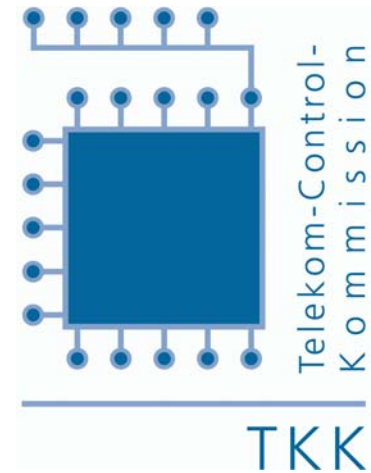


Telekom-Control Commission

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**Tender Documentation for Frequency Allocations
in the 26 GHz Frequency Range**

NON-BINDING TRANSLATION

Table of Contents

1	INTRODUCTION	4
1.1	GENERAL CONDITIONS UNDER AUSTRIAN LAW	4
1.2	FREQUENCY ALLOCATION PROCEDURE	4
1.3	ALLOCATION PROCEDURE SCHEDULE	5
2	FREQUENCY ALLOCATION PROCEDURE	6
2.1	STEPS IN THE PROCEDURE	6
2.2	OBJECTS OF THE AUCTION	6
2.3	APPLICATIONS	8
2.4	BANK GUARANTEE	9
2.5	OPENING BIDS IN THE AUCTION	9
2.6	TERMS OF PARTICIPATION	10
2.7	AUCTION PROCEDURE	11
2.8	FREQUENCY ALLOCATION	12
3	FREQUENCY SPECTRUM	13
3.1	FREQUENCY SPECTRUM ALLOCATED	13
3.2	PURPOSE OF USE	15
3.3	BASIC TECHNICAL CHARACTERISTICS OF RADIO SYSTEMS USED (INCLUDING ANTENNAS)	15
3.4	CARRIER POWER, RADIATED POWER	15
3.5	SPECIAL TECHNICAL CONDITIONS FOR THE USE OF POINT-TO-MULTIPOINT RADIO SYSTEMS	15
3.6	SPECIAL TECHNICAL CONDITIONS FOR THE USE OF POINT-TO-POINT RADIO SYSTEMS	18
3.7	ADDITIONAL BUFFER DISTANCES BETWEEN FREQUENCY PACKETS	19
3.8	DURATION OF USE	19
3.9	TRANSFER OF FREQUENCIES	19
4	COVERAGE REQUIREMENTS	20
4.1	MINIMUM USAGE	20
4.2	GUARANTEE IN CASE OF NON-FULFILLMENT OF COVERAGE REQUIREMENTS	21
4.3	SUPERVISORY RIGHTS	22
5	APPLICATION DOCUMENTS	23
5.1	ORGANIZATIONAL STRUCTURE	23
5.2	TECHNICAL CAPABILITIES, QUALITY OF SERVICES AND COVERAGE REQUIREMENTS	25
5.3	FINANCIAL STRENGTH	26
5.4	DECLARATION OF COMPLETENESS	27
6	PRACTICAL INFORMATION	28
6.1	RIGHTS TO APPLICATION DOCUMENTS	28
6.2	APPLICATIONS FOR FREQUENCY ALLOCATION	28
6.3	AUTHORIZED RECIPIENT	29
6.4	CLARIFICATIONS	29
6.5	INQUIRIES AND CONSULTANTS	29
6.6	INSPECTION OF RECORDS	29
6.7	REVIEW AND INFORMATION OBLIGATIONS	30
6.8	PUBLICATION	30
6.9	ANNULMENT OF THE INVITATION TO TENDER, DISCONTINUATION OF THE PROCEDURE	30
7	FEES	31
7.1	FREQUENCY LICENSE FEE	31
7.2	SPECTRUM FEES	31
7.3	CONSULTANCY COSTS	31

Annexes

Annex A: Index of Districts and Municipalities in Allocation Regions

Annex B: Radio Interface Descriptions FSB-RR013, FSB-RR033, FSB-RR034

Annex C: CEPT Recommendation T/R 13-02 E Channel arrangements for fixed services in the range 22.0-29.5 GHz

Annex D: Application Form

Annex E: Business Plan

Annex F: Declaration of Completeness

1 Introduction

The Telekom-Control Commission plans to carry out a procedure to allocate frequencies in the 26 GHz frequency range in accordance with Art. 55 of the Austrian Telecommunications Act of 2003 (TKG 2003). Six regions consisting of three or four frequency packets each will be allocated, with each frequency packet consisting of several duplex frequency channels.

1.1 General Conditions under Austrian Law

This invitation to tender is being carried out on the basis of the Austrian Telecommunications Act of 2003 (TKG 2003, Federal Law Gazette I No. 70/2003 as amended by Federal Law Gazette I No. 178/2004). In addition, Austrian regulations regarding procedure are also applicable, especially the General Administrative Procedures Act of 1991 (AVG; Federal Law Gazette No. 51 as amended by Federal Law Gazette I No. 10/2004).

The Telekom-Control Commission's responsibility for allocating frequencies under Art. 55 TKG 2003 is set forth in Art. 54 Par. 3 No. 2 in conjunction with Art. 117 No. 10 TKG 2003. Under Art. 54 Par. 3 No. 2, the regulatory authority is responsible for frequency allocation as well as changing and revoking allocations for those frequencies which are subject to a determination in the frequency usage plan under Art. 52 Par. 3.

This determination was made in the Ordinance of the Federal Minister of Transport, Innovation and Technology amending the Frequency Utilization Ordinance (Federal Law Gazette II No. 307/2005). The Telekom-Control Commission's responsibility is based on this determination.

The frequency allocation procedure carried out by the regulatory authority is governed by Art. 55 TKG 2003.

1.2 Frequency Allocation Procedure

Under Art. 55 Par. 1 TKG 2003, the regulatory authority is to allocate the frequencies placed under its authority to that applicant who fulfills the general prerequisites under Par. 2 No. 2 (Art. 55 Par. 2 No. 2 TKG 2003) and ensures the most efficient use of frequencies. This will be determined by the amount of the frequency license fee offered. The frequency allocation procedure is divided into two stages:

1. Once the applications have been submitted, the regulatory authority will review whether the prerequisites have been met in accordance with Art. 55 Par. 2 No. 2 TKG 2003 (cf. Sections 5.2., 5.3 and 5.4 of this document). In accordance with Art. 55 Par. 8 TKG 2003, those applicants who do not fulfill the prerequisites will be excluded from the frequency allocation procedure. With regard to the information required in the tender documentation for which the Telekom-Control Commission reserves the right to request additional information from the applicants if necessary (cf. Sections 5.1.1, 5.1.2 and 5.1.3 of this document), the Telekom-Control Commission will request the additional information as it sees necessary and indicate a deadline for submission. Any applications who fail to submit information requested in this way by the deadline will also be excluded from the frequency allocation procedure under Art. 55 Par. 8 TKG 2003.

2. The second part of the frequency allocation procedure will be carried out in the form of an auction.

1.3 Allocation Procedure Schedule

The table below contains the most important dates in the allocation procedure.

Activity	Date
Publication of invitation to tender	14.11.2006
Questions for the Telekom-Control Commission: Deadline for receipt of questions Questions to be answered by	01.12.2006 12.00 noon local time (CET) 19.12.2006
End of tender submission period	05.02.2007 12.00 noon local time (CET)
Decision on admission to auction	anticipated February 2007
Auction procedure	anticipated March 2007
Date of frequency allocations	Within 14 days of end of auction procedure

TABLE 1: ALLOCATION PROCEDURE SCHEDULE

2 Frequency Allocation Procedure

2.1 Steps in the Procedure

As mentioned in Section 1, the frequency allocation procedure is divided into two stages. In the first stage, the regulatory authority will check whether the applications fulfill the criteria stipulated in Art. 55 Par. 2 No. 2 TKG 2003 (in accordance with Art. 55 Par. 1 and Par. 2 No. 2 TKG 2003) and ascertain the applicants' competitive independence from one another. Those applicants who do not fulfill the prerequisites pursuant to Art. 55 Par. 2 No. 2 TKG 2003 or fail to deliver the data requested by the Telekom-Control Commission for the purpose of reviewing competitive independence in time will be excluded from the frequency allocation procedure pursuant to Art. 55 Par. 8 TKG 2003.

If applications for the same region are received from affiliated companies, the company that submitted its application for the given region first will be admitted to the frequency auction for that region. The other affiliated company will be excluded from the frequency allocation procedure.

2.2 Objects of the Auction

Six regions consisting of three or four frequency packets each will be allocated in the auction (cf. Section 3). The division of these regions is described in the next section.

2.2.1 Regions

The regions have been divided up according to the criteria of sociodemographics, geographical business considerations and technical demands. The regions are numbered 1 to 6. For the most part, the borders of the regions are identical to those of Austrian districts. Only in the case of Regions 1 and 2 were municipality borders used for the purpose of delineation. The figure below shows the division of regions. The specific delineation of regions is provided in Annex A.

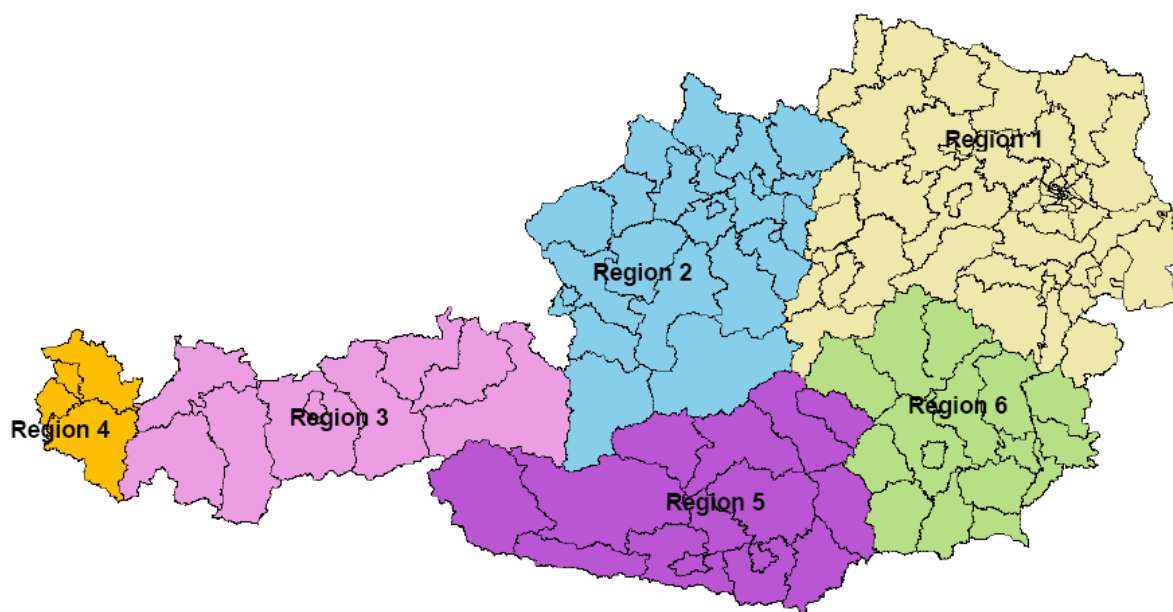


FIGURE 1: DIVISION OF REGIONS (SCHEMATIC DIAGRAM, FOR DETAILS SEE ANNEX A)

2.2.2 Frequency Packets

The frequencies will be auctioned off in the form of concrete frequency packets. Details on the various packets can be found in Section 3.

Table 2 provides an overview of these frequency packets.

Frequency packet *)	Bandwidth	Number of 28 MHz duplex channels
B	2x56 MHz	2
C	2x84 MHz	3
D	2x84 MHz	3
E (available in Regions 3, 4 and 5 only)	2x112 MHz	4

TABLE 2: OBJECTS OF THE AUCTION

*) For historical reasons, the frequency packets are labeled with the letters B, C, D and E; this sequence of packets is random (not based on increasing frequencies).

Table 3 provides a full list of the objects of the auction.

		Frequency packet			
		B	C	D	E
Region	1	B1	C1	D1	Not available
	2	B2	C2	D2	Not available
	3	B3	C3	D3	E3
	4	B4	C4	D4	E4
	5	B5	C5	D5	E5
	6	B6	C6	D6	Not available

TABLE 3: OBJECTS OF THE AUCTION (COMPLETE LIST)

Based on the terms of use indicated in Section 3.5.1 (Power Flux Density at Regional Borders within Austria), bidders interested in acquiring usage rights for the entire federal territory of Austria are advised to bid on a specific frequency packet (e.g., C1, C2, C3, C4, C5 and C6) and not on different packets in the various regions (e.g., C1, D2, B3, E4, C5, D6) for the sake of efficiency at regional borders.

Each frequency packet is assessed according to sociodemographic criteria.¹ In the course of this procedure, this assessment will be referred to as the *lot rating*. This assessment yields the following lot rating values for each frequency packet and region (see Table 4):

¹ The sociodemographic data used here is based on the data from the allocation procedure RFQZ 5/00. No

Region / lot rating	B	C	D	E
1	250	250	250	Not available
2	140	140	140	Not available
3	50	50	50	50
4	25	25	25	25
5	50	50	50	50
6	90	90	90	Not available

TABLE 4: LOT RATING PER FREQUENCY PACKET AND REGION

2.3 Applications

Using the application form (see Annex D), all applicants are to submit their applications with the following information:

- Selected regions for which the applicant would like to take part in the auction

Applicants are to select the regions in which they would like to acquire a frequency packet. The applicants can choose to submit applications for all regions. One exception is the case of affiliated companies. Should two affiliated companies submit an application for the same region, one of the companies will be excluded from the allocation procedure for that region (cf. Section 2.6.1). Only one frequency packet per region can be acquired by each applicant.

- Application for bidding entitlement points in the auction procedure

No concrete frequency packets can be named in the application. Instead, applicants are to request bidding entitlement points for the auction procedure (cf. Section 2.7). The bidding entitlement must be backed by a bank guarantee. The number of bidding entitlement points applied for is equal to the total lot ratings for the maximum number of frequency packets a bidder would like to acquire (cf. Table 4). The amount of the required bank guarantee can be calculated by multiplying the number of bidding entitlement points by **EUR 5,000.00**. A bidder can bid on any combination of frequency packets, provided that the total of all lot ratings for his/her bids does not exceed the number of bidding entitlement points requested. The bidding entitlement can be reduced in the course of the auction procedure on the basis of the bidder's actual activity in the auction (cf. Section 2.7). The maximum bidding entitlement points that can be applied for is **605** (i.e., an application for the largest frequency packet in each region). The following examples will shed more light on the issue of bidding entitlement:

Example 1: A bidder applies for 250 points and names all regions. This would enable the bidder to acquire one frequency packet in Region 1 only (and thus no other frequency packet in any other region) or to acquire frequency packets in several other regions up to a total lot rating of 250 points (e.g., Packet B in Regions 2, 3 and 4, amounting to a total of 215 lot rating points).

deviations relevant to the purpose of this procedure are expected in comparison to more current data.

Example 2: A bidder would like to acquire Frequency Packet C in all regions. The bidder names all regions in his application and applies for a bidding entitlement of 605 points.

Example 3: A bidder would like to acquire a frequency packet in one region but does not know which specific region at the time the application is submitted. The bidder names all regions in his application and applies for a bidding entitlement of 250 points (i.e., the lot rating of the region with the highest assessment).

2.4 Bank Guarantee

All applicants are to secure the requested bidding entitlement by means of an abstract bank guarantee, payable at first demand, from a bank in good credit standing. The amount of the required bank guarantee can be calculated by multiplying the number of bidding entitlement points by **EUR 5,000.00**. If the requested bidding entitlement is not completely backed by the bank guarantee, the bidding entitlement will be reduced to the number of points actually secured by the bank guarantee.

The bank guarantee's sole purpose provision must be the official allocation of frequencies to the applicant in the course of this tender procedure. The guarantee must name the Federal Government of the Republic of Austria as beneficiary and be valid from February 5, 2007 (at the latest) to at least August 1, 2007. An original of the bank guarantee is to be enclosed with the application.

Once the procedure has been completed, bank guarantees will be returned to those applicants to whom the requested frequency packets were not allocated. As for applicants who do acquire frequencies in this procedure, the bank guarantees will be returned once the frequency license fee has been paid in full.

2.5 Opening Bids in the Auction

The auction will begin with an opening bid (the minimum bid for the first round) set by the Telekom-Control Commission on the basis of the following legal regulations:

Under Art. 55 Par. 4 TKG 2003, the tender documentation can also include information on the minimum frequency license fee to be offered. This information is to be based on the amount of the frequency allocation fees which are likely to be charged for the frequencies allocated.

The Telecommunications Fees Ordinance (Federal Law Gazette II No. 29/1998 in its current version) stipulates that in the case of non-coordination the frequency allocation fee is to amount to EUR 98.11 per radio link for the allocation of a frequency/frequency pair, or per sector (radio field) for a point-to-multipoint radio system. Based on the expected number of links/sectors, the table below shows the opening bids per frequency packet and region in EUR.

Region / opening bid in EUR	B	C	D	E
1	122,000	181,000	181,000	Not available
2	68,000	102,000	102,000	Not available
3	24,000	36,000	36,000	49,000
4	12,000	18,000	18,000	24,000

5	24,000	36,000	36,000	49,000
6	44,000	66,000	66,000	Not available

TABLE 5: OPENING BID PER FREQUENCY PACKET AND REGION

2.6 Terms of Participation

The applicant must be a physical person or legal entity who/which is fully capable of entering into legally binding contracts as specified in Art. 9 of the Austrian General Administrative Procedures Act (AVG). Applicants must have their main place of residence (for legal entities: place of incorporation) in a country belonging to the European Economic Area.

2.6.1 *Affiliated Companies*

In this invitation to tender, only one application to participate in the frequency auction will be accepted from multiple companies which are affiliated with one another (directly or indirectly) in the form described under Art. 7 of the Austrian Cartel Act (KartG) 2005. The same applies when applicants are affiliated with each other in another way which could lead to one applicant directly or indirectly exerting an influence over another applicant in a manner which has a substantial effect on competition (e.g., by way of syndicate agreements, voting rights, personal identity of management, etc.). For information on the need to identify the actual possibilities of competitive influence also in the case of applicants affiliated with one another through multiple channels ("ultimate owner" principle), please refer to Section 5.1. of this document.

In its assessment, the regulatory authority will also take into consideration whether the applicants are currently in the process of a demerger. In such cases, previous decisions made by competition authorities (at both the national and EU levels) are to be taken into special consideration (e.g., restrictions imposed in permits regarding the execution of a demerger, etc.).

Should two or more companies which are affiliated in the manner described above apply for frequencies, the applicant who submitted the application first will be admitted to the frequency auction.

2.6.2 *Changes in Ownership Structure*

Throughout this procedure, changes in the person submitting an application, or any and all substantial – direct or indirect – changes in the stakes held in a company submitting an application require the permission of the regulatory authority. Permission will be granted in cases where the company's full competitive independence is maintained even after the changes are effected. In all cases, a change in ownership (exceeding the percentage limits set forth in Art. 91ff. BörseG) or the initial acquisition of a significant stake as defined in Art. 91ff. BörseG, with the exception of purely financial stakes, will be considered a substantial change.

The previous paragraph does not apply to changes in ownership structure ordered by authorities for monopoly/cartel affairs or required by the proceedings of such authorities. All applicants are required to inform the Telekom-Control Commission of any proceedings of authorities for monopoly/cartel affairs (both pending and to be expected) pertaining to their ownership structure and to include in their applications any and all decisions made in this regard. All changes in ownership structure carried out in order to fulfill such obligations are to be reported to the Telekom-Control Commission immediately, even after submission of the application.

Art. 56 Par. 2 TKG 2003 shall apply with regard to changes in the ownership structure of companies which are allocated frequency usage rights in a procedure under Art. 55 TKG 2003.

2.7 Auction Procedure

The auction will be carried out in an open, ascending, simultaneous, multiple-round format. In accordance with Art. 55 Par. 9 TKG 2003 (last sentence), the detailed rules governing the auction procedure will be delivered to the applicants participating in the auction at least two weeks before the start of the auction. The Telekom-Control Commission plans to publish a draft of the auction rules on the web site of the Austrian Regulatory Authority for Broadcasting and Telecommunications (www.rtr.at) and to deliver the Rules of Procedure to the applicants as soon as possible after the application deadline.

2.7.1 Admission to the Auction

Applicants will be admitted to the auction if they are not excluded from the frequency allocation procedure under Art. 55 Par. 8 TKG nor from participating in the frequency auction by official decision in the case of affiliated companies applying for frequency packets in the same region.

2.7.2 Auction Procedure: General Information

In the course of this simultaneous, multiple-round procedure, all of the frequency packets will be auctioned off at the same time. Bidders are generally free to choose which frequency packets they actively bid on within the limits set forth in the Rules of Activity and within the scope of their bidding entitlement. A bidder shall be considered to be bidding actively on a frequency packet when s/he holds the standing high bid from the previous round or submits a valid bid (i.e., a bid which exceeds the standing high bid by the minimum bid increment) in the current round for that packet.

The bidding entitlement determines the maximum number of frequency packets on which a bidder can actively bid in one round. Bidders are allowed to bid actively on any combination of frequency packets (in different regions) as long as the total of all of the packets' lot ratings does not exceed the bidder's current number of bidding entitlement points. For each bidder, the bidding entitlement points for the first round of the auction procedure will be determined by the information in that bidder's application. In the ensuing rounds, bidding entitlements will be determined on the basis of each bidder's activity in the previous round. Bidders who fall below a defined minimum activity level will lose part of their bidding entitlement.

The auction procedure will be divided into several phases, each with varying minimum activity provisions. The auction procedure will come to an end when no valid bid is submitted for any of the frequency packets in a given round of the last phase of the auction. If no valid bids are submitted in an earlier phase of the auction, the auctioneer shall be obliged to continue the procedure by moving on to the next phase, or to end the procedure immediately. After a certain number of rounds (as defined in the Rules of Procedure), the auctioneer furthermore reserves the right to announce that the auction will end after three final rounds. The frequency packets will then be allocated to the high bidders according to their respective standing high bids.

2.8 Frequency Allocation

Frequencies will be allocated by the Telekom-Control Commission at the latest within 14 days after the end of the auction procedure.

3 Frequency Spectrum

3.1 Frequency Spectrum Allocated

In the course of the frequency allocation procedure, frequency channels in the 26 GHz frequency range which have been assigned to the regulatory authority by the Austrian Federal Minister of Science and Transport in accordance with Art. 51 Par. 3 TKG 2003 will be allocated to the applicants.

3.1.1 Frequency Spectrum

24.549 - 25.053 GHz (Lower Band) / 25.557 -26.061 GHz (Upper Band), thus 2 * 504 MHz, i.e., the duplex frequency blocks No. 1 - 18 with 28 MHz channel spacing according to CEPT Recommendation T/R 13-02 Annex B (see Annex C).

Parts of this frequency spectrum were already allocated in the year 2001 on the basis of the regulatory authority's tender procedure of September 15, 2000 (GZ RFQZ 5/00).

The figure below provides a schematic depiction of this frequency spectrum.

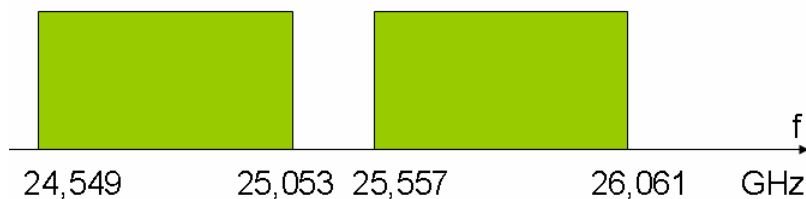


FIGURE 2: 26 GHz FREQUENCY SPECTRUM

3.1.2 Frequency Packets

Several frequency packets, each consisting of multiple 28 MHz duplex channels according to the channel spacing in CEPT Recommendation T/R 13-02 Annex B (see Annex C), will be auctioned off. A buffer channel of 28 MHz is provided for between each frequency packet. In principle, coordinated use of the buffer channels is possible (for details, see Section 3.7).

The figures below show the assignment of the duplex channels to each frequency packet. Packet A is **not** available in Regions 3, 4 and 5, while Packet E is **only** available in those regions.

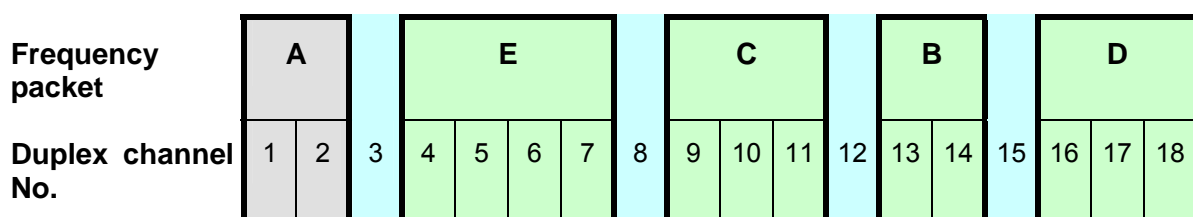


FIGURE 3: OVERVIEW OF DUPLEX CHANNELS AND FREQUENCY PACKETS

Packet	Channel	Lower Band	Upper Band	Regions
A	1	24.549 to 24.577 GHz	25.557 to 25.585 GHz	Not available
	2	24.577 to 24.605 GHz	25.585 to 25.613 GHz	
<i>Buffer Channel A-E</i>	3	<i>24.605 to 24.633 GHz</i>	<i>25.613 to 25.641 GHz</i>	
E	4	24.633 to 24.661 GHz	25.641 to 25.669 GHz	Available in Regions 3, 4 and 5 only (E3-E5)
	5	24.661 to 24.689 GHz	25.669 to 25.697 GHz	
	6	24.689 to 24.717 GHz	25.697 to 2.725 GHz	
	7	24.717 to 24.745 GHz	25.725 to 25.753 GHz	
<i>Buffer Channel E-C</i>	8	<i>24.745 to 24.773 GHz</i>	<i>25.753 to 25.781 GHz</i>	
C	9	24.773 to 24.801 GHz	25.781 to 25.809 GHz	Regions 1-6 (C1-C6)
	10	24.801 to 24.829 GHz	25.809 to 25.837 GHz	
	11	24.829 to 24.857 GHz	25.837 to 25.865 GHz	
<i>Buffer Channel C-B</i>	12	<i>24.857 to 24.885 GHz</i>	<i>25.865 to 25.893 GHz</i>	
B	13	24.885 to 24.913 GHz	25.893 to 25.921 GHz	Regions 1-6 (B1-B6)
	14	24.913 to 24.941 GHz	25.921 to 25.949 GHz	
<i>Buffer Channel B-D</i>	15	<i>24.941 to 24.969 GHz</i>	<i>25.949 to 25.977 GHz</i>	
D	16	24.969 to 24.997 GHz	25.977 to 26.005 GHz	Regions 1-6 (D1-D6)
	17	24.997 to 25.025 GHz	26.005 to 26.033 GHz	
	18	25.025 to 25.053 GHz	26.033 to 26.061 GHz	

TABLE 6: ASSIGNMENT OF FREQUENCY PACKETS TO DUPLEX CHANNELS AND FREQUENCY RANGES

3.2 Purpose of Use

According to the frequency usage plan (Federal Law Gazette II No. 307/2005), the frequency spectrum described above is to be used to set up microwave radio systems, that is, either point-to-multipoint radio systems or point-to-point radio systems, for the purpose of providing communications services.

3.3 Basic Technical Characteristics of Radio Systems Used (including Antennas)

The state of the art for point-to-multipoint radio systems is defined in **EN 302 326 (Parts 1- 3)**. The features applicable to the launch and operation of point-to-multipoint radio systems in the 26 GHz frequency range are listed in the Radio Interface Descriptions **FSB-RR033** and **FSB-RR034** (see Annex B).

Note: The Radio Interface Descriptions FSB-RR033 and FSB-RR034 still refer to EN 301 753, which has now been replaced by EN 302 326. Despite these circumstances, EN 302 326 shall be considered valid as the state of the art until FSB-RR033 and FSB-RR034 have been revised.

The state of the art for point-to-point radio systems is defined in **EN 302 217 (Parts 1, 2-1, 2-2, 4-1 and 4-2)**. The features applicable to the launch and operation of point-to-point radio systems in the 26 GHz frequency range are listed in the Radio Interface Description **FSB-RR013** (see Annex B).

Note: The Radio Interface Description FSB-RR013 still refers to EN 301 751, which has now been replaced by EN 302 217. Despite these circumstances, EN 302 217 shall be valid as the state of the art until FSB-RR013 has been revised.

3.4 Carrier Power, Radiated Power

Notwithstanding the special provisions below regarding maximum power flux density values, the maximum values defined in Article 21 of the ITU Radio Regulations shall apply to carrier power and radiated power.

3.5 Special Technical Conditions for the Use of Point-to-Multipoint Radio Systems

3.5.1 Power Flux Density at Regional Borders within Austria

As mentioned in Section 2.2, frequencies will be allocated for multiple regions within Austria.

The following conditions are to be observed with regard to regional borders within Austria:

- a) Within Austria, the spectral power flux density (PFD) generated by a point-to-multipoint radio system must not exceed $-105 \text{ dBW}/(\text{MHz}\cdot\text{m}^2)$ in the adjacent region at a distance of 7.5 km from the border of the region for which the frequency was allocated.
- b) Among network operators to whom the same frequencies are allocated in adjacent regions, agreements to change the maximum values for power flux

density in paragraph a) are permitted but will require the consent of the telecommunications authority.

- c) In order to avoid frequency losses, network operators to whom the same frequencies are allocated in adjacent regions will be required to coordinate the construction of radio base stations within 7.5 km of shared regional borders. In this context, the locations of radio base stations and radio network planning (with regard to the polarization used and/or the sub-frequencies used in the individual sectors) are to be coordinated by the operators.

3.5.2 Power Flux Density Near National Borders, Preferred and Non-Preferred Frequencies

The specific terms of frequency use in the proximity of Austria's national borders will be defined in the operation permits. The general conditions of frequency use in these border areas are indicated below.

In the proximity of national borders, a preferred frequency regulation is used. In this context, the spectral power flux density (PFD) generated by a point-to-multipoint radio system must not exceed the values indicated in Table 7.

	Maximum spectral power flux density
Preferred frequency	-105 dBW/(MHz*m ²) in the adjacent country at a distance of 15 km from the national border
Non-preferred frequency	-105 dBW/(MHz*m ²) along the national border

TABLE 7: MAXIMUM SPECTRAL POWER FLUX DENSITY

The power flux density and distances indicated in Table 7 assume an angle decoupling of 20 dB (which corresponds to an angle offset of 20°) between the directions of maximum radiation of the radio stations involved on both sides of the border.

Preferred frequency blocks in the areas bordering Germany, Liechtenstein and Switzerland as well as the Czech Republic, Slovakia, Hungary and Slovenia:

Border area	Starting and ending points of the national border to which the preference regulation applies		Numbers of preferred frequency blocks according to 28 MHz channel spacing in CEPT Recommendation T/R 13-02 Annex B
	From	To	
Switzerland (two-country border area)	10° 28' E 46° 51' N	09° 48' E 47° 02' N	1, 3 ¹⁾ , 4 ¹⁾ , 5, 6, 9, 11, 13, 14, 16 ¹⁾ Preferred frequency conditions only for radio stations constructed lower than 2,000 m above sea level.
Switzerland and Liechtenstein (three-country border area)	09° 48' E 47° 02' N	09° 40' E 47° 23' N	1, 4, 6, 13, 14, 16
Switzerland and Germany (three-country border area)	09° 40' E 47° 23' N	09° 46' E 47° 35' N	1, 4, 6, 13, 14, 16
Germany (two-country border area, west of 10° 20' E)	09° 46' E 47° 35' N	10° 20' E 47° 18' N	1, 2, 4, 6, 7, 13, 14, 16, 17
Germany (two-country border area, east of 10° 20' E)	10° 20' E 47° 18' N	13° 49' 30" E 48° 38' N	1, 2, 5, 6, 10, 11, 13, 14, 17
Germany and Czech Republic (three-country border area)	13° 49' 30" E 48° 38' N	14° 01' E 48° 41' 30" N	1 ²⁾ , 6 ²⁾ , 9, 11, 13 ²⁾ , 14 ²⁾ ²⁾ The conditions for preferred frequencies will not enter into effect until coordination procedures with the German telecommunications administration are completed successfully.
Czech Republic (two-country border area)	14° 01' E 48° 41' 30" N	16° 47' 30" E 48° 42' 50" N	1, 6, 9, 11, 13, 14, 16, 17, 18
Czech Republic and Slovakia (three-country border area)	16° 47' 30" E 48° 42' 50" N	16° 54' E 48° 29' N	1, 6, 9, 11, 13, 14
Slovakia (two-country border area)	16° 54' E 48° 29' N	17° 04' E 48° 07' 30" N	1, 6, 7, 9, 10, 11, 13, 14, 17
Slovakia and Hungary (three-country border area)	17° 04' E 48° 07' 30" N	17° 05' E 47° 52' 30" N	1, 6, 9, 11, 13, 14
Hungary (two-country border area)	17° 05' E 47° 52' 30" N	16° 15' 30" E 46° 58' N	1, 2, 5, 6, 9, 11, 13, 14, 18

Hungary and Slovenia (three-country border area)	16° 15' 30" E 46° 58' N	15° 59' 30" E 46° 45' 30" N	1, 6, 9, 11, 13, 14
Slovenia (two-country border area)	15° 59' 30" E 46° 45' 30" N	13° 55' E 46° 31' 30" N	1, 6, 7, 9, 10, 11, 13, 14, 17

TABLE 8: PREFERRED FREQUENCY BLOCKS

Spectral power flux density is calculated according to the propagation model in ITU Recommendation ITU-R P.452; however, this calculation was performed with attention to open-space propagation only.

3.5.2.1 Operator Agreements

Domestic network operators to whom frequencies are allocated will be allowed to conclude agreements with network operators in neighboring countries to amend the preferred frequency conditions: however, such agreements will require the consent of the respective telecommunications administrations.

3.5.3 Changes in Use and Additional Restrictions of Use

In line with the results of coordination procedures with foreign telecommunications administrations, the Austrian telecommunications authority may order changes in use or restrictions of use for individual frequency packets and areas in order to protect existing or planned radio services abroad (cf. Art. 84 Par. 2 TKG 2003). According to the ITU Radio Regulations, coordination procedures are to be carried out for radio services and bilateral or multilateral agreements.

3.5.4 Conditions for the Assignment of Transmission Directions

The following conditions apply to the assignment of upper and lower band frequencies to transmission directions for point-to-multipoint radio systems:

a) Transmission from radio base station to subscriber terminal:

Transmissions exclusively in the lower band.

a) Transmission from subscriber terminal to radio base station:

Transmissions exclusively in the upper band.

3.6 Special Technical Conditions for the Use of Point-to-Point Radio Systems

Operators which use the allocated frequency spectrum entirely or partly (i.e., parts of the frequency spectrum and/or parts of the region in which the frequency is allocated) for point-to-point radio systems must take suitable measures to ensure that no harmful interference to the point-to-multipoint radio systems of other operators in Austria and/or abroad is caused by the operation of those point-to-point systems. In particular, if such interference arises, the operator will be required to follow the instructions of the telecommunications authority in taking suitable measures to remedy the problem. The telecommunications authority can not guarantee

protection of the operation of point-to-point radio systems from harmful interference due to signals from point-to-multipoint radio systems.

3.7 Additional Buffer Distances between Frequency Packets

As shown in Table 6, adjacent frequency packets are separated by buffer channels with a bandwidth of 28 MHz in order to prevent interference. Should a point-to-multipoint radio system or point-to-point radio system deployed by a network operator require a greater buffer distance, the additional buffer distance will be subtracted from that operator's bandwidth.

The buffer channels indicated can be used on the basis of corresponding private agreements between the holders of rights to adjacent frequencies in the respective region.

Furthermore, network operators to whom adjacent frequency packets are allocated are advised to coordinate the planning of their radio networks with one another in order to avoid frequency losses.

3.8 Duration of Use

Under Art. 54 Par. 11 TKG 2003, all frequencies are to be allocated for a limited time period only. The time period is to be defined according to reasonable objective and economic criteria. The frequencies in this procedure will be allocated to the operators until **December 31, 2020**.

3.9 Transfer of Frequencies

Under Art. 56 Par. 1 TKG 2003, operators are also permitted to transfer frequency usage rights. However, such transfers require prior approval by the regulatory authority. Transfers are to be understood as the sale of frequency usage rights (in part or in full), the leasing of such rights or any other means of granting use rights to another party.

4 Coverage Requirements

Frequency spectrum allocations are subject to the requirement that the operator is able to attain a certain minimum usage level in the spectrum allocated.

Coverage requirements serve to ensure the efficient use of frequencies. These obligations are intended to prevent allocated frequencies from being hoarded or from being used only to a very limited extent (or not at all) for strategic reasons related to competition. The coverage requirements are designed in such a way that they do not stand in the way of efficient network construction or profitable business models.

4.1 Minimum Usage

A certain minimum usage level must be attained for each frequency packet. The tables below show the number of radio links to be set up as of 31.03.1008 and 31.03.2009.

If point-to-multipoint radio systems are used partly or entirely, then one point-to-multipoint radio system will count as three point-to-point radio links in this context.

The minimum level of usage to be attained as of 31.03.2008 is shown in Table 9.

Region	Number of point-to-point radio links (for systems with a bandwidth of 28 MHz)			
	Packet B	Packet C	Packet D	Packet E
1	16	24	24	-
2	9	13	13	-
3	3	4	4	6
4	2	3	3	4
5	3	4	4	6
6	6	9	9	-

TABLE 9: MINIMUM USAGE LEVELS AS OF 31.03.2008

The minimum level of usage to be attained as of 31.03.2009 is shown in Table 10.

Region	Number of point-to-point radio links (for systems with a bandwidth of 28 MHz)			
	Packet B	Packet C	Packet D	Packet E
1	32	48	48	-
2	18	27	27	-
3	6	9	9	12
4	4	6	6	8
5	6	9	9	12
6	12	18	18	-

TABLE 10: MINIMUM USAGE LEVELS AS OF 31.03.2009

Example: In Region 6, nine point-to-point radio links must be set up for Packet C (i.e., C6) as of 31.03.2008. As an equivalent, three point-to-point radio links and two point-to-multipoint radio systems could be set up.

In this context, a radio system with a bandwidth other than 28 MHz will be counted using the ratio of the actually approved bandwidth (cf. Art. 54 Par. 15 TKG 2003) to 28 MHz.

Example: Eight point-to-point radio links with a bandwidth of 7 MHz each will be counted as two point-to-point radio links.

4.2 Guarantee in Case of Non-Fulfillment of Coverage Requirements

Starting on 31.03.2008 the fulfillment of the coverage requirements will be reviewed annually. If at that date the minimum usage level indicated in Section 4.1 is not attained, then in each case a penalty of EUR 15,000.00 is to be paid per point-to-point radio link failed to set up.²

Examples:

(a) The operator with the frequency license for Packet B6 has only set up four point-to-point radio links as of 31.03.2008. As by that date six point-to-point radio links (or two point-to-multipoint radio systems) should have been set up in that region, the penalty as of the cutoff date amounts to $2 \times \text{EUR } 15,000.00 = \text{EUR } 30,000.00$.

(b) The operator with the frequency license for Packet C2 has only set up two point-to-multipoint radio systems and five point-to-point radio links as of 31.03.2011. As by that

² If point-to-multipoint radio systems are used partly or entirely, then one point-to-multipoint radio system will count as three point-to-point radio links in this context.

date 27 point-to-point radio links (or nine point-to-multipoint radio systems) should have been set up in that region, but only $2 \times 3 + 5 = 11$ point-to-point radio links have been set up, the penalty as of the cutoff date amounts to $(27 - 11) \times \text{EUR } 15,000.00 = \text{EUR } 240,000.00$.

The penalties shall be due every year until the coverage requirement is met.

4.3 Supervisory Rights

Operators to which frequencies are allocated will be required to convey the following data to the Telekom-Control Commission within two months after the cutoff date (31.03.) each year for coverage requirements. The data is to be submitted in electronic form according to a data model provided by the Telekom-Control Commission:

- a) Point-to-point radio links established (locations, links, frequencies and bandwidths used)
- b) Point-to-multipoint radio systems established (locations, coverage areas, frequencies and bandwidths used).

The Telekom-Control Commission will verify the fulfillment of coverage requirements. The costs of this verification process are to be borne by the holder of the frequency usage rights.

5 Application Documents

Under Art. 55 Par. 1 TKG 2003, the regulatory authority is to allocate the frequencies placed under its authority to applicants who fulfill the general prerequisites under Par. 2 No. 2 leg. cit. Applications for frequency allocations are to contain the documents and information listed in the following sections:

5.1 Organizational Structure

In order to determine whether applicants fulfill the prerequisites indicated in Art. 55 Par. 2 No. 2 TKG 2003 and to ensure the competitive independence of the applicants, the Commission will require information on the applicant's organizational structure. This information includes precise indications as to the applicant's legal and financial situation as well as the applicant's ownership structure. In addition, due attention must be paid to the provisions stipulated in Section 2.6.1.

The applications are to contain the following information (wherever applicable):

5.1.1 Information on the Applicant

- a) Name (company), place of incorporation (address), date and place of establishment including a current excerpt from the Commercial Register (or from a comparable register maintained in the applicant's country of incorporation and equivalent to the Austrian Commercial Register);
- b) Type and number of capital shares, nominal value of capital shares as well as voting and dividend rights associated with any and all types of shares;
- c) Subscribed capital per type of capital share, precise information on the stakeholders at the time the application is submitted, as well as any and all foreseeable changes in this respect;
- d) Number, value and rights (including conversion rights) of any and all options, certificates of entitlement, preferred stock or debt capital as well as any other securities issued by the applicant;
- e) The company's articles of incorporation in their current version;
- f) A description of the applicant's business activities;
- g) The name of the applicant's authorized recipient, who must fulfill the requirements set forth in Art. 9 of the Austrian Service of Documents Act (ZustG), as well as that of an authorized representative (as defined in Art. 10 AVG) along with his/her telephone and fax numbers as well as postal and e-mail addresses (cf. Section 6.3 of this document). These two parties can be the same person.
- h) Any and all other information which, if mentioned or omitted, could substantially influence the Telekom-Control Commission's decision in the review to be carried out prior to the frequency allocation procedure in compliance with Art. 55 Par. 2 No. 2 TKG 2003.

Should the information indicated above not be delivered in its entirety, the Telekom-Control Commission will request the missing information as it sees necessary for the purpose of gathering information relevant to its decision. In this context, the Telekom-Control Commission may also request additional information as necessary for this purpose.

5.1.2 Information on the Applicant's Stakeholders, Shareholders, etc.

For each stakeholder, shareholder, bearer of options, of certificates of entitlement, of preferred stock, of debt capital or of other securities issued by the applicant, the information indicated under Items a) to d) in Section 5.1.1. (with the required information under Item d) referring to the respective company instead of the applicant) as well as f) and h) is to be submitted wherever applicable.

In addition, the following is to be indicated/described for each of these parties:

- i) Relationship to the applicant (e.g., number and type of capital shares or securities held), syndicate / consortium agreements;
- j) Group parent company/companies, superordinate group company/companies (where applicable).

In cases where capital shares or other securities issued by the applicant are held for a third party by persons acting as trustees or in other similar functions, these circumstances are to be noted in the application, and the aforementioned details are to be provided for the actual economic owner.

5.1.3 Additional Description of Ownership Structure for Superordinate Companies Holding Substantial Interests

In the event that multiple superordinate stakeholders (e.g., shareholders, bearers of options, of certificates of entitlement, of preferred stock, of debt capital or of other securities issued by the applicant) hold a *consolidated* interest of 25% or more in the applicant (ultimate owner principle) without holding a *direct* stake in the applicant, these interests must be described in the application.

In this context, the information required in Section 5.1.2. of this document is to be provided for each company which holds a consolidated interest of at least 25% in the applicant, regardless of the superordinate level at which this interest is held.

Therefore, the information required in Section 5.1.2 of this document must also be provided for companies which hold a stake of 25% or more in the applicant not through a specific investment in *one* of the companies superordinate to the applicant but through consolidation of *multiple* superordinate interests in *multiple* companies superordinate to the applicant.

In cases where capital shares or other securities issued by the applicant which correspond to an interest of 25% or more – even if these are held indirectly through superordinate interests – are held for third parties by persons acting as trustees or in another similar function, these circumstances are to be noted in the application, and the aforementioned details are to be provided for the actual economic owner.

The information required in this section can be illustrated using tables or diagrams which show direct and indirect interests as well as the type of control over the applicant (especially the type of interest held). In depicting such interests, applicants are to ensure that these depictions enable the Telekom-Control Commission to identify any economic interrelationships through

which one applicant may exert substantial competitive influence on another applicant (or other applicants) directly or indirectly.

Should the information indicated above not be delivered in its entirety, the Telekom-Control Commission will request the missing information as it sees necessary for the purpose of gathering information relevant to its decision. In this context, the Telekom-Control Commission may also request additional information as necessary for this purpose.

5.1.4 Information on Consortia

In the case of consortia or joint ventures, the following additional information will be necessary:

The type of relationship among the members as well as detailed information on:

- Syndicate agreements, consortium agreements;
- Joint venture agreements;
- Declarations of intent;
- Stakeholder agreements.

In addition, the information indicated in Section 5.1.2 is to be included in the application for all consortium members.

Should the information indicated above not be delivered in its entirety, the Telekom-Control Commission will request the missing information as it sees necessary for the purpose of gathering information relevant to its decision. In this context, the Telekom-Control Commission may also request additional information as necessary for this purpose.

5.2 Technical Capabilities, Quality of Services and Coverage Requirements

Under Art. 55 Par. 2 No. 2 TKG 2003, there must be no reason to believe that the applicant will fail to provide the planned service, especially with regard to service quality and coverage requirements. In addition, the applicant must possess the technical capabilities necessary to provide such services. The information requested in the following sections is intended to aid the regulatory authority in reviewing these prerequisites.

5.2.1 Description of Planned Services and Service Quality

The following information is required:

- Description of planned services
- Data rates
- Quality of services (reliability).

5.2.2 Planned Radio Communications Network

The following information is required:

- Technology planned for the radio communications system
- Radio network planning methods
- Number of radio links and/or point-to-multipoint radio systems over time.

5.3 Financial Strength

Applicants will be required to prove that they have at their disposal the financial resources necessary to build and operate a radio communications network.

In this context, applicants should pay special attention to the fact that their financial strength and stability must also be in line with the amount of the frequency license fee offered.

With regard to financial strength, application documents are to contain the following information:

5.3.1 Business Plan / Balance Sheet

In the event that the frequencies to be allocated will not be used to provide direct services for third parties (e.g., connection of base stations for mobile communications), the applicant's current balance sheet is to be enclosed with the application.

Otherwise, applicants are to submit a business plan for the business area(s) in which the desired frequencies are to be used on the basis of the applicant's strategy, overall market assessment and assessment of business operations in the five years following frequency allocation.

The business plan can be structured in any way the applicant chooses. However, the most essential costs and revenues should be clearly visible in this structure (see Annex E).

In any case, a bank guarantee (original document) is also to be enclosed with the application. Details on the bank guarantee can be found in Section 2.4.

5.3.2 *Financing*

Applicants will also be required to provide evidence that they can raise capital in line with the business plan described in the application. For this purpose, the following information is required:

- Equity financing - Schedule and sources of equity capital, including planned issues of company capital
- Debt financing - Credit lines, available collateral, terms and lenders for all loans in the first four years after frequency allocation

5.4 **Declaration of Completeness**

Properly completed written applications must contain all of the information requested in Section 5. In addition, a declaration of completeness (Annex F) is to be enclosed with the application to confirm that it contains complete and accurate indications of all information requested in this tender document as well as all information relevant to the Telekom-Control Commission's evaluation of the objective facts.

6 Practical Information

The following sections contain information on the deadlines to be adhered to as well as other essential issues in the allocation procedure.

6.1 Rights to Application Documents

In submitting an application for frequency allocation, the applicant irrevocably agrees to allow the Telekom-Control Commission to use – without restriction – all information and documents received in connection with the application for the purposes of the allocation procedure, for the review of compliance with the official allocation decision, and for all procedures otherwise associated with the frequency allocation.

6.2 Applications for Frequency Allocation

Please send applications to:

Telekom-Control Commission
Mariahilfer Strasse 77-79
A-1060 Vienna
Austria

The application for frequency allocation ("application") must be received by the Telekom-Control Commission in a sealed envelope or package labeled "Frequenzzuteilungsantrag 26 GHz (F3/06)" by 05.02.2007, at 12:00 noon local time (CET). Applications received after this deadline will not be reviewed.

Applications are to be submitted in writing (one original) in German language as well as in electronic format (CD-ROM).

The amendment or withdrawal of applications after the application deadline will not be permitted.

The application should be no longer than 100 pages. However, required enclosures such as annual reports and maps may be attached as necessary. These enclosures will also be accepted in English.

6.3 Authorized Recipient

Applicants are required to name an authorized recipient in their applications in accordance with Art. 9 of the Austrian Service of Documents Act (ZustG; cf. Section 5.1.1). An unrestricted authorization of the recipient must be signed by official representatives of the company and included with the application documents. In cases where the recipient is changed, a new unrestricted authorization is to be sent to the Telekom-Control Commission without delay. In order to facilitate correspondence between the authority and the applicant, applicants are advised to nominate an authorized recipient with his/her main residence in Austria for the sake of efficiency in the procedure.

6.4 Clarifications

For the purpose of preparing their applications, interested parties will be allowed to submit questions to the Telekom-Control Commission. The Telekom-Control Commission reserves the right to decide whether questions are answered in each individual case.

Questions to the Telekom-Control Commission can be sent – by e-mail only – to rtr@rtr.at with the subject "FRAGE 26 GHz-Vergabe TKK" until 01.12.2006 at 12:00 noon local time (CET; this refers to the date and time of receipt). Questions will be answered in writing by 19.12.2006 (date of dispatch).

The questions submitted to the Telekom-Control Commission will be collected and forwarded, along with their answers, to all potential bidders without disclosure of the names of the parties who posed the questions.

If the Telekom-Control Commission considers it necessary or appropriate to pose questions to applicants, the applicant irrevocably agrees in submitting the application to reply to such inquiries and submit the requested additional information within the appropriate period specified in each case by the Telekom-Control Commission.

6.5 Inquiries and Consultants

In this tender procedure, the Telekom-Control Commission may call in consultants in the course of its inquiries and surveys (Art. 55 Par. 11 TKG 2003). This also applies (but in no way exclusively) to inquiries related to the clarification issues mentioned in Section 6.4, to inquiries related to the review of eligibility criteria under Art. 55 Par. 2 No. 2 TKG 2003, and to support in the course of the auction procedure.

6.6 Inspection of Records

Upon request, all applicants will be allowed to inspect records to the same extent. No separate appeals against the refusal to allow an inspection of records will be permitted (Art. 17 AVG).

The Telekom-Control Commission acknowledges the fact that in the course of this procedure a large amount of information will be provided and that the inspection of these records may damage the legitimate interests of parties to the procedure or those of third parties. In addition, the procedure may involve information which, if viewed by one of the parties, could endanger the fulfillment of the regulatory authority's duties or frustrate the purpose of the procedure. The Telekom-Control Commission thus reserves the right to deny parties the right to inspect such parts of the records.

In order to ensure the confidentiality of the sensitive information provided by the applicants, the applicants are to label all data regarded as company or trade secrets accordingly in their applications. In addition, a copy of the application is to be submitted in which the company and trade secrets have been omitted; in this version of the application, it must be made obvious that those elements have been removed. The Telekom-Control Commission furthermore reserves the right to deny parties the right to inspect other records pursuant to Art. 17 Par. 3 AVG. Likewise, the Telekom-Control Commission reserves the right to allow the inspection of records which are labeled as company or trade secrets by the applicants if damage to the legitimate interests of a party or third party is not expected to arise from allowing such an inspection.

Art. 125 TKG 2003 as well as the Austrian Administrative Court Ruling 2002/03/0273 of February 25, 2004 shall be applied with regard to company or trade secrets.

The applicants undertake to use any information on other applicants obtained in the course of this procedure exclusively for the purposes of the procedure.

6.7 Review and Information Obligations

All applicants are requested to review the information provided in the tender documents and in the enclosures/attachments themselves and to notify the Telekom-Control Commission of any and all additional (e.g., technical) remarks or corrections.

6.8 Publication

The Telekom-Control Commission intends to announce the results of the auction, including the bids submitted, on the regulatory authority's web site.

6.9 Annulment of the Invitation to Tender, Discontinuation of the Procedure

Under Art. 55 Par. 12 TKG 2003, the regulatory authority is authorized to annul the invitation to tender and discontinue the procedure at any stage for important reasons, especially if

1. the regulatory authority identifies collusive behavior among applicants and/or an efficient, fair and non-discriminatory procedure cannot be conducted;
2. none or only one applicant fulfills the requirements under Par. 2;
3. none or only one of the applicants that fulfill the requirements under Par. 2 actually participates in determining the highest bid;
4. the procedure results in the applicants requesting (in total) less frequency spectrum than the amount to be allocated.

None of these circumstances justify any claim to remuneration, government authority liability claims notwithstanding.

7 Fees

7.1 Frequency License Fee

The successful applicants are to effect payment of the frequency license fee determined in the course of the auction immediately (**receipt** in the specified bank account in EUR **within one calendar week** at the latest) after the frequency allocation decision takes legal effect.

The frequency license fee does not include value-added tax.

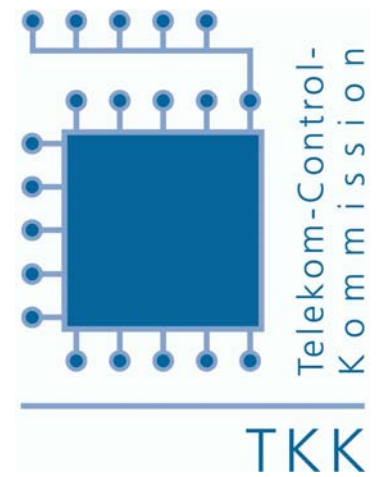
In the case of non-payment (including delayed or incomplete payments) of the frequency license fee, the frequency allocation will be rendered void. Notwithstanding the condition mentioned above, the Federal Republic of Austria shall have the right in such cases to draw the bank guarantee or to collect the unpaid portion of the frequency license fee by means of administrative enforcement.

7.2 Spectrum Fees

In accordance with Art. 82 Par. 2 TKG 2003, spectrum fees for the use of frequencies are also to be paid by the network operators. These fees are defined in the Telecommunications Fees Ordinance (Federal Law Gazette II 29/1998) in its current version. These fees will be prescribed by the telecommunications offices when the operation permit is issued.

7.3 Consultancy Costs

In the course of the procedure, any and all costs arising from experts or consultants called in by the Telekom-Control Commission at any point in this procedure, are to be paid on a *pro rata* basis by those applicants to whom frequencies are allocated (Art. 55 Par. 11 TKG 2003). These costs will be prescribed in the official frequency allocation decision and are to be paid within 14 days of receipt of the official decision.



Annex A Index of Districts and Municipalities in Allocation Regions

Region 1



ABBILDUNG 1: REGION 1

Die folgende Tabelle enthält die der Region 1 zugeordneten Bezirke:

Bezirks ID	Bezirk	Bundesland
101	Eisenstadt (Stadt)	Burgenland
102	Rust (Stadt)	Burgenland
103	Eisenstadt-Umgebung	Burgenland
106	Mattersburg	Burgenland
107	Neusiedl am See	Burgenland
108	Oberpullendorf	Burgenland
301	Krems an der Donau (Stadt)	Niederösterreich

Bezirks ID	Bezirk	Bundesland
302	Sankt Pölten (Stadt)	Niederösterreich
303	Waidhofen an der Ybbs (Stadt)	Niederösterreich
304	Wiener Neustadt (Stadt)	Niederösterreich
306	Baden	Niederösterreich
307	Bruck an der Leitha	Niederösterreich
308	Gänserndorf	Niederösterreich
309	Gmünd	Niederösterreich
310	Hollabrunn	Niederösterreich
311	Horn	Niederösterreich
312	Korneuburg	Niederösterreich
313	Krems (Land)	Niederösterreich
314	Lilienfeld	Niederösterreich
315	Melk	Niederösterreich
316	Mistelbach	Niederösterreich
317	Mödling	Niederösterreich
318	Neunkirchen	Niederösterreich
319	Sankt Pölten (Land)	Niederösterreich
320	Scheibbs	Niederösterreich
321	Tulln	Niederösterreich
322	Waidhofen an der Thaya	Niederösterreich
323	Wiener Neustadt (Land)	Niederösterreich
324	Wien Umgebung	Niederösterreich
325	Zwettl	Niederösterreich
901	Wien Innere Stadt	Wien
902	Wien Leopoldstadt	Wien
903	Wien Landstraße	Wien
904	Wien Wieden	Wien
905	Wien Margareten	Wien
906	Wien Mariahilf	Wien
907	Wien Neubau	Wien
908	Wien Josefstadt	Wien
909	Wien Alsergrund	Wien
910	Wien Favoriten	Wien
911	Wien Simmering	Wien
912	Wien Meidling	Wien
913	Wien Hietzing	Wien

Bezirks ID	Bezirk	Bundesland
914	Wien Penzing	Wien
915	Wien Rudolfsheim-Fünfhaus	Wien
916	Wien Ottakring	Wien
917	Wien Hernals	Wien
918	Wien Währing	Wien
919	Wien Döbling	Wien
920	Wien Brigittenau	Wien
921	Wien Floridsdorf	Wien
922	Wien Donaustadt	Wien
923	Wien Liesing	Wien

TABELLE 1: BEZIRKE VON REGION 1

In der folgenden Tabelle sind jene Gemeinden der Region 1 aufgelistet, welche neben den oben aufgelisteten Bezirken der Region zugeordnet wurden:

Bezirks ID	Bezirk	Gemeinde ID	Gemeinde	Bundesland
305	Amstetten	30501	Allhartsberg	Niederösterreich
305	Amstetten	30502	Amstetten	Niederösterreich
305	Amstetten	30503	Ardagger	Niederösterreich
305	Amstetten	30504	Aschbach-Markt	Niederösterreich
305	Amstetten	30507	Biberbach	Niederösterreich
305	Amstetten	30510	Ertl	Niederösterreich
305	Amstetten	30511	Euratsfeld	Niederösterreich
305	Amstetten	30512	Ferschnitz	Niederösterreich
305	Amstetten	30516	Hollenstein an der Ybbs	Niederösterreich
305	Amstetten	30517	Kematen an der Ybbs	Niederösterreich
305	Amstetten	30520	Neuhofen an der Ybbs	Niederösterreich
305	Amstetten	30521	Neustadtl an der Donau	Niederösterreich
305	Amstetten	30522	Oed-Oehling	Niederösterreich
305	Amstetten	30524	Opponitz	Niederösterreich
305	Amstetten	30532	Seitenstetten	Niederösterreich
305	Amstetten	30533	Sonntagberg	Niederösterreich
305	Amstetten	30526	St.Georgen am Reith	Niederösterreich
305	Amstetten	30527	St.Georgen am Ybbsfeld	Niederösterreich
305	Amstetten	30536	Viehdorf	Niederösterreich
305	Amstetten	30538	Wallsee-Sindelburg	Niederösterreich
305	Amstetten	30541	Winklarn	Niederösterreich

Bezirks ID	Bezirk	Gemeinde ID	Gemeinde	Bundesland
305	Amstetten	30542	Wolfsbach	Niederösterreich
305	Amstetten	30543	Ybbsitz	Niederösterreich
305	Amstetten	30544	Zeillern	Niederösterreich
612	Liezen	61205	Altenmarkt bei St.Gallen	Steiermark
612	Liezen	61210	Gaishorn am See	Steiermark
612	Liezen	61211	Gams bei Hieflau	Steiermark
612	Liezen	61219	Johnsbach	Steiermark
612	Liezen	61221	Landl	Steiermark
612	Liezen	61230	Palfau	Steiermark
612	Liezen	61239	St.Gallen	Steiermark
612	Liezen	61246	Treglwang	Steiermark
612	Liezen	61248	Wießenbach an der Enns	Steiermark
612	Liezen	61250	Weng bei Admont	Steiermark
612	Liezen	61251	Wildalpen	Steiermark
411	Perg	41102	Arbing	Oberösterreich
411	Perg	41108	Bad Kreuzen	Oberösterreich
411	Perg	41103	Baumgartenberg	Oberösterreich
411	Perg	41104	Dimbach	Oberösterreich
411	Perg	41105	Grein	Oberösterreich
411	Perg	41107	Klam	Oberösterreich
411	Perg	41112	Mitterkirchen im Machland	Oberösterreich
411	Perg	41113	Münzbach	Oberösterreich
411	Perg	41115	Pabneukirchen	Oberösterreich
411	Perg	41123	Saxen	Oberösterreich
411	Perg	41119	St.Georgen am Walde	Oberösterreich
411	Perg	41121	St.Nikola an der Donau	Oberösterreich
411	Perg	41122	St.Thomas am Blasenstein	Oberösterreich
411	Perg	41125	Waldhausen im Strudengau	Oberösterreich
415	Steyr-Land	41505	Gafrenz	Oberösterreich
415	Steyr-Land	41519	Weyer Land	Oberösterreich
415	Steyr-Land	41520	Weyer Markt	Oberösterreich

TABELLE 2: ZUGEORDNETE GEMEINDEN VON REGION 1

Region 2



ABBILDUNG 2: REGION 2

Die folgende Tabelle enthält die der Region 2 zugeordneten Bezirke:

Bezirks ID	Bezirk	Bundesland
401	Linz (Stadt)	Oberösterreich
402	Steyr (Stadt)	Oberösterreich
403	Wels (Stadt)	Oberösterreich
404	Braunau am Inn	Oberösterreich
405	Eferding	Oberösterreich
406	Freistadt	Oberösterreich
407	Gmunden	Oberösterreich

Bezirks ID	Bezirk	Bundesland
408	Grieskirchen	Oberösterreich
409	Kirchdorf an der Krems	Oberösterreich
410	Linz-Land	Oberösterreich
412	Ried im Innkreis	Oberösterreich
413	Rohrbach	Oberösterreich
414	Schärding	Oberösterreich
416	Urfahr-Umgebung	Oberösterreich
417	Vöcklabruck	Oberösterreich
418	Wels-Land	Oberösterreich
501	Salzburg (Stadt)	Salzburg
502	Hallein	Salzburg
503	Salzburg-Umgebung	Salzburg
504	Sankt Johann im Pongau	Salzburg

TABELLE 3: BEZIRKE VON REGION 2

In der folgenden Tabelle sind jene Gemeinden der Region 2 aufgelistet, welche neben den oben aufgelisteten Bezirken der Region zugeordnet wurden:

Bezirks ID	Bezirk	Gemeinde ID	Gemeinde	Bundesland
305	Amstetten	30506	Behamberg	Niederösterreich
305	Amstetten	30508	Ennsdorf	Niederösterreich
305	Amstetten	30509	Ernsthofen	Niederösterreich
305	Amstetten	30514	Haag	Niederösterreich
305	Amstetten	30515	Haidershofen	Niederösterreich
305	Amstetten	30529	St.Pantaleon-Erla	Niederösterreich
305	Amstetten	30530	St.Peter in der Au	Niederösterreich
305	Amstetten	30531	St.Valentin	Niederösterreich
305	Amstetten	30534	Strengberg	Niederösterreich
305	Amstetten	30539	Weistrach	Niederösterreich
612	Liezen	61228	Öblarn	Steiermark
612	Liezen	61201	Admont	Steiermark
612	Liezen	61202	Aich	Steiermark
612	Liezen	61203	Aigen im Ennstal	Steiermark
612	Liezen	61204	Altaussee	Steiermark
612	Liezen	61206	Ardning	Steiermark
612	Liezen	61207	Bad Aussee	Steiermark

Bezirks ID	Bezirk	Gemeinde ID	Gemeinde	Bundesland
612	Liezen	61226	Bad Mitterndorf	Steiermark
612	Liezen	61208	Donnersbach	Steiermark
612	Liezen	61209	Donnersbachwald	Steiermark
612	Liezen	61212	Gössenberg	Steiermark
612	Liezen	61213	Gröbming	Steiermark
612	Liezen	61214	Großsölk	Steiermark
612	Liezen	61215	Grundlsee	Steiermark
612	Liezen	61216	Hall	Steiermark
612	Liezen	61217	Haus	Steiermark
612	Liezen	61218	Irdning	Steiermark
612	Liezen	61220	Kleinsölk	Steiermark
612	Liezen	61222	Lassing	Steiermark
612	Liezen	61223	Liezen	Steiermark
612	Liezen	61224	Michaelerberg	Steiermark
612	Liezen	61225	Mitterberg	Steiermark
612	Liezen	61227	Niederöblarn	Steiermark
612	Liezen	61229	Oppenberg	Steiermark
612	Liezen	61233	Pichl-Kainisch	Steiermark
612	Liezen	61232	Pichl-Preunegg	Steiermark
612	Liezen	61235	Pürgg-Trautenfels	Steiermark
612	Liezen	61234	Pruggern	Steiermark
612	Liezen	61236	Ramsau am Dachstein	Steiermark
612	Liezen	61237	Rohrmoos-Untertal	Steiermark
612	Liezen	61238	Rottenmann	Steiermark
612	Liezen	61242	Schladming	Steiermark
612	Liezen	61243	Selzthal	Steiermark
612	Liezen	61240	St.Martin am Grimming	Steiermark
612	Liezen	61241	St.Nikolai im Sölkta	Steiermark
612	Liezen	61244	Stainach	Steiermark
612	Liezen	61245	Tauplitz	Steiermark
612	Liezen	61247	Trieben	Steiermark
612	Liezen	61252	Wörschach	Steiermark
612	Liezen	61249	Wießenbach bei Liezen	Steiermark
411	Perg	41101	Allerheiligen/Mühlkreis	Oberösterreich

Bezirks ID	Bezirk	Gemeinde ID	Gemeinde	Bundesland
411	Perg	41106	Katsdorf	Oberösterreich
411	Perg	41109	Langenstein	Oberösterreich
411	Perg	41110	Luftenberg an der Donau	Oberösterreich
411	Perg	41111	Mauthausen	Oberösterreich
411	Perg	41114	Naarn im Machlande	Oberösterreich
411	Perg	41116	Perg	Oberösterreich
411	Perg	41117	Rechberg	Oberösterreich
411	Perg	41118	Ried in der Riedmark	Oberösterreich
411	Perg	41124	Schwertberg	Oberösterreich
411	Perg	41120	St.Georgen an der Gusen	Oberösterreich
411	Perg	41126	Windhaag bei Perg	Oberösterreich
415	Steyr-Land	41501	Adlwang	Oberösterreich
415	Steyr-Land	41502	Aschach an der Steyr	Oberösterreich
415	Steyr-Land	41503	Bad Hall	Oberösterreich
415	Steyr-Land	41504	Dietach	Oberösterreich
415	Steyr-Land	41506	Garsten	Oberösterreich
415	Steyr-Land	41507	Großraming	Oberösterreich
415	Steyr-Land	41508	Laussa	Oberösterreich
415	Steyr-Land	41509	Losenstein	Oberösterreich
415	Steyr-Land	41510	Maria Neustift	Oberösterreich
415	Steyr-Land	41511	Pfarrkirchen bei Bad Hall	Oberösterreich
415	Steyr-Land	41512	Reichraming	Oberösterreich
415	Steyr-Land	41513	Rohr im Kremstal	Oberösterreich
415	Steyr-Land	41515	Schiedlberg	Oberösterreich
415	Steyr-Land	41516	Sierning	Oberösterreich
415	Steyr-Land	41514	St.Ulrich bei Steyr	Oberösterreich
415	Steyr-Land	41517	Ternberg	Oberösterreich
415	Steyr-Land	41518	Waldneukirchen	Oberösterreich
415	Steyr-Land	41521	Wolfern	Oberösterreich

TABELLE 4: ZUGEORDNETE GEMEINDEN VON REGION 2

Region 3

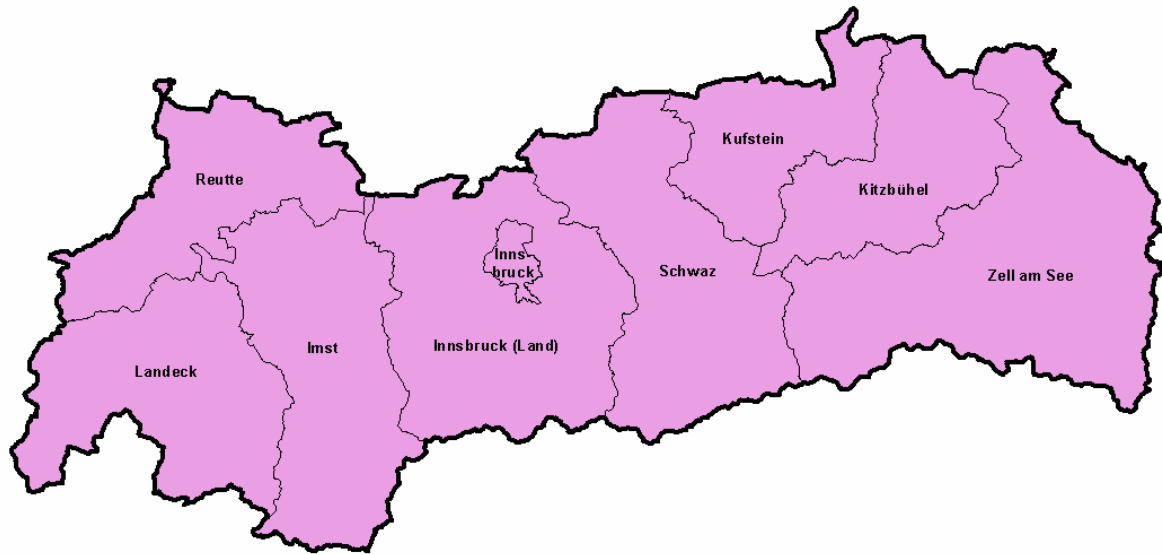


ABBILDUNG 3: REGION 3

Die folgende Tabelle enthält die der Region 3 zugeordneten Bezirke:

Bezirks ID	Bezirk	Bundesland
506	Zell am See	Salzburg
701	Innsbruck (Stadt)	Tirol
702	Imst	Tirol
703	Innsbruck (Land)	Tirol
704	Kitzbühel	Tirol
705	Kufstein	Tirol
706	Landeck	Tirol
708	Reutte	Tirol
709	Schwaz	Tirol

TABELLE 5: BEZIRKE VON REGION 3

Region 4



ABBILDUNG 4: REGION 4

Die folgende Tabelle enthält die der Region 4 zugeordneten Bezirke:

Bezirks ID	Bezirk	Bundesland
801	Bludenz	Vorarlberg
802	Bregenz	Vorarlberg
803	Dornbirn	Vorarlberg
804	Feldkirch	Vorarlberg

TABELLE 6: BEZIRKE VON REGION 4

Region 5

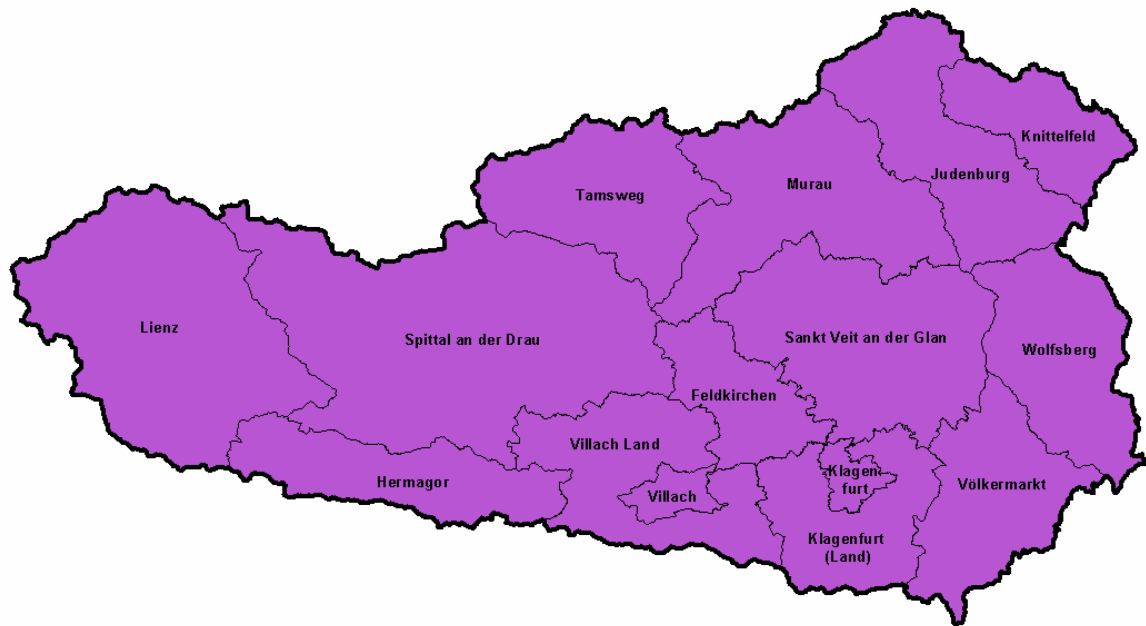


ABBILDUNG 5: REGION 5

Die folgende Tabelle enthält die der Region 5 zugeordneten Bezirke:

Bezirks ID	Bezirk	Bundesland
201	Klagenfurt (Stadt)	Kärnten
202	Villach (Stadt)	Kärnten
203	Hermagor	Kärnten
204	Klagenfurt (Land)	Kärnten
205	Sankt Veit an der Glan	Kärnten
206	Spittal an der Drau	Kärnten
207	Villach Land	Kärnten
208	Völkermarkt	Kärnten
209	Wolfsberg	Kärnten
210	Feldkirchen	Kärnten
505	Tamsweg	Salzburg
608	Judenburg	Steiermark
609	Knittelfeld	Steiermark
614	Murau	Steiermark
707	Lienz	Tirol

TABELLE 7: BEZIRKE VON REGION 5

Region 6



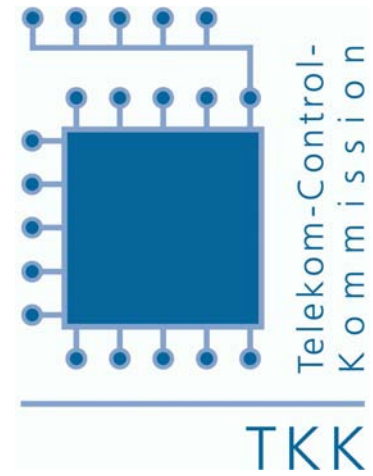
ABBILDUNG 6: REGION 6

Die folgende Tabelle enthält die der Region 6 zugeordneten Bezirke:

Bezirks ID	Bezirk	Bundesland
104	Güssing	Burgenland
105	Jennersdorf	Burgenland
109	Oberwart	Burgenland
601	Graz (Stadt)	Steiermark
602	Bruck an der Mur	Steiermark
603	Deutschlandsberg	Steiermark

Bezirks ID	Bezirk	Bundesland
604	Feldbach	Steiermark
605	Fürstenfeld	Steiermark
606	Graz-Umgebung	Steiermark
607	Hartberg	Steiermark
610	Leibnitz	Steiermark
611	Leoben	Steiermark
613	Mürzzuschlag	Steiermark
615	Radkersburg	Steiermark
616	Voitsberg	Steiermark
617	Weiz	Steiermark

TABELLE 8: BEZIRKE VON REGION



Annex B

Radio Interface Descriptions

FSB RR.013

FSB RR.033

FSB RR.034

Schnittstelle Nr.: **FSB-RR013** (Ausgabe 05.12.2001)

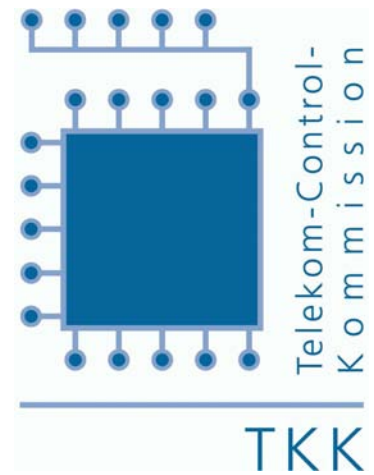
Schnittstellen - Parameter	Beschreibung	Bemerkung
Frequenzband	24,549 GHz - 25,445 GHz 25,557 GHz - 26,453 GHz	Unterband Oberband
HF-Leistung	max. +30 dBm	
HF-Strahlungsleistung	max. entsprechend Artikel S21, Section II VO-Funk	Zulässige Antennentypen gemäß EN 300 833, Gain Category 2, Radiation Pattern Envelope (RPE) Class 2 und XPD Category 2 oder gleichwertige Antennentypen, welche das gleiche Schutzziel einer effizienten Frequenznutzung erreichen.
Kanalabstand	min. 3,5 MHz max. 56 MHz	
Paarfrequenzabstand	1008 MHz	
Belegte Bandbreite	entsprechend dem Kanalabstand	
Zulässige Aussendung	nur digitale Modulationsverfahren	
Übertragungsgeschwindigkeit	min. 2 Mbit/s max. 155 Mbit/s	
Funkdienst laut VO-Funk	Fester Funkdienst	
(Harmonisierte) Norm welche den Stand der Technik beschreibt	EN 301 751	
Sonstige Schnittstellenmerkmale	CEPT Rec.T/R 13-02 Annex B	
Geräteklasse entsprechend RL 99/5/EG	nicht festgelegt	
Bewilligungsart	Individuelle Bewilligung	Für den Betrieb von Punkt-zu-Punkt Duplex-Richtfunksystemen.
Grundlegende Anforderungen entsprechend RL 99/5/EG, Art. 3.3.	nicht festgelegt	

Schnittstelle Nr.: **FSB-RR033** (Ausgabe 05.12.2001)

Schnittstellen – Parameter	Beschreibung	Bemerkung
Frequenzband	24,549 – 25,053 GHz 25,557 – 26,061 GHz	Unterband Oberband
HF-Leistung	min. +5 dBm max. +33 dBm	
HF-Strahlungsleistung	max. +18 dBW e.i.r.p.	Zulässige Antennentypen gemäß EN 301 215-2, Radiation Pattern Envelope (RPE) Class CS 2 oder gleichwertige Antennentypen, welche das gleiche Schutzziel einer effizienten Frequenznutzung erreichen.
Kanalabstand	min. 3,5 MHz max. 56 MHz	
Paarfrequenzabstand	1008 MHz	
Belegte Bandbreite	entsprechend dem Kanalabstand	
Zulässige Aussendung	nur digitale Modulationsverfahren	
Übertragungsgeschwindigkeit	min. 2 Mbit/s bei Kanalabstand 3,5 MHz	
Funkdienst laut VO-Funk	Fester Funkdienst	
(Harmonisierte) Norm welche den Stand der Technik beschreibt	EN 301 753	
Sonstige Schnittstellenmerkmale	CEPT Rec.T/R 13-02 Annex B	
Geräteklasse entsprechend RL 99/5/EG	nicht festgelegt	
Bewilligungsart	Individuelle Bewilligung	Für zentrale Funkstellen in Punkt-zu-Multipunkt Richtfunkssystemen (Richtfunkverteilssysteme).
Grundlegende Anforderungen entsprechend RL 99/5/EG, Art. 3.3.	nicht festgelegt	

Schnittstelle Nr.: **FSB-RR034** (Ausgabe 05.12.2001)

Schnittstellen – Parameter	Beschreibung	Bemerkung
Frequenzband	24,549 – 25,053 GHz 25,557 – 26,061 GHz	Unterband Oberband
HF-Leistung	min. +5 dBm max. +33 dBm	
HF-Strahlungsleistung	max. +35 dBW e.i.r.p.	Zulässige Antennentypen gemäß ETS 300 833, Gain Category 2, Radiation Pattern Envelope (RPE) Class 2 und XPD Category 2 oder EN 301 215-2, Radiation Pattern Envelope (RPE) TS 1, Gain Category 2, oder gleichwertige Antennentypen, welche das gleiche Schutzziel einer effizienten Frequenznutzung erreichen.
Kanalabstand	min. 3,5 MHz max. 56 MHz	
Paarfrequenzabstand	1008 MHz	
Belegte Bandbreite	entsprechend dem Kanalabstand	
Zulässige Aussendung	nur digitale Modulationsverfahren	
Übertragungsgeschwindigkeit	min. 2 Mbit/s bei Kanalabstand 3,5 MHz	
Funkdienst laut VO-Funk	Fester Funkdienst	
(Harmonisierte) Norm welche den Stand der Technik beschreibt	EN 301 753	
Sonstige Schnittstellenmerkmale	CEPT Rec.T/R 13-02 Annex B	
Geräteklasse entsprechend RL 99/5/EG	nicht festgelegt	
Bewilligungsart	Individuelle Bewilligung	Für Teilnehmerfunkstellen in Punkt-zu-Multipunkt Richtfunksystemen (Richtfunkverteilsysteme).
Grundlegende Anforderungen entsprechend RL 99/5/EG, Art. 3.3.	nicht festgelegt	



Annex C

CEPT Recommendation T/R 13-02 E

Channel arrangements for fixed services in the range 22.0-29.5 GHz

Recommendation T/R 13-02 E (Montreux 1993)

**PREFERRED CHANNEL ARRANGEMENTS FOR
FIXED SERVICES IN THE RANGE 22.0 - 29.5 GHz**

Recommendation proposed by the Working Group "Frequency Management" (FM)

Text of the Recommendation adopted by the "European Radiocommunications Committee" (ERC):

The European Conference of Postal and Telecommunications Administrations,

considering:

- 1) that following decisions taken at WARC-92, new fixed service channelling arrangements are required in the range 22.0 - 29.5 GHz;
- 2) that a wide range of fixed service applications requiring various channel bandwidths need to be accommodated;
- 3) that there are technical and economic advantages in adopting harmonised channel plans.

noting:

- a) that in the context of this recommendation the guard band is defined as the frequency difference between the edge of the band and the channel edge;
- b) that the separation band is defined as the band between the go and return halves, from edge of the bands used by other services;
- c) that the centre gap is defined as the frequency difference between the upper and lower channel edges of the go and return halves of the band;
- d) that TX/RX separation is defined as the frequency separation between the centre frequency of the transmitter and the centre frequency of the associated receiver.

further noting:

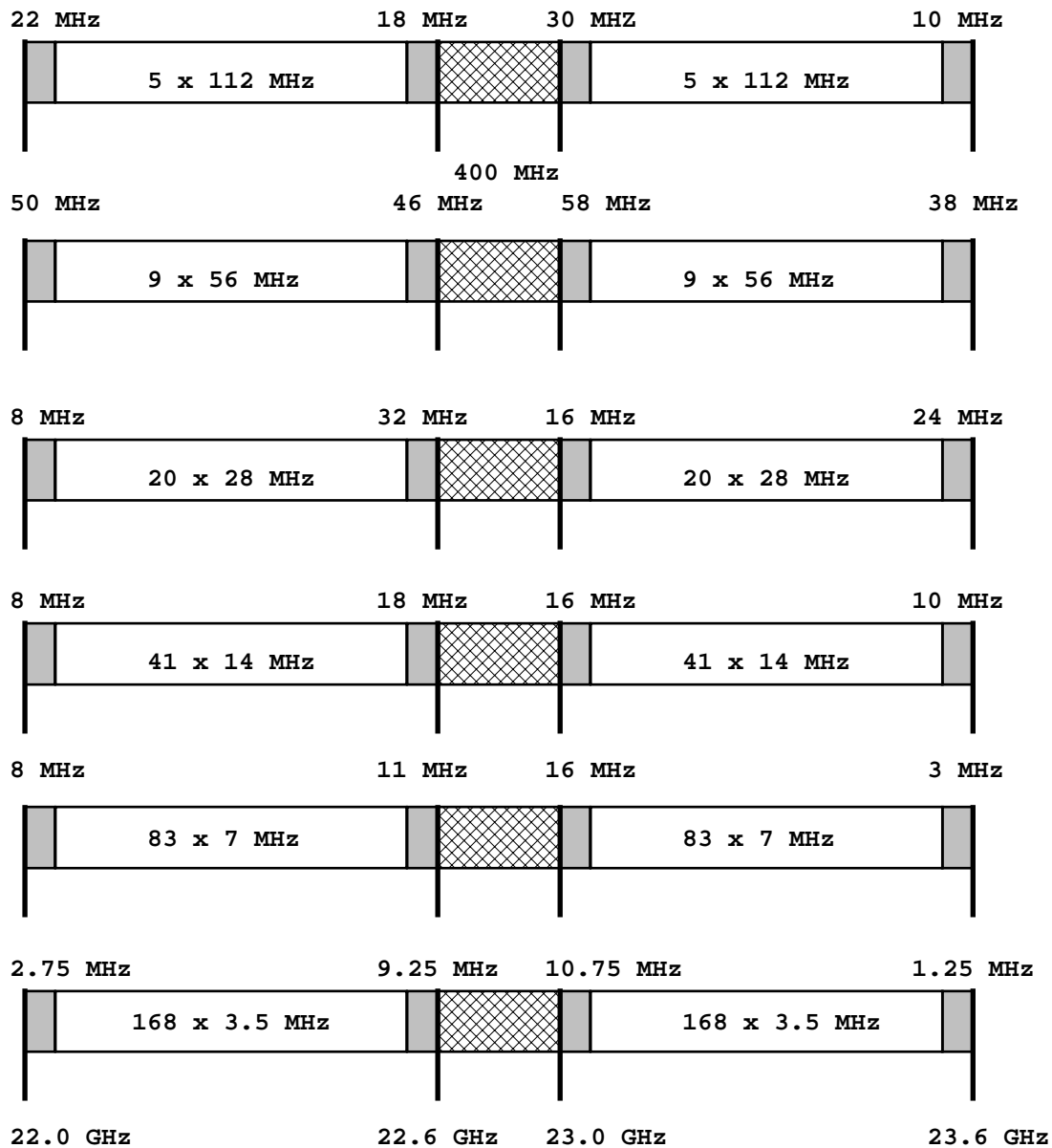
that the bands 22.6 - 23.0 GHz and 24.25 - 24.5 GHz may be used for unidirectional links such as ENG/OB.

recommends:

- 1) that the fixed service in the band 22.0 - 22.6 GHz paired with 23.0 - 23.6 GHz should be operated in accordance with the channel plan given in Annex A;
- 2) that the fixed service in the band 24.5 - 26.5 GHz should be operated in accordance with the channel plan given in Annex B;
- 3) that the fixed service in the band 27.5 - 29.5 GHz should be operated in accordance with the channel plan given in Annex C.

ANNEX A

Frequency bands 22.0-22.6 / 23.0 - 23.6 GHz



Let

f_0 be the centre frequency of **21196** MHz

f_n be the centre frequency of the radio-frequency channel in the lower half of the band

f_n' be the centre frequency of the radio-frequency channel in the upper half of the band

TX/RX separation = **1008** MHz

Centre gap = **400** MHz

then the frequencies of individual channels are expressed by the following relationships :

a) for systems with a carrier spacing of 112 MHz

$$\begin{array}{ll} \text{lower half of the band :} & f_n = f_0 + 770 + 112n \\ \text{upper half of the band :} & f_n' = f_0 + 1778 + 112n \end{array} \quad \text{where } n = 1, \dots, 5$$

b) for systems with a carrier spacing of 56 MHz

$$\begin{array}{ll} \text{lower half of the band :} & f_n = f_0 + 826 + 56n \\ \text{upper half of the band :} & f_n' = f_0 + 1834 + 56n \end{array} \quad \text{where } n = 1, \dots, 9$$

c) for systems with a carrier spacing of 28 MHz

$$\begin{array}{ll} \text{lower half of the band :} & f_n = f_0 + 798 + 28n \\ \text{upper half of the band :} & f_n' = f_0 + 1806 + 28n \end{array} \quad \text{where } n = 1, \dots, 20$$

d) for systems with a carrier spacing of 14 MHz

$$\begin{array}{ll} \text{lower half of the band :} & f_n = f_0 + 805 + 14n \\ \text{upper half of the band :} & f_n' = f_0 + 1813 + 14n \end{array} \quad \text{where } n = 1, \dots, 41$$

e) for systems with a carrier spacing of 7 MHz

$$\begin{array}{ll} \text{lower half of the band :} & f_n = f_0 + 808.5 + 7n \\ \text{upper half of the band :} & f_n' = f_0 + 1816.5 + 7n \end{array} \quad \text{where } n = 1, \dots, 83$$

f) for systems with a carrier spacing of 3.5 MHz

$$\begin{array}{ll} \text{lower half of the band :} & f_n = f_0 + 805 + 3.5n \\ \text{upper half of the band :} & f_n' = f_0 + 1813 + 3.5n \end{array} \quad \text{where } n = 1, \dots, 168$$

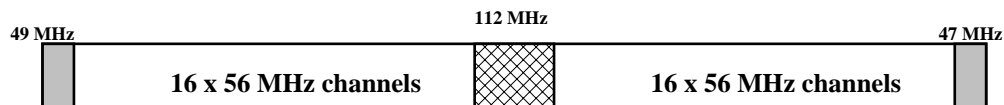
ANNEX B

Frequency band 24.5 - 26.5 GHz

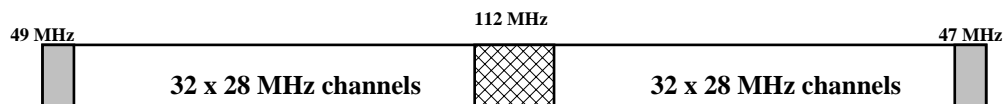
(a) 112 MHz channels (3.5 MHz x 32)



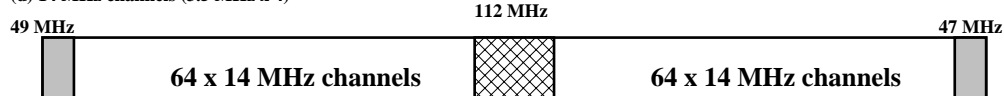
(b) 56 MHz channels (3.5 MHz x 16)



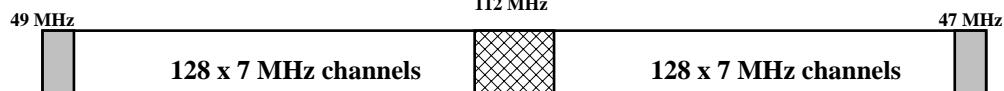
(c) 28 MHz channels (3.5 MHz x 8)



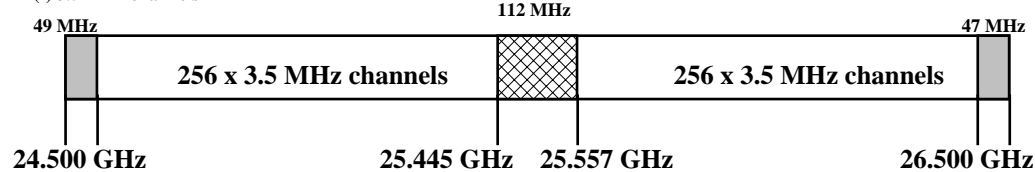
(d) 14 MHz channels (3.5 MHz x 4)



(e) 7 MHz channels (3.5 MHz x 2)



(f) 3.5 MHz channels



Let

f_0 be the centre frequency of **25501.0 MHz**

f_n be the centre frequency of the radio-frequency channel in the lower half of the band

f_n' be the centre frequency of the radio-frequency channel in the upper half of the band

TX/RX separation = **1008 MHz**

Centre gap = **112 MHz**

then the frequencies of individual channels are expressed by the following relationships:

a) for systems with a carrier spacing of 112 MHz

$$\begin{array}{lll} \text{lower half of the band:} & f_n = f_0 - 1008 + 112n & \\ \text{upper half of the band:} & f_{n'} = f_0 + 112n & \text{where } n = 1, \dots, 8 \end{array}$$

b) for systems with a carrier spacing of 56 MHz

$$\begin{array}{lll} \text{lower half of the band:} & f_n = f_0 - 980 + 56n & \\ \text{upper half of the band:} & f_{n'} = f_0 + 28 + 56n & \text{where } n = 1, \dots, 16 \end{array}$$

c) for systems with a carrier spacing of 28 MHz

$$\begin{array}{lll} \text{lower half of the band:} & f_n = f_0 - 966 + 28n & \\ \text{upper half of the band:} & f_{n'} = f_0 + 42 + 28n & \text{where } n = 1, \dots, 32 \end{array}$$

d) for systems with a carrier spacing of 14 MHz

$$\begin{array}{lll} \text{lower half of the band:} & f_n = f_0 - 959 + 14n & \\ \text{upper half of the band:} & f_{n'} = f_0 + 49 + 14n & \text{where } n = 1, \dots, 64 \end{array}$$

e) for systems with a carrier spacing of 7 MHz

$$\begin{array}{lll} \text{lower half of the band:} & f_n = f_0 - 955.5 + 7n & \\ \text{upper half of the band:} & f_{n'} = f_0 + 52.5 + 7n & \text{where } n = 1, \dots, 128 \end{array}$$

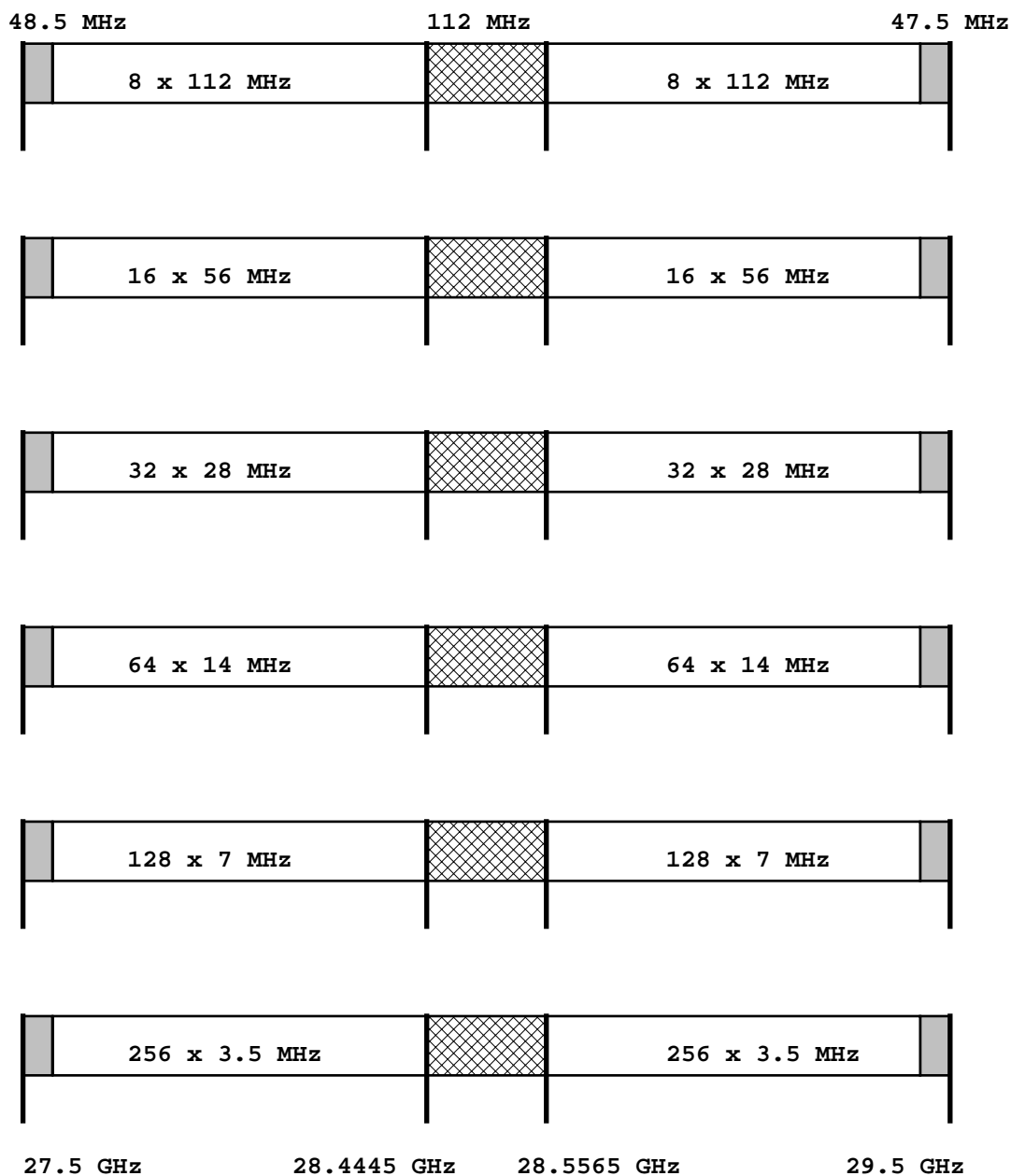
f) for systems with a carrier spacing of 3.5 MHz

$$\begin{array}{lll} \text{lower half of the band:} & f_n = f_0 - 953.75 + 3.5n & \\ \text{upper half of the band:} & f_{n'} = f_0 + 54.25 + 3.5n & \text{where } n = 1, \dots, 256 \end{array}$$

The arrangement f) above uses frequencies spaced by 3.5 MHz but interleaved between the homogenous pattern with an offset of 1.75 MHz.

ANNEX C

Frequency band 27.5 - 29.5 GHz



Let

f_0 be the centre frequency of **28500.5** MHz

f_n be the centre frequency of the radio-frequency channel in the lower half of the band

f_n' be the centre frequency of the radio-frequency channel in the upper half of the band

TX/RX separation = **1008** MHz

Centre cap = **112** MHz

then the frequencies of individual channels are expressed by the following relationships :

a) for systems with a carrier spacing of 112 MHz

$$\begin{array}{ll} \text{lower half of the band:} & f_n = f_0 - 1008 + 112n \\ \text{upper half of the band:} & f_n' = f_0 + 112n \end{array} \quad \text{where } n = 1, \dots, 8$$

b) for systems with a carrier spacing of 56 MHz

$$\begin{array}{ll} \text{lower half of the band:} & f_n = f_0 - 980 + 56n \\ \text{upper half of the band:} & f_n' = f_0 + 28 + 56n \end{array} \quad \text{where } n = 1, \dots, 16$$

c) for systems with a carrier spacing of 28 MHz

$$\begin{array}{ll} \text{lower half of the band:} & f_n = f_0 - 966 + 28n \\ \text{upper half of the band:} & f_n' = f_0 + 42 + 28n \end{array} \quad \text{where } n = 1, \dots, 32$$

d) for systems with a carrier spacing of 14 MHz

$$\begin{array}{ll} \text{lower half of the band:} & f_n = f_0 - 959 + 14n \\ \text{upper half of the band:} & f_n' = f_0 + 49 + 14n \end{array} \quad \text{where } n = 1, \dots, 64$$

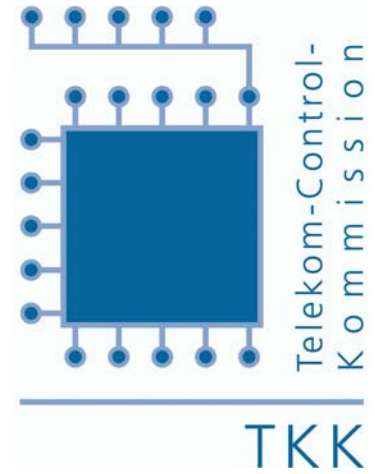
e) for systems with a carrier spacing of 7 MHz

$$\begin{array}{ll} \text{lower half of the band:} & f_n = f_0 - 955.5 + 7n \\ \text{upper half of the band:} & f_n' = f_0 + 52.5 + 7n \end{array} \quad \text{where } n = 1, \dots, 128$$

f) for systems with a carrier spacing of 3.5 MHz

$$\begin{array}{ll} \text{lower half of the band:} & f_n = f_0 - 953.75 + 3.5n \\ \text{upper half of the band:} & f_n' = f_0 + 54.25 + 3.5n \end{array} \quad \text{where } n = 1, \dots, 256$$

The arrangement f) above uses frequencies spaced by 3.5 MHz but interleaved between the homogenous pattern with an offset of 1.75 MHz.



Annex D

Application Form

**Application Form for Frequency
Allocations in the 26 GHz Frequency Range**

1. Applicant's name and address, e-mail address and telephone number

Regions

I (we) plan to participate in the auction for the following regions:

- Region 1
- Region 2
- Region 3
- Region 4
- Region 5
- Region 6

Bidding Entitlement

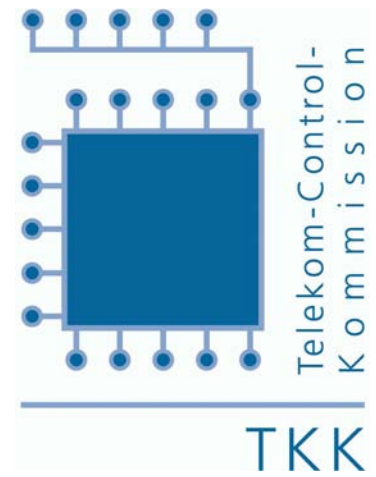
I (we) would like to apply for a bidding entitlement of _____
(in words: _____) points.

Bank Guarantee

*A bank guarantee in the amount of EUR _____
(in words: _____) is enclosed with this
application.*

Date:

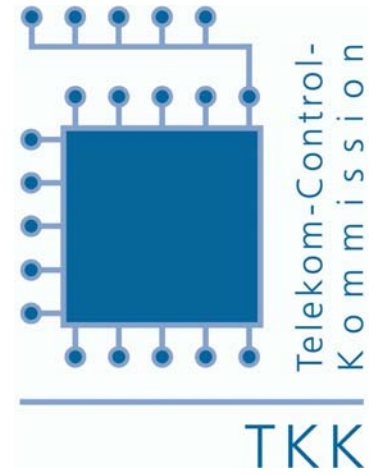
(official company signature)



Annex E

Business Plan

Projected Profit & Loss Account		2007	2008	2009	2010	2011
		EUR '000	EUR '000	EUR '000	EUR '000	EUR '000
	Services					
	Inputs					
	Other					
Income	Total	0	0	0	0	0
	Own personnel					
	Leased personnel and freelancers					
	Technical expenses incurred with third parties					
	Rental, leasing of technical fixed assets					
	Leased line expenses					
	Inputs					
	Depreciation of technical fixed assets (radio network)					
	Depreciation of other technical fixed assets					
	Other depreciation					
	Other expenses					
Expenses	Total	0	0	0	0	0
	Operating result	0	0	0	0	0
	Cash flow	0	0	0	0	0
	Investments					
	Technical equipment (radio network)					
	Other technical equipment					
	Other investments					
	Total	0	0	0	0	0
	Financing					
	Own funds					
	Debt capital from affiliated companies, short-term (up to approx. 3 years)					
	Debt capital from affiliated companies, long-term					
	Other debt capital, short-term (up to approx. 3 years)					
	Other debt capital, long-term					
	Total	0	0	0	0	0
	Personnel					
	Number of FTEs ¹ – technical personnel					
	Number of FTEs ¹ – other personnel					
	Leased personnel and freelancers					
	Total	0	0	0	0	0
	Projected Balance Sheet	2007	2008	2009	2010	2011
		EUR '000	EUR '000	EUR '000	EUR '000	EUR '000
	Technical fixed assets (radio network)					
	Other technical fixed assets					
	Other fixed assets					
	Total fixed assets	0	0	0	0	0
	Other assets					
Assets	Total	0	0	0	0	0
	Shareholders' equity					
	Liabilities to affiliated companies, short-term (up to approx. 3 years)					
	Liabilities to affiliated companies, long-term					
	Other liabilities, short-term (up to approx. 3 years)					
	Other liabilities, long-term					
	Other liabilities					
Liabilities	Total	0	0	0	0	0
1) FTEs: full-time equivalents. Conversion of part-time personnel into full-time equivalents: One part-time employee who works 10 hours per week is equivalent to 0.25 FTE (based on a 40-hour week for full-time employees).						



Annex F

Declaration of Completeness

Declaration of Completeness

To

Telekom-Control Commission
Mariahilfer Strasse 77-79
A-1060 Vienna
Austria

Name and address of applicant

Re: **Application in Procedure F 3/06**

The applicant hereby declares the following:

The information and documents requested in the tender document F 3/06 and required for the evaluation of the application in the frequency allocation procedure in compliance with the relevant provisions of European Community law and all applicable Austrian legal regulations, especially those of the Telecommunications Act (TKG), have been included completely and truthfully in this application, even in cases where said information is not expressly requested in the invitation to tender.

In particular, with regard to

- the ownership structure of the applicant,
- the planned means of financing, and
- the business plan,

no additional agreements, understandings or other relevant matters other than those disclosed in the application exist which could influence the evaluation of this application.

Date

Signature