

INTERCONNECTION SERVICE DESCRIPTIONS

Draft 1.0 RIO 2000.1.1

Algemeen

Bij de artikelsgewijze beoordeling van de RIO 2000.1.1 hanteert het college de volgende regel. Artikelen uit de Interconnection Service Descriptions welke naar de mening van het college behoren tot de RIA, worden beoordeeld met een verwijzing naar het Concept-besluit.

Bij artikelen -of zinsnedes van artikelen- welke naar de mening van het college niet behoren tot de RIA, wordt aangegeven dat deze beoordeling geschiedt vooruitlopend op een beoordeling op grond van 6.2 lid 2 TW en/of artikel 6.9 lid 2 TW jo artikel 6.2 lid 2 TW.

Bij de beoordeling van de RIA zal het college zich niet uitlaten over kennelijke administratieve verschrijvingen. De Interconnection Service Descriptions dient in een Nederlandstalige versie bekend te worden gemaakt.

Ontbrekende interconnectiediensten

1.1.a Collocatie

OPTA: zie Concept-besluit hoofdstuk 4 onder Collocatie.

1.1.b Interconnectie op huurlijnen

OPTA: zie Concept-besluit hoofdstuk 4 onder Interconnectie op huurlijnen.

1.1.c Interconnectie op grensoverschrijdende huurlijnen

OPTA: zie Concept-besluit hoofdstuk 4 onder Interconnectie op grensoverschrijdende huurlijnen.

1.1.d Toegang tot internationale zeekabelverbindingen

OPTA: zie Concept-besluit hoofdstuk 4 onder Toegang tot internationale zeekabelverbindingen.

1.1.e Sleepdiensten

OPTA: zie Concept-besluit hoofdstuk 4 onder Sleepdiensten.

1.1.f Nummerportabiliteit

OPTA: zie concept-besluit hoofdstuk 4 onder Nummerportabiliteit.

1.1.g Meervoudige aansluitingen

OPTA: zie Concept-besluit hoofdstuk 4 onder Meervoudige aansluitingen.

1.1.h Delen van carrier systemen

OPTA: zie Concept-besluit hoofdstuk 4 onder Delen van carrier systemen.

1.1.i KPN Telecom 2048 kbit/s In Span Network Interconnection Service

OPTA: zie Concept-besluit hoofdstuk 4 onder KPN Telecom 2048 kbit/s Network Interconnection Service.

1. KPN Telecom 2048 Kbit/s End of Span Network Interconnection Service

1.1 Service description

*1.1.1. The KPN Telecom 2048 kbit/s End of Span Network Interconnection Service:
i. will be provided by KPN Telecom to Telco, in accordance with the terms and*

conditions of this Agreement;

OPTA: zie Concept-besluit hoofdstuk 3 onder Definities. Het college is van oordeel dat ten onrechte wordt gesproken van 'the terms and conditions of this Agreement'. De omschrijving van de (interconnectie) diensten vormt onderdeel van de RIA, welke RIA niet als overeenkomst kan worden gekwalificeerd, maar als eenzijdig onherroepelijk aanbod.

ii. will provide a 2048 kbit/s transmission service between a Point of Presence Circuit Terminating Unit and an Access Point Circuit Terminating Unit provided within a KPN Telecom 34, 140 or 155 Mbit/s Carrier System for Services contained within the Service Schedule.

OPTA: zie Concept-besluit hoofdstuk 4 onder Meervoudige aansluitingen.

1.1.2 The following standards and operational procedures shall apply to the KPN Telecom 2048 kbit/s End of Span Network Interconnection Service:

i. the technical standards for the KPN Telecom 2048 kbit/s End of Span Network Interconnection Service as described in the Technical Manual and Parameter Schedule;

ii. operational procedures (forecasting, ordering, network management and operations, fault management, site access) described in the Operational and Maintenance Manual and Parameter Schedule;

iii. the procedures for billing and payment for services provided as described in the Billing Manual and Parameter Schedule.

1.2 Responsibilities

1.2.1 KPN Telecom will be responsible for:

i. forecasting and ordering the KPN Telecom use, if any, of the KPN Telecom 2048 kbit/s Network Interconnect Links within the KPN Telecom 2048 kbit/s End of Span Network Interconnection Service in accordance with the Operational and Maintenance Manual and Parameter Schedule;

ii. planning, providing, operating and maintaining the KPN Telecom 2048 kbit/s End of Span Network Interconnection Service;

iii. ordering, if required, of a new Carrier System where the KPN Telecom forecast for KPN Telecom 2048 kbit/s Network Interconnect Links is greater than Telco's forecast for KPN Telecom 2048 kbit/s Network Interconnect Links between an Access Point and Point of Presence;

OPTA: zie Concept-besluit hoofdstuk 4 onder Procedures voor het prognosticeren, bestellen en leveren van diensten.

iv. billing necessary to charge Telco for the KPN Telecom 2048 kbit/s End of Span Network Interconnection Service in accordance with the Billing Manual and Parameter Schedule;

v. charging Telco for any costs which have not been recovered as a result of shortfall of a forecast provided by Telco and for which the shortfall differs by more than the deviation set out in the Operational and Maintenance Manual and Parameter Schedule;

OPTA : zie Concept-besluit hoofdstuk 4 onder Procedures voor het prognosticeren, bestellen en leveren van diensten.

vi. managing and providing management information about the KPN Telecom 2048 kbit/s End of Span Network Interconnection Service from the KPN Telecom Access Point to the corresponding Telco Point of Presence in accordance with the Operational and Maintenance Manual and Parameter Schedule;

OPTA: zie Concept-besluit hoofdstuk 4 onder Meervoudige aansluitingen.

vii. connection of the cable from the Access Point Circuit Terminating Equipment to the switch port on KPN Telecom's Switching facilities.

1.2.2 Telco will be responsible for:

- i. forecasting and ordering the Telco use of the KPN Telecom 2048 kbit/s Network Interconnect Links within the KPN Telecom 2048 kbit/s End of Span Network Interconnection Service in accordance with the Operational and Maintenance Manual and Parameter Schedule;*
- ii. ordering, if required, of a new Carrier System where the KPN Telecom forecast for KPN Telecom 2048 kbit/s Network Interconnect Links is less than Telco's forecast for KPN Telecom 2048 kbit/s Network Interconnect Links between an Access Point and Point of Presence;*
- iii. contacting the KPN Telecom Helpdesk to report faults in accordance with the Operational and Maintenance Manual and Parameter Schedule;*
- iv. connection of the cable from the Point of Presence Circuit Termination Unit to the switch port on Telco's Switching facilities at Telco's own expense;*
- v. ensuring all equipment connected to the Point of Presence Circuit Termination Unit meets the safety standards and other equipment approval requirements set out in the Technical Manual and Parameter Schedule;*
- vi. providing an environment in which the Point of Presence Circuit Termination Unit can be installed and operated which meets the requirements set out in the Technical Manual at Telco's own expense.*

OPTA: zie Concept-besluit hoofdstuk 3 onder Verhouding tussen de RIA en het aanbod van marktpartijen. De verplichtingen van de Telco maken geen onderdeel uit van de RIA.

1.3 Quality of service

1.3.1 KPN Telecom will provide the KPN Telecom 2048 kbit/s End of Span Network Interconnection Service 24 hours/day, every day, to the service quality level set out in the Technical Manual and Parameter Schedule.

1.3.2 Quality levels for the KPN Telecom facilities specifically used to provide the KPN Telecom 2048 kbit/s End of Span Network Interconnection Service will be measured and reported by KPN Telecom in accordance with the Operational and Maintenance Manual and Parameter Schedule. KPN Telecom and Telco will periodically review the achieved quality parameters in accordance with the Operational and Maintenance Manual and Parameter Schedule.

1.3.3 The target Clearance Time over a twelve month period for faults as specified in the Operations and Maintenance Manual and Parameter Schedule which affect the KPN Telecom 2048 kbit/s End of Span Network Interconnection Service is set out in table F of Parameter Schedule. Faults and setting of priorities will be handled in accordance with table F of Parameter Schedule.

OPTA: zie Concept-besluit hoofdstuk 4 onder KPN Telecom PSTN Network Interconnection Service.

1.4 Configuration

1.4.1 The KPN Telecom 2048 kbit/s End of Span Network Interconnection Service:

- i. will be available from a KPN Telecom Access Point to exactly one corresponding Telco Point of Presence;*

- ii. may be provided using a KPN Telecom Carrier System capable of supporting more than one KPN Telecom 2048 kbit/s Network Interconnect Links all between one Point of Presence Circuit Terminating Unit and one corresponding Access Point Circuit Terminating Equipment.*

1.4.2 The single KPN Telecom 2048 kbit/s End of Span Network Interconnection Service is comprised of:

- i. necessary KPN Telecom Access Point Circuit Terminating Equipment;*
- ii. one or more KPN Telecom 2048 kbit/s Network Interconnect Links;*
- iii. part of a KPN Telecom 34, 140 or 155 Mbit/s Carrier System;*
- iv. zero, one or more KPN Telecom 2048 kbit/s 64 kbit/s Network Signalling links subject to there being a minimum of two such links in total in place between the Telco and KPN Telecom networks; and,*
- v. one Point of Presence Circuit Termination Unit.*

1.4.3 A 34 Mbit/s Carrier System is capable of supporting sixteen 2048 kbit/s Network Interconnect Links, a 140 Mbit/s Carrier System is capable of supporting sixty four 2048 kbit/s Network Interconnect Links and a 155 Mbit/s Carrier System is capable of supporting sixty three 2048 kbit/s Network Interconnect Links.

1.4.4 The Carrier System consists of a main transmission circuit and a standby transmission circuit. The main transmission circuit will be geographically separated from the standby transmission circuit in accordance with the specification for diversity set out in

the Technical Manual. Automatic switching to the standby transmission circuit will occur under fault conditions and will be provided by KPN Telecom. Resilience is only provided against failure of the main transmission circuit.

1.4.5 KPN Telecom is responsible for providing all the components other than for completing the 2048kbit/s Network Interconnect Link from the Point of Presence Circuit Terminating Unit to Telco's switching facilities which shall be provided by Telco at their own expense. Where a 2048 Kbit/s Network Interconnect Link includes one or more optional 64 Kbit/s Signalling Links, each 64 Kbit/s Signalling Link is extended from the Access Point to a KPN Telecom Signalling Transfer Point. Telco is responsible for extending each 64kbit/s Signalling Link from the Telco Point of Presence to a Telco Signalling Transfer Point.

1.4.6 KPN Telecom will not provide Telco with access to the KPN Telecom management systems.

1.5 Tariffs

1.5.1 The charges payable by Telco to KPN Telecom for the KPN Telecom 2048 kbit/s End of Span Network Interconnection Service are:

i. in addition to any other charges payable in respect of other Services detailed in this Agreement; and

OPTA: zie Concept-besluit hoofdstuk 3 onder Definities. Het college is van oordeel dat ten onrechte wordt gesproken van 'this Agreement'. De omschrijving van de (interconnectie) diensten vormt onderdeel van de RIA, welke RIA niet als overeenkomst kan worden gekwalificeerd, maar als eenzijdig onherroepelijk aanbod.

ii. the sum of the non recurring charges and monthly recurring charges in accordance with the paragraphs below.

1.5.2 The charge payable by Telco to KPN Telecom for a KPN Telecom port which is associated to a KPN Telecom 2048 kbit/s Network Interconnect Link ordered by Telco will be the sum of the monthly recurring charge are specified in table A of Tariff Schedule.

1.5.3 The charge payable by KPN Telecom to Telco for a Telco port which is associated to a KPN Telecom 2048 kbit/s Network Interconnect Link ordered by KPN Telecom will be the sum of the monthly recurring charge are specified in table A of Tariff Schedule.

OPTA: zie Concept-besluit hoofdstuk 3 onder Verhouding tussen de RIA en het aanbod van marktpartijen. De verplichtingen van de Telco maken geen onderdeel uit van de RIA.

1.5.4 The party obliged to pay a Port Charge for a KPN Telecom 2048 kbit/s Network Interconnect Link shall be obliged to reimburse the other party for the reasonable costs incurred for premature termination of a KPN Telecom 2048 kbit/s Network Interconnect Link.

1.5.5 For the first year, the proportion payable by Telco to KPN Telecom for the KPN Telecom 2048 kbit/s End of Span Network Interconnection Service, which excludes Port Charges, is calculated in accordance with the ratio of Telco forecasted 2048 kbit/s Network Interconnection Links to the total amount of KPN Telecom and Telco forecasted 2048 kbit/s Network Interconnection Links within each KPN Telecom 2048 kbit/s End Of Span Network Interconnection Service over that year.

1.5.6 For the second year and all subsequent years, the proportion payable by Telco to KPN Telecom for the KPN Telecom 2048 kbit/s End of Span Network Interconnection Service, which excludes Port Charges, is calculated in accordance with the ratio of Telco ordered 2048 kbit/s Network Interconnection Links to the total amount of KPN Telecom and Telco ordered 2048 kbit/s Network Interconnection Links within each KPN Telecom 2048 kbit/s End of Span Network Interconnection Service over that year.

1.5.7 Non-recurring charges will include installation, testing and, where ordered, reconfiguration.

1.5.8 The tariff table for charges payable by Telco to KPN Telecom for the KPN Telecom 2048 kbit/s End of Span Network Interconnection Service are specified in table A of Tariff Schedule.

2. Telco 2048 kbit/s End of Span Network Interconnection Service

OPTA: zie Concept-besluit hoofdstuk 3 onder Verhouding tussen de RIA en het aanbod van marktpartijen. De verplichtingen van de Telco maken geen onderdeel uit van de RIA.

2.1 Service description

2.1.1 *The Telco 2048 kbit/s End of Span Network Interconnection Service:*

- i. will be provided by Telco to KPN Telecom, in accordance with the terms and conditions of this Agreement;*
- ii. will provide a 2048 kbit/s transmission service between an Access Point Circuit Terminating Unit and a Point of Presence Circuit Terminating Unit provided within a Telco 34, 140 or 155 Mbit/s Carrier System for Services contained within the Service Schedule.*

2.1.2 *The following standards and operational procedures shall apply to the Telco 2048 kbit/s End of Span Network Interconnection Service:*

- i. the technical standards for the Telco 2048 kbit/s End of Span Network Interconnection Service as described in the Technical Manual and Parameter Schedule;*
- ii. operational procedures (forecasting, ordering, network management and operations, fault management, site access) described in the Operational and Maintenance Manual and Parameter Schedule;*
- iii. the procedures for billing and payment for services provided as described in the Billing Manual and Parameter Schedule.*

2.2 Responsibilities

2.2.1 *Telco will be responsible for:*

- i forecasting and ordering the Telco use, if any, of the Telco 2048 kbit/s Network Interconnect Links within the Telco 2048 kbit/s End of Span Network Interconnection Service in accordance with the Operational and Maintenance Manual and Parameter Schedule;*
- ii planning, providing, operating and maintaining the Telco 2048 kbit/s End of Span Network Interconnection Service;*
- iii ordering, if required, of a new Carrier System where the Telco forecast for Telco 2048 kbit/s Network Interconnect Links is greater than Telco's forecast for Telco 2048 kbit/s Network Interconnect Links between an Access Point and Point of Presence;*
- iv billing necessary to charge KPN Telecom for the Telco 2048 kbit/s End of Span Network Interconnection Service in accordance with the Billing Manual and Parameter Schedule;*
- v. charging KPN Telecom for any costs which have not been recovered as a result of shortfall of a forecast provided by KPN Telecom and for which the shortfall differs by more than the deviation set out in the Operational and Maintenance Manual and Parameter Schedule;*
- vi managing and providing management information about the Telco 2048 kbit/s End of Span Network Interconnection Service from the Telco Point of Presence to the corresponding KPN Telecom Access Point in accordance with the Operational and Maintenance Manual and Parameter Schedule;*
- vii connection of the cable from the Point of Presence Circuit Terminating Equipment to the switch port on Telco's Switching facilities.*

2.2.2 *KPN Telecom will be responsible for:*

- i forecasting and ordering the KPN Telecom use of the Telco 2048 kbit/s Network Interconnect Links within the Telco 2048 kbit/s End of Span Network Interconnection Service in accordance with the Operational and Maintenance Manual and Parameter Schedule;*
- ii ordering, if required, of a new Carrier System where the Telco forecast for Telco 2048 kbit/s Network Interconnect Links is less than Telco's forecast for Telco 2048 kbit/s Network Interconnect Links between an Access Point and Point of Presence;*
- iii contacting the Telco Helpdesk to report faults in accordance with the Operational and Maintenance Manual and Parameter Schedule;*
- iv connection of the cable from the Access Point Circuit Termination Unit to the switch port on KPN Telecom's Switching facilities;*
- v ensuring all equipment connected to the Access Point Circuit Termination Unit meets the safety standards and other equipment approval requirements set out in the Technical Manual and Parameter Schedule;*

vi providing an environment in which the Point of Presence Circuit Termination Unit can be installed and operated which meets the requirements set out in the Technical Manual at Telco's own expense.

OPTA: zie Concept-besluit hoofdstuk 4 onder Procedures voor het prognosticeren, bestellen en leveren van diensten.

2.3 Quality of service

2.3.1 Telco will provide the Telco 2048 kbit/s End of Span Network Interconnection Service 24 hours/day, every day, to the service quality level set out in the Technical Manual and Parameter Schedule.

2.3.2 Quality levels for the Telco facilities specifically used to provide the Telco 2048 kbit/s End of Span Network Interconnection Service will be measured and reported by Telco in accordance with the Operational and Maintenance Manual and Parameter Schedule. Telco and KPN Telecom will periodically review the achieved quality parameters in accordance with the Operational and Maintenance Manual and Parameter Schedule.

2.3.3 The target Clearance Time over a twelve month period for faults as specified in the Operations and Maintenance Manual and Parameter Schedule which affect the Telco 2048 kbit/s End of Span Network Interconnection Service is set out in table F of Parameter Schedule. Faults and setting of priorities will be handled in accordance with table F of Parameter Schedule.

2.4 Configuration

2.4.1 The Telco 2048 kbit/s End of Span Network Interconnection Service:

- i. will be available from a Telco Point of Presence to exactly one corresponding KPN Telecom Access Point;*
- ii. may be provided using a Telco Carrier System capable of supporting more than one Telco 2048 kbit/s Network Interconnect Links all between one Access Point Circuit Terminating Unit and one corresponding Point of Presence Circuit Terminating Unit.*

2.4.2 The single Telco 2048 kbit/s End of Span Network Interconnection Service is comprised of:

- i. necessary Telco Point of Presence Circuit Terminating Equipment;*
- ii. one or more Telco 2048 kbit/s Network Interconnect Links;*
- iii. part of a Telco 34, 140 or 155 Mbit/s Carrier System;*
- iv. zero, one or more Telco 2048 kbit/s 64 kbit/s Network Signalling links subject to there being a minimum of two such links in total in place between the KPN Telecom and Telco networks; and,*
- v. one Access Point Circuit Termination Unit.*

2.4.3 A 34 Mbit/s Carrier System is capable of supporting sixteen 2048 kbit/s Network Interconnect Links, a 140 Mbit/s Carrier System is capable of supporting sixty four 2048 kbit/s Network Interconnect Links and a 155 Mbit/s Carrier System is capable of supporting sixty three 2048 kbit/s Network Interconnect Links.

2.4.4 The Carrier System consists of a main transmission circuit and a standby transmission circuit. The main transmission circuit will be geographically separated from the standby transmission circuit in accordance with the specification for diversity set out in the Technical Manual. Automatic switching to the standby transmission circuit will occur under fault conditions and will be provided by Telco. Resilience is only provided against failure of the main transmission circuit.

2.4.5 A single 2048 kbit/s Network Interconnection Service comprises: the Point of Presence Circuit Terminating Unit; one 2048 Kbit/s Network Interconnect Link; and the Access Point Circuit Terminating Unit. Telco is responsible for providing all the components other than for completing the Network Interconnection from the Access Point Circuit Terminating Unit to KPN Telecom's switching facilities, which shall be provided by KPN Telecom. Where a 2048 Kbit/s Network Interconnect Link includes one or more optional 64 Kbit/s Signalling Links, each 64 Kbit/s Signalling Link is extended from the Point of Presence to a Telco Signalling Transfer Point. KPN Telecom is responsible for extending each 64kbit/s Signalling Link from the KPN Telecom Access Point to a KPN Telecom Signalling Transfer Point.

2.4.6 Telco will not provide KPN Telecom with access to the Telco management systems.

2.5 Tariffs

2.5.1 The charges payable by KPN Telecom to Telco for the Telco 2048 kbit/s End of Span Network Interconnection Service are:

i. in addition to any other charges payable in respect of other Services detailed in this Agreement; and

ii. the sum of the non recurring charges and monthly recurring charges in accordance with the paragraphs below.

2.5.2 The charge payable by KPN Telecom to Telco for a Telco port which is associated to a Telco 2048 kbit/s Network Interconnect Link ordered by KPN Telecom will be the sum of the monthly recurring charge are specified in table B of Tariff Schedule.

2.5.3 The charge payable by Telco to KPN Telecom for a KPN Telecom port which is associated to a Telco 2048 kbit/s Network Interconnect Link ordered by Telco will be the sum of the monthly recurring charge are specified in table B of Tariff Schedule.

2.5.4 The party obliged to pay a Port Charge for the corresponding Telco 2048 kbit/s Network Interconnect Link shall be obliged to reimburse the other party for the reasonable costs incurred for premature termination of a Telco 2048 kbit/s Network Interconnect Link.

2.5.5 For the first year, the proportion payable by KPN Telecom to Telco for the Telco 2048 kbit/s End of Span Network Interconnection Service, which excludes Port Charges, is calculated in accordance with the ratio of KPN Telecom forecasted 2048 kbit/s Network Interconnection Links to the total amount of Telco and KPN Telecom forecasted 2048 kbit/s Network Interconnection Links within each Telco 2048 kbit/s End Of Span Network Interconnection Service over that year.

2.5.6 For the second year and all subsequent years, the proportion payable by KPN Telecom to Telco for the Telco 2048 kbit/s End of Span Network Interconnection Service, which excludes Port Charges, is calculated in accordance with the ratio of KPN Telecom ordered 2048 kbit/s Network Interconnection Links to the total amount of Telco and KPN Telecom ordered 2048 kbit/s Network Interconnection Links within each Telco 2048 kbit/s End of Span Network Interconnection Service over that year.

2.5.7 Non-recurring charges will include installation, testing and, where ordered, reconfiguration.

2.5.8 The tariff table for charges payable by KPN Telecom to Telco for the Telco 2048 kbit/s End of Span Network Interconnection Service are specified in table B of Tariff Schedule.

3. KPN Telecom 2048 kbit/s In Span Network Interconnection Service

3.1 Service description

3.1.1 The KPN Telecom 2048 kbit/s In Span Network Interconnection Service to be defined

OPTA: zie de opmerkingen van het college bij bepaling één van de KPN Telecom 2048 kbit/s End of Span Interconnection Dienst. Deze dienst is wegens het ontbreken van een Service Description niet beoordeeld. De opmerkingen van het college gemaakt bij deze bepaling zijn in principe eveneens op deze dienst van toepassing. KPN dient een dienstbeschrijving hiervan in de RIA op te nemen.

4. KPN Telecom PSTN Terminating Access Service

4.1 Service description

OPTA: zie Concept-besluit hoofdstuk 4 onder KPN Telecom PSTN Terminating Access Service en onder Aanvullende diensten.

4.1.1 The KPN Telecom PSTN Terminating Access Service:

i. will be provided by KPN Telecom to Telco, in accordance with the terms and conditions of this Agreement;

OPTA: zie Concept-besluit hoofdstuk 3 onder Definities. Het college is van oordeel dat ten onrechte wordt gesproken van 'the terms and conditions of this Agreement'. De omschrijving van de (interconnectie) diensten vormt onderdeel van de RIA, welke RIA niet als overeenkomst kan worden gekwalificeerd, maar als eenzijdig onherroepelijk aanbod.

ii. will provide conveyance of Telco Subscriber Calls from a KPN Telecom Access Point to KPN Telecom Subscriber Connections, via the KPN Telecom PSTN in accordance with the dimensioning rules specified in the Technical Manual and Parameter Schedule.

iii. can only be provided in conjunction with the KPN Telecom 2048 kbit/s End of Span Network Interconnection Service, the KPN Telecom 2048 kbit/s In Span

Network Interconnection Service or the Telco 2048 kbit/s End of Span Network Interconnection Service.

OPTA: zie Concept-besluit hoofdstuk 4 onder Delen van carrier systemen.

4.1.2 The following standards and operational procedures shall apply to the KPN Telecom PSTN Terminating Access Service:

- i. the technical standards for voice telephony and signalling described in the Technical Manual and Parameter Schedule;*
- ii. operational procedures described in the Operations and Maintenance Manual and Parameter Schedule;*
- iii. the procedures for billing and payment for services provided as described in the Billing Manual and Parameter Schedule.*

4.2 Responsibilities

4.2.1 KPN Telecom will be responsible for:

- i. metering and billing necessary to charge Telco for all Calls passed by Telco to the KPN Telecom PSTN using the KPN Telecom PSTN Terminating Access Service in accordance with the Billing Manual and Parameter Schedule;*
- ii. charging Telco for any costs which have not been recovered as a result of shortfall of a forecast provided by more than the deviation set out in the Operations and Maintenance Manual and Parameter Schedule and Service Quality;*

OPTA : zie Concept-besluit hoofdstuk 4 onder Procedures voor het prognosticeren, bestellen en leveren van diensten.

- iii. logging and charging Telco for Calls that are not part of the KPN Telecom Numbering Range;*
- iv. managing and providing management information about the KPN Telecom PSTN Terminating Access Service from the KPN Telecom Access Point to the KPN Telecom Subscriber Connection in accordance with the Operations and Maintenance Manual and Parameter Schedule.*

4.2.2 Telco will be responsible for:

- i. forecasting the KPN Telecom PSTN Terminating Access Service in accordance with the Operations and Maintenance Manual and Parameter Schedule;*
- ii. validating the called number according to the National Numbering Plan, since KPN Telecom will be under no obligation to convey Calls that are not part of the KPN Telecom Numbering Range;*
- iii. contacting the KPN Telecom Helpdesk to report faults in accordance with the Operations and Maintenance Manual and Parameter Schedule;*
- iv. management of any End-to-end services provided by Telco to Telco Subscribers which use the KPN Telecom PSTN Terminating Access Service.*

OPTA: zie Concept-besluit hoofdstuk 3 onder Verhouding tussen de RIA en het aanbod van marktpartijen. De verplichtingen van de Telco maken geen onderdeel uit van de RIA.

4.3 Quality of service

4.3.1 KPN Telecom will provide the KPN Telecom PSTN Terminating Access Service 24 hours/day, every day, to a service quality level set out in the Technical Manual and Parameter Schedule and which is the same as generally applicable to the KPN Telecom PSTN service offered by KPN Telecom to its Subscribers.

4.3.2 Quality levels for any KPN Telecom facilities specifically used to provide the KPN Telecom PSTN Terminating Access Service will be measured and reported by KPN Telecom in accordance with the Operations and Maintenance Manual and Parameter Schedule. KPN Telecom and Telco will periodically review the achieved quality parameters in accordance with the Operations and Maintenance Manual and Parameter Schedule.

4.3.3 The target Clearance Time over a twelve month period for faults as specified in the Operations and Maintenance Manual and Parameter Schedule which affect the KPN Telecom PSTN Terminating Access Service and occur within the KPN Telecom PSTN is set out in table F of Parameter Schedule. Faults and setting of priorities will be handled in accordance with table F of Parameter Schedule.

OPTA: zie Concept-besluit hoofdstuk 4 onder Informatieverstrekking KPN Telecom PSTN Terminating Service.

4.4 Configuration

4.4.1 The KPN Telecom PSTN Terminating Access Service will be available at the KPN Telecom Access Points specified in table F of Parameter Schedule.

OPTA: zie Concept-besluit hoofdstuk 4 onder Niveau's van aansluiting op netwerk KPN Telecom.

4.4.2 Telco will:

- i. deliver traffic in a uni-directional trunk group at each Access Point where the KPN Telecom PSTN Terminating Access Service is offered and required;*
- ii. route Calls to KPN Telecom in accordance with the routing scheme and principles described in the Technical Manual and Parameter Schedule.*

OPTA: zie Concept-besluit hoofdstuk 4 onder Uni- en bidirectionele trunk groepen.

4.4.3 KPN Telecom will manage and provide service specific management information about the KPN Telecom PSTN Terminating Access Service from the KPN Telecom Access Point to the KPN Telecom Subscriber Connection in accordance with the Operations and Maintenance Manual and Parameter Schedule.

4.4.4 The national rate tariff as defined in the Tariff Schedule will apply to Answered Calls where:

- i. Telco routes calls to an Access Point in an Access Area other than the Access Area where the KPN Telecom Subscriber Connection is located; and*
- ii. KPN Telecom has an Access Point in the Access Area where the KPN Telecom Subscriber Connection is located; and*
- iii. The Access Point in the Access Area where the KPN Telecom Subscriber Connection is located is both operational and not congested.*

4.4.5 The regional rate tariff as defined in the Tariff Schedule will apply to Answered Calls where:

- i Telco routes the call to an Access Point in an Access Area where the KPN Telecom Subscriber Connection is located;*
- ii Telco re-routes the call to an Access Point in an Access Area where the KPN Telecom Subscriber Connection is not located, due to operational problems at the Access Point in the Access Area where the KPN Subscriber Connection is located.*

OPTA: zie Concept-besluit hoofdstuk 4 onder Facturering en betaling.

4.4.6 KPN Telecom will not provide Telco with access to the KPN Telecom management systems.

4.5 Tariffs

4.5.1 The charges payable by Telco to KPN Telecom for the KPN Telecom PSTN Terminating Access Service are:

- i. in addition to any other charges payable in respect of other Services detailed in this Agreement;*
- ii. the sum of the non recurring charges and monthly recurring charges in accordance with the paragraphs below.*

4.5.2 Non-recurring charges will include data loading, installation and testing.

4.5.3 Monthly recurring charges will comprise:

- i. Call Charges including Call Set-up and Call Duration dependent on Distance (geographic area) and Time of Day;*
- ii. Supplementary charges for Calls, which do not comply with the National Numbering Plan.*

4.5.4 The tariff table for charges payable by Telco to KPN Telecom for the KPN Telecom PSTN Terminating Access Service are specified in table F of Tariff Schedule.

OPTA: zie Concept-besluit hoofdstuk 4 onder Facturering en betaling.

5. Telco PSTN Terminating Access Service

OPTA: zie Concept-besluit hoofdstuk 3 onder Verhouding tussen de RIA en het aanbod van marktpartijen. De verplichtingen van de Telco maken geen onderdeel uit van de RIA. Hoewel de dienstverlening van Telco naar het oordeel van het college niet tot het RIA behoort, merkt het college op dat Telco netwerken zich niet beperken tot PSTN netwerken maar dat ook PLMN en ISDN netwerken behoren tot de netwerken waarop KPN gesprekken kan termineren.

5.1 Service description

5.1.1 The Telco PSTN Terminating Access Service:

- i. will be provided by Telco to KPN Telecom, in accordance with the terms and conditions of this Agreement;*
- ii. will provide conveyance of KPN Telecom Subscriber Calls from a Telco Point of Presence to Telco Subscriber Connections, via the Telco PSTN in accordance with the dimensioning rules specified in the Technical Manual and Parameter Schedule.*
- iii. can only be provided in conjunction with the Telco 2048 kbit/s End of Span Network Interconnection Service, the KPN Telecom 2048 kbit/s In Span Network Interconnection Service or the KPN Telecom 2048 kbit/s End of Span Network Interconnection Service.*

5.1.2 The following standards and operational procedures shall apply to the Telco PSTN Terminating Access Service:

- i. the technical standards for voice telephony and signalling described in the Technical Manual and Parameter Schedule;*
- ii. operational procedures described in the Operations and Maintenance Manual and Parameter Schedule;*
- iii. the procedures for billing and payment for services provided as described in the Billing Manual and Parameter Schedule.*

5.2 Responsibilities

5.2.1 Telco will be responsible for:

- i. metering and billing necessary to charge KPN Telecom for all Calls passed by KPN Telecom to the Telco PSTN using the Telco PSTN Terminating Access Service in accordance with the Billing Manual and Parameter Schedule;*
- ii. charging KPN Telecom for any costs which have not been recovered as a result of shortfall of a forecast provided by KPN Telecom by more than the deviation set out in the Operations and Maintenance Manual and Parameter Schedule and Service Quality;*
- iii. logging and charging KPN Telecom for Calls that are not part of the Telco Numbering Range;*
- iv. managing and providing management information about the Telco PSTN Terminating Access Service from the Telco Point of Presence to the Telco Subscriber Connection in accordance with the Operations and Maintenance Manual and Parameter Schedule.*

5.2.2 KPN Telecom will be responsible for:

- i. forecasting the Telco PSTN Terminating Access Service in accordance with the Operations and Maintenance Manual and Parameter Schedule;*
- Paragraaf 5.2.2.i*
- ii. validating the called number according to the National Numbering Plan, since Telco will be under no obligation to convey Calls that are not part of the Telco Numbering Range;*
 - iii. contacting the Telco Helpdesk to report faults in accordance with the Operations and Maintenance Manual and Parameter Schedule.;*
 - iv. management of any End-to-end services provided by KPN Telecom to KPN Telecom Subscribers which use the Telco PSTN Terminating Access Service.*

OPTA: zie Concept-besluit hoofdstuk 4 onder Procedures voor het prognosticeren, bestellen en leveren van diensten.

5.3 Quality of service

5.3.1 Telco will provide the Telco PSTN Terminating Access Service 24 hours/day, every day, to a service quality level set out in the Technical Manual and Parameter Schedule and which is the same as generally applicable to the Telco PSTN service offered by Telco to its Subscribers.

5.3.2 Quality levels for any Telco facilities specifically used to provide the Telco PSTN

Terminating Access Service will be measured and reported by Telco in accordance with the Operations and Maintenance Manual and Parameter Schedule. Telco and KPN Telecom will periodically review the achieved quality parameters in accordance with the Operations and Maintenance Manual and Parameter Schedule.

5.3.3 The target Clearance Time over a twelve month period for faults as specified in the Operations and Maintenance Manual and Parameter Schedule which affect the Telco PSTN Terminating Access Service and occur within the Telco PSTN is set out in table F of Parameter Schedule. Faults and setting of priorities will be handled in accordance with table F of Parameter Schedule.

5.4 Configuration

5.4.1 The Telco PSTN Terminating Access Service will be available at the Telco Points of Presence specified in table F of Parameter Schedule.

5.4.2 KPN Telecom will:

- i. deliver traffic in a uni-directional trunk group at each Point of Presence where the Telco PSTN Terminating Access Service is offered and required;*
- ii. route Calls to Telco in accordance with the routing scheme and principles described in the Technical Manual and Parameter Schedule.*

OPTA: zie Concept-besluit hoofdstuk 4 onder Uni- en bidirectionele trunk groepen en onder Netwerk verkeersmanagement.

5.4.3 Telco will manage and provide service specific management information about the Telco PSTN Terminating Access Service from the Telco Point of Presence to the Telco Subscriber Connection in accordance with the Operations and Maintenance Manual and Parameter Schedule.

5.4.4 The national rate tariff as defined in the Tariff Schedule will apply to Answered Calls where:

- i. KPN Telecom routes calls to a Point of Presence in an Access Area other than the Access Area where the Telco Subscriber Connection is located; and*
- ii. Telco has a Point of Presence in the Access Area where the Telco Subscriber Connection is located; and*
- iii. The Point of Presence in the Access Area where the Telco Subscriber Connection is located is both operational and not congested.*

5.4.5 Regional rate tariff as defined in the Tariff Schedule will apply to Answered Calls where:

- i KPN Telecom routes the call to a Point of Presence in an Access Area where the Telco Subscriber Connection is located;*
- ii KPN Telecom re-routes the call to an Access Point in an Access Area where the Telco Subscriber Connection is not located, due to operational problems at the Point of Presence in the Access Area where the Telco Subscriber Connection is located.*

5.4.6 In the case where KPN Telecom routes a call to an Access Point in an Access Area where Telco has a Subscriber Connection but no Point of Presence, KPN Telecom shall provide to Telco a supplementary KPN Telecom PSTN Inter Region Service. The KPN Telecom PSTN Inter Region Service will convey traffic destined for Telco's Subscriber Connection from the Access Area where the Telco has a Subscriber Connection but no Point of Presence to the Access Area where Telco has a Point of Presence.

OPTA: zie Concept-besluit hoofdstuk 4 onder Sleepdiensten.

5.4.7 Telco will not provide KPN Telecom with access to the Telco management systems.

5.5 Tariffs

5.5.1 The charges payable by KPN Telecom to Telco for the Telco PSTN Terminating Access Service are:

- i. Equal to the tariffs by Telco to KPN Telecom for the KPN Telecom PSTN Terminating Access Service;*

OPTA: zie Concept-besluit hoofdstuk 3 onder Verhouding tussen de RIA en het aanbod van marktpartijen.

ii. in addition to any other charges payable in respect of other Services detailed in this Agreement;

iii. the sum of the non recurring charges and monthly recurring charges in accordance with the paragraphs below.

5.5.2 Non-recurring charges will include data loading, installation and testing.

5.5.3 Monthly recurring charges will comprise:

i. Call Charges including Call Set-up and Call Duration dependent on Distance (Geographic area) and Time of Day;

ii. Supplementary charges for Calls, which do not comply with the National Numbering Plan.

5.5.4 The tariff table for charges payable by KPN Telecom to Telco for the Telco PSTN Terminating Access Service are specified in table F of Tariff Schedule.