	375
380	28	215	165	26	242	138	25	267	113	22	289	91	20	309	71	17	326	54	380
385	28	216	169	26	243	142	25	268	117	22	290	95	20	310	75	18	328	57	385
390	28	216	174	27	243	147	26	269	121	23	292	98	20	312	78	18	330	60	390
395	28	217	178	27	244	151	26	270	125	23	293	102	21	314	81	19	333	62	395
400	29	218	182	27	245	155	26	271	129	23	294	106	22	316	84	19	335	65	400

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number															CCS Offered			
	7			8			9			10			11			12			
	Carried			Carried			Carried			Carried			Carried			Carried			
	Trk	Tot	Of1	Trk	Tot	Of1	Trk	Tot	Of1	Trk	Tot	Of1	Trk	Tot	Of1	Trk	Tot	Of1	
405	29	218	187	28	246	159	26	272	133	23	295	110	22	317	88	20	337	68	405
410	29	219	191	28	247	163	26	273	137	24	297	113	22	319	91	20	339	71	410
415	29	220	195	28	248	167	26	274	141	24	298	117	22	320	95	20	340	75	415
420	29	220	200	28	248	172	26	274	146	25	299	121	23	322	98	20	342	78	420
425	29	220	205	28	248	177	27	275	150	25	300	125	23	323	102	21	344	81	425
430	29	221	209	28	249	181	27	276	154	25	301	129	23	325	105	21	346	84	430
435	29	222	213	28	250	185	27	277	158	25	302	133	23	326	109	21	347	88	435
440	30	222	218	29	251	189	27	278	162	25	303	137	24	327	113	22	349	91	440
445	30	222	223	29	251	194	27	278	167	26	304	141	24	328	117	22	350	95	445
450	30	223	227	29	252	198	27	279	171	26	305	145	24	329	121	23	352	98	450
455	30	223	232	29	252	203	27	280	175	26	306	149	24	330	125	23	353	102	455
460	30	224	236	29	253	207	27	281	179	26	307	153	25	332	128	23	355	105	460
465	30	224	241	29	253	212	28	281	184	27	308	157	25	333	132	23	356	109	465
470	30	224	246	30	254	216	28	282	188	27	309	161	25	334	136	23	357	113	470
475	30	224	251	30	254	221	28	282	193	27	309	166	26	335	140	23	358	117	475
480	30	225	255	30	255	225	28	283	197	27	310	170	26	336	144	24	360	120	480
485	30	226	259	30	256	229	28	284	201	27	311	174	26	337	148	24	361	124	485
490	30	226	264	30	256	234	28	284	206	28	312	178	26	338	152	24	362	128	490
495	30	226	269	30	256	239	29	285	210	28	313	182	26	339	156	24	363	132	495
500	30	226	274	30	256	244	29	285	215	28	313	187	27	340	160	25	365	135	500
505	31	227	278	30	257	248	29	286	219	28	314	191	27	341	164	25	366	139	505
510	31	227	283	30	257	253	30	287	223	28	315	195	27	342	168	25	367	143	510
515	31	227	288	30	257	258	30	287	228	28	315	200	27	342	173	26	368	147	515
520	31	228	292	30	258	262	30	288	232	28	316	204	27	343	177	26	369	151	520
525	31	228	297	30	258	267	30	288	237	28	316	209	28	344	181	26	370	155	525
530	31	228	302	31	259	271	30	289	241	28	317	213	28	345	185	26	371	159	530
535	31	228	307	31	259	276	30	289	246	28	317	218	28	345	190	27	372	163	535
540	31	229	311	31	260	280	30	290	250	28	318	222	28	346	194	27	373	167	540
545	31	229	316	31	260	285	30	290	255	29	319	226	28	347	198	27	374	171	545
550	31	229	321	31	260	290	30	290	260	29	319	231	28	347	203	27	374	176	550
555				31	261	294	30	291	264	29	320	235	28	348	207	27	375	180	555
560				31	261	299	30	291	269	29	320	240	28	348	212	28	376	184	560
565				31	261	304	30	291	274	30	321	244	28	349	216	28	377	188	565
570				31	262	308	30	292	278	30	322	248	28	350	220	28	378	192	570
575				31	262	313	30	292	283	30	322	253	29	351	224	28	379	196	575
580				31	262	318	30	292	288	30	322	258	29	352	228	28	379	201	580
585							30	293	292	30	323	262	29	352	233	28	380	205	585
590							31	294	296	30	324	266	29	353	237	28	381	209	590
595							31	294	301	30	324	271	30	354	241	28	382	213	595
600							31	294	306	30	324	276	30	354	246	28	382	218	600
605							31	294	311	30	324	281	30	354	251	29	383	222	605
610							31	295	315	30	325	285	30	355	255	29	384	226	610
615							31	296	319	30	326	289	30	356	259	29	385	230	615
620							31	296	324	30	326	294	30	356	264	29	385	235	620
625							31	296	329	30	326	299	30	356	269	29	385	240	625
630							31	296	334	31	327	303	30	357	273	29	386	244	630
635							31	296	339	31	327	308	30	357	278	29	386	249	635
640							31	297	343	31	328	312	30	358	282	29	387	253	640
645							31	297	348	31	328	317	30	358	287	30	388	257	645
650							31	297	353	31	328	322	30	358	292	30	388	262	650
655							31	298	357	31	329	326	30	359	296	30	389	266	655
660							31	298	362	31	329	331	30	359	301	30	389	271	660
665										31	330	335	30	360	305	30	390	275	665
670										31	330	340	30	360	310	30	390	280	670
675										31	330	345	31	361	314	30	391	284	675
680										31	330	350	31	361	319	30	391	289	680
685										31	330	355	31	361	324	30	391	294	685
690													31	362	328	30	392	298	690
695													31	362	333	30	392	303	695
700													31	363	337	30	393	307	700
705													31	363	342	30	393	312	705

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number																		CCS Offered
	13			14			15			16			17			18			
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		
258	4	254	4																258
260	4	256	4																260
262	4	257	5																262
264	4	259	5																264
266	4	261	5																266
268	4	262	6																268
270	4	264	6																270
272	5	266	6																272
274	5	268	6																274
276	5	269	7																276
278	5	271	7																278
280	5	272	8																280
282	5	274	8	4	278	4													282
284	6	276	8	4	280	4													284
286	6	277	9	4	281	5													286
288	6	279	9	4	283	5													288
290	6	281	9	4	285	5													290
292	6	282	10	4	286	6													292
294	6	284	10	4	288	6													294
296	6	285	11	5	290	6													296
298	7	287	11	5	292	6													298
300	7	289	11	5	294	6													300
305	7	292	13	5	297	8													305
310	8	296	14	6	302	8	4	306	4										310
315	9	300	15	6	306	9	4	310	5										315
320	9	303	17	7	310	10	4	314	6										320
325	9	307	18	7	314	11	4	318	7										325
330	10	311	19	7	318	12	5	323	7										330
335	11	314	21	8	322	13	5	327	8										335
340	11	317	23	8	325	15	6	331	9	4	335	5							340
345	11	320	25	9	329	16	6	335	10	4	339	6							345
350	12	323	27	9	332	18	7	339	11	5	344	6							350
355	12	326	29	10	336	19	7	343	12	5	348	7							355
360	13	330	30	10	340	20	7	347	13	5	352	8							360
365	13	332	33	11	343	22	7	350	15	6	356	9	4	360	5				365
370	13	335	35	11	346	24	8	354	16	6	360	10	4	364	6				370
375	14	338	37	11	349	26	9	358	17	6	364	11	4	368	7				375
380	15	341	39	12	353	27	9	362	18	6	368	12	5	373	7				380
385	15	343	42	13	356	29	9	365	20	7	372	13	5	377	8				385
390	16	346	44	13	359	31	9	368	22	8	376	14	5	381	9	4	385	5	390
395	16	349	46	13	362	33	10	372	23	8	380	15	5	385	10	4	389	6	395
400	16	351	49	13	364	36	11	375	25	9	384	16	6	390	10	4	394	6	400
405	16	353	52	14	367	38	11	378	27	9	387	18	6	393	12	5	398	7	405
410	17	356	54	14	370	40	12	382	28	9	391	19	6	397	13	5	402	8	410
415	18	358	57	15	373	42	12	385	30	9	394	21	7	401	14	5	406	9	415
420	18	360	60	15	375	45	13	388	32	10	398	22	7	405	15	6	411	9	420
425	18	362	63	16	378	47	13	391	34	10	401	24	8	409	16	6	415	10	425

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number																		CCS Offered
	13			14			15			16			17			18			
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		
430	18	364	66	16	380	50	14	394	36	11	405	25	8	413	17	6	419	11	430
435	19	366	69	17	383	52	14	397	38	11	408	27	9	417	18	6	423	12	435
440	19	368	72	17	385	55	14	399	41	12	411	29	9	420	20	7	427	13	440
445	20	370	75	17	387	58	15	402	43	12	414	31	10	424	21	7	431	14	445
450	20	372	78	18	390	60	15	405	45	12	417	33	10	427	23	8	435	15	450
455	21	374	81	18	392	63	15	407	48	13	420	35	10	430	25	8	438	17	455
460	21	376	84	18	394	66	16	410	50	13	423	37	11	434	26	8	442	18	460
465	21	377	88	19	396	69	16	412	53	14	426	39	11	437	28	9	446	19	465
470	22	379	91	19	398	72	17	415	55	14	429	41	11	440	30	9	449	21	470
475	22	380	95	20	400	75	17	417	58	14	431	44	12	443	32	10	453	22	475
480	22	382	98	20	402	78	17	419	61	15	434	46	12	446	34	10	456	24	480
485	23	384	101	20	404	81	18	422	63	15	437	48	13	450	35	10	460	25	485
490	23	385	105	21	406	84	18	424	66	16	440	50	13	453	37	11	464	26	490
495	23	386	109	21	407	88	19	426	69	16	442	53	13	455	40	11	466	29	495
500	23	388	112	21	409	91	19	428	72	16	444	56	14	458	42	12	470	30	500
505	23	389	116	22	411	94	19	430	75	17	447	58	14	461	44	12	473	32	505
510	23	390	120	22	412	98	20	432	78	17	449	61	15	464	46	12	476	34	510
515	24	392	123	22	414	101	20	434	81	17	451	64	15	466	49	13	479	36	515
520	24	393	127	23	416	104	20	436	84	18	454	66	15	469	51	13	482	38	520
525	24	394	131	23	417	108	21	438	87	18	456	69	16	472	53	13	485	40	525
530	24	395	135	23	418	112	21	439	91	19	458	72	16	474	56	14	488	42	530
535	25	397	138	23	420	115	21	441	94	19	460	75	17	477	58	14	491	44	535
540	25	398	142	23	421	119	22	443	97	19	462	78	17	479	61	15	494	46	540
545	25	399	146	23	422	123	22	444	101	20	464	81	17	481	64	15	496	49	545
550	26	400	150	24	424	126	22	446	104	20	466	84	18	484	66	15	499	51	550
555	26	401	154	24	425	130	22	447	108	21	468	87	18	486	69	16	502	53	555
560	26	402	158	24	426	134	22	448	112	21	469	91	19	488	72	16	504	56	560
565	26	403	162	24	427	138	23	450	115	21	471	94	19	490	75	16	506	59	565
570	26	404	166	25	429	141	23	452	118	21	473	97	19	492	78	17	509	61	570
575	26	405	170	25	430	145	23	453	122	22	475	100	19	494	81	17	511	64	575
580	26	406	174	25	431	149	23	454	126	22	476	104	20	496	84	17	513	67	580
585	26	407	178	25	432	153	24	456	129	22	478	107	20	498	87	18	516	69	585
590	27	408	182	25	433	157	24	457	133	23	480	110	20	500	90	18	518	72	590
595	27	409	186	25	434	161	24	458	137	23	481	114	21	502	93	18	520	75	595
600	27	409	191	26	435	165	24	459	141	23	482	118	21	503	97	19	522	78	600
605	27	410	195	26	436	169	25	461	144	23	484	121	21	505	100	19	524	81	605
610	27	411	199	26	437	173	25	462	148	23	485	125	22	507	103	19	526	84	610
615	27	412	203	26	438	177	25	463	152	23	486	129	22	508	107	20	528	87	615
620	28	413	207	26	439	181	26	465	155	23	488	132	22	510	110	20	530	90	620
625	28	413	212	27	440	185	26	466	159	24	490	135	22	512	113	20	532	93	625
630	28	414	216	27	441	189	26	467	163	24	491	139	22	513	117	21	534	96	630
635	29	415	220	27	442	193	26	468	167	24	492	143	23	515	120	21	536	99	635
640	29	416	224	27	443	197	26	469	171	24	493	147	23	516	124	21	537	103	640
645	29	417	228	27	444	201	26	470	175	25	495	150	23	518	127	21	539	106	645
650	29	417	233	27	444	206	27	471	179	25	496	154	23	519	131	21	540	110	650

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number																		CCS Offered
	13			14			15			16			17			18			
	Carried			Carried			Carried			Carried			Carried			Carried			
	Trk	Tot	Of1	Trk	Tot	Of1	Trk	Tot	Of1	Trk	Tot	Of1	Trk	Tot	Of1	Trk	Tot	Of1	
655	29	418	237	27	445	210	27	472	183	25	497	158	23	520	135	22	542	113	655
660	29	418	242	28	446	214	27	473	187	25	498	162	24	522	138	22	544	116	660
665	29	419	246	28	447	218	27	474	191	25	499	166	24	523	142	23	546	119	665
670	29	419	251	28	447	223	27	474	196	26	500	170	24	524	146	23	547	123	670
675	29	420	255	28	448	227	27	475	200	26	501	174	25	526	149	23	549	126	675
680	29	421	259	28	449	231	27	476	204	26	502	178	25	527	153	23	550	130	680
685	29	421	264	28	449	236	28	477	208	26	503	182	25	528	157	24	552	133	685
690	30	422	268	28	450	240	28	478	212	26	504	186	25	529	161	24	553	137	690
695	30	422	273	29	451	244	28	479	216	26	505	190	26	531	164	24	555	140	695
700	30	423	277	29	452	248	28	480	220	26	506	194	26	532	168	24	556	144	700
705	30	423	282	29	452	253	28	480	225	26	507	198	26	533	172	24	557	148	705
710	30	424	286	29	453	257	28	481	229	26	508	202	26	534	176	24	558	152	710
715	30	425	290	29	454	261	28	482	233	27	509	206	26	535	180	25	560	155	715
720	30	425	295	29	454	266	28	482	238	27	509	211	27	536	184	25	561	159	720
725	30	425	300	29	454	271	29	483	242	27	510	215	27	537	188	25	562	163	725
730	30	426	304	29	455	275	29	484	246	27	511	219	27	538	192	25	563	167	730
735	30	426	309	29	455	280	29	484	251	28	512	223	27	539	196	25	564	171	735
740	30	427	313	29	456	284	29	485	255	28	513	227	27	540	200	25	565	175	740
745	30	427	318	30	457	288	29	486	259	28	514	231	27	541	204	26	567	178	745
750	30	428	322	30	458	292	29	487	263	28	515	235	27	542	208	26	568	182	750
755	30	428	327	30	458	297	29	487	268	28	515	240	27	543	212	26	569	186	755
760	30	428	332	30	458	302	29	487	273	29	516	244	27	544	216	26	570	190	760
765				30	459	306	29	488	277	29	517	248	28	545	220	26	571	194	765
770				30	459	311	29	488	282	29	517	253	28	545	225	27	572	198	770
775				30	460	315	29	489	286	29	518	257	28	546	229	27	573	202	775
780				30	460	320	29	490	290	29	519	261	28	547	233	27	574	206	780
785				30	460	325	29	490	295	29	519	266	28	547	238	27	574	211	785
790				30			30	491	299	29	520	270	28	548	242	27	575	215	790
795				30			30	492	303	29	521	274	28	549	246	27	576	219	795
800				30			30	492	308	29	521	279	29	550	250	27	577	223	800
810							30	493	317	29	522	288	29	551	259	28	579	231	810
820							30	494	326	29	523	297	29	552	268	28	580	240	820
830							30	495	335	30	525	305	29	554	276	28	582	248	830
840										30	526	314	29	555	285	28	583	257	840
850										30	527	323	29	556	294	29	585	265	850
860										30	528	332	29	557	303	29	586	274	860
870										30	529	341	30	559	311	29	588	282	870
880													30	560	320	29	589	291	880
890													30	561	329	29	590	300	890
900													30	562	338	29	591	309	900
910																30	593	317	910
920																30	594	326	920
930																30	595	335	930
940																31	596	344	940
950																31	597	353	950

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number																		CCS Offered
	19			20			21			22			23			24			
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		
420	4	415	5																420.
425	4	419	6																425
430	4	423	7																430
435	5	428	7																435
440	5	432	8																440
445	5	436	9	4	440	5													445
450	5	440	10	4	444	6													450
455	6	444	11	4	448	7													455
460	6	448	12	4	452	8													460
465	6	452	13	5	457	8													465
470	7	456	14	5	461	9	4	465	5										470
475	7	460	15	5	465	10	4	469	6										475
480	8	464	16	5	469	11	4	473	7										480
485	8	468	17	6	474	11	4	478	7										485
490	8	472	18	6	478	12	4	482	8										490
495	9	475	20	7	482	13	4	486	9										495
500	9	479	21	7	486	14	5	491	9	4	495	5							500
505	10	483	22	7	490	15	5	495	10	4	499	6							505
510	10	486	24	7	493	17	6	499	11	4	503	7							510
515	10	489	26	8	497	18	6	503	12	4	507	8							515
520	11	493	27	8	501	19	6	507	13	5	512	8							520
525	11	496	29	9	505	20	6	511	14	5	516	9							525
530	11	499	31	9	508	22	7	515	15	5	520	10	4	524	6				530
535	12	503	32	9	512	23	7	519	16	5	524	11	4	528	7				535
540	12	506	34	10	516	24	7	523	17	6	529	11	4	533	7				540
545	13	509	36	10	519	26	8	527	18	6	533	12	4	537	8				545
550	13	512	38	10	522	28	8	530	20	7	537	13	4	541	9				550
555	13	515	40	11	526	29	8	534	21	7	541	14	5	546	9				555
560	14	518	42	11	529	31	9	538	22	7	545	15	5	550	10	4	554	6	560
565	14	520	45	12	532	33	9	541	24	7	548	17	6	554	11	4	558	7	565
570	14	523	47	12	535	35	10	545	25	7	552	18	6	558	12	4	562	8	570
575	15	526	49	12	538	37	10	548	27	8	556	19	6	562	13	5	567	8	575
580	15	528	52	13	541	39	11	552	28	8	560	20	6	566	14	5	571	9	580
585	15	531	54	13	544	41	11	555	30	9	564	21	6	570	15	5	575	10	585
590	16	534	56	13	547	43	11	558	32	9	567	23	7	574	16	5	579	11	590
595	16	536	59	14	550	45	12	562	33	9	571	24	7	578	17	6	584	11	595
600	17	539	61	14	553	47	12	565	35	10	575	25	7	582	18	6	588	12	600
605	17	541	64	15	556	49	12	568	47	10	578	27	8	586	19	6	592	13	605
610	17	543	67	15	558	52	13	571	39	11	582	28	8	590	20	6	596	14	610
615	18	546	69	15	561	54	13	574	41	11	585	30	8	593	22	7	600	15	615
620	18	548	72	16	564	56	13	577	43	11	588	32	9	597	23	7	604	16	620
625	18	550	75	16	566	59	14	580	45	12	592	33	9	601	24	7	608	17	625
630	18	552	78	17	569	61	14	583	47	12	595	35	9	604	26	8	612	18	630
635	18	554	81	17	571	64	15	586	49	12	598	37	10	608	27	8	616	19	635
640	19	556	84	17	573	67	15	588	52	13	601	39	10	611	29	8	619	21	640
645	19	558	87	18	576	69	15	591	54	13	604	41	10	614	31	9	623	22	645
650	20	560	90	18	578	72	16	594	56	13	607	43	11	618	32	9	627	23	650
655	20	562	93	18	580	75	16	596	59	14	610	45	11	621	34	9	630	25	655
660	20	564	96	19	583	77	16	599	61	14	613	47	11	624	36	10	634	26	660
665	20	566	99	19	585	80	16	601	64	14	615	50	12	627	38	10	637	28	665
670	21	568	102	19	587	83	17	604	66	14	618	52	13	631	39	10	641	29	670
675	21	570	105	19	589	86	17	606	69	15	621	54	13	634	41	10	644	31	675
680	21	571	109	20	591	89	17	608	72	15	623	57	13	636	44	11	647	33	680
685	21	573	112	20	593	92	18	611	74	16	627	58	13	640	45	11	651	34	685
690	22	575	115	20	595	95	18	613	77	16	629	61	13	642	48	12	654	36	690
695	22	577	118	20	597	98	18	615	80	16	631	64	14	645	50	12	657	38	695
700	22	578	122	20	598	102	19	617	83	17	634	66	14	648	52	12	660	40	700

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number																								CCS Offered
	19			20			21			22			23			24									
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1							
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot								
705	22	579	126	21	600	105	19	619	86	17	636	69	15	651	54	12	663	42	705						
710	23	581	129	21	602	108	20	622	88	17	639	71	15	654	56	13	667	43	710						
715	23	583	132	21	604	111	20	624	91	17	641	74	15	656	59	13	669	46	715						
720	23	584	136	21	605	115	20	625	95	18	643	77	16	659	61	14	673	47	720						
725	23	585	140	22	607	118	20	627	98	18	645	80	16	661	64	14	675	50	725						
730	23	587	143	22	609	121	20	629	101	19	648	82	16	664	66	14	678	52	730						
735	23	588	147	22	610	125	21	631	104	19	650	85	17	667	68	14	681	54	735						
740	24	589	151	23	612	128	21	633	107	19	652	88	17	669	71	15	684	56	740						
745	24	591	154	23	614	131	21	635	110	19	654	91	17	671	74	15	686	59	745						
750	24	592	158	23	615	135	21	636	114	20	656	94	18	674	76	15	689	61	750						
755	24	593	162	24	616	139	21	638	117	20	658	97	18	676	79	16	692	63	755						
760	24	594	166	24	618	142	21	640	120	20	660	100	18	678	82	16	694	66	760						
765	25	596	169	24	620	145	22	642	123	20	662	103	18	680	85	17	697	68	765						
770	25	597	173	24	621	149	22	643	127	20	663	107	19	682	88	17	699	71	770						
775	25	598	177	24	622	153	22	644	131	21	665	110	19	684	91	17	701	74	775						
780	25	599	181	24	623	157	23	646	134	21	667	113	19	686	94	18	704	76	780						
785	26	600	185	25	625	160	23	648	137	21	669	116	19	688	97	18	706	79	785						
790	26	601	189	25	626	164	23	649	141	21	670	120	20	690	100	18	708	82	790						
795	26	602	193	25	627	168	24	651	144	21	672	123	20	692	103	19	711	84	795						
800	26	603	197	25	628	172	24	652	148	22	674	126	20	694	106	19	713	87	800						
810	26	605	205	25	631	179	24	655	155	22	677	133	21	698	112	19	717	93	810						
820	27	607	213	26	633	187	24	657	163	23	680	140	22	702	118	19	721	99	820						
830	27	609	221	26	635	195	25	660	170	23	683	147	22	705	125	20	725	105	830						
840	28	611	229	26	637	203	25	662	178	24	686	154	22	708	132	21	729	111	840						
850	28	613	237	26	639	211	26	665	185	24	689	161	23	712	138	21	733	117	850						
860	28	614	246	27	641	219	26	667	193	25	692	168	23	715	145	21	736	124	860						
870	28	616	254	27	643	227	26	669	201	25	694	176	24	718	152	22	740	130	870						
880	28	617	263	28	645	235	26	671	209	25	696	184	24	720	160	23	743	137	880						
890	28	618	272	28	646	244	27	673	217	26	699	191	24	723	167	23	746	144	890						
900	29	620	280	28	648	252	27	675	225	26	701	199	25	726	174	23	749	151	900						
910	29	622	288	28	650	260	27	677	233	26	703	207	25	728	182	24	752	158	910						
920	29	623	297	28	651	269	28	679	241	26	705	215	25	730	190	24	754	166	920						
930	29	624	306	29	653	277	28	681	249	26	707	223	26	733	197	24	757	173	930						
940	29	625	315	29	654	286	28	682	258	27	709	231	26	735	205	25	760	180	940						
950	29	626	324	29	655	295	29	684	266	27	711	239	26	737	213	25	762	188	950						
960	30	628	332	29	657	303	29	686	274	27	713	247	26	739	221	25	765	195	960						
970	30	629	341	29	658	312	29	687	283	27	714	256	27	741	229	25	767	203	970						
980	30	630	350	29	659	321	29	688	292	28	716	264	27	743	237	26	769	211	980						
990	31	631	359	29	660	330	29	689	301	28	717	273	28	745	245	26	771	219	990						
1000				30	662	338	29	691	309	28	719	281	28	747	253	26	773	227	1000						
1010				30	663	347	29	692	318	28	721	289	28	749	261	26	775	235	1010						
1020				30	664	356	29	693	327	28	722	298	28	750	270	27	777	243	1020						
1030				30	665	365	29	694	336	29	723	307	29	752	278	27	779	251	1030						
1040				30	666	374	29	696	344	29	725	315	29	754	286	27	781	259	1040						
1050				30	667	383	29	697	353	29	726	324	29	755	295	28	783	267	1050						
1060				30	698	362	29	727	333	29	727	333	29	756	304	28	784	276	1060						
1070				30	699	371	29	729	341	30	729	341	29	758	312	28	786	284	1070						
1080				30	700	380				30	730	350	29	759	321	28	787	293	1080						
1090										30	731	359	30	761	329	28	789	301	1090						
1100										30	732	368	30	762	338	28	790	310	1100						
1110										30	733	377	30	763	347	29	792	318	1110						
1120										30	734	386	30	764	356	29	793	327	1120						
1130										30	735	395	30	765	365	29	794	337	1130						
1140													30	766	374	30	796	347	1140						
1150													30	767	383	30	797	357	1150						
1160													30	768	392	30	798	362	1160						
1170													30	769	401	30	799	371	1170						
1180													30	770	410	30	800	380	1180						
1190													30	771	419	30	801	389	1190						

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number															CCS Offered			
	25			26			27			28			29				30		
	Carried			Carried			Carried			Carried			Carried				Carried		
	Trk	Tot	Of1	Trk	Tot	Of1	Trk	Tot	Of1	Trk	Tot	Of1	Trk	Tot	Of1		Trk	Tot	Of1
590	4	583	7																590
595	4	588	7																595
600	4	592	8																600
605	4	596	9																605
610	5	601	9																610
615	5	605	10	4	609	6													615
620	5	609	11	4	613	7													620
625	5	613	12	4	617	8													625
630	6	618	12	4	622	8													630
635	6	622	13	4	626	9													635
640	6	625	15	5	630	10													640
645	7	630	15	5	635	10	3	638	7										645
650	7	634	16	5	639	11	4	643	7										650
655	7	637	18	6	643	12	4	647	8										655
660	7	641	19	6	647	13	4	651	9										660
665	8	645	20	6	651	14	5	656	9										665
670	8	649	21	6	655	15	5	660	10										670
675	8	652	23	7	659	16	5	664	11	4	668	7							675
680	9	656	24	7	663	17	5	668	12	4	672	8							680
685	9	660	25	7	667	18	6	673	12	4	677	8							685
690	9	663	27	8	671	19	6	677	13	4	681	9							690
695	10	667	28	8	675	20	6	681	14	4	685	10							695
700	10	670	30	8	678	22	7	685	15	5	690	10	3	693	7				700
705	11	674	31	8	682	23	7	689	16	5	694	11	4	698	7				705
710	11	678	32	8	686	24	7	693	17	5	698	12	4	702	8				710
715	11	680	35	9	689	26	8	697	18	6	703	12	4	707	8				715
720	11	684	36	9	693	27	8	701	19	6	707	13	4	711	9				720
725	12	687	38	10	697	28	8	705	20	6	711	14	4	715	10				725
730	12	690	40	10	700	30	8	708	22	6	714	16	5	719	11	4	723	7	730
735	12	693	42	11	704	31	8	712	23	7	719	16	5	724	11	4	728	7	735
740	12	696	44	11	707	33	9	716	24	7	723	17	5	728	12	4	732	8	740
745	13	699	46	11	710	35	9	719	26	7	726	19	6	732	13	4	736	9	745
750	13	702	48	12	714	36	9	723	27	7	730	20	6	736	14	5	741	9	750
755	13	705	50	12	717	38	10	727	28	7	734	21	6	740	15	5	745	10	755
760	14	708	52	12	720	40	10	730	30	8	738	22	6	744	16	5	749	11	760
765	14	711	54	12	723	42	10	733	32	8	741	24	7	748	17	5	753	12	765
770	15	714	56	12	726	44	11	737	33	8	745	25	7	752	18	5	757	13	770
775	15	716	59	13	729	46	11	740	35	9	749	26	7	756	19	6	762	13	775
780	15	719	61	13	732	48	12	744	36	9	753	27	7	760	20	6	766	14	780
785	16	722	63	13	735	50	12	747	38	9	756	29	8	764	21	6	770	15	785
790	16	724	66	14	738	52	12	750	40	10	760	30	8	768	22	6	774	16	790
795	16	727	68	14	741	54	12	753	42	10	763	32	8	771	24	7	778	17	795
800	16	729	71	15	744	56	12	756	44	11	767	33	8	775	25	7	782	18	800
810	17	734	76	15	749	61	13	762	48	11	773	37	9	782	28	8	790	20	810
820	18	739	81	16	755	65	13	768	52	12	780	40	10	790	30	8	798	22	820
830	18	743	87	17	760	70	14	774	56	12	786	44	10	796	34	9	805	25	830
840	19	748	92	17	765	75	15	780	60	13	793	47	11	804	36	9	813	27	840
850	19	752	98	18	770	80	15	785	65	13	798	52	12	810	40	10	820	30	850
860	20	756	104	18	774	86	16	790	70	14	804	56	12	816	44	10	826	34	860
870	20	760	110	18	778	92	17	795	75	15	810	60	13	823	47	11	834	36	870
880	21	764	116	19	783	97	17	800	80	15	815	65	14	829	51	11	840	40	880
890	21	767	123	19	786	104	18	804	86	16	820	70	14	834	56	12	846	44	890
900	22	771	129	19	790	110	19	809	91	16	825	75	15	840	60	13	853	47	900

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number																		CCS Offered
	25			26			27			28			29			30			
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		
910	22	774	136	20	794	116	19	813	97	17	830	80	15	845	65	14	859	51	910
920	23	777	143	21	798	122	19	817	103	18	835	85	16	851	69	14	865	55	920
930	23	780	150	22	802	128	19	821	109	19	840	90	16	856	74	14	870	60	930
940	23	783	157	22	805	135	20	825	115	19	844	96	17	861	79	15	876	64	940
950	24	786	164	22	808	142	21	829	121	19	848	102	18	866	84	15	881	69	950
960	24	789	171	23	812	148	21	833	127	19	852	108	19	871	89	16	887	73	960
970	25	792	178	23	815	155	21	836	134	20	856	114	19	875	95	16	891	79	970
980	25	794	186	24	818	162	22	840	140	20	860	120	19	879	101	17	896	84	980
990	25	796	194	24	820	170	23	843	147	21	864	126	19	883	107	18	901	89	990
1000	26	799	201	24	823	177	23	846	154	21	867	133	20	887	113	19	906	94	1000
1010	26	801	209	25	826	184	23	849	161	22	871	139	20	891	119	19	910	100	1010
1020	26	803	217	25	828	192	24	852	168	22	874	146	21	895	125	19	914	106	1020
1030	26	805	225	26	831	199	24	855	175	23	878	152	21	899	131	19	918	112	1030
1040	26	807	233	26	833	207	24	857	183	23	880	160	22	902	138	20	922	118	1040
1050	26	809	241	26	835	215	25	860	190	24	884	166	22	906	144	20	926	124	1050
1060	27	811	249	26	837	223	25	862	198	24	886	174	23	909	151	21	930	130	1060
1070	27	813	257	27	840	230	25	865	205	24	889	181	23	912	158	21	933	137	1070
1080	28	815	265	27	842	238	25	867	213	25	892	188	23	915	165	22	937	143	1080
1090	28	817	273	27	844	246	26	870	220	25	895	195	23	918	172	22	940	150	1090
1100	28	818	282	27	845	255	27	872	228	25	897	203	24	921	179	23	944	156	1100
1110	28	820	290	27	847	263	27	874	236	25	900	210	24	924	186	23	947	163	1110
1120	29	822	298	27	849	271	27	876	244	25	902	218	24	926	194	23	949	171	1120
1130	29	823	307	28	851	279	27	878	252	26	904	226	25	929	201	24	953	177	1130
1140	29	825	315	28	853	287	27	880	260	26	906	234	25	931	209	24	955	185	1140
1150	29	826	324	28	854	296	28	882	268	26	908	242	26	934	216	24	958	192	1150
1160	29	827	333	28	856	304	28	884	276	26	910	250	26	936	224	24	961	199	1160
1170	29	828	342	28	857	313	28	885	285	27	912	258	26	938	232	24	963	207	1170
1180	30	830	350	29	859	321	28	887	293	27	914	266	27	941	239	25	966	214	1180
1190	30	831	359	29	860	330	28	888	302	28	916	274	27	943	247	25	968	222	1190
1200	30	833	367	29	862	338	28	890	310	28	918	282	27	945	255	25	970	230	1200
1210	30	834	376	29	863	347	28	892	318	28	920	290	27	947	263	26	973	237	1210
1220	30	835	385	29	864	356	28	893	327	28	921	299	28	949	271	26	975	245	1220
1230	30	836	394	30	866	364	29	895	335	28	923	307	28	951	279	26	977	253	1230
1240	30	837	403	30	867	373	29	896	344	28	924	316	28	952	288	27	979	261	1240
1250				30	868	382	29	897	353	29	926	324	28	954	296	27	981	269	1250
1260				30	869	391	29	899	361	29	928	332	28	956	304	27	983	277	1260
1270				30	870	400	29	900	370	29	929	341	28	957	313	28	985	285	1270
1280				30	871	409	30	901	379	29	930	350	29	959	321	28	987	293	1280
1290				30	872	418	30	902	388	29	931	359	29	960	330	28	988	302	1290
1300							30	903	397	30	933	367	29	962	338	28	990	310	1300
1310							30	904	406	30	934	376	29	963	347	28	991	319	1310
1320							30	906	414	30	936	384	29	965	355	28	993	327	1320
1330										30	937	393	29	966	364	29	995	335	1330
1340										30	938	402	29	967	373	29	996	344	1340
1350										30	939	411	30	969	381	29	998	352	1350
1360										30	940	420	30	970	390	29	999	361	1360
1370										30	941	429	30	971	399	29	1000	370	1370
1380													30	972	408	30	1002	378	1380
1390													30	973	417	30	1003	387	1390
1400													30	974	426	30	1004	396	1400
1410													30	975	435	30	1005	405	1410
1420													30	976	444	30	1006	414	1420
1430																30	1008	422	1430
1440																30	1009	431	1440
1450																30	1010	440	1450
1460																30	1011	449	1460
1470																30	1012	458	1470

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number						Trunk Number						Trunk Number						CCS Offered
	31			32			33			34			35			36			
	Trk	Tot	Of1	Trk	Tot	Of1	Trk	Tot	Of1	Trk	Tot	Of1	Trk	Tot	Of1	Trk	Tot	Of1	
760	4	753	7																760
765	4	757	8																765
770	4	761	9																770
775	4	766	9																775
780	4	770	10																780
785	5	775	10																785
790	5	779	11	4	783	7													790
795	5	783	12	4	787	8													795
800	5	787	13	4	791	9													800
810	6	796	14	4	800	10													810
820	6	804	16	5	800	11	4	813	7										820
830	7	812	18	5	817	13	4	821	9										830
840	7	820	20	6	826	14	4	830	10										840
850	8	828	22	6	834	16	4	839	11	4	843	7							850
860	9	835	25	7	842	18	5	847	13	4	851	9							860
870	9	842	28	7	850	20	6	856	14	4	860	10							870
880	10	850	30	8	858	22	6	864	16	4	868	12	4	872	8				880
890	10	856	34	9	865	25	7	872	18	5	877	13	4	881	9				890
900	11	864	36	9	873	27	7	880	20	5	885	15	4	889	11				900
910	11	870	40	9	879	31	8	887	23	6	893	17	5	898	12	4	902	8	910
920	12	877	43	10	887	33	8	895	25	7	902	18	5	907	13	4	911	9	920
930	13	883	47	11	893	37	9	902	28	7	909	21	6	915	15	4	919	11	930
940	13	889	51	11	900	40	9	909	31	8	917	23	6	923	17	5	928	12	940
950	14	895	55	12	907	43	10	917	33	8	925	25	7	932	18	5	937	13	950
960	14	901	59	12	913	47	10	923	37	9	932	28	7	939	21	6	945	15	960
970	15	906	64	13	919	51	11	930	40	9	939	31	8	947	23	6	953	17	970
980	15	911	69	14	925	55	12	937	43	10	947	33	8	955	25	6	961	19	980
990	16	917	73	14	931	59	12	943	47	10	953	37	9	962	28	7	969	21	990
1000	16	922	78	14	936	64	13	949	51	11	960	40	9	969	31	8	977	23	1000
1010	17	927	83	15	942	68	13	955	55	12	967	43	10	977	33	8	985	25	1010
1020	18	932	88	16	948	72	14	962	58	12	974	46	10	984	36	8	992	28	1020
1030	18	936	94	16	952	78	15	967	63	13	980	50	10	990	40	9	999	31	1030
1040	19	941	99	17	958	82	15	973	67	13	986	54	11	997	43	10	1007	33	1040
1050	19	945	105	17	962	88	16	978	72	14	992	58	12	1004	46	10	1014	36	1050
1060	19	949	111	18	967	93	16	983	77	14	997	63	13	1010	50	11	1021	39	1060
1070	20	953	117	19	972	98	16	988	82	15	1003	67	13	1016	54	11	1027	43	1070
1080	20	957	123	19	976	104	17	993	87	15	1008	72	14	1022	58	12	1034	46	1080
1090	21	961	129	19	980	110	18	998	92	16	1014	76	14	1028	62	12	1040	50	1090
1100	21	965	135	19	984	116	18	1002	98	17	1019	81	15	1034	66	12	1046	54	1100
1110	21	968	142	20	988	122	19	1007	103	17	1024	86	15	1039	71	13	1052	58	1110
1120	22	971	149	21	992	128	19	1011	109	18	1029	91	15	1044	76	14	1058	62	1120
1130	22	975	155	21	996	134	20	1016	114	18	1034	96	16	1050	80	14	1064	66	1130
1140	23	978	162	22	1000	140	20	1020	120	18	1038	102	17	1055	85	15	1070	70	1140
1150	23	981	169	22	1003	147	20	1023	127	19	1042	108	17	1059	91	16	1075	75	1150
1160	23	984	176	22	1006	154	21	1027	133	19	1046	114	18	1064	96	16	1080	80	1160
1170	24	987	183	23	1010	160	21	1031	139	20	1051	119	18	1069	101	16	1085	85	1170
1180	25	990	190	23	1013	167	22	1035	145	20	1055	125	18	1073	107	17	1090	90	1180
1190	25	993	197	23	1016	174	22	1038	152	21	1059	131	19	1078	112	17	1095	95	1190
1200	25	995	205	24	1019	181	22	1041	159	21	1062	138	20	1082	118	18	1100	100	1200

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number																		CCS Offered
	31			32			33			34			35			36			
	Carried		OFL	Carried		OFL	Carried		OFL	Carried		OFL	Carried		OFL	Carried		OFL	
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		
1210	25	998	212	24	1022	188	23	1045	169	21	1066	144	20	1086	124	18	1104	106	1210
1220	25	1000	220	25	1025	195	23	1048	172	21	1069	151	21	1090	130	19	1109	111	1220
1230	25	1002	228	25	1027	203	24	1051	179	22	1073	157	21	1094	136	19	1113	117	1230
1240	26	1005	235	25	1030	210	24	1054	186	22	1076	164	21	1097	143	20	1117	123	1240
1250	26	1007	241	25	1032	218	24	1056	194	23	1079	171	22	1101	149	20	1121	129	1250
1260	26	1009	251	25	1035	225	24	1059	201	23	1082	178	22	1104	156	21	1125	135	1260
1270	27	1012	258	25	1038	232	24	1062	208	23	1085	185	23	1108	162	21	1129	141	1270
1280	27	1014	266	26	1040	240	25	1065	215	23	1088	192	23	1111	169	21	1132	148	1280
1290	28	1016	274	26	1042	248	25	1067	223	24	1091	199	23	1114	176	22	1136	154	1290
1300	28	1018	282	26	1044	256	25	1069	231	25	1094	206	23	1117	183	22	1139	161	1300
1310	28	1019	291	27	1046	264	26	1072	238	25	1097	213	23	1120	190	23	1143	167	1310
1320	28	1021	299	27	1048	272	26	1074	246	25	1099	221	24	1123	197	23	1146	174	1320
1330	28	1023	307	27	1050	280	26	1076	254	26	1102	228	24	1126	204	23	1149	181	1330
1340	28	1024	316	27	1051	289	27	1078	262	26	1104	236	24	1128	212	24	1152	188	1340
1350	28	1026	324	27	1053	297	27	1080	270	26	1106	244	25	1131	219	24	1155	195	1350
1360	29	1028	332	27	1055	305	27	1082	278	26	1109	251	25	1134	226	24	1158	202	1360
1370	29	1029	341	28	1057	313	27	1084	286	26	1111	259	25	1136	234	25	1161	209	1370
1380	29	1031	349	28	1059	321	27	1086	294	27	1113	267	25	1138	242	25	1163	217	1380
1390	29	1032	358	28	1060	330	28	1088	302	27	1115	275	26	1141	249	25	1166	224	1390
1400	30	1034	366	28	1062	338	28	1090	310	27	1117	283	26	1143	257	26	1169	231	1400
1410	30	1035	375	28	1064	346	28	1092	318	27	1119	291	26	1145	265	26	1171	239	1410
1420	30	1036	384	28	1065	355	28	1093	327	28	1121	299	26	1147	273	26	1173	247	1420
1430	30	1038	392	29	1067	363	28	1095	335	28	1123	307	27	1150	280	26	1176	254	1430
1440	30	1039	401	29	1068	372	29	1097	343	28	1125	315	27	1152	288	26	1178	262	1440
1450	30	1040	410	29	1069	381	29	1098	352	28	1126	324	27	1153	297	27	1180	270	1450
1460	30	1041	419	29	1071	389	29	1100	360	28	1128	332	27	1155	305	27	1182	278	1460
1470	30	1042	428	29	1072	398	29	1101	369	28	1129	341	28	1157	313	27	1184	286	1470
1480	30	1043	437	30	1073	407	29	1102	378	29	1131	349	28	1159	321	27	1186	294	1480
1490				30	1075	415	29	1104	386	29	1133	357	28	1161	329	27	1188	302	1490
1500				30	1076	424	29	1105	395	29	1134	366	28	1162	338	28	1190	310	1500
1510				30	1077	433	29	1107	403	29	1136	374	28	1164	346	28	1192	318	1510
1520				30	1078	442	29	1108	412	29	1137	383	29	1166	354	28	1194	326	1520
1530				30	1079	451	30	1109	421	29	1138	392	29	1167	363	28	1195	335	1530
1540				30	1080	460	30	1110	430	30	1140	400	29	1169	371	28	1197	343	1540
1550				30	1081	469	30	1111	439	30	1141	409	29	1170	380	29	1199	351	1550
1560				30	1113	447	30	1143	417	29	1172	388	29	1172	388	29	1201	359	1560
1570				30	1114	456	30	1144	426	29	1173	397	29	1173	397	29	1202	368	1570
1580				30	1115	465	30	1145	435	29	1174	406	29	1174	406	29	1203	377	1580
1590				30	1146	444	30	1146	444	30	1176	414	29	1176	414	29	1205	385	1590
1600				30	1147	453	30	1147	453	30	1177	423	29	1177	423	29	1206	394	1600
1610				30	1148	462	30	1148	462	30	1178	432	29	1178	432	29	1208	402	1610
1620				30	1149	471	30	1149	471	30	1179	441	29	1179	441	29	1209	411	1620
1630				30	1150	480	30	1150	480	30	1180	450	30	1180	450	30	1210	420	1630
1640										30	1182	458	30	1182	458	30	1212	428	1640
1650										30	1183	467	30	1183	467	30	1213	437	1650
1660										30	1184	476	30	1184	476	30	1214	446	1660
1670													30	1215	455	30	1215	455	1670
1680													30	1216	464	30	1216	464	1680
1690													30	1217	473	30	1217	473	1690
1700													30	1218	482	30	1218	482	1700

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number																		CCS Offered
	37			38			39			40			41			42			
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		
940	4	932	8																940
950	4	941	9																950
960	4	949	11																960
970	5	958	12	4	962	8													970
980	5	966	14	4	970	10													980
990	6	975	15	4	979	11													990
1000	6	983	17	5	988	12	4	992	8										1000
1010	6	991	19	5	996	14	4	1000	10										1010
1020	7	999	21	6	1005	15	4	1009	11										1020
1030	8	1007	23	6	1013	17	5	1018	12	3	1021	9							1030
1040	8	1015	25	6	1021	19	5	1026	14	4	1030	10							1040
1050	8	1022	28	7	1029	21	6	1035	15	4	1039	11							1050
1060	9	1030	30	7	1037	23	6	1043	17	4	1047	13	4	1051	9				1060
1070	10	1037	33	8	1045	25	6	1051	19	5	1056	14	4	1060	10				1070
1080	10	1044	36	8	1052	28	7	1059	21	6	1065	15	4	1069	11				1080
1090	11	1051	39	9	1060	30	7	1067	23	6	1073	17	5	1078	12	3	1081	9	1090
1100	11	1057	43	10	1067	33	8	1075	25	6	1081	19	5	1086	14	4	1090	10	1100
1110	12	1064	46	10	1074	36	8	1082	28	7	1089	21	6	1095	15	4	1099	11	1110
1120	12	1070	50	11	1081	39	9	1090	30	7	1097	23	6	1103	17	4	1107	13	1120
1130	13	1077	53	11	1088	42	9	1097	33	8	1105	25	6	1111	19	5	1116	14	1130
1140	13	1083	57	11	1094	46	10	1104	36	8	1112	28	7	1119	21	6	1125	15	1140
1150	14	1089	61	12	1101	49	10	1111	39	9	1120	30	7	1127	23	6	1133	17	1150
1160	14	1094	66	13	1107	53	11	1118	42	9	1127	33	8	1135	25	6	1141	19	1160
1170	15	1100	70	13	1113	57	11	1124	46	10	1134	36	8	1142	28	7	1149	21	1170
1180	15	1105	75	14	1119	61	12	1131	49	10	1141	39	9	1150	30	7	1157	23	1180
1190	16	1111	79	14	1125	65	12	1137	53	11	1148	42	9	1157	33	8	1165	25	1190
1200	16	1116	84	15	1131	69	13	1144	56	11	1155	45	9	1164	36	8	1172	28	1200
1210	17	1121	89	15	1136	74	13	1149	61	12	1161	49	10	1171	39	9	1180	30	1210
1220	17	1126	94	16	1142	78	13	1156	64	12	1168	52	10	1178	42	9	1187	33	1220
1230	18	1131	99	16	1147	83	14	1161	69	13	1174	56	11	1185	45	9	1194	36	1230
1240	18	1135	105	17	1152	88	15	1167	73	13	1180	60	11	1191	49	10	1201	39	1240
1250	19	1140	110	17	1157	93	15	1172	78	14	1186	64	12	1198	52	10	1208	42	1250
1260	19	1144	116	17	1161	99	16	1177	83	14	1191	69	13	1204	56	11	1215	45	1260
1270	19	1148	122	18	1166	104	17	1183	87	14	1197	73	13	1210	60	12	1222	48	1270
1280	20	1152	128	19	1171	109	17	1188	92	15	1203	77	13	1216	64	12	1228	52	1280
1290	20	1156	134	19	1175	115	17	1192	98	16	1208	82	14	1222	68	13	1234	56	1290
1300	21	1160	140	19	1179	121	18	1197	103	16	1213	87	15	1228	72	13	1241	59	1300
1310	21	1164	146	20	1184	126	18	1202	108	16	1218	92	15	1233	77	14	1247	63	1310
1320	21	1167	153	20	1187	133	19	1206	114	17	1223	97	16	1239	81	14	1253	67	1320
1330	22	1171	159	20	1191	139	19	1210	120	18	1228	102	16	1244	86	14	1258	72	1330
1340	22	1174	166	21	1195	145	20	1215	125	18	1233	107	16	1249	91	15	1264	76	1340
1350	23	1178	172	21	1199	151	20	1219	131	18	1237	113	17	1254	96	15	1269	81	1350
1360	23	1181	179	22	1203	157	20	1223	137	19	1242	118	17	1259	101	16	1275	85	1360
1370	23	1184	186	22	1206	164	21	1227	143	19	1246	124	18	1264	106	16	1280	90	1370
1380	24	1187	193	22	1209	171	21	1230	150	20	1250	130	18	1268	112	17	1285	95	1380
1390	24	1190	200	23	1213	177	21	1234	156	20	1254	136	19	1273	117	17	1290	100	1390
1400	24	1193	207	23	1216	184	22	1238	162	20	1258	142	19	1277	123	18	1295	105	1400

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number															CCS Offered			
	27			28			29			40			41				42		
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1		Carried		Of1
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot			Trk	Tot	
1410	24	1195	215	24	1219	191	22	1241	169	21	1262	148	19	1281	129	18	1299	111	1410
1420	25	1198	222	24	1222	198	22	1244	176	22	1266	154	20	1286	134	18	1304	116	1420
1430	25	1201	229	24	1225	205	22	1247	183	22	1269	161	20	1289	141	19	1308	122	1430
1440	25	1203	237	25	1228	212	23	1251	189	22	1273	167	20	1293	147	20	1313	127	1440
1450	26	1206	244	25	1231	219	23	1254	196	22	1276	174	21	1297	153	20	1317	133	1450
1460	26	1208	252	25	1233	227	24	1257	203	22	1279	181	21	1301	159	20	1321	139	1460
1470	26	1210	260	26	1236	234	24	1260	210	23	1283	187	21	1305	165	20	1325	145	1470
1480	26	1212	268	26	1238	242	24	1262	218	24	1286	194	22	1308	172	21	1329	151	1480
1490	26	1214	276	26	1240	250	25	1265	225	24	1289	201	22	1311	179	21	1332	158	1490
1500	27	1217	283	26	1243	257	25	1268	232	24	1292	208	22	1314	186	22	1336	164	1500
1510	27	1219	291	26	1245	265	25	1270	240	25	1295	215	23	1318	192	22	1340	170	1510
1520	27	1221	299	26	1247	273	25	1272	248	25	1297	223	24	1321	199	22	1343	177	1520
1530	28	1223	307	26	1249	281	26	1275	255	25	1300	230	24	1324	206	22	1346	184	1530
1540	28	1225	315	27	1252	288	26	1278	262	25	1303	237	24	1327	213	22	1349	191	1540
1550	28	1227	323	27	1254	296	26	1280	270	26	1306	244	24	1330	220	23	1353	197	1550
1560	28	1229	331	27	1256	304	26	1282	278	26	1308	252	24	1333	227	23	1356	204	1560
1570	28	1230	340	28	1258	312	26	1284	286	26	1310	260	24	1335	235	23	1358	212	1570
1580	28	1231	349	28	1259	321	27	1286	294	26	1312	268	25	1337	243	24	1361	219	1580
1590	28	1233	357	28	1261	329	27	1288	302	27	1315	275	25	1340	250	24	1364	226	1590
1600	29	1235	365	28	1263	337	27	1290	310	27	1317	283	25	1342	258	25	1367	233	1600
1610	29	1237	373	28	1265	345	27	1292	318	27	1319	291	26	1345	265	25	1370	240	1610
1620	29	1238	382	28	1266	354	28	1294	326	27	1321	299	26	1347	273	25	1372	248	1620
1630	29	1239	391	29	1268	362	28	1296	334	27	1323	307	26	1349	281	25	1374	256	1630
1640	29	1241	399	29	1270	370	28	1298	342	27	1325	315	27	1352	288	25	1377	263	1640
1650	29	1242	408	29	1271	379	28	1299	351	28	1327	323	27	1354	296	26	1380	270	1650
1660	29	1244	416	29	1273	387	28	1301	359	28	1329	331	27	1356	304	26	1382	278	1660
1670	29	1245	425	29	1274	396	29	1303	367	28	1331	339	27	1358	312	26	1384	286	1670
1680	30	1246	434	29	1275	405	29	1304	376	28	1332	348	28	1360	320	26	1386	294	1680
1690	30	1247	443	30	1277	413	29	1306	384	28	1334	356	28	1362	328	27	1389	301	1690
1700	30	1248	452	30	1278	422	29	1307	393	29	1336	364	28	1364	336	27	1391	309	1700
1710	30	1250	460	30	1280	430	29	1309	401	29	1338	372	28	1366	344	27	1393	317	1710
1720	30	1251	469	30	1281	439	29	1310	410	29	1339	381	28	1367	353	27	1394	326	1720
1730	30	1252	478	30	1282	448	30	1312	418	29	1341	389	28	1369	361	27	1396	334	1730
1740	30	1253	487	30	1283	457	30	1313	427	29	1342	398	28	1370	370	28	1398	342	1740
1750	30	1254	496	30	1284	466	30	1314	436	29	1343	407	29	1372	378	28	1400	350	1750
1760							30	1316	444	29	1345	415	29	1374	386	28	1402	358	1760
1770							30	1317	453	29	1346	424	29	1375	395	29	1404	366	1770
1780							30	1318	462	30	1348	432	29	1377	403	29	1406	374	1780
1790							30	1319	471	30	1349	441	29	1378	412	29	1407	383	1790
1800										30	1351	449	29	1380	420	29	1409	391	1800
1820										30	1353	467	30	1383	437	29	1412	408	1820
1840										30	1355	485	30	1385	455	29	1414	426	1840
1860										30	1358	502	30	1388	472	29	1417	443	1860
1880													30	1390	490	30	1420	460	1880
1900													30	1392	508	30	1422	478	1900
1920																30	1425	495	1920
1940																30	1427	513	1940

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number																		CCS Offered
	43			44			45			46			47			48			
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		
1120	4	1111	9																1120
1130	4	1120	10																1130
1140	4	1129	11																1140
1150	4	1137	13	4	1141	9													1150
1160	5	1146	14	4	1150	10													1160
1170	5	1154	16	4	1158	12													1170
1180	5	1162	18	5	1167	13													1180
1190	6	1171	19	5	1176	14													1190
1200	7	1179	21	5	1184	16													1200
1210	7	1187	23	6	1193	17													1210
1220	8	1195	25	6	1201	19													1220
1230	8	1202	28	7	1209	21													1230
1240	9	1210	30	7	1217	23													1240
1250	9	1217	33	8	1225	25													1250
1260	9	1224	36	8	1232	28	7	1239	21										1260
1270	10	1232	38	8	1240	30	7	1247	23										1270
1280	10	1238	42	9	1247	33	8	1255	25										1280
1290	11	1245	45	9	1254	36	8	1262	28	7	1267	23							1290
1300	11	1252	48	10	1262	38	8	1270	30	7	1277	23							1300
1310	12	1259	51	10	1269	41	9	1278	32	7	1285	25							1310
1320	12	1265	55	11	1276	44	9	1285	35	8	1293	27							1320
1330	13	1271	59	11	1282	48	10	1292	38	8	1300	30	7	1307	23				1330
1340	13	1277	63	12	1289	51	10	1299	41	9	1308	32	7	1315	25				1340
1350	14	1283	67	12	1295	55	11	1306	44	9	1315	35	8	1323	27				1350
1360	14	1289	71	13	1302	58	11	1313	47	9	1322	38	8	1330	30				1360
1370	15	1295	75	13	1308	62	11	1319	51	10	1329	41	9	1338	32	7	1345	25	1370
1380	15	1300	80	14	1314	66	12	1326	54	10	1336	44	9	1345	35	8	1353	27	1380
1390	16	1306	84	14	1320	70	12	1332	58	11	1343	47	9	1352	38	8	1360	30	1390
1400	16	1311	89	14	1325	75	13	1338	62	12	1350	50	10	1360	40	8	1368	32	1400
1410	17	1316	94	15	1331	79	13	1344	66	12	1356	54	10	1366	44	9	1375	35	1410
1420	17	1321	99	15	1336	84	14	1350	70	13	1363	57	11	1374	46	9	1383	37	1420
1430	18	1326	104	16	1342	88	14	1356	74	13	1369	61	11	1380	50	10	1390	40	1430
1440	18	1331	109	16	1347	93	15	1362	78	13	1375	65	12	1387	53	10	1397	43	1440
1450	18	1335	115	17	1352	98	15	1367	83	14	1381	69	12	1393	57	11	1404	46	1450
1460	19	1340	120	17	1357	103	16	1373	87	14	1387	73	13	1400	60	11	1411	49	1460
1470	19	1344	126	18	1362	108	16	1378	92	15	1393	77	13	1406	64	11	1417	53	1470
1480	19	1348	132	18	1366	114	17	1383	97	15	1398	82	14	1412	68	12	1424	56	1480
1490	20	1352	138	19	1371	119	17	1388	102	15	1403	87	14	1417	73	13	1430	60	1490
1500	20	1356	144	19	1375	125	18	1393	107	16	1409	91	14	1423	77	13	1436	64	1500
1510	20	1360	150	20	1380	130	18	1398	112	16	1414	96	15	1429	81	13	1442	68	1510
1520	21	1364	156	20	1384	136	18	1402	118	17	1419	101	15	1434	86	14	1448	72	1520
1530	22	1368	162	20	1388	142	19	1407	123	17	1424	106	16	1440	90	14	1454	76	1530
1540	22	1371	169	21	1392	148	19	1411	129	18	1429	111	16	1445	95	15	1460	80	1540
1550	22	1375	175	21	1396	154	19	1415	135	18	1433	117	17	1450	100	15	1465	85	1550
1560	22	1378	182	21	1399	161	20	1419	141	19	1438	122	17	1455	105	16	1471	89	1560
1570	23	1381	189	22	1403	167	20	1423	147	19	1442	128	18	1460	110	16	1476	94	1570
1580	24	1385	195	22	1407	173	20	1427	153	20	1447	133	18	1465	115	16	1481	99	1580
1590	24	1388	202	22	1410	180	21	1431	159	20	1451	139	18	1469	121	17	1486	104	1590
1600	24	1391	209	23	1414	186	21	1435	165	20	1455	145	19	1474	126	17	1491	109	1600

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number																		CCS Offered
	43			44			45			46			47			48			
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		
1610	24	1394	216	23	1417	193	21	1438	172	21	1459	151	19	1478	132	17	1495	115	1610
1620	25	1397	223	23	1420	200	22	1442	178	21	1463	157	19	1482	138	18	1500	120	1620
1630	25	1399	231	24	1423	207	22	1445	185	21	1466	164	20	1486	144	19	1505	125	1630
1640	25	1402	238	24	1426	214	22	1448	192	22	1470	170	20	1490	150	19	1509	131	1640
1650	25	1405	245	24	1429	221	23	1452	198	22	1474	176	20	1494	156	19	1513	137	1650
1660	25	1407	253	24	1432	228	23	1455	205	22	1477	183	21	1498	162	20	1518	142	1660
1670	25	1409	261	24	1434	236	24	1458	212	23	1481	189	21	1502	168	20	1522	148	1670
1680	26	1412	268	25	1437	243	24	1461	219	23	1484	196	21	1505	175	21	1526	154	1680
1690	26	1415	275	25	1440	250	24	1464	226	23	1487	203	22	1509	181	21	1530	160	1690
1700	26	1417	283	25	1442	258	25	1467	233	23	1490	210	22	1512	188	21	1533	167	1700
1710	26	1419	291	26	1445	265	25	1470	240	23	1493	217	23	1516	194	21	1537	173	1710
1720	27	1421	299	26	1447	273	25	1472	248	24	1496	224	23	1519	201	22	1541	179	1720
1730	27	1423	307	26	1449	281	26	1475	255	24	1499	231	23	1522	208	22	1544	186	1730
1740	27	1425	315	27	1452	288	26	1478	262	24	1502	238	23	1525	215	23	1548	192	1740
1750	27	1427	323	27	1454	296	26	1480	270	24	1504	246	23	1528	222	23	1551	199	1750
1760	27	1429	331	27	1456	304	26	1482	278	25	1507	253	24	1531	229	23	1554	206	1760
1770	27	1431	339	27	1458	312	26	1484	286	25	1509	261	25	1534	236	23	1557	213	1770
1780	27	1433	347	27	1460	320	27	1487	293	25	1512	268	25	1537	243	23	1560	220	1780
1790	28	1435	355	27	1462	328	27	1489	301	26	1515	275	25	1540	250	23	1563	227	1790
1800	28	1437	363	27	1464	336	27	1491	309	26	1517	283	25	1542	258	24	1566	234	1800
1820	28	1440	380	28	1468	352	27	1495	325	27	1522	298	25	1547	273	25	1572	248	1820
1840	29	1443	397	28	1471	369	28	1499	341	27	1526	314	26	1552	288	25	1577	263	1840
1860	29	1446	414	29	1475	385	28	1503	357	27	1530	330	27	1557	303	25	1582	278	1860
1880	29	1449	431	29	1478	402	29	1507	373	27	1534	346	27	1561	319	26	1587	293	1880
1900	30	1452	448	29	1481	419	29	1510	390	28	1538	362	27	1565	335	27	1592	308	1900
1920	30	1455	465	29	1484	436	29	1513	407	28	1541	379	27	1568	352	27	1595	325	1920
1940	30	1457	483	30	1487	453	29	1516	424	28	1544	396	28	1572	368	27	1599	341	1940
1960	30	1459	501	30	1489	471	30	1519	441	29	1548	412	28	1576	384	28	1604	356	1960
1980				30	1492	488	30	1522	458	29	1551	429	28	1579	401	28	1607	373	1980
2000							30	1525	475	29	1554	446	29	1583	417	28	1611	389	2000
2020							30	1527	493	30	1557	463	29	1586	434	28	1614	406	2020
2040										30	1560	480	29	1589	451	29	1618	422	2040
2060										30	1562	498	29	1591	469	29	1620	440	2060
2080										30	1564	516	30	1594	486	29	1623	457	2080
2100													30	1596	504	30	1626	474	2100
2120													30	1599	521	30	1629	491	2120
2140													30	1601	539	30	1631	509	2140
2160																30	1634	526	2160

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number																		CCS Offered
	49			50			51			52			53			54			
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		
1390	7	1367	23																1390
1400	7	1375	25																1400
1410	8	1383	27																1410
1420	8	1391	29																1420
1430	8	1398	32	7	1405	25													1430
1440	9	1406	34	7	1413	27													1440
1450	9	1413	37	8	1421	29													1450
1460	9	1420	40	8	1428	32	7	1435	25										1460
1470	10	1427	43	9	1436	34	7	1443	27										1470
1480	10	1434	46	9	1443	37	8	1451	29										1480
1490	11	1441	49	10	1451	39	8	1459	31	7	1466	24							1490
1500	12	1448	52	10	1458	42	8	1466	34	7	1473	27							1500
1510	12	1454	56	10	1464	46	9	1473	37	8	1481	29							1510
1520	12	1460	60	11	1471	49	10	1481	39	8	1489	31	7	1496	24				1520
1530	13	1467	63	11	1478	52	10	1488	42	9	1497	33	7	1504	26				1530
1540	13	1473	67	12	1485	55	10	1495	45	9	1504	36	8	1512	28				1540
1550	14	1479	71	12	1491	59	11	1502	48	9	1511	39	8	1519	31	7	1526	24	1550
1560	14	1485	75	12	1497	63	12	1509	51	9	1518	42	9	1527	33	7	1534	26	1560
1570	15	1491	79	13	1504	66	12	1516	54	9	1525	45	9	1534	36	7	1541	29	1570
1580	15	1496	84	14	1510	70	12	1522	58	10	1532	48	9	1541	39	8	1549	31	1580
1590	15	1501	89	14	1515	75	13	1528	62	11	1539	51	10	1549	41	8	1557	33	1590
1600	16	1507	93	14	1521	79	13	1534	66	12	1546	54	10	1556	44	8	1564	36	1600
1610	17	1512	98	15	1527	83	13	1540	70	12	1552	58	11	1563	47	9	1572	38	1610
1620	17	1517	103	15	1532	88	14	1546	74	13	1559	61	11	1570	50	9	1579	41	1620
1630	17	1522	108	16	1538	92	14	1552	78	13	1565	65	11	1576	54	10	1586	44	1630
1640	18	1527	113	16	1543	97	15	1558	82	13	1571	69	12	1583	57	10	1593	47	1640
1650	18	1531	119	17	1548	102	15	1563	87	14	1577	73	12	1589	61	11	1600	50	1650
1660	18	1536	124	17	1553	107	16	1569	91	14	1583	77	13	1596	64	11	1607	53	1660
1670	19	1541	129	17	1558	112	16	1574	96	15	1589	81	13	1602	68	11	1613	57	1670
1680	19	1545	135	18	1563	117	16	1579	101	15	1594	86	14	1608	72	12	1620	60	1680
1690	19	1549	141	18	1567	123	17	1584	106	16	1600	90	14	1614	76	12	1626	64	1690
1700	20	1553	147	19	1572	128	17	1589	111	16	1605	95	14	1619	81	13	1632	68	1700
1710	20	1557	153	19	1576	134	18	1594	116	16	1610	100	15	1625	85	13	1638	72	1710
1720	20	1561	159	20	1581	139	18	1599	121	16	1615	105	16	1631	89	13	1644	76	1720
1730	21	1565	165	20	1585	145	18	1603	127	17	1620	110	16	1636	94	14	1650	80	1730
1740	21	1569	171	20	1589	151	19	1608	132	17	1625	115	16	1641	99	15	1656	84	1740
1750	22	1573	177	20	1593	157	19	1612	138	18	1630	120	16	1646	104	15	1661	89	1750
1760	22	1576	184	21	1597	163	19	1616	144	19	1635	125	16	1651	109	16	1667	93	1760
1770	22	1579	191	22	1601	169	19	1620	150	19	1639	131	17	1656	114	16	1672	98	1770
1780	22	1582	198	22	1604	176	20	1624	156	19	1643	137	18	1661	119	16	1677	103	1780
1790	23	1586	204	22	1608	182	20	1628	162	20	1648	142	18	1666	124	17	1683	107	1790
1800	23	1589	211	22	1611	189	21	1632	168	20	1652	148	18	1670	130	17	1687	113	1800

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number																		CCS Offered
	49			50			51			52			53			54			
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		
1820	23	1595	225	23	1618	202	22	1640	180	20	1660	160	19	1679	141	18	1697	123	1820
1840	24	1601	239	24	1625	215	22	1647	193	21	1668	172	20	1688	152	18	1706	134	1840
1860	25	1607	253	24	1631	229	23	1654	206	21	1675	185	21	1696	164	19	1715	145	1860
1880	26	1613	267	24	1637	243	23	1660	220	22	1682	198	21	1703	177	20	1723	157	1880
1900	26	1618	282	24	1642	258	24	1666	234	23	1689	211	21	1710	190	21	1731	169	1900
1920	27	1622	298	25	1647	273	24	1671	249	24	1695	225	22	1717	203	21	1738	182	1920
1940	27	1626	314	26	1652	288	25	1677	263	24	1701	239	23	1724	216	22	1746	194	1940
1960	27	1631	329	26	1657	303	25	1682	278	24	1706	254	24	1730	230	23	1753	207	1960
1980	28	1635	345	26	1661	319	26	1687	293	25	1712	268	24	1736	244	23	1759	221	1980
2000	28	1639	361	27	1666	334	26	1692	308	25	1717	283	25	1742	258	24	1766	234	2000
2020	28	1642	378	28	1670	350	27	1697	323	26	1723	297	25	1748	272	24	1772	248	2020
2040	28	1646	394	28	1674	366	27	1701	339	26	1727	313	26	1753	287	25	1778	262	2040
2060	29	1649	411	28	1677	383	28	1705	355	27	1732	328	26	1758	302	25	1783	277	2060
2080	29	1652	428	29	1681	399	28	1709	371	27	1736	344	27	1763	317	25	1788	292	2080
2100	29	1655	445	29	1684	416	28	1712	388	28	1740	360	27	1767	333	25	1792	308	2100
2120	29	1658	462	29	1687	433	28	1715	405	28	1743	377	28	1771	349	26	1797	323	2120
2140	30	1661	479	29	1690	450	29	1719	421	28	1747	393	28	1775	365	27	1802	338	2140
2160	30	1664	496	29	1693	467	29	1722	438	29	1751	409	28	1779	381	27	1806	354	2160
2180	30	1667	513	29	1696	484	29	1725	455	29	1754	426	29	1783	397	27	1810	370	2180
2200	30	1669	531	30	1699	501	29	1728	472	29	1757	443	29	1786	414	28	1814	386	2200
2220	30	1671	549	30	1701	519	30	1731	489	30	1761	459	29	1790	430	28	1818	402	2220
2240				30	1704	536	30	1734	506	30	1764	476	29	1793	447	28	1821	419	2240
2260				30	1706	554	30	1736	524	30	1766	494	29	1795	465	29	1824	436	2260
2280				30	1708	572	30	1738	542	30	1768	512	30	1798	482	29	1827	453	2280
2300							30	1741	559	30	1771	529	30	1801	499	29	1830	470	2300
2320													30	1804	516	29	1833	487	2320
2340													30	1806	534	30	1836	504	2340
2360																30	1839	521	2360
2380																30	1841	539	2380
2400																30	1843	557	2400

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number															CCS Offered	
	55			56			57			58			59				
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1		
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot			
1580	7	1556	24													1580	
1590	7	1564	26													1590	
1600	8	1572	28													1600	
1610	8	1580	30													1610	
1620	8	1587	33	7	1594	26										1620	
1630	9	1595	35	7	1602	28										1630	
1640	9	1602	38	8	1610	30										1640	
1650	10	1610	40	8	1618	32	7	1625	25							1650	
1660	10	1617	43	8	1625	35	7	1632	28	7	1639	21				1660	
1670	10	1623	47	9	1632	38	8	1640	30	7	1647	23				1670	
1680	11	1631	49	9	1640	40	8	1648	32	7	1655	25				1680	
1690	11	1637	53	10	1647	43	8	1655	35	7	1662	28				1690	
1700	12	1644	56	10	1654	46	9	1663	37	7	1670	30				1700	
1710	12	1650	60	11	1661	49	9	1670	40	8	1678	32	7	1685	25	1710	
1720	13	1657	63	11	1668	52	9	1677	43	8	1685	35	7	1692	28	1720	
1730	13	1663	67	11	1674	56	10	1684	46	9	1693	37	7	1700	30	1730	
1740	13	1669	71	12	1681	59	10	1691	49	9	1700	40	8	1708	32	1740	
1750	14	1675	75	12	1687	63	11	1698	52	10	1708	42	8	1716	34	1750	
1760	14	1681	79	13	1694	66	11	1705	55	10	1715	45	9	1724	36	1760	
1770	15	1687	83	13	1700	70	11	1711	59	11	1722	48	9	1731	39	1770	
1780	15	1692	88	14	1706	74	12	1718	62	11	1729	51	9	1738	42	1780	
1790	15	1698	92	14	1712	78	12	1724	66	11	1735	55	10	1745	45	1790	
1800	16	1703	97	14	1717	83	13	1730	70	12	1742	58	10	1752	48	1800	
1820	17	1714	106	15	1729	91	13	1742	78	13	1755	65	11	1766	54	1820	
1840	18	1724	116	16	1740	100	14	1754	86	13	1767	73	12	1779	61	1840	
1860	18	1733	127	17	1750	110	15	1765	95	14	1779	81	13	1792	68	1860	
1880	18	1741	139	18	1759	121	17	1776	104	15	1791	89	13	1804	76	1880	
1900	19	1750	150	18	1768	132	18	1786	114	16	1802	98	14	1816	84	1900	
1920	20	1758	162	19	1777	143	18	1795	125	17	1812	108	15	1827	93	1920	
1940	20	1766	174	20	1786	154	19	1805	135	17	1822	118	16	1838	102	1940	
1960	21	1774	186	21	1794	166	19	1814	146	18	1832	128	16	1848	112	1960	
1980	22	1781	199	21	1802	178	20	1822	158	19	1841	139	17	1858	122	1980	
2000	22	1788	212	22	1810	190	20	1830	170	20	1850	150	18	1868	132	2000	
2020	23	1795	225	22	1817	203	21	1838	182	20	1858	162	19	1877	143	2020	
2040	23	1801	239	23	1824	216	22	1846	194	20	1866	174	20	1886	154	2040	
2060	24	1807	253	24	1831	229	22	1853	207	21	1874	186	20	1894	166	2060	
2080	24	1812	268	24	1836	244	23	1859	221	22	1881	199	21	1902	178	2080	
2100	25	1817	283	24	1841	259	24	1865	235	23	1888	212	21	1909	191	2100	
2120	25	1822	298	25	1847	273	24	1871	249	23	1894	226	22	1916	204	2120	
2140	25	1827	313	25	1852	288	25	1877	263	24	1901	239	22	1923	217	2140	
2160	26	1832	328	26	1858	302	25	1883	277	24	1907	253	23	1930	230	2160	
2180	27	1837	343	26	1863	317	25	1888	292	25	1913	267	23	1936	244	2180	
2200	27	1841	359	26	1867	333	26	1893	307	25	1918	282	24	1942	258	2200	
2220	27	1845	375	27	1872	348	26	1898	322	25	1923	297	25	1948	272	2220	
2240	28	1849	391	27	1876	364	27	1903	337	25	1928	312	25	1953	287	2240	
2260	28	1852	408	28	1880	380	27	1907	353	26	1933	327	25	1958	302	2260	
2280	28	1855	425	28	1883	397	28	1911	369	26	1937	343	26	1963	317	2280	
2300	29	1859	441	28	1887	413	28	1915	385	27	1942	358	26	1968	332	2300	
2320	29	1862	458	29	1891	429	28	1919	401	27	1946	374	27	1973	347	2320	
2340	29	1865	475	29	1894	446	28	1922	418	28	1950	390	27	1977	363	2340	
2360	29	1868	492	29	1897	463	29	1926	434	28	1954	406	27	1981	379	2360	
2380	30	1871	509	29	1900	480	29	1929	451	28	1957	423	28	1985	395	2380	
2400	30	1873	527	30	1903	497	29	1932	468	29	1961	439	28	1989	411	2400	
2420	30	1876	544	30	1906	514	29	1935	485	29	1964	456	28	1992	428	2420	
2440				30	1909	531	29	1938	502	29	1967	473	29	1996	444	2440	
2460				30	1911	549	30	1941	519	29	1970	490	29	1999	461	2460	
2480							30	1944	536	29	1973	507	29	2002	478	2480	
2500							30	1946	554	30	1976	524	29	2005	495	2500	
2520										30	1979	541	29	2008	512	2520	
2540										30	1981	559	29	2011	529	2540	
2560										30	1984	576	30	2014	546	2560	
2580										30	1986	594	30	2016	564	2580	
2600										30	1988	612	30	2018	582	2600	
2620													30	2021	599	2620	
2640																2640	
2660																2660	
2680																2680	

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number																		CCS Offered
	61			62			63			64			65			66			
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		
1770	7	1745	25																1770
1780	7	1753	27																1780
1790	8	1761	29																1790
1800	8	1769	31																1800
1820	8	1784	36	7	1791	29													1820
1840	9	1799	41	8	1807	33													1840
1860	10	1813	47	9	1822	38	7	1829	31										1860
1880	11	1827	53	9	1836	44	8	1844	36	7	1851	29							1880
1900	11	1840	60	10	1850	50	9	1859	41	8	1867	33	7	1874	26				1900
1920	12	1853	67	11	1864	56	10	1874	46	8	1882	38	8	1890	30				1920
1940	13	1866	74	11	1877	63	11	1888	52	9	1897	43	8	1905	35	7	1912	28	1940
1960	14	1878	82	12	1890	70	11	1901	59	10	1911	49	9	1920	40	8	1928	32	1960
1980	15	1889	91	14	1903	77	12	1915	65	10	1925	55	10	1935	45	8	1943	37	1980
2000	15	1900	100	14	1914	86	13	1927	73	12	1939	61	10	1949	51	9	1958	42	2000
2020	16	1911	109	15	1926	94	14	1940	80	12	1952	68	11	1963	57	10	1973	47	2020
2040	17	1921	119	16	1937	103	14	1951	89	13	1964	76	12	1976	64	11	1987	53	2040
2060	18	1931	129	16	1947	113	15	1962	98	14	1976	84	13	1989	71	11	2000	60	2060
2080	18	1940	140	17	1957	123	16	1973	107	15	1988	92	13	2001	79	12	2013	67	2080
2100	19	1949	151	18	1967	133	17	1984	116	15	1999	101	14	2013	87	13	2026	74	2100
2120	20	1957	163	19	1976	144	17	1993	127	16	2009	111	15	2024	96	14	2038	82	2120
2140	20	1965	175	20	1985	155	18	2003	137	17	2020	120	15	2035	105	15	2050	90	2140
2160	21	1973	187	20	1993	167	19	2012	148	18	2030	130	16	2046	114	15	2061	99	2160
2180	22	1981	199	20	2001	179	20	2021	159	18	2039	141	17	2056	124	16	2072	108	2180
2200	22	1988	212	21	2009	191	20	2029	171	19	2048	152	18	2066	134	16	2082	118	2200
2220	23	1995	225	22	2017	203	20	2037	183	20	2057	163	18	2075	145	17	2092	128	2220
2240	24	2001	239	23	2024	216	21	2045	195	20	2065	175	19	2084	156	18	2102	138	2240
2260	24	2007	253	23	2030	230	22	2052	208	21	2073	187	19	2092	168	19	2111	149	2260
2280	25	2013	267	23	2036	244	23	2059	221	21	2080	200	20	2100	180	20	2120	160	2280
2300	25	2018	282	24	2042	258	23	2065	235	22	2087	213	21	2108	192	20	2128	172	2300
2320	25	2024	296	24	2048	272	24	2072	248	22	2094	226	22	2116	204	20	2136	184	2320
2340	26	2029	311	25	2054	286	24	2078	262	23	2101	239	22	2123	217	21	2144	196	2340
2360	26	2034	326	25	2059	301	24	2083	277	24	2107	253	23	2130	230	22	2152	208	2360
2380	26	2038	342	26	2064	316	25	2089	291	24	2113	267	24	2137	243	22	2159	221	2380
2400	27	2043	357	26	2069	331	25	2094	306	25	2119	281	24	2143	257	22	2165	235	2400
2420	27	2047	373	26	2073	347	26	2099	321	25	2124	296	25	2149	271	23	2172	248	2420
2440	27	2051	389	27	2078	362	26	2104	336	26	2130	310	25	2155	285	23	2178	262	2440
2460	28	2055	405	27	2082	378	27	2109	351	26	2135	325	25	2160	300	24	2184	276	2460
2480	28	2059	421	27	2086	394	27	2113	367	27	2140	340	25	2165	315	24	2189	291	2480
2500	28	2062	438	28	2090	410	27	2117	383	27	2144	356	26	2170	330	25	2195	305	2500
2520	29	2066	454	28	2094	426	28	2122	398	27	2149	371	26	2175	345	25	2200	320	2520
2540	29	2069	471	29	2098	442	28	2126	414	27	2153	387	27	2180	360	25	2205	335	2540
2560	29	2072	488	29	2101	459	28	2129	431	28	2157	403	27	2184	376	26	2210	350	2560
2580	29	2075	505	29	2104	476	29	2133	447	28	2161	419	27	2188	392	27	2215	365	2580
2600	30	2078	522	30	2108	492	29	2137	463	28	2165	435	27	2192	408	27	2219	381	2600
2620	30	2081	539	30	2111	509	29	2140	480	28	2168	452	28	2196	424	27	2223	397	2620
2640	30	2084	556	30	2114	526	29	2143	497	29	2172	468	28	2200	440	27	2227	413	2640
2660	30	2086	574	30	2116	544	30	2146	514	29	2175	485	28	2203	457	28	2231	429	2660
2680	30	2088	592	30	2118	562	30	2148	532	29	2177	503	29	2206	474	28	2234	446	2680
2700				30	2121	579	30	2151	549	30	2181	519	29	2210	490	28	2238	462	2700
2720							30	2154	566	30	2184	536	29	2213	507	29	2242	478	2720
2740							30	2156	584	30	2186	554	30	2216	524	29	2245	495	2740
2760										30	2189	571	30	2219	541	29	2248	512	2760
2780										30	2192	588	30	2222	558	29	2251	529	2780
2800										30	2194	606	30	2224	576	30	2254	546	2800
2820													30	2227	593	30	2257	563	2820
2840													30	2229	611	30	2259	581	2840
2860																30	2262	598	2860
2880																30	2264	616	2880

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number																		CCS Offered
	67			68			69			70			71			72			
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	
Trk	Tot	Trk		Tot	Trk		Tot	Trk		Tot	Trk		Tot	Trk		Tot	Trk		Tot
1980	7	1950	30																1980
2000	8	1966	34																2000
2020	9	1982	38	7	1989	31													2020
2040	9	1996	44	8	2004	36													2040
2060	10	2010	50	9	2019	41	7	2026	34	7	2033	27							2060
2080	11	2024	56	10	2034	46	8	2042	38	7	2049	31							2080
2100	12	2038	62	10	2048	52	8	2056	44	8	2064	36	7	2071	29				2100
2120	13	2051	69	11	2062	58	9	2071	49	8	2079	41	8	2087	33				2120
2140	13	2063	77	12	2075	65	10	2085	55	9	2094	46	8	2102	38	7	2109	31	2140
2160	14	2075	85	12	2087	73	12	2099	61	10	2109	51	9	2118	42	7	2125	35	2160
2180	14	2086	94	13	2099	81	13	2112	68	11	2123	57	9	2132	48	8	2140	40	2180
2200	15	2097	103	14	2111	89	13	2124	76	12	2136	64	10	2146	54	9	2155	45	2200
2220	16	2108	112	15	2123	97	13	2136	84	13	2149	71	11	2160	60	10	2170	50	2220
2240	16	2118	122	16	2134	106	14	2148	92	14	2161	79	12	2173	67	11	2184	56	2240
2260	17	2128	132	17	2145	115	15	2160	100	14	2174	86	12	2186	74	11	2197	63	2260
2280	18	2138	142	17	2155	125	16	2171	109	14	2185	95	13	2198	82	12	2210	70	2280
2300	19	2147	153	17	2164	136	17	2181	119	15	2196	104	14	2210	90	13	2223	77	2300
2320	20	2156	164	18	2174	146	17	2191	129	16	2207	113	15	2222	98	13	2235	85	2320
2340	20	2164	176	19	2183	157	18	2201	139	17	2218	122	15	2233	107	14	2247	93	2340
2360	20	2172	188	20	2192	168	18	2210	150	18	2228	132	16	2244	116	15	2259	101	2360
2380	21	2180	200	20	2200	180	19	2219	161	18	2237	143	17	2254	126	16	2270	110	2380
2400	22	2187	213	21	2208	192	20	2228	172	18	2246	154	18	2264	136	16	2280	120	2400
2420	22	2194	226	22	2216	204	20	2236	184	19	2255	165	18	2273	147	17	2290	130	2420
2440	23	2201	239	22	2223	217	21	2244	196	19	2263	177	19	2282	158	18	2300	140	2440
2460	23	2207	253	23	2230	230	22	2252	208	19	2272	188	19	2291	169	18	2309	151	2460
2480	24	2213	267	24	2237	243	22	2259	221	20	2280	200	20	2300	180	18	2318	162	2480
2500	24	2219	281	24	2243	257	23	2266	234	21	2287	213	21	2308	192	19	2327	173	2500
2520	25	2225	295	24	2249	271	23	2272	248	22	2294	226	22	2316	204	20	2336	184	2520
2540	25	2230	310	24	2255	285	23	2278	262	23	2301	239	22	2323	217	21	2344	196	2540
2560	26	2236	324	25	2261	299	24	2285	275	23	2308	252	23	2331	229	21	2352	208	2560
2580	26	2241	339	25	2266	314	24	2290	290	24	2314	266	23	2337	243	22	2359	221	2580
2600	26	2245	355	26	2271	329	25	2296	304	24	2320	280	24	2344	256	22	2366	234	2600
2620	27	2250	370	26	2276	344	25	2301	319	24	2326	294	24	2350	270	23	2373	247	2620
2640	27	2254	386	26	2280	360	26	2306	334	25	2331	309	25	2356	284	23	2379	261	2640
2660	27	2258	402	27	2285	375	26	2311	349	25	2336	324	25	2361	299	24	2385	275	2660
2680	28	2262	418	27	2289	391	26	2315	365	26	2341	339	26	2367	313	24	2391	289	2680
2700	28	2266	434	27	2293	407	27	2320	380	26	2346	354	26	2372	328	25	2397	303	2700
2720	28	2270	450	27	2297	423	27	2324	396	27	2351	369	26	2377	343	25	2402	318	2720
2740	28	2273	467	28	2301	439	27	2328	412	27	2355	385	27	2382	358	26	2408	332	2740
2760	28	2276	484	28	2304	456	28	2332	428	28	2360	400	27	2387	373	26	2413	347	2760
2780	29	2280	500	28	2308	472	28	2336	444	28	2364	416	27	2391	389	27	2417	363	2780
2800	29	2283	517	29	2312	488	28	2340	460	28	2368	432	27	2395	405	27	2422	378	2800
2820	29	2286	534	29	2315	505	28	2343	477	28	2371	449	28	2399	421	27	2426	394	2820
2840	30	2289	551	29	2318	522	29	2347	493	28	2375	465	28	2403	437	27	2430	410	2840
2860	30	2292	568	29	2321	539	29	2350	510	29	2379	481	28	2407	453	27	2434	426	2860
2880	30	2294	586	30	2324	556	29	2353	527	29	2382	498	28	2410	470	28	2438	442	2880
2900	30	2297	603	30	2327	573	29	2356	544	29	2385	515	29	2414	486	28	2442	458	2900
2920	30	2299	621	30	2329	591	30	2359	561	29	2388	532	29	2417	503	29	2446	474	2920
2940				30	2332	608	30	2362	578	29	2391	549	29	2420	520	29	2449	491	2940
2960							30	2365	595	29	2394	566	29	2423	537	29	2452	508	2960
2980							30	2367	613	30	2397	583	29	2426	554	29	2455	525	2980
3000							30	2369	631	30	2399	601	30	2429	571	30	2459	541	3000

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number																		CCS Offered
	73			74			75			76			77			78			
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		
2160	7	2132	28																2160
2180	8	2148	32																2180
2200	8	2163	37	7	2170	30													2200
2220	8	2178	42	8	2186	34													2220
2240	9	2193	47	8	2201	39	7	2208	32										2240
2260	10	2207	53	9	2216	44	8	2224	36	7	2231	29							2260
2280	11	2221	59	10	2231	49	8	2239	41	8	2247	33							2280
2300	12	2235	65	10	2245	55	9	2254	46	8	2262	38	7	2269	31				2300
2320	13	2248	72	11	2259	61	10	2269	51	8	2277	43	8	2285	35				2320
2340	13	2260	80	12	2272	68	11	2283	57	9	2292	48	8	2300	40	7	2307	33	2340
2360	14	2273	87	12	2285	75	11	2296	64	10	2306	54	9	2315	45	8	2323	37	2360
2380	14	2284	96	13	2297	83	12	2309	71	11	2320	60	10	2330	50	8	2338	42	2380
2400	15	2295	105	14	2309	91	13	2322	78	12	2334	66	10	2344	56	9	2353	47	2400
2420	16	2306	114	15	2321	99	13	2334	86	13	2347	73	11	2358	62	9	2367	53	2420
2440	16	2316	124	16	2332	108	14	2346	94	13	2359	81	12	2371	69	10	2381	59	2440
2460	17	2326	134	17	2343	117	15	2358	102	14	2372	88	12	2384	76	11	2395	65	2460
2480	18	2336	144	17	2353	127	16	2369	111	14	2383	97	13	2396	84	12	2408	72	2480
2500	18	2345	155	18	2363	137	17	2380	120	15	2395	105	13	2408	92	13	2421	79	2500
2520	19	2355	165	18	2373	147	17	2390	130	16	2406	114	14	2420	100	13	2433	87	2520
2540	20	2364	176	18	2382	158	18	2400	140	16	2416	124	15	2431	109	14	2445	95	2540
2560	20	2372	188	19	2391	169	18	2409	151	17	2426	134	16	2442	118	15	2457	103	2560
2580	21	2380	200	19	2399	181	19	2418	162	18	2436	144	16	2452	128	16	2468	112	2580
2600	21	2387	213	20	2407	193	20	2427	173	18	2445	155	17	2462	138	16	2478	122	2600
2620	22	2395	225	20	2415	205	20	2435	185	19	2454	166	18	2472	148	17	2489	131	2620
2640	23	2402	238	21	2423	217	20	2443	197	20	2463	177	18	2481	159	18	2499	141	2640
2660	23	2408	252	22	2430	230	21	2451	209	20	2471	189	19	2490	170	19	2509	151	2660
2680	24	2415	265	22	2437	243	22	2459	221	20	2479	201	20	2499	181	19	2518	162	2680
2700	24	2421	279	23	2444	256	22	2466	234	21	2487	213	20	2507	193	20	2527	173	2700
2720	25	2427	293	23	2450	270	23	2473	247	21	2494	226	21	2515	205	21	2536	184	2720
2740	25	2433	307	24	2457	283	23	2480	260	22	2502	238	21	2523	217	21	2544	196	2740
2760	25	2438	322	24	2462	298	24	2486	274	22	2508	252	22	2530	230	22	2552	208	2760
2780	26	2443	337	25	2468	312	24	2492	288	23	2515	265	22	2537	243	22	2559	221	2780
2800	26	2448	352	25	2473	327	25	2498	302	23	2521	279	23	2544	256	22	2566	234	2800
2820	27	2453	367	25	2478	342	25	2503	317	24	2527	293	23	2550	270	23	2573	247	2820
2840	27	2457	383	26	2483	357	25	2508	332	24	2532	308	24	2556	284	23	2579	261	2840
2860	27	2461	399	26	2487	373	26	2513	347	25	2538	322	25	2563	297	23	2586	274	2860
2880	28	2466	414	26	2492	388	26	2518	362	26	2544	336	25	2568	312	24	2592	288	2880
2900	28	2470	430	27	2497	403	26	2523	377	26	2549	351	25	2574	326	24	2598	302	2900
2920	28	2474	446	27	2501	419	27	2528	392	26	2554	366	25	2579	341	25	2604	316	2920
2940	29	2478	462	27	2505	435	27	2532	408	27	2559	381	25	2584	356	25	2609	331	2940
2960	29	2481	479	28	2509	451	27	2536	424	27	2563	397	26	2589	371	26	2615	345	2960
2980	29	2484	496	28	2512	468	28	2540	440	28	2568	412	26	2594	386	26	2620	360	2980
3000	29	2488	512	28	2516	484	28	2544	456	28	2572	428	26	2598	402	26	2624	376	3000

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

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ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS Offered	Trunk Number												CCS Offered
	91			92			93			94			
	Carried		Of1	Carried		Of1	Carried		Of1	Carried		Of1	
	Trk	Tot		Trk	Tot		Trk	Tot		Trk	Tot		
2760	7	2726	34										2760
2780	8	2742	38	7	2749	31							2780
2800	8	2757	43	8	2765	35							2800
2820	9	2772	48	8	2780	40	7	2787	33				2820
2840	9	2787	53	9	2796	44	7	2803	37	7	2810	30	2840
2860	10	2801	59	9	2810	50	8	2818	42	7	2825	35	2860
2880	11	2815	65	10	2825	55	8	2833	47	8	2841	39	2880
2900	12	2829	71	10	2839	61	9	2848	52	8	2856	44	2900
2920	12	2842	78	11	2853	67	9	2862	58	9	2871	49	2920
2940	12	8255	85	11	2866	74	10	2876	64	9	2885	55	2940
2960	13	2867	93	12	2879	81	11	2890	70	10	2900	60	2960
2980	13	2879	101	13	2892	88	11	2903	77	11	2914	66	2980
3000	14	2891	109	13	2904	96	12	2916	84	99	2927	73	3000
		95			96			97			98		
2900	7	2863	37										2900
2920	7	2878	42	7	2885	35							2920
2940	8	2893	47	8	2901	39	7	2908	32				2940
2960	8	2908	52	9	2917	43	7	2924	36				2960
2980	9	2923	57	9	2932	48	8	2940	40	7	2947	33	2980
3000	10	2937	63	10	2947	53	8	2955	45	8	2963	37	3000

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS OFFERED	TRUNK NUMBER															CCS OFFERED
	71			72			73			74			75			
	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	
	TRK	TOT		TRK	TOT		TRK	TOT		TRK	TOT		TRK	TOT		
*			19.5			18.6			17.6			16.7			15.7	*
3024	30	2433	591	29	2462	562	29	2491	533	29	2520	504	28	2548	476	3024
3060	30	2338	622	30	2468	592	29	2497	563	29	2526	534	28	2554	506	3060
3096	31	2443	653	30	2473	623	30	2503	593	29	2532	564	29	2561	535	3096
3132	31	2447	685	30	2477	655	30	2507	625	30	2537	595	29	2566	566	3132
3168	31	2450	718	31	2481	687	30	2511	657	30	2541	627	30	2571	597	3168
3204				31	2485	719	31	2516	688	30	2546	658	30	2576	628	3204
3240							31	2520	720	30	2550	690	30	2580	660	3240
3276										31	2554	722	31	2585	691	3276
3312													31	2589	723	3312
*			22.6			22.4			22.2			22.0			21.8	*
		76			77			78			79			80		
*			14.8			13.9			13.0			12.2			11.3	*
3024	28	2576	448	27	2603	421	27	2630	394	26	2656	368	25	2681	343	3024
3060	28	2582	478	28	2610	450	27	2637	423	27	2664	396	26	2690	370	3060
3096	28	2589	507	28	2617	479	27	2644	452	27	2671	425	26	2697	399	3096
3132	29	2595	537	28	2623	509	28	2651	481	27	2678	454	27	2705	427	3132
3168	30	2601	567	29	2630	538	29	2659	509	28	2687	481	28	2715	453	3168
3204	30	2606	598	29	2635	569	29	2664	540	28	2692	512	28	2720	484	3204
3240	30	2610	630	29	2639	601	29	2668	572	29	2697	543	28	2725	515	3240
3276	30	2615	661	30	2645	631	29	2674	602	29	2703	573	28	2731	545	3276
3312	31	2620	692	30	2650	662	30	2680	632	30	2710	602	29	2739	573	3312
3348	31	2624	724	30	2654	694	30	2684	664	30	2714	634	30	2744	604	3348
3384				31	2659	725	30	2689	695	30	2719	665	30	2749	635	3384
3420							31	2694	726	30	2724	696	30	2754	666	3420
3456										31	2728	728	31	2759	697	3456
3492													31	2753	729	3492
*			21.6			21.4			21.2			21.1			20.9	*
		81			82			83			84			85		
*			10.5			9.7			9.0			8.2			7.5	*
3024	25	2706	318	24	2730	294	23	2753	271	22	2775	249	22	2797	227	3024
3060	25	2715	345	25	2740	320	24	2764	296	23	2787	273	22	2809	251	3060
3096	26	2723	373	25	2748	348	25	2773	323	23	2798	298	23	2821	275	3096
3132	27	2732	400	26	2758	374	25	2783	349	24	2807	325	24	2831	301	3132
3168	27	2742	426	26	2768	400	26	2794	374	25	2819	349	25	2844	324	3168
3204	28	2748	456	27	2775	429	26	2801	403	25	2826	378	25	2851	353	3204
3240	28	2753	487	28	2781	459	27	2808	432	26	2837	403	26	2863	377	3240
3276	28	2759	517	28	2787	489	27	2814	462	27	2841	435	26	2867	409	3276
3312	29	2768	544	29	2797	515	28	2825	487	28	2853	459	27	2880	432	3312
3348	29	2773	575	29	2802	546	28	2830	518	28	2858	490	27	2885	463	3348
3384	29	2778	606	29	2807	577	29	2836	548	28	2864	520	28	2892	492	3384
3420	30	2784	636	29	2813	607	29	2842	578	29	2871	549	28	2899	521	3420
3456	30	2789	667	30	2819	637	30	2849	607	29	2878	578	29	2907	549	3456
3492	30	2793	699	30	2823	669	30	2853	639	30	2883	609	29	2912	580	3492
3528	31	2798	730	31	2829	699	30	2859	669	30	2889	639	30	2919	609	3528
3564				31	2834	730	30	2864	700	30	2894	670	30	2924	640	3564
3600							31	2867	733	31	2898	702	30	2928	672	3600
*			20.7			20.5			20.4			19.5			18.7	*

* The figures at the top and bottom of each OFL Column state the percentage overflow of the first and last entries in the column, respectively.

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS OFFERED	TRUNK NUMBER															CCS OFFERED
	86			87			88			89			90			
	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	
	TRK	TOT		TRK	TOT		TRK	TOT		TRK	TOT		TRK	TOT		
*			6.8			6.2			5.6			5.0			4.5	*
3024	20	2817	207	20	2837	187	18	2855	169	18	2873	151	16	2889	135	3024
3060	21	2830	230	21	2851	209	20	2871	189	19	2890	170	18	2908	152	3060
3096	22	2843	253	22	2865	231	20	2885	211	20	2905	191	18	2923	173	3096
3132	23	2854	278	22	2876	256	21	2897	235	21	2918	214	19	2937	195	3132
3168	24	2868	300	23	2891	277	22	2913	255	22	2935	233	20	2955	213	3168
3204	24	2875	329	23	2898	306	23	2921	283	22	2943	261	21	2964	240	3204
3240	25	2888	352	24	2912	328	24	2936	304	23	2959	281	22	2981	259	3240
3276	25	2892	384	25	2917	359	24	2941	335	24	2965	311	23	2988	288	3276
3312	26	2906	406	26	2932	380	25	2957	355	25	2982	330	24	3006	306	3312
3348	27	2912	436	26	2938	410	26	2964	384	25	2989	359	25	3014	334	3348
3384	28	2920	464	27	2947	437	26	2973	411	26	2999	385	25	3024	360	3384
3420	28	2927	493	28	2955	465	27	2982	438	27	3009	411	26	3035	385	3420
3456	28	2935	521	28	2963	493	28	2991	465	27	3018	438	26	3044	412	3456
3492	29	2941	551	28	2969	523	28	2997	495	28	3025	467	27	3052	440	3492
3528	29	2948	580	29	2977	551	28	3005	523	28	3033	495	27	3060	468	3528
3564	29	2953	611	29	2982	582	28	3010	554	28	3038	526	28	3066	498	3564
3600	30	2958	642	30	2988	612	29	3017	583	29	3046	554	28	3074	526	3600
3690	31	2971	719	30	3001	689	30	3031	659	29	3060	630	29	3089	601	3690
3780				31	3011	769	31	3042	738	30	3072	708	30	3102	678	3780
3870										31	3083	787	31	3114	756	3870
*			19.5			20.3			19.5			20.3			19.5	*
		91			92			93			94			95		
*			4.0			3.5			3.1			2.7			2.3	*
3024	15	2904	120	14	2918	106	13	2931	93	12	2943	81	11	2954	70	3024
3060	17	2925	135	16	2941	119	14	2955	105	13	2968	92	12	2980	80	3060
3096	17	2940	156	17	2957	139	15	2972	124	14	2986	110	13	2999	97	3096
3132	19	2956	176	18	2974	158	17	2991	141	16	3007	125	15	3022	110	3132
3168	20	2975	193	19	2994	174	18	3012	156	17	3029	139	16	3045	123	3168
3204	21	2985	219	20	3005	199	19	3024	180	18	3042	162	17	3059	145	3204
3240	22	3003	237	21	3024	216	20	3044	196	19	3063	177	18	3081	159	3240
3276	22	3010	266	21	3031	245	21	3052	224	20	3072	204	19	3091	185	3276
3312	23	3029	283	22	3051	261	22	3073	239	20	3093	219	20	3113	199	3312
3348	24	3038	310	23	3061	287	22	3083	265	21	3104	244	21	3125	223	3348
3384	25	3049	335	23	3074	310	23	3097	287	22	3119	265	22	3141	243	3384
3420	25	3060	360	24	3084	336	24	3108	312	23	3131	289	22	3153	267	3420
3456	26	3070	386	25	3095	361	25	3120	336	24	3144	312	23	3167	289	3456
3492	27	3079	413	26	3105	387	26	3131	361	25	3156	336	24	3180	312	3492
3528	27	3087	441	26	3113	415	26	3139	389	25	3164	364	25	3189	339	3528
3564	27	3093	471	27	3120	444	26	3146	418	26	3172	392	25	3197	367	3564
3600	28	3102	498	27	3129	471	27	3156	444	27	3183	417	26	3209	391	3600
3690	29	3118	572	28	3146	544	28	3174	516	27	3201	489	27	3228	462	3690
3780	30	3132	648	29	3161	619	29	3190	590	29	3219	561	28	3247	533	3780
3870	31	3145	725	30	3175	695	30	3205	665	29	3234	636	29	3263	607	3870
3960				31	3185	775	31	3216	744	30	3246	714	30	3276	684	3960
4050													31	3288	762	4050
*			18.7			19.6			18.8			18.0			18.8	*

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ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS OFFERED	TRUNK NUMBER															CCS OFFERED
	96			97			98			99			100			
	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	
	TRK	TOT		TRK	TOT		TRK	TOT		TRK	TOT		TRK	TOT		
*			2.0			1.7			1.4			1.2			1.1	*
3024	10	2964	60	9	2973	51	8	2981	43	7	2988	36				3024
3060	11	2991	69	10	3001	59	9	3010	50	8	3018	42	7	3025	35	3060
3096	12	3011	85	12	3023	73	10	3033	63	9	3042	54	8	3050	46	3096
3132	14	3036	96	13	3049	83	11	3060	72	10	3070	62	9	3079	53	3132
3168	15	3060	108	14	3074	94	12	3085	83	10	3096	72	10	3106	62	3168
3204	16	3075	129	15	3090	114	14	3104	100	12	3116	88	11	3127	77	3204
3240	17	3098	142	16	3114	126	15	3129	111	14	3143	97	13	3156	84	3240
3276	18	3109	167	17	3126	150	16	3142	134	15	3157	119	14	3171	105	3276
3312	19	3132	180	17	3149	163	17	3166	146	16	3182	130	14	3196	116	3312
3348	20	3145	203	19	3164	184	18	3182	166	17	3199	149	16	3215	133	3348
3384	20	3161	223	20	3181	203	18	3199	185	18	3217	167	17	3234	150	3384
3420	21	3174	246	21	3195	225	20	3215	205	19	3234	186	18	3252	168	3420
3456	22	3189	267	22	3211	245	20	3231	225	20	3251	205	19	3270	186	3456
3492	23	3203	289	22	3225	267	21	3246	246	20	3266	226	20	3286	206	3492
3528	24	3213	315	23	3236	292	22	3258	270	21	3279	249	20	3299	229	3528
3564	24	3221	343	24	3245	319	23	3268	296	22	3290	274	21	3311	253	3564
3600	25	3234	366	24	3258	342	24	3282	318	23	3305	295	22	3327	273	3600
3690	27	3255	435	26	3281	409	25	3306	384	25	3331	359	24	3355	335	3690
3780	28	3275	505	28	3303	477	27	3330	450	26	3356	424	26	3382	398	3780
3870	29	3292	578	28	3320	550	28	3348	522	28	3376	494	27	3403	467	3870
3960	30	3306	654	29	3335	625	29	3364	596	29	3393	567	28	3421	539	3960
4050	31	3319	731	30	3349	701	30	3379	671	29	3408	642	29	3437	613	4050
4140	31	3329	811	31	3360	780	30	3390	750	30	3420	720	30	3450	690	4140
4230										31	3432	798	31	3463	767	4230
*			19.6			18.8			18.1			18.9			18.2	*
		101			102			103			104			105		
*			1.4			1.2			1.2			1.3			1.2	*
3132	8	3087	45	7	3094	38										3132
3168	9	3115	53	8	3123	45	7	3130	38							3168
3204	10	3137	67	9	3146	58	8	3154	50	7	3161	43				3204
3240	11	3167	73	10	3177	63	9	3186	54	8	3194	46	7	3201	39	3240
3276	13	3184	92	11	3195	81	10	3205	71	9	3214	62	8	3222	54	3276
3312	14	3210	102	12	3222	90	12	3234	78	10	3244	68	10	3254	58	3312
3348	15	3230	118	14	3244	104	13	3257	91	12	3269	79	11	3280	68	3348
3384	15	3249	135	15	3264	120	14	3278	106	12	3290	94	12	3302	82	3384
3420	17	3269	151	16	3285	135	15	3300	120	13	3313	107	13	3326	94	3420
3456	18	3288	168	17	3305	151	15	3320	136	15	3335	121	14	3349	107	3456
3492	19	3305	187	18	3323	169	17	3340	152	16	3356	136	15	3371	121	3492
3528	20	3319	209	19	3338	190	18	3356	172	16	3372	156	16	3388	140	3528
3564	21	3332	232	20	3352	212	19	3371	193	18	3389	175	17	3406	158	3564
3600	22	3349	251	21	3370	230	19	3389	211	19	3408	192	18	3426	174	3600
3690	23	3360	312	22	3400	290	21	3421	269	21	3442	248	20	3462	228	3690
3780	25	3407	373	24	3431	349	24	3455	325	23	3478	302	22	3500	280	3780
3870	26	3429	441	26	3455	415	25	3480	390	25	3505	365	24	3529	341	3870
3960	28	3449	511	27	3476	484	27	3503	457	26	3529	431	26	3555	405	3960
4050	29	3466	584	28	3494	556	28	3522	528	27	3549	501	27	3576	474	4050
4140	30	3480	660	29	3509	631	29	3538	602	29	3567	573	28	3595	545	4140
4230	30	3493	737	30	3523	707	30	3553	677	29	3582	648	29	3611	619	4230
4320	31	3503	817	31	3534	786	30	3564	756	30	3594	726	30	3624	696	4320
4410							31	3576	834	31	3607	803	30	3637	773	4410
*			18.9			18.2			18.9			18.2			17.5	*

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ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS OFFERED	TRUNK NUMBER															CCS OFFERED
	106			107			108			109			110			
	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	
	TRK	TOT		TRK	TOT		TRK	TOT		TRK	TOT		TRK	TOT		
*			1.4			1.3			1.1			1.0			1.3	*
3276	7	3229	47													3276
3312	8	3262	50	8	3270	42	7	3277	35							3312
3348	9	3289	59	9	3298	50	8	3306	42	7	3313	35				3348
3384	10	3312	72	10	3322	62	9	3331	53	7	3338	46				3384
3420	12	3338	82	11	3349	71	10	3359	61	9	3368	52	8	3376	44	3420
3456	13	3362	94	11	3373	83	11	3384	72	10	3394	62	9	3403	53	3456
3492	14	3385	107	12	3397	95	12	3409	83	11	3420	72	10	3430	62	3492
3528	15	3403	125	14	3417	111	13	3430	98	11	3441	87	11	3452	76	3528
3564	16	3422	142	15	3437	127	14	3451	113	13	3464	100	12	3476	88	3564
3600	17	3443	157	16	3459	141	15	3474	126	14	3488	112	13	3501	99	3600
3690	20	3482	208	18	3500	190	17	3517	173	17	3534	156	16	3550	140	3690
3780	22	3522	258	21	3543	237	20	3563	217	19	3582	198	18	3600	180	3780
3870	23	3552	318	23	3575	295	21	3596	274	21	3617	253	21	3638	232	3870
3960	25	3580	380	24	3604	356	24	3628	332	23	3651	309	22	3673	287	3960
4050	26	3602	448	26	3628	422	25	3653	397	25	3678	372	24	3702	348	4050
4140	28	3623	517	27	3650	490	26	3676	464	26	3702	438	26	3728	412	4140
4230	29	3640	590	28	3668	562	28	3696	534	27	3723	507	27	3750	480	4230
4320	30	3654	666	29	3683	637	29	3712	608	28	3740	580	28	3768	552	4320
4410	30	3667	743	30	3697	713	30	3727	683	29	3756	654	29	3785	625	4410
4500	31	3678	822	31	3709	791	30	3739	761	30	3769	731	30	3799	701	4500
4590										31	3781	809	31	3812	778	4590
4680													31	3822	858	4680
*			18.3			17.6			16.9			17.6			18.3	*
		111			112			113			114			115		
*			1.3			1.1			1.1			1.2			1.2	*
3456	7	3410	46	7	3417	39										3456
3492	9	3439	53	8	3447	45	7	3454	38							3492
3528	10	3462	66	9	3471	57	8	3479	49	7	3486	42				3528
3564	11	3487	77	10	3497	67	9	3506	58	8	3514	50	7	3521	43	3564
3600	12	3513	87	11	3524	76	10	3534	66	9	3543	57	8	3551	49	3600
3690	15	3566	124	13	3579	111	13	3592	98	11	3603	87	11	3614	76	3690
3780	17	3617	163	16	3633	147	15	3648	132	14	3662	118	13	3675	105	3780
3870	19	3657	213	18	3675	195	18	3693	177	16	3709	161	16	3725	145	3870
3960	22	3695	265	21	3716	244	20	3736	224	19	3755	205	18	3773	187	3960
4050	23	3725	325	23	3748	302	22	3770	280	21	3791	259	20	3811	239	4050
4140	25	3753	387	25	3778	362	23	3801	339	23	3824	316	23	3847	293	4140
4230	26	3776	454	26	3802	428	25	3827	403	24	3851	379	24	3875	355	4230
4320	28	3796	524	27	3823	497	27	3850	470	26	3876	444	26	3902	418	4320
4410	28	3813	597	28	3841	569	28	3869	541	27	3896	514	27	3923	487	4410
4500	29	3828	672	29	3857	643	29	3886	614	28	3914	586	28	3942	558	4500
4590	30	3842	748	30	3872	718	29	3901	689	29	3930	660	29	3959	631	4590
4680	31	3853	827	30	3883	797	30	3913	767	30	3943	737	30	3973	707	4680
4770							31	3925	845	31	3956	814	31	3986	784	4770
4860													31	3997	863	4860
*			17.7			17.0			17.7			17.0			17.7	*

* The figures at the top and bottom of each OFL Column state the percentage overflow of the first and last entries in the column, respectively.

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS OFFERED	TRUNK NUMBER															CCS OFFERED
	116			117			118			119			120			
	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	
	TRK	TOT		TRK	TOT		TRK	TOT		TRK	TOT		TRK	TOT		
*			1.8			1.6			1.4			1.6			1.4	*
3690	10	3624	66	8	3632	58	8	3640	50							3690
3780	13	3688	92	11	3699	81	10	3709	71	10	3719	61	8	3727	53	3780
3870	15	3740	130	14	3754	116	12	3766	104	12	3778	92	11	3789	81	3870
3960	17	3790	170	17	3807	153	15	3822	138	14	3836	124	14	3850	110	3960
4050	19	3830	220	19	3849	201	18	3867	183	16	3883	167	16	3899	151	4050
4140	21	3868	272	21	3889	251	20	3909	231	19	3928	212	19	3947	193	4140
4230	23	3898	332	22	3920	310	22	3942	288	21	3963	267	21	3984	246	4230
4320	25	3927	393	24	3951	369	24	3975	345	23	3998	322	22	4020	300	4320
4410	26	3949	461	26	3975	435	25	4000	410	25	4025	385	24	4049	361	4410
4500	28	3970	530	27	3997	503	27	4024	476	26	4050	450	25	4075	425	4500
4590	28	3987	603	28	4015	575	28	4043	547	27	4070	520	27	4097	493	4590
4680	29	4002	678	29	4031	649	29	4060	628	28	4088	592	28	4116	564	4680
4770	30	4016	754	30	4046	724	29	4075	695	29	4104	666	29	4133	637	4770
4860	31	4028	832	30	4058	802	30	4088	772	30	4118	742	30	4148	712	4860
4950							31	4100	850	31	4131	819	30	4161	789	4950
5040													31	4172	868	5040
*			17.1			16.5			17.2			16.5			17.2	*
		121			122			123			124			125		
*			1.2			1.1			1.4			1.2			1.4	*
3780	8	3735	45	6	3741	39										3780
3870	10	3799	71	9	3808	62	8	3816	54	8	3824	46				3870
3960	12	3862	98	12	3874	86	10	3884	76	10	3894	66	9	3903	57	3960
4050	15	3914	136	14	3928	122	13	3941	109	12	3953	97	11	3964	86	4050
4140	17	3964	176	17	3981	159	15	3996	144	15	4011	129	13	4024	116	4140
4230	20	4004	226	19	4023	207	17	4040	190	17	4057	173	16	4073	157	4230
4320	22	4042	278	21	4063	257	20	4083	237	19	4102	218	18	4120	200	4320
4410	23	4072	338	23	4095	315	22	4117	293	21	4138	272	20	4158	252	4410
4500	25	4100	400	24	4124	376	24	4148	352	23	4171	329	23	4194	306	4500
4590	26	4123	467	26	4149	441	25	4174	416	24	4198	392	24	4222	368	4590
4680	28	4144	536	27	4171	509	26	4197	483	26	4223	457	26	4249	431	4680
4770	29	4162	608	28	4190	580	27	4217	553	27	4244	526	27	4271	499	4770
4860	29	4177	683	29	4206	654	29	4235	625	28	4263	597	28	4291	569	4860
4950	30	4191	759	30	4220	729	29	4250	700	29	4279	671	29	4308	642	4950
5040	31	4203	837	30	4233	807	30	4263	777	30	4293	747	29	4322	718	5040
5130							31	4275	855	31	4306	824	30	4336	794	5130
5220													31	4347	873	5220
*			16.6			16.0			16.7			16.0			16.7	*

* The figures at the top and bottom of each OFL Column state the percentage overflow of the first and last entries in the column, respectively.

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS OFFERED	TRUNK NUMBER															CCS OFFERED
	126			127			128			129			130			
	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	
	TRK	TOT		TRK	TOT		TRK	TOT		TRK	TOT		TRK	TOT		
*			1.2			1.1			1.4			1.7			1.5	*
3960	8	3911	49	7	3918	42										3960
4050	10	3974	76	10	3984	66	8	3992	58							4050
4140	13	4037	103	12	4049	91	11	4060	80	10	4070	70	9	4079	61	4140
4230	15	4088	142	14	4102	128	14	4116	114	12	4128	102	11	4139	91	4230
4320	18	4138	182	16	4154	166	16	4170	150	15	4185	135	14	4199	121	4320
4410	20	4178	232	18	4196	214	18	4214	196	17	4231	179	16	4247	163	4410
4500	21	4215	285	21	4236	264	20	4256	244	20	4276	224	18	4294	206	4500
4590	24	4246	344	22	4268	322	22	4290	300	21	4311	279	21	4332	258	4590
4680	25	4274	406	24	4298	382	24	4322	358	23	4345	335	22	4367	313	4680
4770	26	4297	473	26	4323	447	25	4348	422	24	4372	398	24	4396	374	4770
4860	27	4318	542	27	4345	515	26	4371	489	26	4397	463	26	4423	437	4860
4950	28	4336	614	28	4364	586	27	4391	559	27	4418	532	27	4445	505	4950
5040	29	4351	689	29	4380	660	29	4409	631	28	4437	603	28	4465	575	5040
5130	30	4366	764	29	4395	735	29	4424	706	29	4453	677	29	4482	648	5130
5220	31	4378	842	30	4408	812	30	4438	782	30	4468	752	29	4497	723	5220
5310				31	4419	891	31	4450	860	30	4480	830	30	4510	800	5310
5400										31	4491	909	31	4522	878	5400
*			16.1			16.8			16.2			16.8			16.2	*
		131			132			133			134			135		
*			1.3			1.1			1.5			1.3			1.1	*
4140	8	4087	53	7	4094	46										4140
4230	11	4150	80	10	4160	70	8	4168	62	8	4176	54	7	4183	47	4230
4320	13	4212	108	12	4224	96	11	4235	85	10	4245	75	9	4254	66	4320
4410	16	4263	147	14	4277	133	13	4290	120	13	4303	107	12	4315	95	4410
4500	18	4312	188	17	4329	171	16	4345	155	15	4360	140	14	4374	126	4500
4590	19	4351	239	19	4370	220	18	4388	202	17	4405	185	17	4422	168	4590
4680	22	4389	291	21	4410	270	20	4430	250	20	4450	230	18	4468	212	4680
4770	23	4419	351	23	4442	328	22	4464	306	21	4485	285	20	4505	265	4770
4860	25	4448	412	24	4472	388	24	4496	364	23	4519	341	22	4541	319	4860
4950	26	4471	479	25	4496	454	25	4521	429	25	4546	404	24	4570	380	4950
5040	27	4492	548	27	4519	521	26	4545	495	26	4571	469	26	4597	443	5040
5130	28	4510	620	28	4538	592	27	4565	565	27	4592	538	27	4619	511	5130
5220	29	4526	694	29	4555	665	28	4583	637	28	4611	609	28	4639	581	5220
5310	30	4540	770	30	4570	740	29	4599	711	29	4628	682	28	4656	654	5310
5400	30	4552	848	30	4582	818	30	4612	788	30	4642	758	30	4672	728	5400
5490	31	4564	926	31	4595	895	30	4625	865	30	4655	835	30	4685	805	5490
5580										31	4666	914	31	4697	883	5580
*			16.9			16.3			15.8			16.4			15.8	*

* The figures at the top and bottom of each OFL Column state the percentage overflow of the first and last entries in the column, respectively.

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS OFFERED	TRUNK NUMBER															CCS OFFERED
	136			137			138			139			140			
	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	
	TRK	TOT		TRK	TOT		TRK	TOT		TRK	TOT		TRK	TOT		
*			1.3			1.1			1.5			1.3			1.2	*
4320	9	4263	57	8	4271	49				8	4352	58	7	4359	51	4320
4410	11	4326	84	9	4335	75	9	4344	66	11	4421	79	9	4430	70	4410
4500	13	4387	113	12	4399	101	11	4410	90	13	4478	112	12	4490	100	4500
4590	15	4437	153	15	4452	138	13	4465	125	15	4534	146	14	4548	132	4590
4680	18	4486	194	17	4503	177	16	4519	161	18	4579	191	17	4596	174	4680
4770	20	4525	245	19	4544	226	18	4562	208	20	4623	237	19	4642	218	4770
4860	22	4563	297	21	4584	276	20	4604	256	22	4659	291	20	4679	271	4860
4950	23	4593	357	23	4616	334	22	4638	312	23	4693	347	22	4715	325	4950
5040	25	4622	418	24	4646	394	24	4670	370	25	4720	410	24	4744	386	5040
5130	26	4645	485	25	4670	460	25	4695	435	26	4745	475	26	4771	449	5130
5220	27	4666	554	27	4693	527	26	4719	501	27	4767	543	26	4793	517	5220
5310	28	4684	626	28	4712	598	28	4740	570	28	4786	614	28	4814	586	5310
5400	29	4701	699	29	4730	670	28	4758	642	29	4803	687	28	4831	659	5400
5490	30	4715	775	30	4745	745	29	4774	716	30	4817	763	29	4846	734	5490
5580	30	4727	853	30	4757	823	30	4787	793	30	4830	840	30	4860	810	5580
5670	31	4739	931	31	4770	900	30	4800	870	31	4842	918	31	4873	887	5670
5760																5760
*			16.4			15.9			15.3			15.9			15.4	*
		141			142			143			144			145		
*			1.4			1.2			1.0			1.4			1.2	*
4500	9	4439	61	8	4447	53	7	4454	46	8	4528	62	8	4536	54	4500
4590	11	4501	89	10	4511	79	9	4520	70	10	4596	84	10	4606	74	4590
4680	14	4562	118	12	4574	106	12	4586	94	13	4654	116	12	4666	104	4680
4770	16	4612	158	15	4627	143	14	4641	129	15	4708	152	15	4723	137	4770
4860	18	4660	200	17	4677	183	16	4693	167	18	4754	196	16	4770	180	4860
4950	20	4699	251	19	4718	232	18	4736	214	20	4798	242	18	4816	224	4950
5040	22	4737	303	21	4758	282	20	4778	262	21	4833	297	20	4853	277	5040
5130	23	4767	363	23	4790	340	22	4812	318	23	4867	353	22	4889	331	5130
5220	25	4796	424	24	4820	400	24	4844	376	25	4894	416	24	4918	392	5220
5310	26	4819	491	26	4845	465	25	4870	440	26	4920	480	25	4945	455	5310
5400	27	4841	559	27	4868	532	26	4894	506	27	4941	549	26	4967	523	5400
5490	28	4859	631	28	4887	603	27	4914	576	28	4960	620	28	4988	592	5490
5580	29	4875	705	29	4904	676	28	4932	648	29	4977	693	29	5006	664	5580
5670	30	4890	780	29	4919	751	29	4948	722	30	4992	768	29	5021	739	5670
5760	30	4903	857	30	4933	827	30	4963	797	30	5005	845	30	5035	815	5760
5850	31	4914	936	31	4945	905	30	4975	875	31	5017	923	31	5048	892	5850
5940																5940
*			16.0			15.4			14.9			15.5			15.0	*

* The figures at the top and bottom of each OFL Column state the percentage overflow of the first and last entries in the column, respectively.

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS OFFERED	TRUNK NUMBER															CCS OFFERED
	146			147			148			149			150			
	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	
	TRK	TOT		TRK	TOT		TRK	TOT		TRK	TOT		TRK	TOT		
*			1.0			1.2			1.0			1.4			1.2	*
4590	7	4543	47													4590
4680	9	4615	65	8	4623	57	8	4631	49							4680
4770	11	4677	93	10	4687	83	9	4696	74	9	4705	65	8	4713	57	4770
4860	13	4736	124	13	4749	111	12	4761	99	11	4772	88	10	4782	78	4860
4950	16	4786	164	15	4801	149	14	4815	135	13	4828	122	12	4840	110	4950
5040	18	4834	206	17	4851	189	17	4868	172	15	4883	157	15	4898	142	5040
5130	20	4873	257	19	4892	238	19	4911	219	18	4929	201	17	4946	184	5130
5220	22	4911	309	21	4932	288	20	4952	268	20	4972	248	19	4991	229	5220
5310	23	4941	369	23	4964	346	22	4986	324	21	5007	303	21	5028	282	5310
5400	25	4970	430	24	4994	406	24	5018	382	23	5041	359	22	5063	337	5400
5490	26	4993	497	26	5019	471	25	5044	446	24	5068	422	24	5092	398	5490
5580	27	5015	565	27	5042	538	26	5068	512	26	5094	486	25	5119	461	5580
5670	28	5034	636	27	5061	609	27	5088	582	27	5115	555	27	5142	528	5670
5760	29	5050	710	29	5079	681	28	5107	653	28	5135	625	27	5162	598	5760
5850	30	5065	785	29	5094	756	29	5123	727	29	5152	698	28	5180	670	5850
5940	30	5078	862	30	5108	832	30	5138	802	29	5167	773	29	5196	744	5940
6030	31	5090	940	31	5121	909	30	5150	880	30	5180	850	30	5210	820	6030
6120							31	5162	958	31	5193	927	30	5223	897	6120
*			15.6			15.1			15.7			15.2			14.7	*
		151			152			153			154			155		
*			1.4			1.2			1.1			1.4			1.2	*
4860	9	4791	69	9	4800	60	7	4807	53							4860
4950	12	4852	98	10	4862	88	10	4872	78	9	4881	69	8	4889	61	4950
5040	13	4911	129	13	4924	116	12	4936	104	11	4947	93	11	4958	82	5040
5130	16	4962	168	15	4977	153	14	4991	139	13	5004	126	12	5016	114	5130
5220	18	5009	211	17	5026	194	16	5042	178	16	5058	162	15	5073	147	5220
5310	20	5048	262	19	5067	243	18	5085	225	17	5102	208	16	5118	192	5310
5400	22	5085	315	21	5106	294	20	5126	274	20	5146	254	19	5165	235	5400
5490	23	5115	375	23	5138	352	22	5160	330	21	5181	309	21	5202	288	5490
5580	25	5144	436	24	5168	412	24	5192	388	23	5215	365	22	5237	343	5580
5670	26	5168	502	25	5193	477	25	5218	452	24	5242	428	24	5266	404	5670
5760	27	5189	571	27	5216	544	26	5242	518	26	5268	492	25	5293	467	5760
5850	28	5208	642	28	5236	614	27	5263	587	27	5290	560	26	5316	534	5850
5940	29	5225	715	29	5254	686	28	5282	658	28	5310	630	27	5337	603	5940
6030	30	5240	790	29	5269	761	29	5298	732	29	5327	703	28	5355	675	6030
6120	30	5253	867	30	5283	837	30	5313	807	29	5342	778	29	5371	749	6120
6210	31	5265	945	31	5296	914	30	5326	884	30	5356	854	30	5386	824	6210
6300							31	5337	963	31	5368	932	30	5398	902	6300
6390													31	5410	980	6390
*			15.2			14.7			15.3			14.8			15.3	*

* The figures at the top and bottom of each OFL Column state the percentage overflow of the first and last entries in the column, respectively.

ALTERNATE ROUTING TRUNK TABLES

Hundred Call-Seconds Carried by and Overflowing
From Each Trunk Shown in Column Headings and
Total CCS Carried on Group

CCS OFFERED	TRUNK NUMBER															CCS OFFERED
	156			157			158			159			160			
	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	CARRIED		OFL	
	TRK	TOT		TRK	TOT		TRK	TOT		TRK	TOT		TRK	TOT		
*			1.1			1.3			1.1			1.0			1.3	*
4950	8	4897	53													4950
5040	10	4968	72	9	4977	63	8	4985	55	7	4992	48				5040
5130	11	5027	103	11	5038	92	10	5048	82	9	5057	73	8	5065	65	5130
5220	14	5087	133	13	5100	120	12	5112	108	11	5123	97	11	5134	86	5220
5310	16	5134	176	15	5149	161	14	5163	147	14	5177	133	13	5190	120	5310
5400	18	5183	217	17	5200	200	17	5217	183	16	5233	167	14	5247	153	5400
5490	20	5222	268	19	5241	249	18	5259	231	18	5277	213	17	5294	196	5490
5580	22	5259	321	21	5280	300	21	5301	279	19	5320	260	19	5339	241	5580
5670	23	5289	381	23	5312	358	22	5334	336	21	5355	315	21	5376	294	5670
5760	25	5318	442	24	5342	418	24	5366	394	23	5389	371	23	5412	348	5760
5850	26	5342	508	25	5367	483	25	5392	458	25	5417	433	24	5441	409	5850
5940	27	5364	576	27	5391	549	26	5417	523	26	5443	497	25	5468	472	5940
6030	28	5383	647	28	5411	619	27	5438	592	27	5465	565	26	5491	539	6030
6120	29	5400	720	29	5429	691	28	5457	663	28	5485	635	27	5512	608	6120
6210	29	5415	795	29	5444	766	29	5473	737	29	5502	708	28	5530	680	6210
6300	30	5428	872	30	5458	842	30	5488	812	29	5517	783	29	5546	754	6300
6390	31	5441	949	30	5471	919	30	5501	889	30	5531	859	30	5561	829	6390
6480				31	5482	998	31	5513	967	30	5543	937	30	5573	907	6480
6570							31	5524	1046	31	5555	1015	30	5585	985	6570
6660										31	5564	1096	31	5595	1065	6660
*			14.8			15.4			15.9			16.5			16.0	*

* The figures at the top and bottom of each OFL Column state the percentage overflow of the first and last entries in the column, respectively.