

## RIPE NCC Charging Scheme 2008 Addendum

### Appendix 2: Administration and Maintenance Fees for Direct End Users

Upon acceptance of the “RIPE NCC End User Assignment Agreement”, the End User shall pay the RIPE NCC an administration fee, equal to the sign-up fee for new members. During the term of the agreement, the End User shall pay a periodical maintenance fee based on the End User’s billing category.

An End User’s billing category is set based on the End User’s billing algorithm score. This score is based on the Internet number resource assignments made over time at the End User’s request. The scoring system takes into account all:

- IPv4 Provider Independent (PI) assignments
- IPv6 PI assignments
- AS Number assignments

For the purpose of this scoring algorithm and to relate the different Internet number resources to each other, one AS Number is equivalent ( $\triangleq$ ) to one IPv4 /24 PI assignment or to one IPv6 PI assignment. The following table shows how scoring units are determined based on resource usage. To establish scoring units based on larger or smaller resource usage, the same ratio applies.

AS Number Assignment	IPv4 PI Assignment	IPv6 PI Assignment	Scoring Unit
	/ 25 $\triangleq$		0.5
1 $\triangleq$	/ 24 $\triangleq$	1 $\triangleq$	1
2 $\triangleq$	/ 23 $\triangleq$	2 $\triangleq$	2
4 $\triangleq$	/ 22 $\triangleq$	4 $\triangleq$	4

Using this matching system, the following algorithm is run to determine the total score per End User:

$$S(\text{reg}) = \sum_{i=1}^N a_i * t_i$$

$a_i$  = Scoring unit

$t_i$  = Time function of assignment  $i$  ( year of assignment – 1992 )

$N$  = Number of assignments

The total score per End User is the sum of all assignment scores for that End User with a time factor applied to give more weight to recent assignments. Thus, the relative weight of a given assignment decreases over time. Based on the billing category boundaries determined by the Charging Scheme, the End User is assigned a billing category. For new End Users the billing category will be Extra Small for the first year.